

# CATALOGUE OF PRODUCTION 2017



JSC "Luga Abrasive Plant" is a modern diversified enterprise situated in Luga Leningrad region. It is one of the greatest in the world producers of abrasive tool. The plant celebrated its centenary in the year 2006.

The production of the plant is well known to customer, probably, there is no Russian master hand, which hadn't work just for once with cut-off wheel of the brand "Luga Abrasiv". The tool of JSC "Luga Abrasive Plant" is manufactured of high-quality raw materials, on the modern equipment, with usage of high technology. Thanks to it it's possible to satisfy any demands of the consumers. Thus, all this guarantees to our buyer, both in Russia and abroad that he will receive at his disposal high-quality and reliable product.

Manufactured production has all necessary Sanitary Epidemiological Conclusions and certificates of conformity.

We offer you wide range of grinding and cut-off wheels, coated abrasives and products made of these materials as well as fireproof production for melting and dispensing of non-ferrous metals. Marketing services and technicians are always at the disposal of our clients. They will give you exhaustive trade and technical information which will help you to choose necessary tool.

### JSC "Luga Abrasive Plant"

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Resinoid bond abrasive tools



5

Ceramic bond abrasive tools



103

Flexible backing abrasives



195

Fireproof products



269

# SYSTEM OF ABRASIVE TOOL MARKING

$\overset{D}{\underset{1}{3}} \overset{T}{\underset{2}{150 \times 16 \times 32}} \overset{H}{\underset{3}{WA}} \underset{4}{40} \underset{5}{K} \underset{6}{6} \underset{7}{V} \underset{8}{30} \underset{9}{2}$

1. TYPE	WHEELS	4. GRIT	ABRASIVE GRAIN
1 - straight profile wheel		F10	F36
2 - annular wheel		F12	F40
3 - cone profile wheel		F14	F46
4 - double-sided cone profile wheel		F16	F54
5 - recessed wheel		F20	F60
6 - cup cylinder wheel		F22	F70
7,8,9 - double-sided recessed wheel		F24	F80
10 - double-sided recessed hub wheel		F30	F90
11 - cup cone wheel		POWDERS	
12 - flat dish wheel		F100	F180
14 - dish wheel		F120	F220
20 - cone recessed wheel		F150	
21 - double-sided cone recessed wheel		MICROCRYSTALLINE POWDERS	
23 - one-sided cone and cylinder recessed wheel		F230	F360
27 - depressed center wheel		F240	F400
35 - straight profile butt-end wheel		F280	F500
36,37,40 - wheel with pressed-in fastening components		F320	F600
38 - hub butt-end wheel		5. HARDNESS	
41 - cut-off wheel		F, G	HIGHLY SOFT
42 - cut-off wheel with depressed center		H, I, J	SOFT
SEGMENTS		K, L	AVERAGE SOFT
SP - rectangular		M, N	AVERAGE
1S - convexo-concave		O, P, Q	AVERAGE HARD
2S - concave-convexo		R, S	HARD
3S - convexo-flat		T	HIGHLY HARD
4S - flat-convex		V	EXTREMELY HARD
5S - trapezoidal		6. STRUCTURE	
6S - for floor grinding		1-2-3-4	closed
7S - for surface grinding		5-6-7	average
9S - for rail grinding		8-9-10	open
HONES		11-13	high-porous
BP - rectangular		7. BOND	
BKw - square		V	CERAMIC
BT - triangular		B	RESINOID
BKr - round		BF	RESINOID WITH REINFORCEMENT
BPs - special		B4	RESINOID WITH GRAPHITE FILLER
2. WHEEL SIZES		8. OPERATING SPEED, MPS	
D - outer diameter		20; 25; 30; 32; 35; 40; 50; 63; 80; 100	
T - height		9. DISBALANCE RATING	
H - hole diameter		1, 2	
3. ABRASIVE MATERIAL			
14A (A)	REGULAR ALUMINA		
25A (WA)	WHITE ALUMINA		
38A (ZK)	ZIRCONIA ALUMINA		
53C, 54C (C)	BLACK SILICON CARBIDE		
63C, 64C (GC)	GREEN SILICON CARBIDE		



# ABRASIVE TOOLS RECOMMENDATIONS OF CHOOSING AND APPLYING

## Choosing of abrasive material

ABRASIVE MATERIAL QUALITY (FOCT; ISO)		APPLICATION
14A	A	Processing of materials with high rupture strength, snagging of steel castings, rolled stock, high-strength cast iron, processing of carbon and alloyed steel, bronze, nickel and aluminium alloys.
25A	WA	Processing of the hardened details of carbon, high-speed and stainless steel. Processing of the fine details and tools (teeth, knives, drills, chisels), sharpening.
38A	ZK	Power grinding of steel billets by snagging.
54C; 63C	C; GC	Processing of hard materials with low rupture strength (cast iron, bronze, brass, hard alloy, glass, precious stones, marble, granite, porcelain), and very tenacious materials (high-temperature steel, alloys, copper, aluminium).

## Choosing of the wheel grit

GRIT (ISO)	TYPE OF PROCESSING
F10-F22	Snagging operations with a large cutting depth, billet and casting grinding. Treatment of materials, causing loading of wheel's surface (brass, copper, aluminium).
F22-F36	Surface grinding with the wheel face, chisel sharpening, abrasive tool dressing, cutting off.
F30-F60	Preliminary and combined grinding, cutting tool sharpening.
F40-F220	Flat surface grinding.
F54-F90	Fine grinding, profile surface processing, small tool sharpening, grinding of brittle materials.
F100-F180	Finish grinding, lapping of cutting tools and steel billets, thin edge sharpening, preliminary honing.
F180-F280	Finish grinding of metals, glass, marble and etc., thread grinding finish honing.
F230-F600	Superfinishing, finish honing, thin edge lapping, thread grinding of pieces with a fine pitch, polishing.

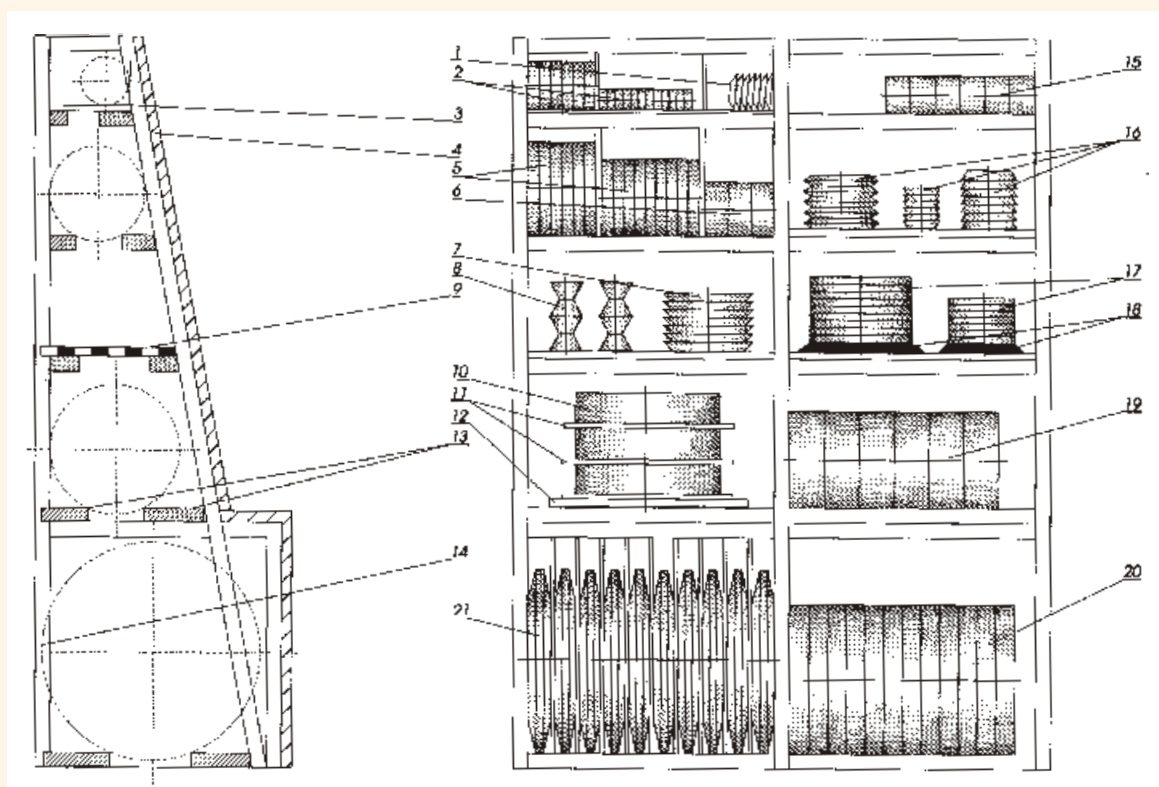
## Choosing of the tool hardness

GRADE (ISO)	TYPE OF PROCESSING
W; T	Snagging operations, abrasive tool setting, ball-bearing ball grinding.
S; R; Q; P	Cutting off, slotting, hand snagging operations, circular external grinding, centreless grinding, uneven surface and profile grinding.
P; O; N	Preliminary circular external and centreless grinding of steel, malleable cast iron. Profile grinding, uneven surface processing, honing and thread grinding of parts with a coarse pitch.
O; N; M	Flat surface grinding with the segments and annular wheels, thread grinding with the resinoid bond wheels.
N; M; L; K	Fine and combined circular, external centreless and internal grinding of steel, flat surface grinding, thread grinding, cutting tools sharpening.
L; K; J	Sharpening and lapping of hard-faced cutting tools, grinding of special-property alloys, which are hard to process, polishing.

# ABRASIVE TOOLS STORAGE RECOMMENDATIONS

Abrasive tools must be stored in dry covered well-aired places with stable temperature within the limits of 15-20°C. Organic bond wheels are perceptible to an alkaline condition and changes of temperature; thus they must not be stored together with chemicals and be subjected to unilateral heating. For example, they must not be near heating devices.

Grinding wheels are perceptible to strokes and flexural stresses. As a result they demand handling with care and certain conditions of storage for keeping their reliability and operational safety. At the picture one of versions of the right arrangement of abrasive tools on racks is shown depending on the sizes of wheels.



## The example of the rack for putting abrasive wheels.

- |   |  |
|---|--|
| 1 - small dish wheels,  | 11 - corrugated cardboard,                                       |
| 2 - small straight wheels,                                      | 12 - steel or ceramic flat bolstering table,                     |
| 3 - shelves with slope for avoidance of fall of the wheels,     | 13 - point-to-point pedestal of wheels established on periphery, |
| 4 - back wall of a rack with a protective coating,              | 14 - leading edge of a wheel,                                    |
| 5 - straight wheels,  | 15 - small cylinder and cup wheels,                              |
| 6 - small cylinder wheels,                                      | 16 - straight wheels with profile periphery,                     |
| 7 - big dish wheels,  | 17 - straight cut-off wheels,                                    |
| 8 - cone wheels located a floor to a floor and edge to an edge, | 18 - steel or ceramic flat bolstering table,                     |
| 9 - flat shelf for cut-off wheels,                              | 19 - cylinder hard or thick wheels,                              |
| 10 - thin or soft cylinder wheels,                              | 20 - straight ceramic wheels of the average size,                |
|   | 21 - big cone wheels.  |



# RESINOID BOND ABRASIVE TOOLS





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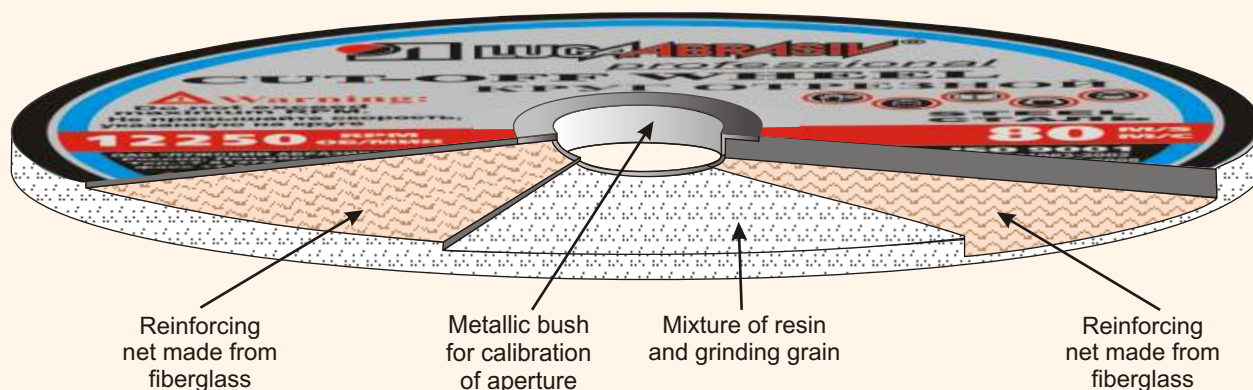
Grinding stones

101

## ABRASIVE TOOLS NOTATIONS



## CONSTRUCTION



## RECOMMENDATIONS ON SECURE APPLICATION



Protective  
Gloves  
are required



Consider safety  
recommendations



Put on  
a respirator



Protection of eyes  
is required



Anti-noise  
Protection  
is required



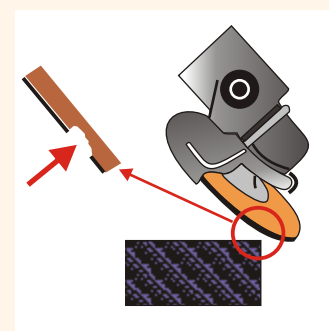
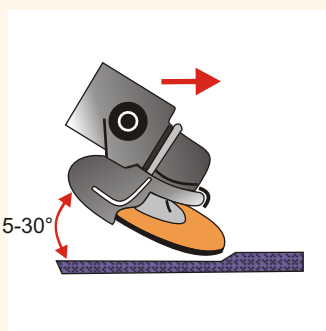
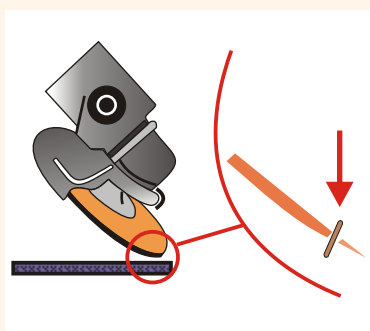
Is not permissible  
for end grinding



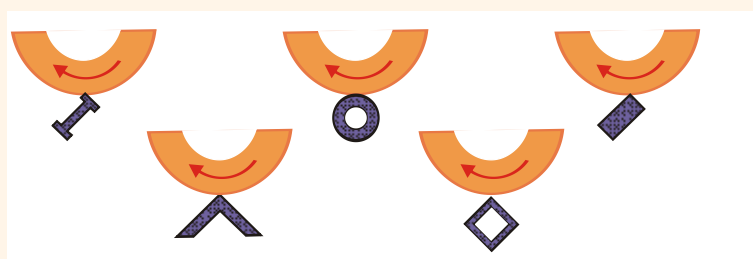
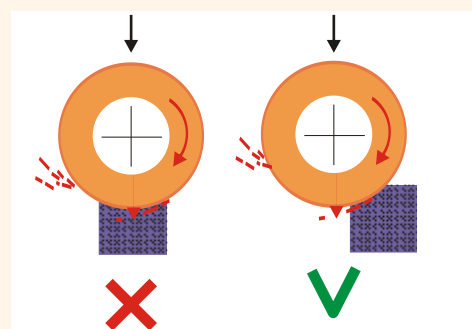
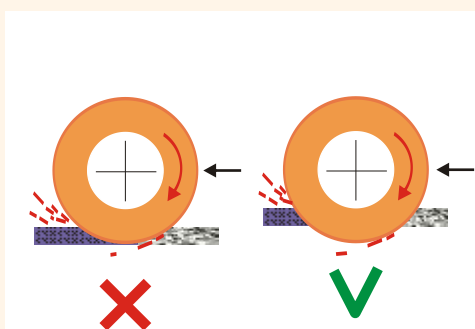
Is not permissible  
for cutoff and  
grinding  
with hand  
portable grinders



Is not permissible  
cutoff and  
grinding  
under water



With a purpose of uniform operation of grinding wheels it is recommended to change periodically an inclination of the manual machine and alternate processing sharp sites to polishing a plane





# «THIN» CUT-OFF WHEELS

## NEW SERIES





Our specialists have developed new series of wheels for professionals - "thin" cut-off wheels.

Wheels are produced according to new technology which provides uniform distribution of weight and reinforcing material in a wheel. It allows low disbalance, increased elasticity and flexibility of a wheel during the cutting of various profiled materials. The long-life of these wheels is at the same level as of the standard thicker wheels and in some cases even exceeds it.

We produce 4 types of «thin» cut-off wheels which are used for cutting of various materials:

**New!**

**80m/s**

Series of cut-off wheels	Field of application	
<b>STEEL</b>	constructional steel tool steel	
<b>INOX</b>	stainless (rust-resisting) steel acid-resisting and heat-resisting steel	
<b>NON-FERROUS METALS</b>	non-ferrous metals alloys on the basis of non-ferrous metals	
<b>METAL + INOX</b>	the universal wheels for cutting of all types of steel	

«Thin» cut-off wheels are used for cutting by manual grinding machines:

- tubes and profiles of any diameter;
- metal cores and wires;
- sheet metals;
- body of cars and so on.

### Type 41

Diameter mm	Height mm	Mounting bore mm
115	0.8; 1.0; 1.2; 1.4; 1.6	22.23
125	0.8; 1.0; 1.2; 1.4; 1.6	22.23
150	1.0; 1.2; 1.4; 1.6; 1.8	22.23
180	1.4; 1.6; 1.8	22.23
230	1.6; 1.8; 2.0	22.23

The basic advantages of «thin» cut-off wheels:

- ideal for cutting the above-stated materials;
- the cutting with thin wheels saves the metal;
- the increased long-life of wheels due to the decrease of the used during the work efforts;
- 60% reduction of energy consumption;
- high productivity during the cutting;
- low temperature of the cut and its smoothness is provided by cutting the smaller quantity of the material;
- decrease in temperature of cutting reduce considerably the risk of structure changing of metals by "burning";
- save time for additional processing of material because by cutting wheels leave less burrs;
- reduction of transport expenses, warehouses, packing material;

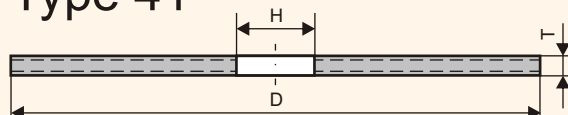
FOR EXAMPLE: the size of a wheel	in a package	in a box	weight
125x1.0x22.23	25 pcs	400 pcs	10.6 kg
125x2.5x22.23	50 pcs	200 pcs	13.5 kg

- reduce the amount of waste and the problem of its utilization accordingly.

# CUT-OFF AND SMOOTHING WHEELS FOR HAND PORTABLE GRINDERS

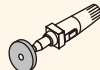
## METAL+INOX

### Type 41



Special structure of the wheels, which don't contain iron, sulphur and chlorine allows to avoid "cauterizations" of cut up and protected material and its soiling during the process of working.

For high-performance cutting the details and constructions made of different kinds of steels and high speed steels. Especially effective during cutting slender profile and sheet metal.



**80m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
50	1.0	6	A 54 S BF	30600	0.004	200
76	0.8	9.55	A 60 S BF	20110	0.007	200
76	1.0	9.55	A 54 S BF	20110	0.010	200
76	1.2	9.55	A 54 S BF	20110	0.012	200
76	1.4	9.55	A 40 S BF	20110	0.014	200
76	1.6	9.55	A 40 S BF	20110	0.016	200
76	1.8	9.55	A 40 S BF	20110	0.018	200
80	1.6	10	A 40 S BF	19100	0.017	200
100	0.8	9.55;16;20;22.23	A 60 S BF	15300	0.012	400
100	1.0	9.55;16;20;22.23	A 54 S BF	15300	0.017	400
100	1.2	9.55;16;20;22.23	A 54 S BF	15300	0.020	400
100	1.4	9.55;16;20;22.23	A 40 S BF	15300	0.023	400
100	1.6	9.55;16;20;22.23	A 40 S BF	15300	0.027	400
100	1.8	9.55;16;20;22.23	A 40 S BF	15300	0.031	200
115	0.8	16;22.23	A 60 S BF	13300	0.016	400
115	1.0	16;22.23	A 54 S BF	13300	0.022	400
115	1.2	16;22.23	A 54 S BF	13300	0.026	400
115	1.4	16;22.23	A 40 S BF	13300	0.030	400
115	1.6	16;22.23	A 40 S BF	13300	0.035	400
115	1.8	16;22.23	A 40 S BF	13300	0.039	200

Novelty!

Novelty!  
Novelty!

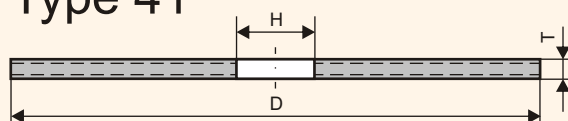
Novelty!

Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## METAL+INOX

### Type 41



Special structure of the wheels, which don't contain iron, sulphur and chlorine allows to avoid "cauterizations" of cut up and protected material and its soiling during the process of working.

For high-performance cutting the details and constructions made of different kinds of steels and high speed steels. Especially effective during cutting slender profile and sheet metal.



**80m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
125	0.8	22.23	A 60 S BF	12250	0.019	400
125	1.0	22.23	A 54 S BF	12250	0.026	400
125	1.2	22.23; 32	A 54 S BF	12250	0.030	400
125	1.4	22.23; 32	A 40 S BF	12250	0.036	400
125	1.6	22.23; 32	A 40 S BF	12250	0.041	400
125	1.8	22.23; 32	A 40 S BF	12250	0.047	200
150	1.0	22.23; 32	A 54 S BF	10200	0.037	200
150	1.2	22.23; 32	A 54 S BF	10200	0.045	200
150	1.4	22.23; 32	A 40 S BF	10200	0.054	200
150	1.6	22.23; 32	A 40 S BF	10200	0.060	200
150	1.8	22.23; 32	A 40 S BF	10200	0.068	200
180	1.4	22.23; 32	A 40 S BF	8500	0.077	200
180	1.6	16;22.23; 32	A 40 S BF	8500	0.087	150
180	1.8	16;22.23; 32	A 40 S BF	8500	0.098	150
200	1.6	22.23; 32	A 40 S BF	7650	0.108	100
200	1.8	22.23; 32	A 40 S BF	7650	0.122	100
230	1.6	22.23; 32	A 40 S BF	6650	0.143	100
230	1.8	22.23; 32	A 40 S BF	6650	0.161	100

Novelty!

Novelty!

Novelty!

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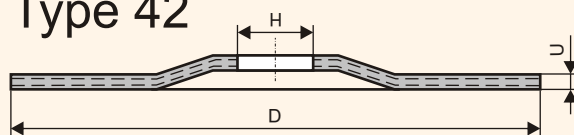
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## METAL+INOX

### Type 42




Special structure of the wheels, which don't contain iron, sulphur and chlorine allows to avoid "cauterizations" of cut up and protected material and its soiling during the process of working.

For high-performance cutting the details and constructions made of different kinds of steels and high speed steels. Especially effective during cutting slender profile and sheet metal.



**80m/s**

D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	1.6	22.23	A 40 S BF	13300	0.035	400
115	1.8	22.23	A 40 S BF	13300	0.039	200
125	1.6	22.23	A 40 S BF	12250	0.041	400
125	1.8	22.23	A 40 S BF	12250	0.047	200

**Novelty!**

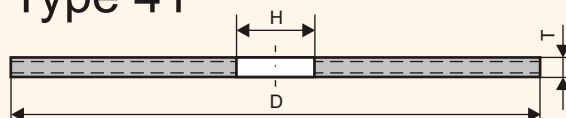
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

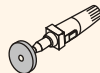


## STEEL

### Type 41



For high-performance cutting the details and constructions made of different kinds of steels.



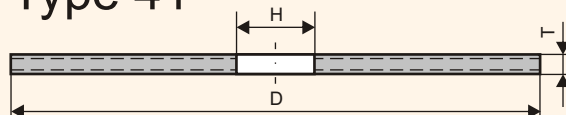
**80m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
50	2.0	10	A 36 S BF	30600	0.009	200
63	3.0	10	A 24 S BF	24300	0.020	300
70	3.0	8	A 24 S BF	21830	0.026	200
76	2.0	9.55	A 36 S BF	20100	0.020	100
76	2.3	9.55	A 30 S BF	20100	0.023	100
76	2.5	9.55	A 30 S BF	20100	0.025	100
76	3.0	9.55	A 24 S BF	20100	0.030	100
80	3.0	6	A 24 S BF	19100	0.033	100
80	3.2	10	A 24 S BF	19100	0.036	100
80	3.5	6	A 36 Q BF	19100	0.040	100
100	2.0	16; 22.23	A 36 S BF	15300	0.034	200
100	2.3	16; 22.23	A 30 S BF	15300	0.039	200
100	2.5	16; 22.23	A 30 S BF	15300	0.043	200
100	3.0	16; 22.23	A 24 S BF	15300	0.051	200
115	1.4	22.23	A 40 S BF	13300	0.030	400
115	1.6	22.23	A 40 S BF	13300	0.033	400
115	1.8	22.23	A 40 S BF	13300	0.039	200
115	1.9	22.23	A 36 S BF	13300	0.042	200
115	2.0	22.23	A 36 S BF	13300	0.044	200
115	2.3	22.23	A 30 S BF	13300	0.051	200
115	2.4	22.23	A 30 S BF	13300	0.053	200
115	2.5	22.23	A 30 S BF	13300	0.056	200
115	3.0	22.23	A 24 S BF	13300	0.067	200
115	4.0	22.23	A 24 S BF	13300	0.089	200
125	1.4	22.23; 32	A 40 S BF	12250	0.036	400
125	1.6	22.23; 32	A 40 S BF	12250	0.041	400
125	1.8	22.23; 32	A 40 S BF	12250	0.047	200
125	1.9	22.23; 32	A 36 S BF	12250	0.050	200
125	2.0	22.23; 32	A 36 S BF	12250	0.052	200
125	2.3	22.23; 32	A 30 S BF	12250	0.061	200
125	2.4	22.23; 32	A 30 S BF	12250	0.063	200
125	2.5	22.23; 32	A 30 S BF	12250	0.066	200
125	3.0	22.23; 32	A 24 S BF	12250	0.080	200
125	4.0	22.23; 32	A 24 S BF	12250	0.106	160

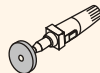
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 41



For high-performance cutting the details and constructions made of different kinds of steels.



**80m/s**

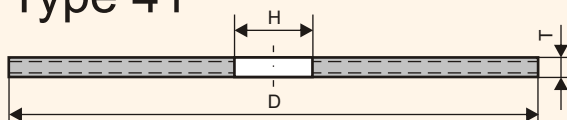
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
150	1.4	22.23; 32	A 40 S BF	10200	0.052	200
150	1.6	22.23; 32	A 40 S BF	10200	0.059	200
150	1.8	22.23; 32	A 40 S BF	10200	0.068	200
150	1.9	22.23; 32	A 36 S BF	10200	0.072	200
150	2.0	22.23; 32	A 36 S BF	10200	0.076	200
150	2.3	22.23; 32	A 30 S BF	10200	0.088	100
150	2.4	22.23; 32	A 30 S BF	10200	0.092	100
150	2.5	22.23; 32	A 30 S BF	10200	0.096	100
150	3.0	22.23; 32	A 24 S BF	10200	0.116	100
150	4.0	22.23; 32	A 24 S BF	10200	0.154	60
180	1.4	22.23; 32	A 40 S BF	8500	0.076	200
180	1.6	22.23; 32	A 40 S BF	8500	0.086	150
180	1.8	22.23; 32	A 40 S BF	8500	0.099	150
180	1.9	22.23; 32	A 36 S BF	8500	0.104	150
180	2.0	22.23; 32	A 36 S BF	8500	0.115	150
180	2.3	22.23; 32	A 30 S BF	8500	0.128	100
180	2.4	22.23; 32	A 30 S BF	8500	0.136	100
180	2.5	22.23; 32	A 30 S BF	8500	0.139	100
180	3.0	16; 22.23; 32	A 24 S BF	8500	0.168	50
180	4.0	22.23; 32	A 24 S BF	8500	0.224	60
200	1.6	22.23; 32	A 40 S BF	7650	0.105	100
200	1.8	22.23; 32	A 40 S BF	7650	0.122	100
200	1.9	22.23; 32	A 36 S BF	7650	0.129	50
200	2.0	22.23; 32	A 36 S BF	7650	0.140	50
200	2.3	22.23; 32	A 30 S BF	7650	0.159	50
200	2.4	22.23; 32	A 30 S BF	7650	0.166	50
200	2.5	22.23; 32	A 30 S BF	7650	0.172	50
200	3.0	22.23; 32	A 24 S BF	7650	0.208	50
200	3.2	22.23; 32	A 24 S BF	7650	0.219	50
200	4.0	22.23; 32	A 24 S BF	7650	0.277	40

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

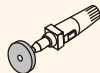


## STEEL


### Type 41



For high-performance cutting the details and constructions made of different kinds of steels.



**80m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
230	1.6	22.23; 32	A 40 S BF	6650	0.151	100
230	1.8	22.23; 32	A 40 S BF	6650	0.162	100
230	1.9	22.23; 32	A 36 S BF	6650	0.172	50
230	2.0	22.23; 32	A 36 S BF	6650	0.181	50
230	2.3	22.23; 32	A 30 S BF	6650	0.210	50
230	2,4	22.23; 32	A 30 S BF	6650	0.216	50
230	2.5	22.23; 32	A 30 S BF	6650	0.229	50
230	3.0	22.23; 32	A 24 S BF	6650	0.276	50
230	3.2	22.23; 32	A 24 S BF	6650	0.294	50
230	3.5	22.23; 32	A 24 S BF	6650	0.322	50
230	4.0	22.23; 32	A 24 S BF	6650	0.368	40

Novelty!  
Novelty!  
Novelty!

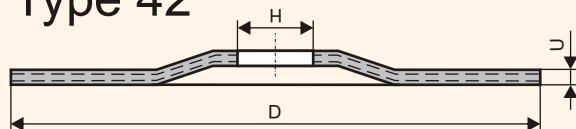
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

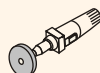


## STEEL


### Type 42



For high-performance cutting the details and constructions made of different kinds of steels.



**80m/s**

D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	1.6	22.23	A 40 S BF	13300	0.035	400
115	1.8	22.23	A 40 S BF	13300	0.039	200
115	2.0	22.23	A 36 S BF	13300	0.044	200
115	2.3	22.23	A 30 S BF	13300	0.051	200
115	2.5	22.23	A 30 S BF	13300	0.056	200
115	3.0	22.23	A 24 S BF	13300	0.067	200
115	4.0	22.23	A 24 S BF	13300	0.089	120
125	1.6	22.23	A 40 S BF	12250	0.041	400
125	1.8	22.23	A 40 S BF	12250	0.047	200
125	2.0	22.23	A 36 S BF	12250	0.052	200
125	2.3	22.23	A 30 S BF	12250	0.061	200
125	2.5	22.23	A 30 S BF	12250	0.066	200
125	3.0	22.23	A 24 S BF	12250	0.080	200
125	4.0	22.23	A 24 S BF	12250	0.106	120
150	2.0	22.23	A 36 S BF	10200	0.076	200
150	2.3	22.23	A 30 S BF	10200	0.088	200
150	2.5	22.23	A 30 S BF	10200	0.096	100
150	3.0	22.23	A 24 S BF	10200	0.116	100
150	4.0	22.23	A 24 S BF	10200	0.154	60
180	2.3	22.23	A 30 S BF	8500	0.128	100
180	2.5	22.23	A 30 S BF	8500	0.139	100
180	3.0	22.23	A 24 S BF	8500	0.168	50
180	4.0	22.23	A 24 S BF	8500	0.224	60
200	2.3	22.23	A 30 S BF	7650	0.159	50
200	2.5	22.23	A 30 S BF	7650	0.172	50
200	3.0	22.23	A 24 S BF	7650	0.208	50
200	4.0	22.23	A 24 S BF	7650	0.277	40
230	2.3	22.23	A 30 S BF	6650	0.211	50
230	2.5	22.23	A 30 S BF	6650	0.229	50
230	3.0	22.23	A 24 S BF	6650	0.276	50
230	4.0	22.23	A 24 S BF	6650	0.368	40

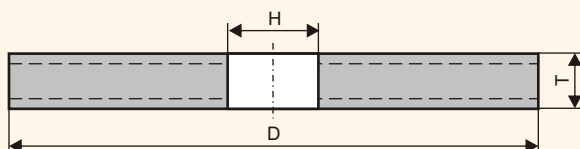
Novelty!  
Novelty!

Novelty!  
Novelty!

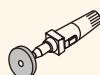
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# STEEL


## Type 1



For high-performance smoothing the details and constructions made of different kinds of steels, welded joints.



**63m/s**

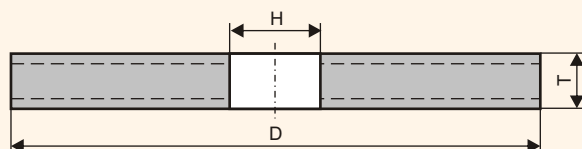
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
60	20	20	A 24 R BF	20060	0.039	50
63	20	20	A 24 R BF	19100	0.145	50
80	20	20	A 24 R BF	15100	0.244	20
100	20	20	A 24 R BF	12100	0.390	32
125	16	32	A 24 R BF	9650	0.468	32
125	20	32	A 24 R BF	9650	0.585	24
125	25	32	A 24 R BF	9650	0.732	16
150	16	32	A 24 R BF	8050	0.698	20
150	20	32	A 24 R BF	8050	0.873	16
150	25	32	A 24 R BF	8050	1.091	12

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

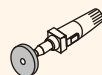


# STEEL

## Type 1



For high-performance smoothing the details and constructions made of different kinds of steels, welded joints.



### 80m/s

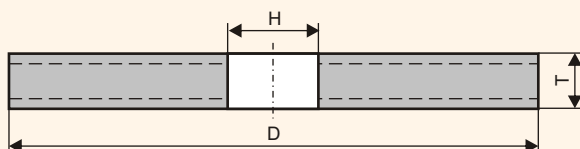
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
60	6	10	A 24 R BF	25470	0.039	200
80	6	6; 8; 10	A 24 R BF	19100	0.070	60
80	8	10	A 24 Q BF	19100	0.093	40
100	6	16; 20; 22.23	A 24 R BF	15300	0.108	96
100	10	20	A 24 R BF	15300	0.178	64
115	5	22.23	A 24 R BF	13300	0.115	120
115	6	22.23	A 24 R BF	13300	0.141	80
115	6.3	22.23	A 24 R BF	13300	0.148	80
115	7	22.23; 32	A 24 R BF	13300	0.170	80
115	8	22.23; 32	A 24 R BF	13300	0.188	72
125	5	22.23; 32	A 24 R BF	12250	0.140	120
125	6	22.23; 32	A 24 R BF	12250	0.168	80
125	6.3	22.23; 32	A 24 R BF	12250	0.176	80
125	7	22.23; 32	A 24 R BF	12250	0.196	80
125	8	22.23; 32	A 24 R BF	12250	0.224	64
125	10	32	A 24 R BF	12250	0.270	64
150	5	22.23; 32	A 24 R BF	10200	0.204	60
150	6	22.23; 32	A 24 R BF	10200	0.244	40
150	6.3	22.23; 32	A 24 R BF	10200	0.256	40
150	7	22.23; 32	A 24 R BF	10200	0.295	40
150	8	22.23; 32	A 24 R BF	10200	0.326	40
150	10	22.23; 32	A 24 R BF	10200	0.407	32
150	12	22.23; 32	A 24 R BF	10200	0.479	28
180	5	22.23; 32	A 24 R BF	8500	0.293	60
180	6	22.23; 32	A 24 R BF	8500	0.354	40
180	6.3	22.23; 32	A 24 R BF	8500	0.372	40
180	7	22.23; 32	A 24 R BF	8500	0.417	30
180	8	22.23; 32	A 24 R BF	8500	0.472	30
180	10	22.23; 32	A 24 R BF	8500	0.590	26
200	5	22.23; 32	A 24 R BF	7650	0.303	20
200	6	22.23; 32	A 24 R BF	7650	0.439	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

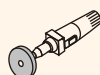


# STEEL


## Type 1



For high-performance smoothing the details and constructions made of different kinds of steels, welded joints.



**80m/s**

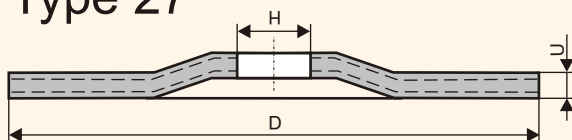
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
200	7	22.23; 32	A 24 R BF	7650	0.528	20
200	8	22.23; 32	A 24 R BF	7650	0.585	20
200	10	22.23; 32	A 24 R BF	7650	0.731	16
230	5	22.23; 32	A 24 R BF	6650	0.485	30
230	6	22.23; 32	A 24 R BF	6650	0.582	20
230	6.3	22.23; 32	A 24 R BF	6650	0.611	20
230	7	22.23; 32	A 24 R BF	6650	0.684	20
230	8	22.23; 32	A 24 R BF	6650	0.776	18
230	10	22.23; 32	A 24 R BF	6650	0.969	14
230	12	22.23; 32	A 24 R BF	6650	1.163	12

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STEEL

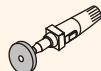
### Type 27




Used for power grinding of features and formations made of various types of steel, weld joints.



**Novelty!**



**80m/s**

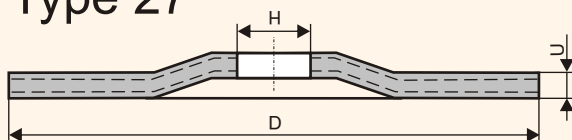
D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	6	22.23	A/ZK 24 T BF	13300	0.145	80
115	7	22.23	A/ZK 24 T BF	13300	0.170	80
125	6	22.23	A/ZK 24 T BF	12250	0.173	80
125	7	22.23	A/ZK 24 T BF	12250	0.202	80
150	6	22.23	A/ZK 24 T BF	10200	0.251	40
150	7	22.23	A/ZK 24 T BF	10200	0.293	40
180	6	22.23	A/ZK 24 T BF	8500	0.364	40
180	7	22.23	A/ZK 24 T BF	8500	0.424	30
230	6	22.23	A/ZK 24 T BF	6650	0.598	20
230	7	22.23	A/ZK 24 T BF	6650	0.698	16

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

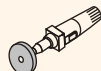


## STEEL


### Type 27



For high-performance smoothing the details and constructions made of different kinds of steels, welded joints.



**80m/s**

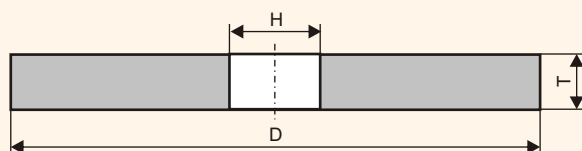
D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
100	4.8	16	A 24 R BF	15300	0.086	120
100	6	16	A 24 R BF	15300	0.108	80
115	5	22.23	A 24 R BF	13300	0.115	120
115	6	22.23	A 24 R BF	13300	0.141	80
115	6.5	22.23	A 24 R BF	13300	0.154	40
115	7	22.23	A 24 R BF	13300	0.170	80
115	8	22.23	A 24 R BF	13300	0.193	80
125	5	22.23	A 24 R BF	12250	0.140	120
125	6	22.23	A 24 R BF	12250	0.168	80
125	6.5	22.23	A 24 R BF	12250	0.190	80
125	7	22.23	A 24 R BF	12250	0.196	80
125	8	22.23	A 24 R BF	12250	0.224	64
125	10	22.23	A 24 R BF	12250	0.280	64
150	5	22.23	A 24 R BF	10200	0.204	60
150	6	22.23	A 24 R BF	10200	0.244	40
150	7	22.23	A 24 R BF	10200	0.295	40
150	8	22.23	A 24 R BF	10200	0.326	40
150	10	22.23	A 24 R BF	10200	0.407	32
180	5	22.23	A 24 R BF	8500	0.293	60
180	6	22.23	A 24 R BF	8500	0.354	40
180	7	22.23	A 24 R BF	8500	0.417	30
180	8	22.23	A 24 R BF	8500	0.472	30
180	10	22.23	A 24 R BF	8500	0.590	26
200	5	22.23	A 24 R BF	7650	0.303	30
200	6	22.23	A 24 R BF	7650	0.439	20
200	7	22.23	A 24 R BF	7650	0.528	14
200	8	22.23	A 24 R BF	7650	0.585	14
200	10	22.23	A 24 R BF	7650	0.731	10
230	5	22.23	A 24 R BF	6650	0.485	20
230	6	22.23	A 24 R BF	6650	0.582	20
230	7	22.23	A 24 R BF	6650	0.684	16
230	8	22.23	A 24 R BF	6650	0.776	16
230	10	22.23	A 24 R BF	6650	0.969	14

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

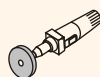


# STEEL


## Type 1



For high-performance smoothing and snagging the details and constructions made of different kinds of steels.



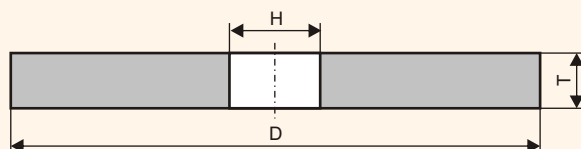
**40m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
50	10	6	A 60 Q B	15300	0.045	200
50	25	20	A 24 Q B	15300	0.105	75
50	40	16	A 24 Q B	15300	0.180	32
60	20	20	A 40 P B	12730	0.117	50
63	10	20	A 60 O B	12150	0.066	100
63	20	20	A 30 Q B	12150	0.143	50
63	32	20	A 40 O B	12150	0.208	30
80	4	20	A 40 P B	9550	0.044	100
80	10	20	A 40 P B	9550	0.109	40
80	20	20	A 24 P B	9550	0.221	20
80	100	20	A 36 O B	9550	1.174	4
100	4	20	A 40 P B	7650	0.075	160
100	5	20	A 40 O B	7650	0.094	120
100	6	20	A 40 P B	7650	0.113	96
100	8	20	A 60 O B	7650	0.177	80
100	10	20	A 36 Q B	7650	0.188	64
100	13	20	A 60 P B	7650	0.248	48
100	13	20	A 36 O B	7650	0.244	48
100	20	20	A 30 Q B	7650	0.353	32
100	25	20	A 20 P B	7650	0.482	24
125	5	32	A 90 Q B	6150	0.137	120
125	6	12.7; 32	A 90 O B	6150	0.165	80
125	8	32	A 40 P B	6150	0.219	64
125	10	32	A 40 O B	6150	0.274	64
125	16	32	A 40 Q B	6150	0.425	32
125	20	32	A 24 Q B	6150	0.586	24
125	25	32	A 24 P B	6150	0.733	16
125	32	32	A 24 P B	6150	0.938	16
125	90	50	A 24 P B	6150	2.370	8

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# STEEL

## Type 1



For high-performance smoothing and snagging the details and constructions made of different kinds of steels.



**40m/s**

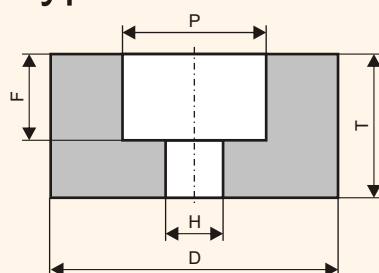
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
150	4	32	A 60 P B	5100	0.160	60
150	5	32	A 90 O B	5100	0.202	60
150	6	32	A 90 O B	5100	0.242	40
150	8	32	A 36 P B	5100	0.316	40
150	10	32	A 24 O B	5100	0.431	32
150	16	32	A 24 Q B	5100	0.690	20
150	20	32	A 24 Q B	5100	0.877	16
150	25	32	A 24 Q B	5100	1.096	12
150	32	32	A 20 Q B	5100	1.403	8
175	6	32	A 90 O B	4360	0.334	40
175	8	32	A 40 P B	4360	0.431	30
175	10	32	A 40 P B	4360	0.539	24
175	20	32	A 24 Q B	4360	1.118	12
175	25	32	A 24 P B	4360	1.485	10
175	32	32	A 30 P B	4360	1.843	8
200	6	32	A 90 P B	3850	0.439	20
200	8	32	A 40 P B	3850	0.568	20
200	10	32	A 40 O B	3850	0.710	16
200	13	32	A 40 P B	3850	0.923	12
200	16	32	A 40 P B	3850	1.135	10
200	20	32	A 24 Q B	3850	1.564	8
200	25	32	A 24 Q B	3850	1.955	6
200	32	32	A 24 P B	3850	2.503	4

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL


### Type 5



For high-performance smoothing out and snagging of details and constructions made of different kinds of steels.




**32m/s**

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
100	50	20	50	30	A 24 Q B	6150	0.818	16
125	50	32	65	30	A 24 Q B	4900	1.228	8
130	63	32	54	45	A 20 P B	4700	1.646	4

For high-performance cleaning up of details and constructions made of different kinds of steels.

**32m/s**

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
100	50	20	50	30	A 40 O B	6150	0.818	16
125	50	32	65	30	A 40 O B	4900	1.228	8
130	63	32	54	45	A 40 O B	4700	1.646	4

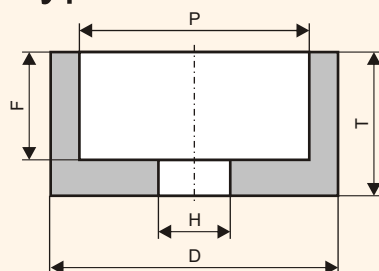
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.





## STEEL

### Type 6



For high-performance grinding and smoothing the details and constructions made of different kinds of steels.



**32m/s**

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
80	40	20	60	32	A 60 O B	7650	0.257	8
80	40	20	68	32	A 90 J B	7650	0.196	8
100	50	20	80	40	A 40 O B	6150	0.436	16
125	63	32	100	50	A 40 P B	4900	0.924	8
150	50	32	130	38	A 90 P B	4100	0.923	8
150	63	65	100	38	A 40 L B	4100	1.693	4
150	80	32	125	65	A 40 Q B	4100	1.510	4
180	100	25.4	120	75	WA 40 K B	3400	3.180	1
200	63	32	165	50	A 40 P B	3100	2.081	2
200	63	51	165	27	A 40 K B	3100	2.208	2
200	80	32	165	50	A 40 P B	3100	2.373	2
200	80	76	170	65	A 90 K B	3100	2.423	2
250	100	76	125	75	A 60 P B	2450	9.330	2
250	100	150	200	75	A 40 M B	2450	5.274	2

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

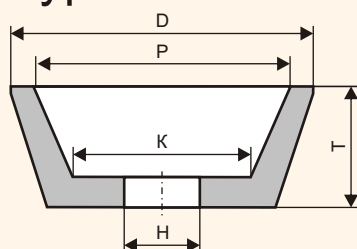
Novelty!

Novelty!

Novelty!

## STEEL

### Type 11



For high-performance grinding and smoothing the details and constructions made of different kinds of steels.



### 32m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
80	32	20	65	45	A 40 N B	7650	0.157	12
100	40	20	84	60	A 36 O B	6150	0.304	16
125	50	22.23; 32	88	56	A 24 Q B	4900	0.868	12
125	50	32	100	70	A 36 P B	4900	0.634	12
150	50	32	130	97	A 40 O B	4100	0.797	12

### 40m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
125	50	M14	75	56	A 24 Q B	6150	1.019	12

### 45m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
110	55	22.23	70	48	A 20 Q B	7810	0.798	12

### 50m/s

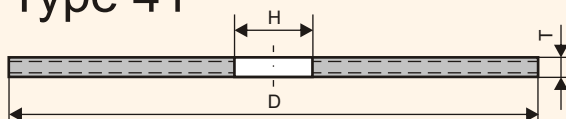
D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
110	55	22.23	70	48	A 24 Q B	8680	0.798	12
125	50	M14	75	56	A 24 Q B	7650	1.070	12
125	50	22.23; 32	80	56	A 24 Q B	7650	0.856	12
125	50	32	100	70	A 24 Q B	7650	0.634	12
150	50	32	130	97	A 24 Q B	6400	0,817	12

Novelty!  
Novelty!  
Novelty!  
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

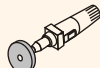
# INOX

## Type 41



Special structure of the wheels INOX, which don't contain iron, sulphur and chlorine allows to avoid "cauterizations" of cut up and protected material and its soiling during the process of working.

For high-performance cutting the details and constructions of noble inoxes.



**80m/s**

**Novelty!**

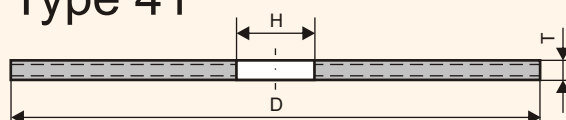
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
50	1.0	6	WA 54 S BF	30600	0.004	200
76	1.0	9.55	WA 54 S BF	20110	0.009	200
80	1.6	10	WA 40 S BF	19100	0.016	200
100	3.0	22.23	A 24 S BF	15300	0.051	200
105	1.0	16	WA 54 S BF	14560	0.017	400
105	1.2	16	WA 54 S BF	14560	0.021	400
115	1.0	16; 22.23	WA 54 S BF	13300	0.021	400
115	1.2	16; 22.23	WA 54 S BF	13300	0.025	400
115	1.4	16; 22.23	WA 40 S BF	13300	0.030	400
115	1.6	16; 22.23	WA 40 S BF	13300	0.033	400
115	1.8	16; 22.23	WA 40 S BF	13300	0.039	200
115	2.0	22.23	A 36 S BF	13300	0.042	200
115	2.3	22.23	A 30 S BF	13300	0.049	200
115	2.5	22.23	A 30 S BF	13300	0.054	200
115	3.0	22.23	A 24 S BF	13300	0.066	200
125	1.0	16; 22.23; 32	WA 54 S BF	12250	0.025	400
125	1.2	16; 22.23; 32	WA 54 S BF	12250	0.029	400
125	1.4	16; 22.23; 32	WA 40 S BF	12250	0.036	400
125	1.6	16; 22.23; 32	WA 40 S BF	12250	0.039	400
125	1.8	16; 22.23; 32	WA 40 S BF	12250	0.046	200
125	2.0	22.23; 32	A 36 S BF	12250	0.050	200
125	2.3	22.23; 32	A 30 S BF	12250	0.059	200
125	2.5	22.23; 32	A 30 S BF	12250	0.064	200
125	3.0	22.23; 32	A 24 S BF	12250	0.078	200
125	4.0	22.23; 32	A 24 S BF	12250	0.104	160
150	1.0	22.23; 32	WA 54 S BF	10200	0.036	200
150	1.2	22.23; 32	WA 54 S BF	10200	0.043	200
150	1.4	22.23; 32	WA 40 S BF	10200	0.052	200

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



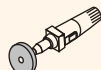
# INOX

## Type 41



Special structure of the wheels INOX, which don't contain iron, sulphur and chlorine allows to avoid "cauterizations" of cut up and protected material and its soiling during the process of working.

For high-performance cutting the details and constructions of noble inoxes.



**80m/s**

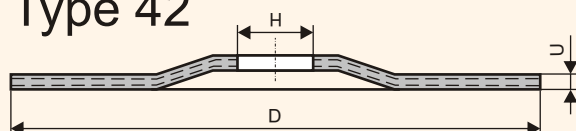
**Novelty!**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
150	1.6	22.23; 32	WA 40 S BF	10200	0.057	200
150	1.8	22.23; 32	WA 40 S BF	10200	0.067	200
150	2.0	22.23; 32	A 36 S BF	10200	0.072	200
150	2.3	22.23; 32	A 30 S BF	10200	0.085	100
150	2.5	22.23; 32	A 30 S BF	10200	0.093	100
150	3.0	22.23; 32	A 24 S BF	10200	0.144	100
150	4.0	22.23; 32	A 24 S BF	10200	0.152	60
180	1.4	22.23; 32	WA 40 S BF	8500	0.075	200
180	1.6	22.23; 32	WA 40 S BF	8500	0.083	150
180	1.8	22.23; 32	WA 40 S BF	8500	0.097	150
180	2.0	22.23; 32	A 36 S BF	8500	0.105	150
180	2.3	22.23; 32	A 30 S BF	8500	0.124	100
180	2.5	22.23; 32	A 30 S BF	8500	0.134	100
180	3.0	22.23; 32	A 24 S BF	8500	0.165	50
180	4.0	22.23; 32	A 24 S BF	8500	0.220	60
200	1.6	22.23; 32	WA 40 S BF	7650	0.103	100
200	1.8	22.23; 32	WA 40 S BF	7650	0.120	100
200	2.0	22.23; 32	A 36 S BF	7650	0.129	50
200	2.3	22.23; 32	A 30 S BF	7650	0.153	50
200	2.5	22.23; 32	A 30 S BF	7650	0.166	50
200	3.0	22.23; 32	A 24 S BF	7650	0.305	50
230	1.6	22.23; 32	WA 40 S BF	6650	0.136	100
230	1.8	22.23; 32	WA 40 S BF	6650	0.159	100
230	2.0	22.23; 32	A 36 S BF	6650	0.174	50
230	2.3	22.23; 32	A 30 S BF	6650	0.203	50
230	2.5	22.23; 32	A 30 S BF	6650	0.221	50
230	3.0	22.23; 32	A 24 S BF	6650	0.271	50
230	4.0	22.23; 32	A 24 S BF	6650	0.362	40

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

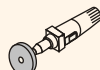
# INOX

## Type 42



Special structure of the wheels INOX, which don't contain iron, sulphur and chlorine allows to avoid "cauterizations" of cut up and protected material and its soiling during the process of working.

For high-performance cutting the details and constructions of noble inoxes.



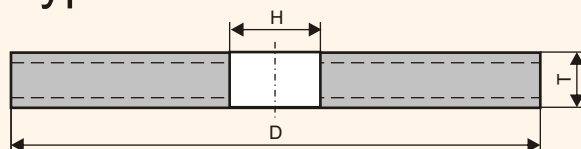
### 80m/s

D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	2.0	22.23	A 36 S BF	13300	0.042	200
115	2.3	22.23	A 30 S BF	13300	0.049	200
115	2.5	22.23	A 30 S BF	13300	0.054	200
115	3.0	22.23	A 24 S BF	13300	0.066	200
115	4.0	22.23	A 24 S BF	13300	0.086	120
125	2.0	22.23	A 36 S BF	12250	0.050	200
125	2.3	22.23	A 30 S BF	12250	0.059	200
125	2.5	22.23	A 30 S BF	12250	0.064	200
125	3.0	22.23	A 24 S BF	12250	0.078	200
125	4.0	22.23	A 24 S BF	12250	0.104	120
150	2.0	22.23	A 36 S BF	10200	0.072	200
150	2.3	22.23	A 30 S BF	10200	0.085	100
150	2.5	22.23	A 30 S BF	10200	0.093	100
150	3.0	22.23	A 24 S BF	10200	0.114	100
150	4.0	22.23	A 24 S BF	10200	0.152	60
180	2.3	22.23	A 30 S BF	8500	0.124	100
180	2.5	22.23	A 30 S BF	8500	0.134	100
180	3.0	22.23	A 24 S BF	8500	0.165	50
180	4.0	22.23	A 24 S BF	8500	0.220	60
200	2.3	22.23	A 30 S BF	7650	0.153	50
200	2.5	22.23	A 30 S BF	7650	0.166	50
200	3.0	22.23	A 24 S BF	7650	0.205	50
200	4.0	22.23	A 24 S BF	7650	0.273	40
230	2.3	22.23	A 30 S BF	6650	0.203	50
230	2.5	22.23	A 30 S BF	6650	0.221	50
230	3.0	22.23	A 24 S BF	6650	0.271	50
230	4.0	22.23	A 24 S BF	6650	0.362	40

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# INOX

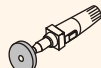
## Type 1



Special structure of the wheels INOX, which don't contain iron, sulphur and chlorine allows to avoid "cauterizations" of cut up and protected material and its soiling during the process of working.



For high-performance smoothing the details and constructions made of precious stainless steels.



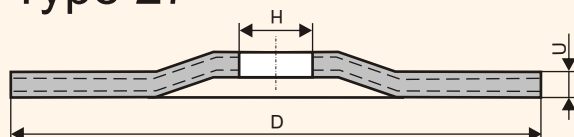
**80m/s**

D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	5	22.23	A 24 Q BF	13300	0.115	120
115	6	22.23	A 24 Q BF	13300	0.138	80
115	7	22.23	A 24 Q BF	13300	0.157	80
115	8	22.23	A 24 Q BF	13300	0.179	72
125	5	22.23	A 24 Q BF	12250	0.136	120
125	6	22.23	A 24 Q BF	12250	0.164	80
125	7	22.23	A 24 Q BF	12250	0.189	80
125	8	22.23	A 24 Q BF	12250	0.215	64
125	10	22.23	A 24 Q BF	12250	0.268	64
150	5	22.23; 32	A 24 Q BF	10200	0.198	60
150	6	22.23; 32	A 24 Q BF	10200	0.238	40
150	7	22.23; 32	A 24 Q BF	10200	0.277	40
150	8	22.23; 32	A 24 Q BF	10200	0.324	40
150	10	22.23; 32	A 24 Q BF	10200	0.397	32
180	5	22.23; 32	A 24 Q BF	8500	0.288	60
180	6	22.23; 32	A 24 Q BF	8500	0.345	40
180	7	22.23; 32	A 24 Q BF	8500	0.414	30
180	8	22.23; 32	A 24 Q BF	8500	0.460	30
180	10	22.23; 32	A 24 Q BF	8500	0.575	26
200	5	22.23; 32	A 24 Q BF	7650	0.356	20
200	6	22.23; 32	A 24 Q BF	7650	0.427	20
200	7	22.23; 32	A 24 Q BF	7650	0.492	20
200	8	22.23; 32	A 24 Q BF	7650	0.569	20
200	10	22.23; 32	A 24 Q BF	7650	0.711	16
230	5	22.23; 32	A 24 Q BF	6650	0.472	30
230	6	22.23; 32	A 24 Q BF	6650	0.590	20
230	7	22.23; 32	A 24 Q BF	6650	0.659	20
230	8	22.23; 32	A 24 Q BF	6650	0.751	18
230	10	22.23; 32	A 24 Q BF	6650	0.945	14

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

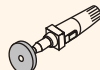
# INOX

## Type 27



Special structure of the wheels INOX, which don't contain iron, sulphur and chlorine allows to avoid "cauterizations" of cut up and protected material and its soiling during the process of working.

For high-performance smoothing the details and constructions made of precious stainless steels.



**80m/s**

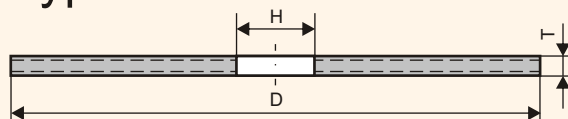
D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	5	22.23	A 24 Q BF	13300	0.115	120
115	6	22.23	A 24 Q BF	13300	0.138	80
115	7	22.23	A 24 Q BF	13300	0.157	80
115	8	22.23	A 24 Q BF	13300	0.179	80
125	5	22.23	A 24 Q BF	12250	0.136	120
125	6	22.23	A 24 Q BF	12250	0.164	80
125	7	22.23	A 24 Q BF	12250	0.189	80
125	8	22.23	A 24 Q BF	12250	0.215	64
125	10	22.23	A 24 Q BF	12250	0.268	64
150	5	22.23	A 24 Q BF	10200	0.198	60
150	6	22.23	A 24 Q BF	10200	0.238	40
150	7	22.23	A 24 Q BF	10200	0.277	40
150	8	22.23	A 24 Q BF	10200	0.324	40
150	10	22.23	A 24 Q BF	10200	0.397	32
180	5	22.23	A 24 Q BF	8500	0.288	60
180	6	22.23	A 24 Q BF	8500	0.345	40
180	7	22.23	A 24 Q BF	8500	0.414	30
180	8	22.23	A 24 Q BF	8500	0.460	30
180	10	22.23	A 24 Q BF	8500	0.575	26
200	5	22.23	A 24 Q BF	7650	0.356	30
200	6	22.23	A 24 Q BF	7650	0.427	20
200	7	22.23	A 24 Q BF	7650	0.492	14
200	8	22.23	A 24 Q BF	7650	0.569	14
200	10	22.23	A 24 Q BF	7650	0.711	10
230	5	22.23	A 24 Q BF	6650	0.472	20
230	6	22.23	A 24 Q BF	6650	0.590	20
230	7	22.23	A 24 Q BF	6650	0.656	16
230	8	22.23	A 24 Q BF	6650	0.751	16
230	10	22.23	A 24 Q BF	6650	0.945	14

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## NON-FERROUS METALS

### Type 41



For high-performance cutting of tenacious stuffs,  
non-ferrous metals and aluminium.



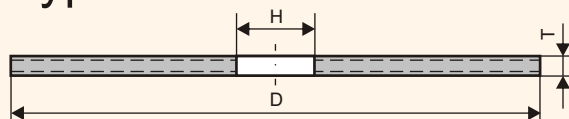
**80m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	1.0	22.23	A 54 R BF	13300	0.022	400
115	1.2	22.23	A 54 R BF	13300	0.026	400
115	1.4	22.23	A 54 R BF	13300	0.030	400
115	1.6	22.23	A 40 R BF	13300	0.035	400
115	1.8	22.23	A 40 R BF	13300	0.040	200
115	2.0	22.23	A 40 R BF	13300	0.044	200
115	2.3	22.23	A 36 R BF	13300	0.051	200
115	2.5	22.23	A 36 R BF	13300	0.055	200
115	3.0	22.23	A 36 R BF	13300	0.067	200
125	1.0	22.23	A 54 R BF	12250	0.026	400
125	1.2	22.23	A 54 R BF	12250	0.031	400
125	1.4	22.23	A 54 R BF	12250	0.036	400
125	1.6	22.23; 32	A 40 R BF	12250	0.042	400
125	1.8	22.23; 32	A 40 R BF	12250	0.049	200
125	2.0	22.23; 32	A 40 R BF	12250	0.052	200
125	2.3	22.23; 32	A 36 R BF	12250	0.060	200
125	2.5	22.23; 32	A 36 R BF	12250	0.064	200
125	3.0	22.23; 32	A 36 R BF	12250	0.081	200
125	4.0	22.23; 32	A 36 R BF	12250	0.116	100
150	1.2	22.23; 32	A 54 R BF	10200	0.045	200
150	1.4	22.23; 32	A 54 R BF	10200	0.052	200
150	1.6	22.23; 32	A 40 R BF	10200	0.063	200
150	1.8	22.23; 32	A 40 R BF	10200	0.068	200
150	2.0	22.23; 32	A 40 R BF	10200	0.076	200
150	2.3	22.23; 32	A 36 R BF	10200	0.088	100
150	2.5	22.23; 32	A 36 R BF	10200	0.096	100
150	3.0	22.23; 32	A 36 R BF	10200	0.115	100
150	4.0	22.23; 32	A 36 R BF	10200	0.154	60
180	1.4	22.23; 32	A 54 R BF	8500	0.076	200
180	1.6	22.23; 32	A 40 R BF	8500	0.088	150
180	1.8	22.23; 32	A 40 R BF	8500	0.099	150

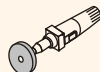
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## NON-FERROUS METALS


### Type 41



For high-performance cutting of tenacious stuffs, non-ferrous metals and aluminium.



**80m/s**

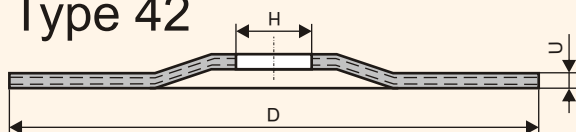
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
180	2.0	22.23; 32	A 40 R BF	8500	0.110	150
180	2.3	22.23; 32	A 36 R BF	8500	0.128	100
180	2.5	22.23; 32	A 36 R BF	8500	0.139	100
180	3.0	22.23; 32	A 36 R BF	8500	0.167	50
180	4.0	22.23; 32	A 36 R BF	8500	0.230	60
200	1.6	22.23; 32	A 40 R BF	7650	0.109	100
200	1.8	22.23; 32	A 40 R BF	7650	0.127	50
200	2.0	22.23; 32	A 40 R BF	7650	0.137	50
200	2.3	22.23; 32	A 36 R BF	7650	0.158	50
200	2.5	22.23; 32	A 36 R BF	7650	0.172	50
200	3.0	22.23; 32	A 36 R BF	7650	0.207	50
200	4.0	22.23; 32	A 36 R BF	7650	0.285	40
230	1.8	22.23; 32	A 40 R BF	6650	0.163	100
230	2.0	22.23; 32	A 40 R BF	6650	0.181	50
230	2.3	22.23; 32	A 36 R BF	6650	0.209	50
230	2.5	22.23; 32	A 36 R BF	6650	0.228	50
230	3.0	22.23; 32	A 36 R BF	6650	0.274	50
230	4.0	22.23; 32	A 36 R BF	6650	0.366	40

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

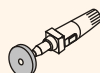


## NON-FERROUS METALS


Type 42



For high-performance cutting of tenacious stuffs, non-ferrous metals and aluminium.



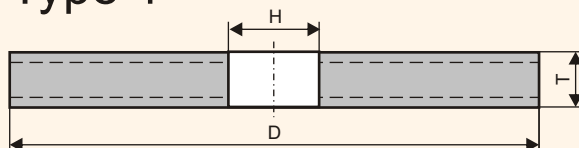
**80m/s**

D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	1.6	22.23	A 40 R BF	13300	0.035	400
115	1.8	22.23	A 40 R BF	13300	0.040	200
115	2.0	22.23	A 40 R BF	13300	0.044	200
115	2.3	22.23	A 36 R BF	13300	0.051	200
115	2.5	22.23	A 36 R BF	13300	0.055	200
115	3.0	22.23	A 36 R BF	13300	0.067	200
115	4.0	22.23	A 36 R BF	13300	0.089	120
125	1.6	22.23	A 40 R BF	12250	0.042	400
125	1.8	22.23	A 40 R BF	12250	0.049	200
125	2.0	22.23	A 40 R BF	12250	0.052	200
125	2.3	22.23	A 36 R BF	12250	0.060	200
125	2.5	22.23	A 36 R BF	12250	0.064	200
125	3.0	22.23	A 36 R BF	12250	0.081	200
125	4.0	22.23	A 36 R BF	12250	0.116	120
150	2.0	22.23	A 40 R BF	10200	0.076	200
150	2.3	22.23	A 36 R BF	10200	0.088	100
150	2.5	22.23	A 36 R BF	10200	0.096	100
150	3.0	22.23	A 36 R BF	10200	0.115	100
150	4.0	22.23	A 36 R BF	10200	0.154	60
180	2.3	22.23	A 36 R BF	8500	0.128	100
180	2.5	22.23	A 36 R BF	8500	0.139	100
180	3.0	22.23	A 36 R BF	8500	0.167	50
180	4.0	22.23	A 36 R BF	8500	0.230	60
200	2.3	22.23	A 36 R BF	7650	0.158	50
200	2.5	22.23	A 36 R BF	7650	0.172	50
200	3.0	22.23	A 36 R BF	7650	0.207	50
200	4.0	22.23	A 36 R BF	7650	0.285	40
230	2.3	22.23	A 36 R BF	6650	0.209	50
230	2.5	22.23	A 36 R BF	6650	0.228	50
230	3.0	22.23	A 36 R BF	6650	0.274	50
230	4.0	22.23	A 36 R BF	6650	0.366	40

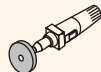
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## NON-FERROUS METALS

Type 1



For high-performance smoothing the details and constructions made of aluminium, non-ferrous metals and ductile materials.



**80m/s**

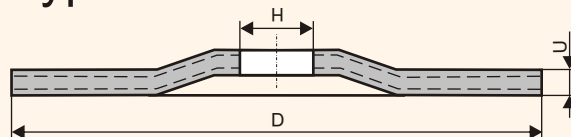
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	5	22.23	A 30 R BF	13300	0.118	120
115	6	22.23	A 30 R BF	13300	0.143	80
115	7	22.23	A 30 R BF	13300	0.165	80
115	8	22.23	A 30 R BF	13300	0.189	72
125	5	22.23	A 30 R BF	12250	0.140	120
125	6	22.23	A 30 R BF	12250	0.169	80
125	7	22.23	A 30 R BF	12250	0.196	80
125	8	22.23	A 30 R BF	12250	0.224	64
125	10	22.23	A 30 R BF	12250	0.280	64
150	5	22.23; 32	A 30 R BF	10200	0.203	60
150	6	22.23; 32	A 30 R BF	10200	0.246	40
150	7	22.23; 32	A 30 R BF	10200	0.288	40
150	8	22.23; 32	A 30 R BF	10200	0.329	40
150	10	22.23; 32	A 30 R BF	10200	0.411	32
180	5	22.23; 32	A 30 R BF	8500	0.295	60
180	6	22.23; 32	A 30 R BF	8500	0.357	40
180	7	22.23; 32	A 30 R BF	8500	0.417	30
180	8	22.23; 32	A 30 R BF	8500	0.476	30
180	10	22.23; 32	A 30 R BF	8500	0.598	26
200	5	22.23; 32	A 30 R BF	7650	0.365	20
200	6	22.23; 32	A 30 R BF	7650	0.438	20
200	7	22.23; 32	A 30 R BF	7650	0.512	20
200	8	22.23; 32	A 30 R BF	7650	0.586	20
200	10	22.23; 32	A 30 R BF	7650	0.732	16
230	5	22.23; 32	A 30 R BF	6650	0.486	30
230	6	22.23; 32	A 30 R BF	6650	0.589	20
230	7	22.23; 32	A 30 R BF	6650	0.688	20
230	8	22.23; 32	A 30 R BF	6650	0.787	18
230	10	22.23; 32	A 30 R BF	6650	0.983	14

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

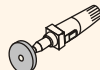


## NON-FERROUS METALS


### Type 27



For high-performance smoothing the details and constructions made of aluminium, non-ferrous metals and ductile materials.



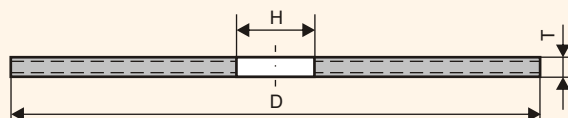
**80m/s**

D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
115	5	22.23	A 30 R BF	13300	0.118	120
115	6	22.23	A 30 R BF	13300	0.143	80
115	7	22.23	A 30 R BF	13300	0.165	80
115	8	22.23	A 30 R BF	13300	0.189	80
125	5	22.23	A 30 R BF	12250	0.140	120
125	6	22.23	A 30 R BF	12250	0.169	80
125	7	22.23	A 30 R BF	12250	0.196	80
125	8	22.23	A 30 R BF	12250	0.224	64
125	10	22.23	A 30 R BF	12250	0.280	64
150	5	22.23	A 30 R BF	10200	0.203	60
150	6	22.23	A 30 R BF	10200	0.246	40
150	7	22.23	A 30 R BF	10200	0.288	40
150	8	22.23	A 30 R BF	10200	0.329	40
150	10	22.23	A 30 R BF	10200	0.411	32
180	5	22.23	A 30 R BF	8500	0.295	60
180	6	22.23	A 30 R BF	8500	0.357	40
180	7	22.23	A 30 R BF	8500	0.417	30
180	8	22.23	A 30 R BF	8500	0.476	30
180	10	22.23	A 30 R BF	8500	0.598	26
200	5	22.23	A 30 R BF	7650	0.365	30
200	6	22.23	A 30 R BF	7650	0.438	20
200	7	22.23	A 30 R BF	7650	0.512	14
200	8	22.23	A 30 R BF	7650	0.586	14
200	10	22.23	A 30 R BF	7650	0.732	10
230	5	22.23	A 30 R BF	6650	0.486	20
230	6	22.23	A 30 R BF	6650	0.589	20
230	7	22.23	A 30 R BF	6650	0.688	16
230	8	22.23	A 30 R BF	6650	0.787	16
230	10	22.23	A 30 R BF	6650	0.983	14

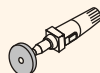
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE AND CONCRETE


### Type 41



For high-performance cutting of natural and artificial stone, fire-brick and concrete articles.



**80m/s**

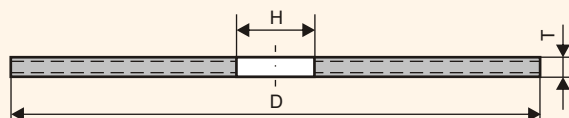
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
100	1.6	16; 22.23	C 40 R BF	15300	0.027	400
115	1.0	22.23	C 54 R BF	13300	0.019	400
115	1.2	22.23	C 54 R BF	13300	0.023	400
115	1.4	22.23	C 40 R BF	13300	0.029	400
115	1.6	22.23	C 40 R BF	13300	0.032	400
115	1.8	22.23	C 36 R BF	13300	0.036	200
115	2.0	22.23	C 36 R BF	13300	0.040	200
115	2.3	22.23	C 30 R BF	13300	0.046	200
115	2.5	22.23	C 30 R BF	13300	0.050	200
115	3.0	22.23	C 24 R BF	13300	0.061	200
125	1.2	22.23	C 54 R BF	12250	0.028	400
125	1.4	22.23	C 40 R BF	12250	0.034	400
125	1.6	22.23	C 40 R BF	12250	0.039	400
125	1.8	22.23	C 36 R BF	12250	0.043	200
125	2.0	22.23; 32	C 36 R BF	12250	0.048	200
125	2.3	22.23; 32	C 30 R BF	12250	0.055	200
125	2.5	22.23; 32	C 30 R BF	12250	0.060	200
125	3.0	22.23; 32	C 24 R BF	12250	0.072	200
125	4.0	22.23; 32	C 24 R BF	12250	0.096	160
150	1.4	22.23	C 40 R BF	10200	0.049	200
150	1.6	22.23	C 40 R BF	10200	0.056	200
150	1.8	22.23	C 36 R BF	10200	0.063	200
150	2.0	22.23; 32	C 36 R BF	10200	0.070	200
150	2.3	22.23; 32	C 30 R BF	10200	0.080	100
150	2.5	22.23; 32	C 30 R BF	10200	0.087	100
150	3.0	22.23; 32	C 24 R BF	10200	0.105	100
150	4.0	22.23; 32	C 24 R BF	10200	0.136	60

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE AND CONCRETE

### Type 41



For high-performance cutting of natural and artificial stone, fire-brick and concrete articles.



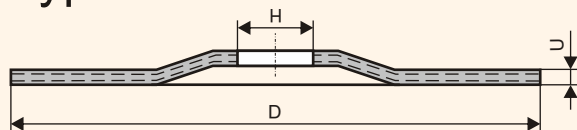
**80m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
180	1.4	22.23	C 40 R BF	8500	0.071	200
180	1.6	16; 22.23	C 40 R BF	8500	0.082	150
180	1.8	22.23	C 36 R BF	8500	0.091	150
180	2.0	22.23; 32	C 36 R BF	8500	0.101	150
180	2.3	22.23; 32	C 30 R BF	8500	0.116	100
180	2.5	22.23; 32	C 30 R BF	8500	0.126	100
180	3.0	16; 22.23; 32	C 24 R BF	8500	0.152	50
180	4.0	22.23; 32	C 24 R BF	8500	0,203	60
200	1.6	22.23; 32	C 40 R BF	7650	0.100	100
200	1.8	22.23; 32	C 36 R BF	7650	0.112	100
200	2.0	22.23; 32	C 36 R BF	7650	0.125	50
200	2.3	22.23; 32	C 30 R BF	7650	0.144	50
200	2.5	22.23; 32	C 30 R BF	7650	0156	50
200	3.0	22.23; 32	C 24 R BF	7650	0,188	50
200	4.0	22.23; 32	C 24 R BF	7650	0.257	40
230	1.6	22.23; 32	C 40 R BF	6650	0.133	100
230	1.8	22.23; 32	C 36 R BF	6650	0.150	100
230	2.0	22.23; 32	C 36 R BF	6650	0.166	50
230	2.3	22.23; 32	C 30 R BF	6650	0.191	50
230	2.5	22.23; 32	C 30 R BF	6650	0.208	50
230	3.0	22.23; 32	C 24 R BF	6650	0.250	50
230	4.0	22.23; 32	C 24 R BF	6650	0.333	40

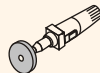
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE AND CONCRETE


### Type 42



For high-performance cutting of natural and artificial stone, fire-brick and concrete articles.



**80m/s**

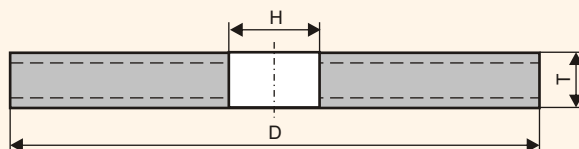
D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
100	3.0	16	C 24 R BF	15280	0.045	200
115	1.6	22.23	C 40 R BF	13300	0.032	400
115	1.8	22.23	C 36 R BF	13300	0.036	200
115	2.0	22.23	C 36 R BF	13300	0.040	200
115	2.3	22.23	C 30 R BF	13300	0.046	200
115	2.5	22.23	C 30 R BF	13300	0.050	200
115	3.0	22.23	C 24 R BF	13300	0.061	200
115	4.0	22.23	C 24 R BF	13300	0.078	120
125	1.6	22.23	C 40 R BF	12250	0.039	400
125	1.8	22.23	C 36 R BF	12250	0.043	200
125	2.0	22.23	C 36 R BF	12250	0.048	200
125	2.3	22.23	C 30 R BF	12250	0.055	200
125	2.5	22.23	C 30 R BF	12250	0.060	200
125	3.0	22.23	C 24 R BF	12250	0.072	200
125	4.0	22.23	C 24 R BF	12250	0.096	120
150	2.0	22.23	C 36 R BF	10200	0.070	200
150	2.3	22.23	C 30 R BF	10200	0.080	100
150	2.5	22.23	C 30 R BF	10200	0.087	100
150	3.0	22.23	C 24 R BF	10200	0.105	100
150	4.0	22.23	C 24 R BF	10200	0.136	60
180	2.3	22.23	C 30 R BF	8500	0.116	100
180	2.5	22.23	C 30 R BF	8500	0.126	100
180	3.0	22.23	C 24 R BF	8500	0.152	50
180	4.0	22.23	C 24 R BF	8500	0.203	60
200	2.3	22.23	C 30 R BF	7650	0.144	50
200	2.5	22.23	C 30 R BF	7650	0.156	50
200	3.0	22.23	C 24 R BF	7650	0.188	50
200	4.0	22.23	C 24 R BF	7650	0.257	40
230	2.3	22.23	C 30 R BF	6650	0.191	50
230	2.5	22.23	C 30 R BF	6650	0.208	50
230	3.0	22.23	C 24 R BF	6650	0.250	50
230	4.0	22.23	C 24 R BF	6650	0.333	40

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

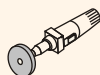


## STONE


### Type 1



For high-performance smoothing and snagging of natural and artificial stone, fire-brick.



**63m/s**

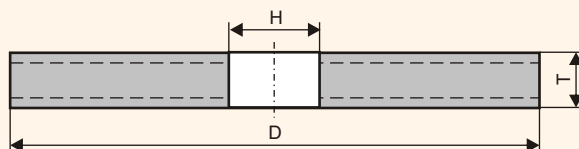
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
60	20	20	C 24 R BF	20060	0.031	50
63	20	20	C 24 R BF	19100	0.134	50
80	20	20	C 24 R BF	15100	0.225	20
100	20	20	C 24 R BF	12100	0.360	32
125	20	32	C 24 R BF	9650	0.548	24
125	25	32	C 24 R BF	9650	0.732	16
150	16	32	C 24 R BF	8050	0.698	20
150	20	32	C 24 R BF	8050	0.873	16
150	25	32	C 24 R BF	8050	1.091	12

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STONE


### Type 1



For high-performance smoothing and snagging of natural and artificial stone, fire-brick.



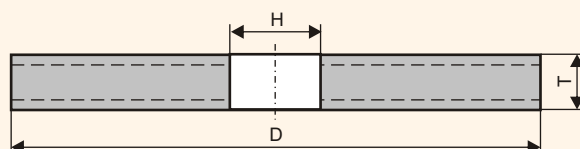
**80m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
100	6.0	16	C 24 R BF	15300	0.107	96
115	5.0	22.23	C 24 R BF	13300	0.104	120
115	6.0	22.23	C 24 R BF	13300	0.124	80
115	7.0	22.23	C 24 R BF	13300	0.145	80
115	8.0	22.23	C 24 R BF	13300	0.164	72
125	5.0	22.23	C 24 R BF	12250	0.123	120
125	6.0	22.23	C 24 R BF	12250	0.148	80
125	7.0	22.23	C 24 R BF	12250	0.173	80
125	8.0	22.23	C 24 R BF	12250	0.197	64
125	10.0	22.23	C 24 R BF	12250	0.246	64
150	5.0	22.23; 32	C 24 R BF	10200	0.179	60
150	6.0	22.23; 32	C 24 R BF	10200	0.215	40
150	7.0	22.23; 32	C 24 R BF	10200	0.251	40
150	8.0	22.23; 32	C 24 R BF	10200	0.286	40
150	10.0	22.23; 32	C 24 R BF	10200	0.349	32
180	5.0	22.23; 32	C 24 R BF	8500	0.259	60
180	6.0	22.23; 32	C 24 R BF	8500	0.311	40
180	7.0	22.23; 32	C 24 R BF	8500	0.363	30
180	8.0	22.23; 32	C 24 R BF	8500	0.415	30
180	10.0	22.23; 32	C 24 R BF	8500	0.519	26
200	5.0	22.23; 32	C 24 R BF	7650	0.321	20
200	6.0	22.23; 32	C 24 R BF	7650	0.386	20
200	7.0	22.23; 32	C 24 R BF	7650	0.450	20
200	8.0	22.23; 32	C 24 R BF	7650	0.518	20
200	10.0	22.23; 32	C 24 R BF	7650	0.643	16

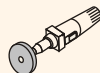
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE


### Type 1



For high-performance smoothing and snagging of natural and artificial stone, fire-brick.



**80m/s**

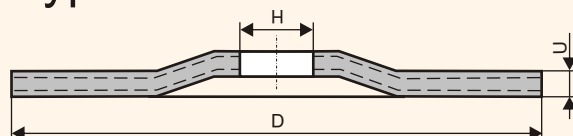
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
230	5.0	22.23; 32	C 24 R BF	6650	0.426	30
230	6.0	22.23; 32	C 24 R BF	6650	0.511	20
230	7.0	22.23; 32	C 24 R BF	6650	0.596	20
230	8.0	22.23; 32	C 24 R BF	6650	0.682	18
230	10.0	22.23; 32	C 24 R BF	6650	0.852	14

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STONE


### Type 27



For high-performance smoothing of natural and artificial stone, fire-brick.



**80m/s**

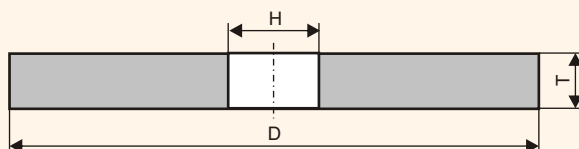
D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
100	4.8	16	C 30 R BF	15300	0.082	120
100	6.0	16	C 24 R BF	15300	0.107	80
115	5.0	22.23	C 24 R BF	13300	0.104	120
115	6.0	22.23	C 24 R BF	13300	0.124	80
115	7.0	22.23	C 24 R BF	13300	0.145	80
115	8.0	22.23	C 24 R BF	13300	0.164	72
125	5.0	22.23	C 24 R BF	12250	0.123	120
125	6.0	22.23	C 24 R BF	12250	0.148	80
125	7.0	22.23	C 24 R BF	12250	0.173	80
125	8.0	22.23	C 24 R BF	12250	0.197	64
125	10.0	22.23	C 24 R BF	12250	0.246	64
150	5.0	22.23	C 24 R BF	10200	0.179	60
150	6.0	22.23	C 24 R BF	10200	0.215	40
150	7.0	22.23	C 24 R BF	10200	0.251	40
150	8.0	22.23	C 24 R BF	10200	0.286	40
150	10.0	22.23	C 24 R BF	10200	0.349	32
180	5.0	22.23	C 24 R BF	8500	0.259	60
180	6.0	22.23	C 24 R BF	8500	0.311	40
180	7.0	22.23	C 24 R BF	8500	0.363	30
180	8.0	22.23	C 24 R BF	8500	0.415	30
180	10.0	22.23	C 24 R BF	8500	0.519	26
200	5.0	22.23	C 24 R BF	7650	0.324	30
200	6.0	22.23	C 24 R BF	7650	0.386	20
200	7.0	22.23	C 24 R BF	7650	0.450	14
200	8.0	22.23	C 24 R BF	7650	0.518	14
200	10.0	22.23	C 24 R BF	7650	0.643	10
230	5.0	22.23	C 24 R BF	6650	0.430	20
230	6.0	22.23	C 24 R BF	6650	0.511	20
230	7.0	22.23	C 24 R BF	6650	0.596	16
230	8.0	22.23	C 24 R BF	6650	0.682	16
230	10.0	22.23	C 24 R BF	6650	0.852	14

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STONE

### Type 1



For high-performance smoothing of natural and artificial stone, fire-brick and other mineral materials.



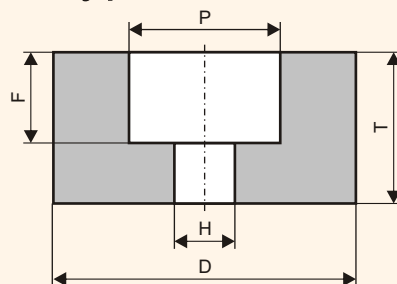
## 40m/s

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
50	40	20	C 30 O B	15300	0.180	32
63	20	20	C 24 Q B	12150	0.126	50
80	20	20	C 24 Q B	9550	0.223	20
80	100	20	C 24 Q B	9550	1.116	4
100	10	20	C 40 Q B	7650	0.170	64
100	20	20	C 24 P B	7650	0.357	32
125	16	32	C 24 P B	6150	0.426	32
125	20	32	C 24 P B	6150	0.543	24
125	25	32	C 24 Q B	6150	0.679	16
125	50	32	C 16 P B	6150	1.358	8
125	90	50	C 20 H B	6150	1.914	8
150	6	32	C 24 Q B	5100	0.212	40
150	8	32	C 24 Q B	5100	0.283	40
150	10	32	C 24 Q B	5100	0.354	32
150	16	32	C 24 O B	5100	0.586	20
150	20	32	C 20 Q B	5100	0.708	16
150	25	32	C 16 Q B	5100	0.998	12
150	32	32	C 24 Q B	5100	1.278	8
150	50	32	C 24 Q B	5100	2.014	8
150	100	32	C 24 Q B	5100	3.994	4
175	13	32	C 30 P B	4360	0.634	20
175	20	32	C 24 P B	4360	0.975	12
175	25	32	C 24 P B	4360	1.219	10
175	32	32	C 24 P B	4360	1.762	8
200	10	32	C 40 O B	3850	0.642	16
200	16	32	C 40 P B	3850	1.027	10
200	20	32	C 24 P B	3850	1.450	8
200	25	32	C 24 Q B	3850	1.673	6
200	32	32	C 16 Q B	3850	2.140	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE


### Type 5



For rough processing of all mineral materials and concrete coverings.




**32m/s**

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
50	50	16	25	20	C 24 Q B	12250	0.191	25
100	50	20	50	30	C 20 Q B	6150	0.800	16
120	60	20	55	45	C 20 Q B	5090	1.390	8
125	50	32	65	30	C 24 Q B	4900	1.174	8

For finishing processing of all mineral materials and concrete coverings.



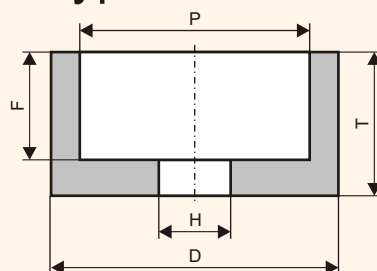
**32m/s**

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
50	50	16	25	20	C 36 L B	12250	0.191	25
100	50	20	50	30	C 40 O B	6150	0.770	16
120	60	20	55	45	C 60 L B	5090	1.114	8
125	50	32	65	30	C 40 O B	4900	1.174	8
130	63	32	65	30	C 40 O B	4700	1.270	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE


Type 6



For high-performance smoothing and grinding of stone, concrete and other mineral materials.



**32m/s**

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
100	50	20	80	40	C 40 O B	6150	0.772	16
125	63	32	100	50	C 40 O B	4900	0.862	8
150	50	32	125	40	C 30 P B	4100	0.800	8
150	63	65	100	38	C 40 N B	4100	1.402	4
200	63	32	165	50	C 16 P B	3100	2.070	2
200	80	32	170	65	C 40 L B	3100	2.370	2
200	80	76	170	65	C 40 J B	3100	2.150	2
250	100	150	200	75	C 40 O B	2450	4.916	2

Novelty!

Novelty!

Novelty!

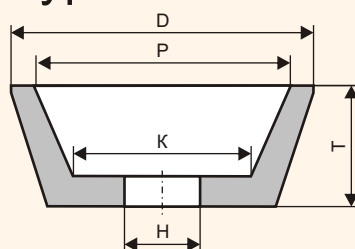
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STONE


### Type 11




For high-performance grinding and smoothing of stone, concrete and other mineral materials.




## 32m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
100	40	20	84	60	C 40 P B	6150	0.250	16
110	55	22.23	70	48	C 24 Q B	5550	0.739	12
125	50	22.23; 32	88	56	C 20 Q B	4900	0.798	12
125	50	32	100	70	C 16 P B	4900	0.586	12
150	50	32	130	97	C 24 P B	4100	0.757	12

## 40m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
110	55	22.23	70	48	C 20 P B	6950	0.718	12
125	50	M14	88	56	C 16 P B	6150	0.949	12
125	50	M16	100	70	C 20 N B	6150	0.829	12
150	50	32	130	97	C 90 L B	5100	0.638	12

## 50m/s

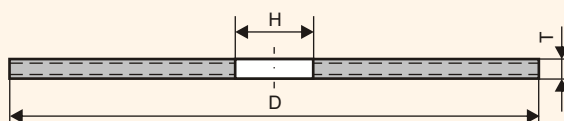
D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
110	55	22.23	70	48	C 20 P B	8680	0.739	12
125	50	22.23; 32	80	56	C 16 Q B	7650	0.798	12

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# CUT-OFF WHEELS FOR STATIONARY AND PORTABLE HAND-FED MACHINES WITH ELECTRIC OR PETROL MOTOR

## STEEL

### Type 41



For universal cutting of material with large cross-section made of different kinds of steels.



**80m/s**

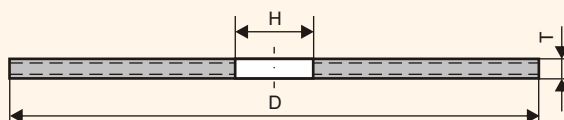
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	2.5	20; 22.23; 25.4; 32	A 30 S BF	5100	0.398	35
300	2.8	20; 22.23; 25.4; 32	A 24 S BF	5100	0.451	25
300	3.0	20; 22.23; 25.4; 32	A 30 S BF	5100	0.486	25
300	3.0	20; 22.23; 25.4; 32	A 24 S BF	5100	0.490	25
300	3.2	20; 22.23; 25.4; 32	A 24 S BF	5100	0.518	25
300	3.5	20; 22.23; 25.4; 32	A 24 S BF	5100	0.564	25
300	4.0	20; 22.23; 25.4; 32	A 24 S BF	5100	0.645	20
305	3.0	20; 22.23; 25.4; 32	A 24 S BF	5010	0.502	20
350	2.4	20; 22.23; 25.4; 32	A 30 S BF	4400	0.510	15
350	3.0	20; 22.23; 25.4; 32	A 24 S BF	4400	0.663	25
350	3.2	20; 22.23; 25.4; 32	A 24 S BF	4400	0.704	25
350	3.5	20; 22.23; 25.4; 32	A 30 S BF	4400	0.773	20
350	3.5	20; 22.23; 25.4; 32	A 24 S BF	4400	0.773	20
350	4.0	20; 22.23; 25.4; 32	A 24 S BF	4400	0.880	20
355	2.4	20; 22.23; 25.4; 32	A 30 S BF	4400	0.527	20
355	3.0	20; 22.23; 25.4; 32	A 24 S BF	4400	0.652	25
355	3.2	20; 22.23; 25.4; 32	A 24 S BF	4400	0.724	50
355	3.5	20; 22.23; 25.4; 32	A 24 S BF	4400	0.795	20
355	4.0	20; 22.23; 25.4; 32	A 24 S BF	4400	0.908	20
400	3.0	20; 22.23; 25.4; 32	A 24 S BF	3850	0.864	20
400	3.2	20; 22.23; 25.4; 32	A 24 S BF	3850	0.921	20
400	3.5	20; 22.23; 25.4; 32	A 30 S BF	3850	1.020	15
400	3.5	20; 22.23; 25.4; 32	A 24 S BF	3850	1.020	15
400	3.8	20; 22.23; 25.4; 32	A 30 S BF	3850	1.085	15
400	4.0	20; 22.23; 25.4; 32	A 30 S BF	3850	1.163	15
400	4.0	20; 22.23; 25.4; 32	A 24 S BF	3850	1.163	15
400	5,0	32	A 24 S BF	3850	1.430	10
500	4.0	32; 40	A 24 S BF	3100	1.746	10
500	4.5	32; 40	A 24 S BF	3100	2.025	10
500	5.0	32; 40	A 24 S BF	3100	2.250	10
500	5.5	32	A 24 S BF	3100	2.450	10

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STEEL


### Type 41



For universal cutting of material with large cross-section made of different kinds of steels.



## 100m/s

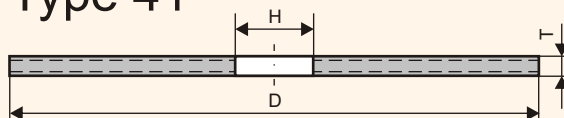
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	3.0	22.23; 25.4; 32	A 24 S BF	6400	0.450	25
300	3.5	22.23; 25.4; 32	A 24 S BF	6400	0.525	25
355	3.0	22.23; 25.4; 32	A 24 S BF	5500	0.673	25
355	3.5	22.23; 25.4; 32	A 24 S BF	5500	0.800	20
355	4.0	22.23; 25.4; 32	A 24 S BF	5500	0.908	20
400	4.0	25.4; 32	A 24 S BF	4800	1.100	15

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## INOX

### Type 41



Special structure of the wheels INOX, which don't contain iron, sulphur and chlorine allows to avoid "cauterizations" of material being cut and its soiling during the process of working.

For universal cutting of material with large cross-section made of noble inoxes.



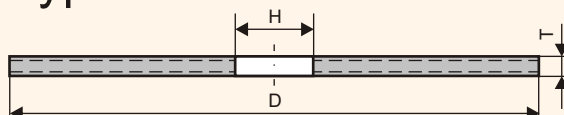
**80m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	2.5	20; 22.23; 25.4; 32	A 30 S BF	5100	0.378	35
300	3.0	20; 22.23; 25.4; 32	A 24 S BF	5100	0.463	25
355	3.0	20; 22.23; 25.4; 32	A 24 S BF	4400	0.652	25
400	4.0	20; 22.23; 25.4; 32	A 24 S BF	3850	1.102	15

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## NON-FERROUS METALS

### Type 41



For high-performance cutting of viscous materials with large cross-section made of, non-ferrous metals and aluminium.



**80m/s**

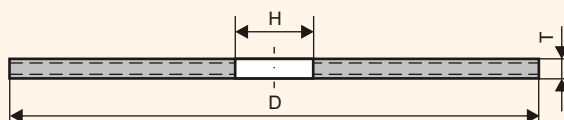
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	3,0	20; 22.23; 25.4; 32	A 36 R BF	5100	0.468	25
350	4,0	20; 22.23; 25.4; 32	A 36 R BF	4400	0.854	20
500	4,0	32	A 36 R BF	3100	1,750	10

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

**Novelty!**

## STONE


### Type 41



For cutting of natural and artificial stone, fire-brick with large cross-section.



**80m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	2.5	20; 22.23; 25.4; 32	C 30 R BF	5100	0.353	35
300	2.8	20; 22.23; 25.4; 32	C 24 R BF	5100	0.397	25
300	3.0	20; 22.23; 25.4; 32	C 24 R BF	5100	0.426	25
300	3.2	20; 22.23; 25.4; 32	C 24 R BF	5100	0.451	25
300	3.5	20; 22.23; 25.4; 32	C 24 R BF	5100	0.496	25
300	4.0	20; 22.23; 25.4; 32	C 24 R BF	5100	0.567	20
305	3.0	20; 22.23; 25.4; 32	C 24 R BF	5010	0.439	20
350	3.0	20; 22.23; 25.4; 32	C 24 R BF	4400	0.578	25
350	3.5	20; 22.23; 25.4; 32	C 24 R BF	4400	0.677	20
350	4.0	20; 22.23; 25.4; 32	C 24 R BF	4400	0.772	20
355	3.0	20; 22.23; 25.4; 32	C 24 R BF	4400	0.596	25
355	3.2	20; 22.23; 25.4; 32	C 24 R BF	4400	0.637	50
355	3.5	20; 22.23; 25.4; 32	C 24 R BF	4400	0.695	20
400	3.0	20; 22.23; 25.4; 32	C 24 R BF	3850	0.758	20
400	3.5	20; 22.23; 25.4; 32	C 24 R BF	3850	0.882	15
400	3.8	20; 22.23; 25.4; 32	C 24 R BF	3850	0.957	15
400	4.0	20; 22.23; 25.4; 32	C 24 R BF	3850	1.028	15
500	4.5	32	C 24 R BF	3100	1.780	10
500	5.0	32	C 24 R BF	3100	1.980	10

Novelty!

Novelty!

Novelty!

Novelty!

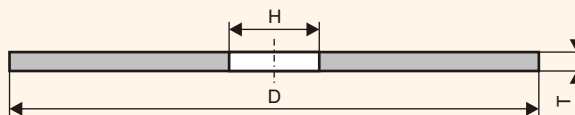
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

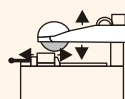
# CUT-OFF WHEELS FOR STATIONARY MACHINES

## STEEL


### Type 41



For universal cutting the details and constructions made of different kinds of steels.



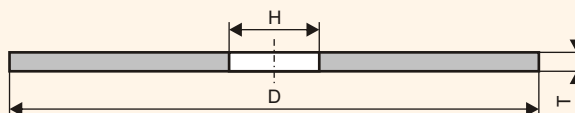
**50m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
100	1.0	20	A 90 N B	9550	0.017	400
100	1.6	20	A 40 O B	9550	0.028	400
100	2.0	20	A 90 P B	9550	0.035	200
100	3.0	20	A 60 Q B	9550	0.050	200
120	1.0	20	A 90 O B	7960	0.025	200
120	1.2	20	A 90 P B	7960	0.030	200
125	1.0	20	A 90 O B	7650	0.027	400
125	1.2	20	A 90 R B	7650	0.033	400
125	1.6	32	A 60 O B	7650	0.043	400
125	2.0	32	A 60 P B	7650	0.054	200
125	3.0	32	A 40 Q B	7650	0.085	200
125	4.0	32	A 40 P B	7650	0.115	160
150	1.0	32	A 90 P B	6400	0.038	200
150	1.2	32	A 90 M B	6400	0.050	200
150	1.6	32	A 60 O B	6400	0.063	200
150	2.0	32	A 60 P B	6400	0.080	200
150	3.0	32	A 40 Q B	6400	0.125	100
150	4.0	32	A 36 P B	6400	0.170	60
175	1.0	32	A 90 N B	5450	0.052	200
175	1.6	32	A 60 O B	5450	0.087	150
175	2.0	32	A 60 P B	5450	0.110	150
175	3.0	32	A 40 Q B	5450	0.170	50
175	4.0	32	A 40 N B	5450	0.231	60
200	1.0	32	A 90 M B	4800	0.068	100
200	1.2	32	A 90 R B	4800	0.081	100
200	1.6	32	A 40 P B	4800	0.115	100
200	2.0	32	A 36 S B	4800	0.146	50
200	3.0	32	A 90 P B	4800	0.222	50
200	4.0	32	A 40 P B	4800	0.310	40

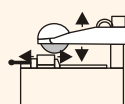
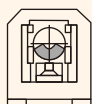
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL


### Type 41



For universal cutting the details and constructions made of different kinds of steels.



**50m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
250	1.6	16; 32	A 60 Q B	3850	0.187	50
250	2.0	32	A 40 P B	3850	0.233	50
250	3.0	32	A 40 P B	3850	0.356	50
250	4.0	32	A 40 P B	3850	0.475	20
300	2.0	32	A 60 P B	3200	0.340	35
300	2.5	32	A 40 O B	3200	0.421	35
300	3.0	32	A 36 P B	3200	0.515	25
300	4.0	32	A 36 P B	3200	0.600	20
400	3.0	32	A 36 O B	2400	0.920	15
400	4.0	32	A 36 Q B	2400	1.227	15

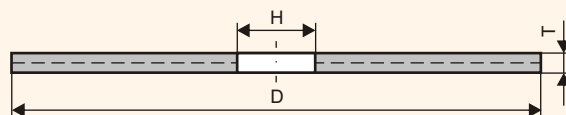
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



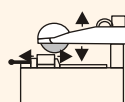
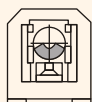


# STEEL

## Type 41



For high-performance cutting the details and constructions made of different kinds of steels.



### 80m/s

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	3.0	32	A 24 S BF	5100	0.490	25
300	3.2	32	A 24 S BF	5100	0.518	25
300	3.5	32	A 24 S BF	5100	0.564	25
300	4.0	32	A 24 S BF	5100	0.645	20
350	3.0	32	A 24 S BF	4400	0.663	25
350	3.2	32	A 24 S BF	4400	0.704	25
350	3.5	32	A 24 S BF	4400	0.773	20
350	4.0	32	A 24 S BF	4400	0.880	20
355	3.0	32	A 24 S BF	4400	0.652	25
355	3.5	32	A 24 S BF	4400	0.795	20
355	4.0	32	A 24 S BF	4400	0.908	20
400	3.0	32	A 24 S BF	3850	0.864	20
400	3.2	32	A 24 S BF	3850	0.921	20
400	3.5	32	A 24 S BF	3850	1.020	15
400	3.8	32	A 24 S BF	3850	1.085	15
400	4.0	32; 40	A 24 S BF	3850	1.163	15
500	4.0	32	A 24 S BF	3100	1.800	10
500	4.5	32	A 24 S BF	3100	2.025	10
500	5.0	32; 40	A 24 S BF	3100	2.290	10
600	6.0	32	A 24 S BF	2550	3.850	5
710	8.0	60	A 24 S BF	2150	3.775	5
900	8.0	100	A 24 S BF	1700	11.441	5
900	9.0	100	A 24 S BF	1700	13.750	5
900	12.0	100	A 24 S BF	1700	17.162	5
1200	12.0	100	A 24 S BF	1270	32.050	5

Novelty!

Novelty!

Novelty!

Novelty!

Novelty!

Novelty!

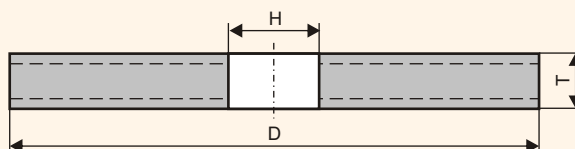
### 100m/s

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
610	7.0	76.2	A 24 S BF	3200	4.700	5

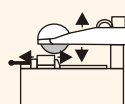
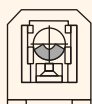
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 1




For high-performance smoothing of details and constructions made of different kinds of steel, welded joints.



**63m/s**


**Novelty!**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
200	25	32	A 24 R BF	6050	1.938	6
350	40	127	A 24 R BF	3450	8.431	2
500	12	50	A 24 R BF	2450	5.600	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

**80m/s**

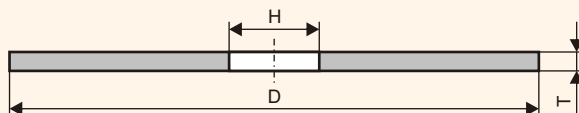
**Novelty!**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
250	6	32	A 24 R BF	6150	0.682	20
250	8	32	A 24 R BF	6150	0.910	14
250	10	32	A 24 R BF	6150	0.910	12
250	10	32	A 24 R BF	6150	1.137	12
300	6	32	A 24 R BF	5100	0.983	15
300	7	32	A 24 R BF	5100	1.157	12
300	8	32	A 24 R BF	5100	1.317	9
300	10	32	A 24 R BF	5100	1.646	9

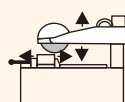
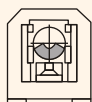
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE


### Type 41



For high-performance cutting of natural and artificial stone, fire-brick.



**50m/s**

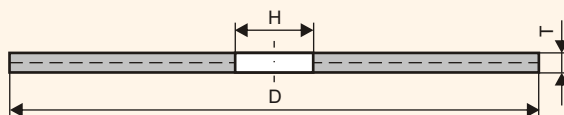
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
150	1.0	32	C 90 O B	6400	0.031	200
150	1.6	32	C 40 P B	6400	0.064	200
150	2.0	32	C 40 P B	6400	0.072	200
150	3.0	32	C 40 P B	6400	0.115	100
150	4.0	32	C 40 P B	6400	0.152	60
175	1.6	32	C 40 O B	5450	0.073	150
175	2.0	32	C 40 P B	5450	0.098	150
175	3.0	32	C 40 P B	5450	0.147	50
200	1.0	32	C 60 N B	4800	0.066	100
200	1.6	32	C 60 P B	4800	0.105	100
200	2.0	32	C 40 P B	4800	0.129	50
200	3.0	32	C 40 Q B	4800	0.207	50
200	4.0	32	C 36 P B	4800	0.276	40
250	2.0	32	C 40 P B	3850	0.183	50
250	3.0	32	C 40 P B	3850	0.274	50
250	4.0	32	C 40 O B	3850	0.365	20
300	2.0	32	C 40 O B	3200	0.264	35
300	2.5	32	C 40 O B	3200	0.330	35
300	3.0	32	C 40 Q B	3200	0.397	25
300	4.0	32	C 40 O B	3200	0.529	20
400	4.0	32	C 24 P B	2400	1.104	15

**Novelty!**

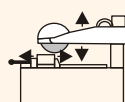
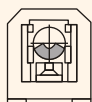
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE

### Type 41



For high-performance cutting of natural and artificial stone, fire-brick.



## 50m/s

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	3.0	32	C 24 R BF	5100	0.426	25
300	3.2	32	C 24 R BF	5100	0.451	25
300	3.5	32	C 24 R BF	5100	0.496	25
300	4.0	32	C 24 R BF	5100	0.507	20
350	3.0	32	C 24 R BF	4400	0.577	25
350	3.5	32	C 24 R BF	4400	0.676	20
350	4.0	32	C 24 R BF	4400	0.772	20
355	3.0	32	C 24 R BF	4400	0.596	25
355	3.5	32	C 24 R BF	4400	0.695	20
355	4.0	32	C 24 R BF	4400	0.794	20
400	3.0	32	C 24 R BF	3850	0.756	20
400	3.5	32	C 24 R BF	3850	0.882	15
400	4.0	32	C 24 R BF	3850	1.008	15
500	4.5	32	C 24 R BF	3100	1.780	10
500	5.0	32	C 24 R BF	3100	1.978	10
610	7.0	76.2	C 24 R BF	2550	4.102	5
710	8.0	60	C 24 R BF	2150	7.300	5
900	8.0	100	C 24 R BF	1700	9.773	5
900	9.0	100	C 24 R BF	1700	10.995	5
1200	12.0	100	C 24 R BF	1270	25.874	5

Novelty!

Novelty!  
Novelty!

Novelty!

Novelty!

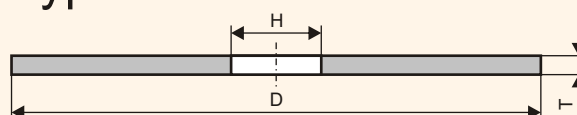
## 100m/s

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
350	4.0	32	C 24 R BF	5500	0.772	20
400	4.0	32	C 24 R BF	4800	1.028	15

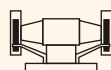
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# WHEELS FOR SHARPENING OF THE SAWS


Type 1



Intended for teeth sharpening of belt and chain saws made of tool steels.



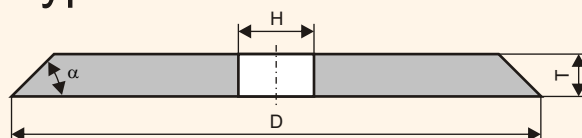
**40m/s**

D <sub>i</sub> mm	T <sub>i</sub> mm	H <sub>i</sub> mm	Characteristic	Working speed, RPM	Weight, kg	
80	3.2	20	A 40 O B	9550	0.038	100
80	4.0	20	A 40 P B	9550	0.044	100
80	5.0	20	A 40 O B	9550	0.058	80
100	4.0	20	A 40 P B	7650	0.074	160
100	5.0	20	A 40 O B	7650	0.092	120
125	4.0	20; 32	A 90 O B	6150	0.107	160
125	5.0	32	A 90 Q B	6150	0.137	120
125	6.0	12.7	A 90 Q B	6150	0.174	80
125	6.0	32	A 40 P B	6150	0.168	80
125	8.0	32	A 90 P B	6150	0.215	64
150	4.0	32	A 90 P B	5100	0.160	60
150	5.0	32	A 60 P B	5100	0.198	60
150	6.0	32	A 90 R B	5100	0.242	40
150	6.0	32	A 40 P B	5100	0.247	40
150	8.0	32	A 90 O B	5100	0.323	40
175	4.0	32	A 60 O B	4360	0.235	50
175	5.0	32	A 40 O B	4360	0.272	50
175	6.0	32	A 40 P B	4360	0.334	40
175	8.0	32	A 90 O B	4360	0.446	30
200	6.0	32	A 40 P B	3850	0.439	20
200	8.0	32	A 60 P B	3850	0.586	20
200	10.0	32	A 60 P B	3850	0.732	16
200	13.0	32	A 40 P B	3850	0.923	12
250	6.0	32	A 60 O B	3100	0.672	20
250	6.0	76	A 40 P B	3100	0.626	20
250	8.0	32	A 60 N B	3100	0.905	14
250	10.0	32	A 90 O B	3100	1.115	12
300	6.0	76	A 60 O B	2550	0.920	15
300	6.0	127	A 40 P B	2550	0.760	15
300	8.0	76	A 40 P B	2550	1.227	9
300	10.0	127	A 90 P B	2550	1.388	9
300	13.0	76	A 60 O B	2550	1.994	7

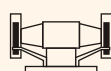
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## Type 3



Intended for teeth sharpening of rip- and disc saws of tool steels.

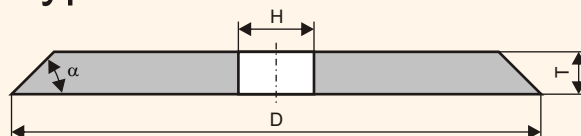


### 40m/s

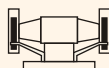
D, mm	T, mm	H, mm	$\alpha$ , <sup>°</sup>	Characteristic	Working speed, RPM	Weight, kg	
80	8	20	20	A 40 O B	9550	0.063	90
80	10	20	30	A 40 P B	9550	0.080	72
80	13	20	35	A 40 O B	9550	0.100	54
100	8	20	15	A 40 P B	7650	0.108	80
100	8	20	20	A 40 P B	7650	0.108	80
125	6	12.7	45	A 60 P B	6150	0.164	80
125	6	32	45	A 60 P B	6150	0.150	80
125	8	32	10	A 40 P B	6150	0.137	64
150	3	32	45	A 60 O B	5100	0.114	100
150	4	32	45	A 60 O B	5100	0.149	60
150	5	32	45	A 60 O B	5100	0.184	60
150	6	32	45	A 90 P B	5100	0.233	60
150	8	32	10	A 40 O B	5100	0.220	36
150	8	32	45	A 40 Q B	5100	0.303	36
150	10	32	35	A 40 P B	5100	0.344	36
150	10	32	45	A 60 P B	5100	0.361	36
150	16	32	25	A 40 L B	5100	0.470	16
150	20	32	20	A 40 P B	5100	0.520	12
150	25	32	18	A 24 Q B	5100	0.561	12
175	6	32	45	A 60 P B	4360	0.313	20
175	8	32	45	A 40 P B	4360	0.413	30
175	10	32	10	A 60 O B	4360	0.351	24
175	10	32	45	A 60 P B	4360	0.505	24
200	6	32	45	A 60 N B	3850	0.414	24
200	8	32	45	A 90 P B	3850	0.559	20
200	8	32	45	A 40 O B	3850	0.550	20
200	10	32	10	A 90 M B	3850	0.501	16
200	10	32	45	A 40 P B	3850	0.671	16
200	13	32	10	A 40 O B	3850	0.588	12

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type 3



Intended for teeth sharpening of rip- and disc saws of tool steels.



**40m/s**

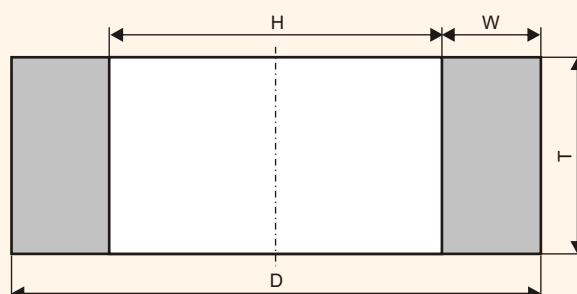
D, mm	T, mm	H, mm	α,°	Characteristic	Working speed, RPM	Weight, kg	
250	6	32; 76	45	A 90 O B	3100	0.664	20
250	8	32; 76	45	A 60 P B	3100	0.882	16
250	8	32; 76	45	A 40 N B	3100	0.882	16
250	10	32; 76	45	A 60 O B	3100	1.110	12
250	10	32; 76	45	A 40 P B	3100	1.110	12
250	13	32; 76	45	A 40 O B	3100	1.348	8
250	13	32; 76	45	A 60 P B	3100	1.348	8
300	6	32; 76	45	A 60 O B	2550	0.920	15
300	6	32; 76	45	A 40 P B	2550	0.920	15
300	6	127	15	A 60 O B	2550	0.760	15
300	8	32; 76; 127	45	A 60 O B	2550	1.271	9
300	8	32; 76; 127	45	A 40 P B	2550	1.271	9
300	10	32	45	A 60 O B	2550	1.568	9
300	10	76	45	A 40 N B	2550	1.528	9
300	10	127	45	A 40 P B	2550	1.306	9
300	13	76	45	A 60 O B	2550	1.907	7
300	13	127	45	A 36 P B	2550	1.569	7
300	20	127	30	A 40 O B	2550	2.052	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# WHEELS FOR GRINDING BY BUTT-ENDS

## STEEL

### Type 2




Intended for flat grinding by a butt-end of the wheel of the details and constructions made of different kinds of steels.



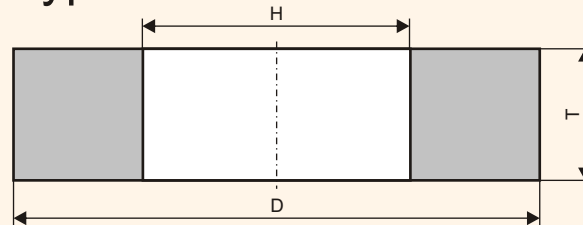
**32m/s**

Characteristic	
Material	A; WA
Grit	F90-F20
Hardness	J-Q

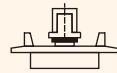
D, mm	T, mm	H, mm	W, mm	Working speed, RPM	Weight, kg	
200	75	125	37	3100	3.365	2
200	80	125	37	3100	3.590	2
200	90	153	23.5	3100	2.890	2
200	90	160	20	3100	2.260	2
200	100	150	25	3100	3.090	2
200	100	160	20	3100	2.615	2
250	100	200	25	2450	4.140	2
250	125	180	35	2450	6.930	2
250	125	200	25	2450	4.730	2
300	40	203	48	2050	3.390	2
350	125	280	35	1750	10.037	1
445	20	340	52.5	1400	9.002	2
450	125	300	75	1400	25.550	1
450	125	380	35	1400	13.370	1
500	100	400	50	1250	16.570	1
500	150	380	60	1250	29.160	1
600	100	480	60	1050	22.380	1
600	125	480	60	1050	29.496	1
600	150	480	60	1050	35.320	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 35



Intended for flat grinding by a butt-end of the wheel of the details and constructions made of different kinds of steels.



**40m/s**

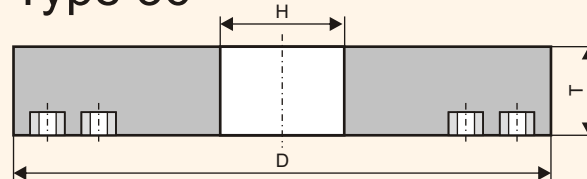
Characteristic	
Material	A; WA
Grit	F60-F16
Hardness	J-Q

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
450	20	203	1700	6.280	2
450	80	203	1700	25.240	1
500	100	305	1550	21.680	1
600	80	305	1300	41.747	1
600	150	305	1300	78.280	1
750	80	305	1050	75.180	1
750	100	305	1050	93.980	1
900	100	305	850	140.144	1; 2

Novelty!  
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 36



Intended for flat grinding by a butt-end of the wheel of the details and constructions made of different kinds of steels.



**32m/s**

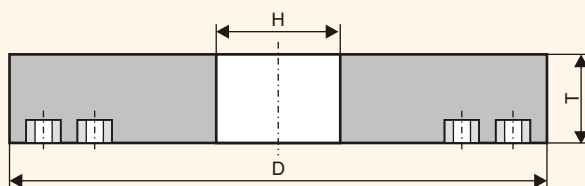
Characteristic	
Material	A; WA
Grit	F400-F16
Hardness	I-T

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
455	75	105	1340	28.100	1
585	60	203	1070	32.200	1
600	65	310	1050	30.000	1
600	75	250	1050	44.150	1
600	75	305	1050	34.500	1
610	80	85	1050	57.916	1
750	50	50	820	45.360	1
750	63	350	820	54.830	1
750	70	25	820	66.000	1
900	65	230	680	97.090	1
1000	70	450	615	95.220	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 36




Intended for flat grinding by a butt-end of the wheel of the details and constructions made of different kinds of steels.




Characteristic	
Материал	A; WA
Зернистость	F400-F16
Твердость	J-T


### 35m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
125	60	50	5350	1.518	8
450	50	150	1480	13.350	1
600	75	305	1110	34.500	1
750	70	25	890	66.000	1
750	75	305	890	58.630	1
762	70	406	870	48.560	1


### 40m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
150	73	56	5100	2.840	4

### 45m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
450	63	200	1910	18.210	1

### 50m/s

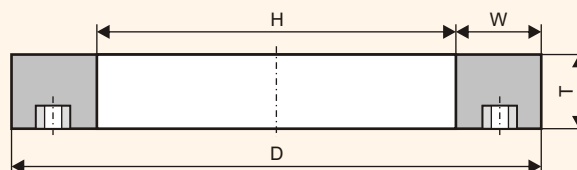
D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
150	63	51	6400	2.600	4
150	73	56	6400	2.570	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STEEL

### Type 37



Intended for flat grinding by a butt-end of the wheel of the details and constructions made of different kinds of steels.

Characteristic	
Material	A; WA
Grit	F150-F36
Hardness	L-P



**32m/s**

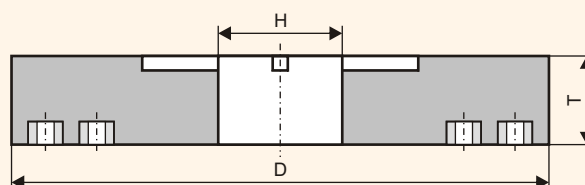
D, mm	T, mm	H, mm	W, mm	Working speed, RPM	Weight, kg	
300	50	203	48.5	2050	4.330	1

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 40



Intended for flat grinding by a butt-end of the wheel of the details and constructions made of different kinds of steels.

Characteristic	
Material	A; WA
Grit	F90-F40
Hardness	I-P



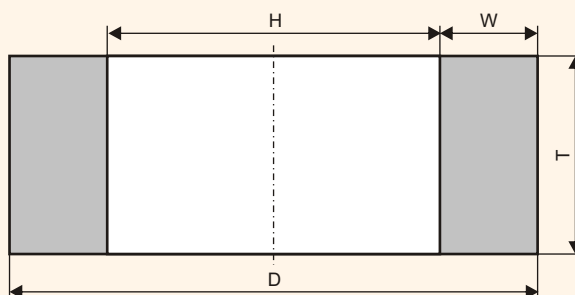
**32m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
750	70	25	820	65.200	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE

### Type 2




Intended for flat grinding by a butt-end of the wheel of the details and constructions made of cast iron, non-ferrous metals and mineral materials.



Characteristic	
Material	C; GC
Grit	F180-F12
Hardness	H-Q


## 32m/s

D, mm	T, mm	H, mm	W, mm	Working speed, RPM	Weight, kg	
200	80	125	37	3100	3.510	2
250	100	200	25	2450	3.260	2
250	125	200	25	2290	4.120	2
350	125	280	35	1750	9.320	1
400	60	280	60	1550	9.320	1
450	125	380	35	1400	13.110	1
500	100	400	50	1250	15.980	1
500	150	380	60	1250	28.600	1
600	100	480	60	1050	22.890	1

Novelty!

Novelty!

## 40m/s

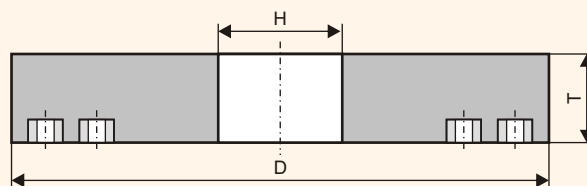
D, mm	T, mm	H, mm	W, mm	Working speed, RPM	Weight, kg	
250	75	150	50	3100	5.230	2
250	125	200	25	3100	5.070	2
400	60	280	60	1950	9.320	1
600	125	480	60	1300	29.500	1

Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE

### Type 36




Intended for flat grinding by a butt-end of the wheel of the details and constructions made of cast iron, non-ferrous metals and mineral materials.




Characteristic	
Material	C; GC
Grit	F360-F16
Hardness	J-Q

### 32m/s


D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
450	50	150	1400	14.650	1
720	55	320	850	26.970	1
750	50	50	820	44.700	1
750	70	25	820	63.950	1
900	65	230	680	74.200	1
1000	70	450	615	88.500	1

### 35m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
125	60	50; M8	5350	1.520	8
450	50	150	1500	13.350	1
450	63	305	1500	10.900	1
660	60	220	1010	33.300	1
750	40	350	895	25.850	1
750	45	350	895	30.500	1
750	60	38	895	45.750	1

Novelty!

### 40m/s

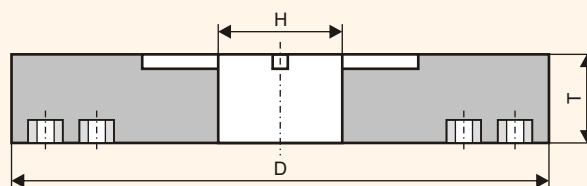
D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
127	51	16; M16	6020	1.563	8

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STONE

### Type 40




Intended for flat grinding by a butt-end of the wheel of the details and constructions made of cast iron, non-ferrous metals and mineral materials.

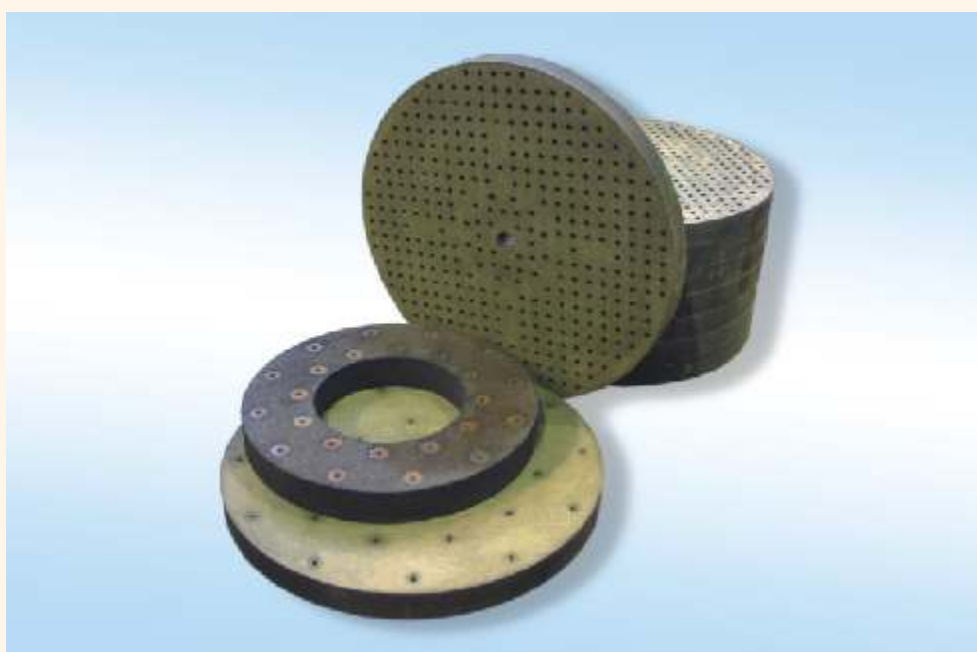


## 32m/s

Characteristic	
Material	C; GC
Grit	F60-F40
Hardness	J-N

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
750	70	25	820	62.200	1

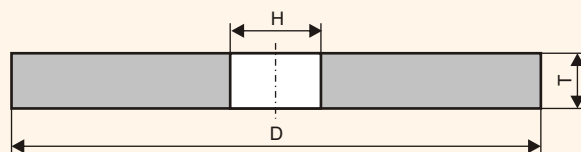
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# POLISHING WHEELS

## STEEL


### Type 1



Intended for finishing processing of surfaces of the details made of different kinds of steels.



**32m/s**

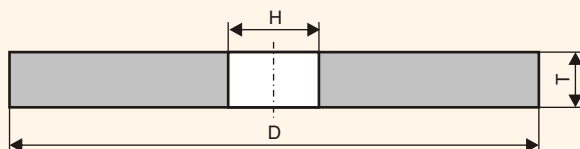
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
80	40	20	A 400 J B4	7650	0.290	8
100	20	20	A 400 J B4	6150	0.230	32
125	20	32	A 400 J B4	4900	0.358	24
150	20	32	A 400 J B4	4100	0.519	16
150	25	32	A 400 J B4	4100	0.657	12
200	20	32; 76	A 400 J B4	3100	0.942	8
200	25	32; 76	A 400 J B4	3100	1.178	6
250	25	32; 76	A 400 J B4	2450	1.737	4
250	40	32; 76	A 400 J B4	2450	2.972	2
300	20	76; 127	A 400 J B4	2050	2.063	4
300	40	76; 127	A 400 J B4	2050	4.072	2
300	50	76; 127	A 400 J B4	2050	5.090	1
350	40	127; 203	A 400 J B4	1750	5.143	2
350	50	203	A 400 J B4	1750	4.013	2
350	80	127	A 400 J B4	1750	10.421	1
400	40	127; 203	A 400 J B4	1550	6.956	2
400	50	203	A 400 J B4	1550	7.179	1
400	100	203	A 400 J B4	1550	14.358	1
400	125	203	A 400 J B4	1550	18.184	1
450	63	203	A 400 J B4	1400	12.444	1
500	20	305	A 400 J B4	1250	3.845	2
500	25	305	A 400 J B4	1250	4.749	2
500	32	305	A 400 J B4	1250	6.150	2
500	40	305	A 400 J B4	1250	7.689	2
500	50	305	A 400 J B4	1250	9.487	1
500	75	305	A 400 J B4	1250	14.230	1
500	100	305	A 400 J B4	1250	18.970	1
500	125	305	A 400 J B4	1250	23.717	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STEEL


### Type 1



Intended for finishing processing of surfaces of the details made of different kinds of steels.



## 32m/s

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
600	28	305	A 400 J B4	1050	9.035	1
600	30	305	A 400 J B4	1050	9.680	1
600	50	305	A 400 J B4	1050	16.130	1
600	63	305	A 400 J B4	1050	20.330	1
600	80	305	A 400 J B4	1050	25.815	1
600	100	305	A 400 J B4	1050	32.270	1
750	80	305	A 400 J B4	820	45.990	1
900	80	305	A 400 J B4	680	69.330	1

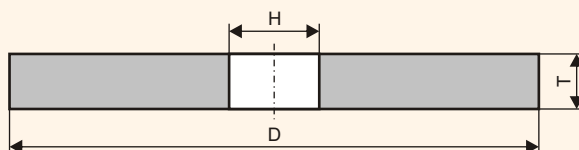
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



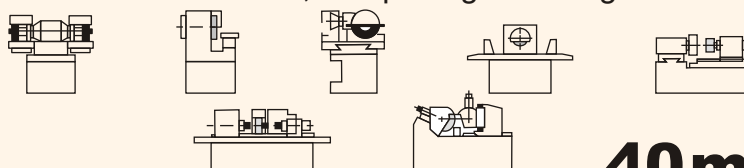
# GRINDING AND SNAGGING WHEELS

## STEEL

### Type 1



Intended for all types of grinding and snagging operations the details and constructions made of different kinds of steels, sharpening of cutting tools.



Characteristic	
Material	A; WA
Grit	F100-F12
Hardness	I-T

**40m/s**

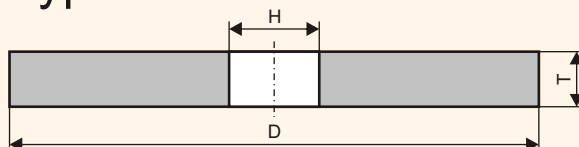
D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
20	20	6	38200	0.014	100
32	25	10	23900	0.045	100
40	20	20	19100	0.048	100
40	25	20	19100	0.059	100
50	5	6	15300	0.023	60
50	10	6; 8	15300	0.045	200
50	25	20	15300	0.105	75
50	40	16	15300	0.180	50
60	20	20	12730	0.117	50
63	10	20	12150	0.070	100
63	20	20	12150	0.131	50
63	32	20	12150	0.208	30
80	3.2	20	9550	0.037	100
80	4	20	9550	0.044	100
80	5	20	9550	0.058	80
80	10	20	9550	0.109	40
80	20	20	9550	0.218	20
80	100	20	9550	1.174	4
100	4	20	7650	0.074	160
100	5	20	7650	0.092	120
100	10	20	7650	0.175	64
100	13	20	7650	0.240	48
100	20	20	7650	0.353	32
100	25	20	7650	0.470	24
100	40	32	7650	0.700	16
100	50	32	7650	0.850	16
100	100	20	7650	1.903	8

**Novelty!**

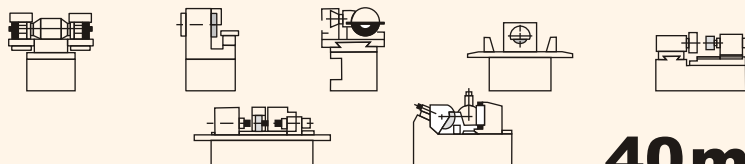
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# STEEL

## Type 1




Intended for all types of grinding and snagging operations the details and constructions made of different kinds of steels, sharpening of cutting tools.



**40m/s**

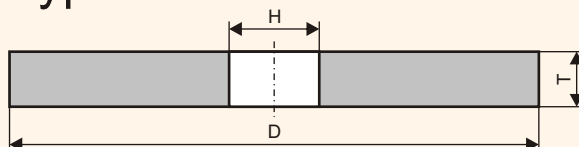
Characteristic	
Material	A; WA
Grit	F100-F12
Hardness	I-T

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
125	5	32	6150	0.139	120
125	6	12.7; 32	6150	0.178	80
125	8	32	6150	0.219	64
125	10	32	6150	0.274	64
125	16	32	6150	0.425	32
125	20	32	6150	0.586	24
125	25	32	6150	0.695	16
125	32	32	6150	0.990	16
125	90	50	6150	2.360	8
150	4	32	5100	0.170	60
150	5	32	5100	0.204	60
150	6	32	5100	0.245	40
150	8	32	5100	0.327	40
150	10	32	5100	0.435	32
150	16	32	5100	0.690	20
150	20	32	5100	0.877	16
150	25	32	5100	0.988	12
150	32	32	5100	1.379	8
150	100	32	5100	3.994	4
175	6	32	4360	0.334	40
175	8	32	4360	0.445	30
175	10	32	4360	0.556	24
175	13	32	4360	0.634	20
175	16	32	4360	0.780	20
175	20	32	4360	1.089	12
175	25	32	4360	1.347	10
175	32	32	4360	1.747	8
200	6	32	3850	0.430	20
200	8	32	3850	0.586	20
200	10	32	3850	0.732	16

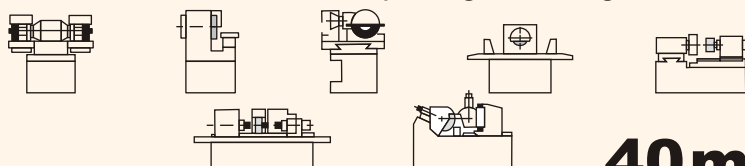
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# STEEL

## Type 1




Intended for all types of grinding and snagging operations the details and constructions made of different kinds of steels, sharpening of cutting tools.



Characteristic	
Material	A; WA
Grit	F100-F12
Hardness	I-T

**40m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
200	13	32	3850	0.932	12
200	16	32	3850	1.148	10
200	20	32	3850	1.434	8
200	25	32; 76	3850	1.955	6
200	32	32; 76	3850	2.546	4
200	40	76	3850	2.747	4
200	63	76	3850	4.326	2
200	70	32	3850	5.570	2
200	80	32	3850	5.738	2
200	100	76	3850	6.298	1
230	38	100	3350	2.968	4
230	40	76; 100	3350	3.158	4
250	6	32; 76	3100	0.679	20
250	8	32; 76	3100	0.905	14
250	10	32; 76	3100	1.155	12
250	13	32; 76	3100	1.455	4
250	16	32; 76	3100	1.848	8
250	20	32; 76	3100	2.239	6
250	25	32; 76	3100	2.798	4
250	32	32; 76	3100	3.620	4
250	40	32; 76	3100	4.935	2
250	50	32; 76	3100	6.170	2
250	63	76	3100	7.160	2
250	100	76; 127	3100	10.438	2
255	13	60	3000	1.454	5
300	6	32; 76; 127	2550	0.920	15
300	8	32; 76; 127	2550	1.296	9
300	10	32; 76; 127	2550	1.620	9
300	13	76; 127	2550	1.994	7
300	16	127	2550	2.175	6

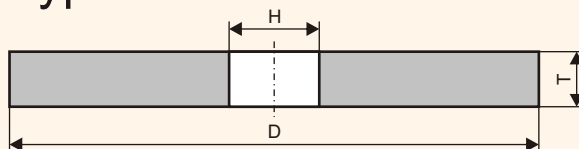
Novelty!

Novelty!

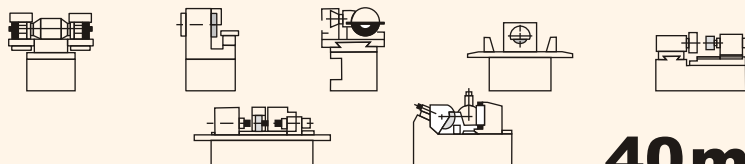
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# STEEL

## Type 1




Intended for all types of grinding and snagging operations the details and constructions made of different kinds of steels, sharpening of cutting tools.



**40m/s**

Characteristic	
Material	A; WA
Grit	F100-F12
Hardness	I-T

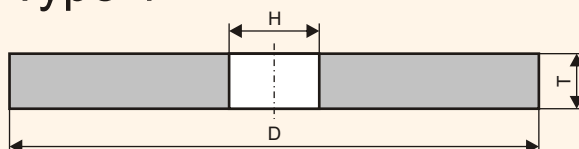
D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
300	20	32; 76	2550	3.007	4
300	25	32; 76	2550	3.830	3
300	32	32; 76; 127	2550	5.502	2
300	40	76; 127	2550	6.878	2
300	150	127	2550	20.819	1
300	160	127	2550	22.207	1
350	20	127	2200	4.269	4
350	25	203	2200	3.700	3
350	32	203	2200	4.736	3
350	40	76; 127; 203	2200	9.532	2
350	50	127; 203	2200	9.684	2
350	100	203	2200	16.313	1
350	125	203	2200	19.092	1
350	150	127; 203	2200	23.212	1
400	10	203	1950	2.089	6
400	20	127	1950	5.774	3
400	32	127	1950	9.239	3
400	40	127; 203	1950	11.749	2
400	50	127; 203	1950	13.237	1
400	63	203	1950	15.018	1
400	80	127; 203	1950	19.070	1
400	100	203	1950	23.840	1
450	16	203	1700	5.430	2
450	20	203	1700	6.790	2
450	40	127; 203	1700	13.574	1
450	50	203	1700	16.183	1
450	63	203	1700	18.698	1
450	80	203	1700	23.494	1
500	32	203	1550	13.408	2
500	40	203	1550	16.760	2

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

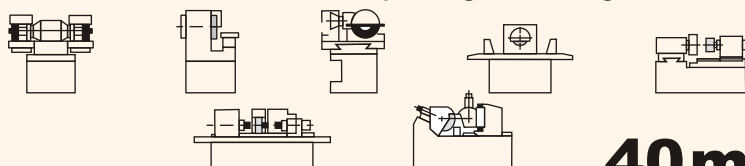


## STEEL

### Type 1



Intended for all types of grinding and snagging operations the details and constructions made of different kinds of steels, sharpening of cutting tools.



Characteristic	
Material	A; WA
Grit	F100-F12
Hardness	I-T

**40m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
500	50	203	1550	20.949	1
500	63	203; 305	1550	26.855	1
500	80	203; 305	1550	33.519	1
500	100	203; 305	1550	30.163	1
500	125	305	1550	36.107	1
500	150	305	1550	48.272	1
500	200	305	1550	64.363	1
600	40	305	1300	21.430	1
600	50	305	1300	26.787	1
600	63	203; 305	1300	40.618	1
600	75	203; 305	1300	40.181	1
600	80	203; 305	1300	42.860	1
600	100	305	1300	53.574	1
600	125	305	1300	60.760	1
600	150	305	1300	69.812	1
600	200	305	1300	98.250	1
650	67	305	1170	43.320	1
750	63	305	1050	58.440	1
750	75	305	1050	70.658	1
750	80	305	1050	75.368	1
750	100	305	1050	85.481	1
900	80	305	850	115.101	1
900	100	305	850	143.877	1

**Novelty!**

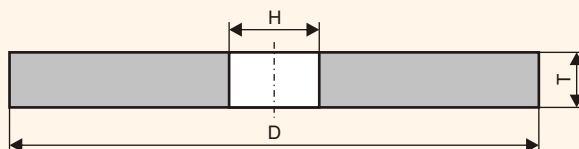
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

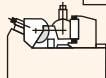
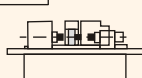


# STEEL

## Type 1




Intended for all types of grinding and snagging operations the details and constructions made of different kinds of steels, sharpening of cutting tools.



**50 m/s**

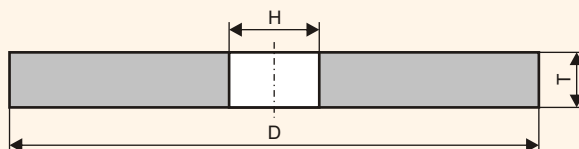
	Characteristic
Material	A; WA
Grit	F100-F12
Hardness	I-T

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
50	10	6; 8	19100	0.045	200
63	8	20	15200	0.054	120
63	20	20	15200	0.143	50
80	20	20	12000	0.241	20
100	20	20	9550	0.385	32
125	6	12.7; 32	7650	0.178	80
125	25	32	7650	0.733	16
150	20	32	6400	0.840	16
150	25	32	6400	1.077	12
250	10	32	3850	1.131	12
250	63	76	3850	7.160	2
260	25	120	3670	2.614	2
300	10	127	3200	1.385	9
300	25	76	3200	4.313	3
300	32	76	3200	5.517	3
300	40	76; 127	3200	6.965	2
300	50	76	3200	8.538	2
350	40	76; 127	2750	9.457	2
400	40	127; 203	2400	11.674	2
400	50	127; 150; 203	2400	14.561	1
400	63	203	2400	15.333	1
400	80	127	2400	23.298	1
450	40	203	2150	13.072	1
450	50	203	2150	16.498	1
450	63	203	2150	20.706	1
450	80	203	2150	26.293	1

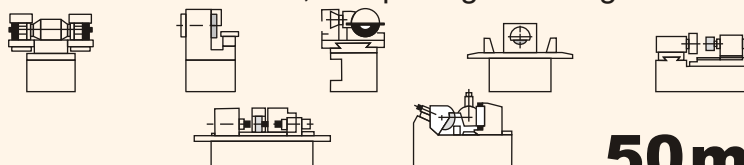
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# STEEL

## Type 1




Intended for all types of grinding and snagging operations the details and constructions made of different kinds of steels, sharpening of cutting tools.



Characteristic	
Material	A; WA
Grit	F150-F12
Hardness	K-S

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
500	25	203	1950	10.790	2
500	32	203	1950	13.723	2
500	40	203	1950	15.521	2
500	50	203	1950	21.628	1
500	63	203; 305	1950	27.170	1
500	75	305	1950	24.072	1
500	80	203; 305	1950	34.149	1
500	100	203; 305	1950	42.528	1
500	125	305	1950	40.269	1
600	40	305	1600	21.876	1
600	50	305	1600	27.234	1
600	63	203; 305	1600	37.665	1
600	75	203; 305	1600	40.627	1
600	80	203; 305	1600	51.808	1
600	125	305	1600	80.950	1
750	80	305	1300	67.095	1
900	100	305	1100	131.438	1

Novelty!

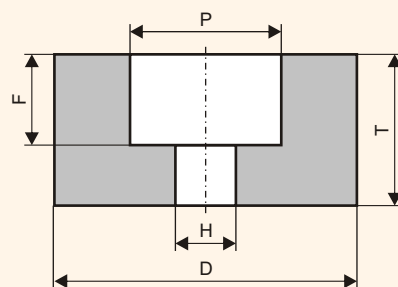
Novelty!

Novelty!  
Novelty!

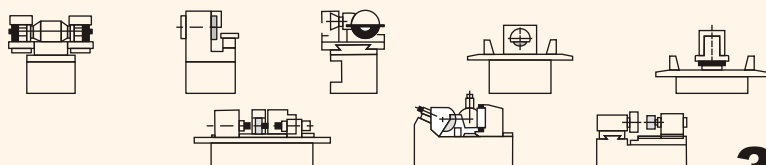
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 5




Intended for all types of grinding and snagging operations the details and constructions made of different kinds of steels, sharpening of cutting tools.



Characteristic	
Material	A; WA
Grit	F24-F16
Hardness	O-R

**32m/s**

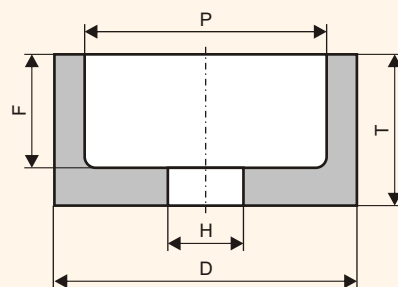
D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
100	50	20	50	30	6150	0.850	16
125	50	32	65	30	4900	1.240	8
130	63	32	54	45	4700	1.650	4
200	32	76	125	16	3100	1.660	4
250	32	76	125	16	2450	3.390	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STEEL

### Type 6



Intended for flat, round outer and inner grinding operations the details and constructions made of different kinds of steels, sharpening of cutting tools.

Characteristic	
Material	A; WA
Grit	F120-F24
Hardness	H-Q



## 32m/s

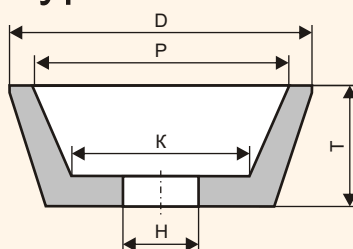
D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
80	40	20	60; 68	32	7650	0.230	8
100	50	20	80	40	6150	0.436	16
110	100	51	90	86	5200	0.861	4
125	63	32	100	50	4900	0.924	8
150	50	32	130	38	4100	0.923	8
150	63	65	100	38	4100	1.693	4
150	80	32	125	65	4100	1.300	4
170	115	127	138	95	3500	2.124	2
180	100	25.4	120	75	3400	3.895	1
200	63	32	165	50	3100	2.248	2
200	63	51	165	27	3100	2.210	2
200	80	32	170	65	3100	2.373	2
200	80	76	170	65	3100	2.423	2
250	100	76	125	75	2450	9.330	1
250	100	150	200	75	2450	5.274	2
250	115	127	200	85	2450	5.887	1
325	115	203	280	90	1880	6.960	1
330	115	203	270	85	1850	9.072	1
485	115	280	425	85	1260	16.654	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STEEL

### Type 11



Intended for flat grinding the details and constructions made of different kinds of steels, for spline grinding, sharpening of cutting tools.



Characteristic	
Material	A; WA
Grit	F180-F16
Hardness	H-Q

### 32m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Working speed, RPM	Weight, kg	
80	32	20	65	45	7650	0.157	12
100	40	20	84	60	6150	0.270	16
110	55	22.23	70	48	5550	0.810	12
125	50	22.23	88	56	4900	0.868	12
125	50	32	100	70	4900	0.634	12
125	50	32	88	56	4900	0.890	12
150	50	32	130	97	4100	0.796	12

### 40m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Working speed, RPM	Weight, kg	
125	50	M14	75	55	6150	1.019	12
125	50	M16	75	30	6150	1.080	12
125	50	32	88	56	6150	0.868	12
125	50	32	100	70	6150	0.634	12

### 50m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Working speed, RPM	Weight, kg	
125	50	M14	75	55	7650	1.019	12
125	50	32	100	70	7650	0.868	12
125	50	32	88	56	7650	0.634	12
150	50	32	130	97	6400	0.817	12

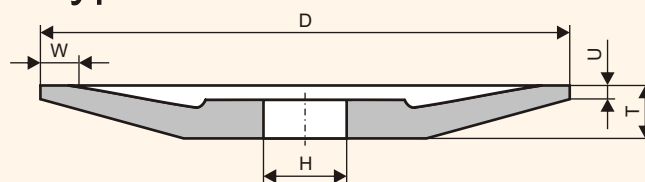
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

**Novelty!**

**Novelty!**

## STEEL

### Type 12




Intended for sharpening of cutting tools made of instrumental steels, recessing the details made of different kinds of steels.



Characteristic	
Material	A; WA
Grit	F90-F40
Hardness	K-O

**32m/s**

D, mm	T, mm	H, mm	W, mm	U, mm	Working speed, RPM	Weight, kg	
80	8	13	4	2	7650	0.039	90
100	10	20	6	2	6150	0.053	80
150	16	32	8	4	4100	0.280	10

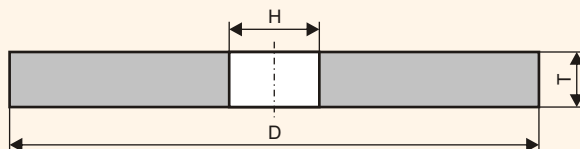
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

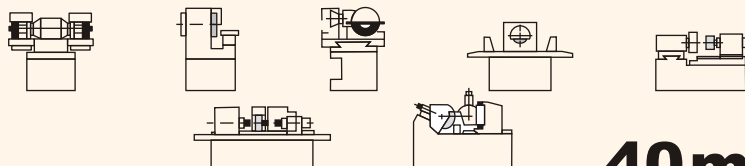


# STONE

## Type 1



Intended for all types of grinding and snagging operations the details and constructions made of cast iron, heat-resistant steels, solid alloys, non-ferrous metals and mineral materials.



**40m/s**

Characteristic	
Материал	C; GC
Зернистость	F180-F16
Твердость	H-S

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
63	20	20	12150	0.126	50
80	20	20	9550	0.220	20
80	100	20	9550	1.116	4
100	10	20	7650	0.180	64
100	20	20	7650	0.357	32
125	20	32	6150	0.543	24
125	25	32	6150	0.679	16
125	32	32	6150	0.869	16
125	50	32	6150	1.358	8
125	90	50	6150	1.914	8
150	6	32	5100	0.212	40
150	8	32	5100	0.283	40
150	10	32	5100	0.353	32
150	16	32	5100	0.566	20
150	20	32	5100	0.760	16
150	25	32	5100	0.950	12
150	32	32	5100	1.278	8
150	50	32	5100	1.940	8
150	90	50	5100	2.847	4
150	100	32; 51	5100	3.994	4
175	13	32	4360	0.634	20
175	20	32	4360	0.975	12
175	25	32	4360	1.219	10
175	32	32	4360	1.561	8
200	10	32	3850	0.642	16
200	16	32	3850	1.027	10
200	20	32; 76	3850	1.380	8

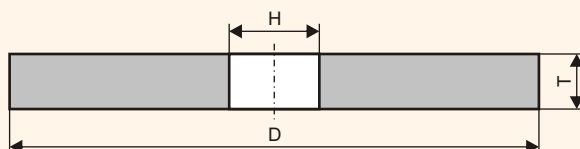
Novelty!

Novelty!

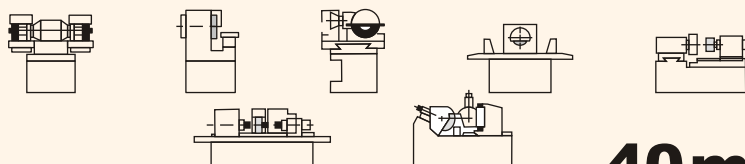
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# STONE

## Type 1



Intended for all types of grinding and snagging operations the details and constructions made of cast iron, heat-resistant steels, solid alloys, non-ferrous metals and mineral materials.



Characteristic	
Material	C; GC
Grit	F180-F16
Hardness	H-S

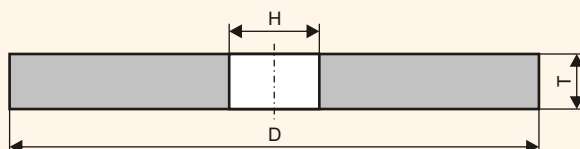
**40m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
200	25	32	3850	1.605	6
200	32	32	3850	2.054	4
200	40	76	3850	2.546	4
200	63	76	3850	3.552	2
250	6	32	3100	0.686	20
250	8	32	3100	0.914	14
250	10	32	3100	1.143	12
250	20	32; 76	3100	2.170	6
250	25	32	3100	2.858	4
250	32	32	3100	3.470	4
250	40	32; 76	3100	4.220	2
250	50	32; 76	3100	5.716	2
250	63	76	3100	6.646	2
250	100	76	3100	9.345	2
300	8	127	2550	1.040	9
300	20	32	2550	3.115	4
300	25	32	2550	3.930	3
300	32	76	2550	4.420	3
300	40	76; 127	2550	5.524	2
350	32	76; 127	2200	5.608	3
350	40	76; 127	2200	7.692	2
400	40	127; 203	1950	10.702	2
400	50	203	1950	11.046	1
450	40	127	1700	13.605	2
450	50	127; 203	1700	15.352	1
450	63	203	1700	18.897	1
450	80	203	1700	21.258	1

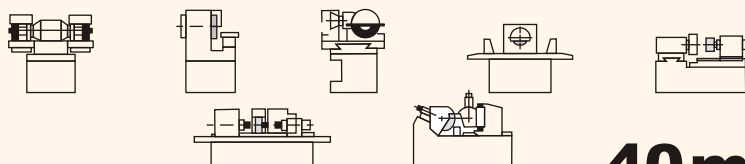
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE

### Type 1




Intended for all types of grinding and snagging operations the details and constructions made of cast iron, heat-resistant steels, solid alloys, non-ferrous metals and mineral materials.



Characteristic	
Material	C; GC
Grit	F180-F16
Hardness	H-S

**40m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
500	50	203	1550	17.514	1
500	63	203; 305	1550	23.950	1
500	80	203; 305	1550	30.412	1
500	100	203; 305	1550	34.400	1
500	125	305	1550	36.970	1
600	40	203; 305	1300	19.860	1
600	50	203; 305	1300	29.643	1
600	63	203; 305	1300	36.260	1
600	75	305	1300	36.150	1
600	80	203; 305	1300	46.060	1
600	100	305	1300	50.300	1
600	150	305	1300	75.450	1
600	200	305	1300	100.600	1
650	67	305	1200	32.365	1
750	63	305	1050	49.500	1
750	80	305	1050	67.810	1

Novelty!  
Novelty!

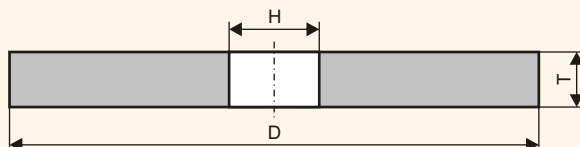
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

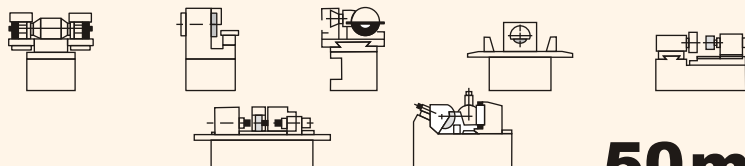


## STONE

### Type 1



Intended for all types of grinding and snagging operations the details and constructions made of cast iron, heat-resistant steels, solid alloys, non-ferrous metals and mineral materials.



Characteristic	
Material	C; GC
Grit	F180-F16
Hardness	H-S

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
150	10	32	6400	0.354	32
150	25	32	6400	0.885	12
300	40	76	3200	5.950	2
350	40	127	2750	8.040	2
400	40	127	2400	9.090	2
400	50	203	2400	11.361	1
450	40	127	2150	13.989	1
450	63	203	2150	22.030	1
500	50	203	1950	17.514	1
500	63	203; 305	1950	24.777	1
500	100	203; 305	1950	26.331	1
600	63	203; 305	1600	37.665	1
600	75	305	1600	38.070	1
600	80	305	1600	40.613	1
900	80	305	1100	93.840	1
900	100	305	1100	127.866	1

Novelty!

Novelty!

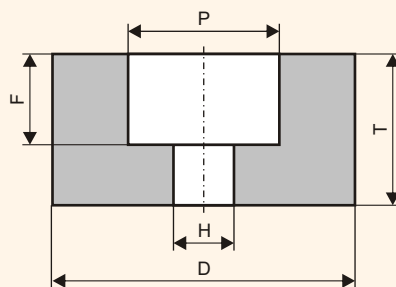
Novelty!

Novelty!

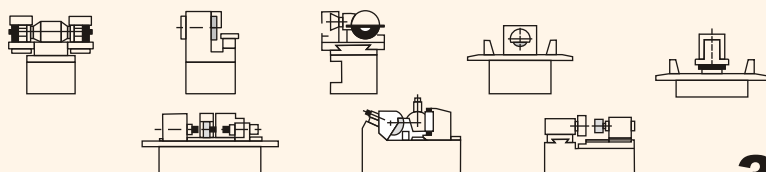
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STONE

### Type 5




Intended for all types of grinding and snagging operations the details and constructions made of cast iron, heat-resistant steels, solid alloys, non-ferrous metals and mineral materials.



Characteristic	
Material	C; GC
Grit	F120-F12
Hardness	K-R

**32m/s**

D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
32	32	10	16	20	19100	0.053	50
100	50	20	50	30	6150	0.800	16
120	60	20	55	45	5100	1.384	8
125	50	32	65	30	4900	1.174	8
130	63	32	54	45	4700	1.540	4

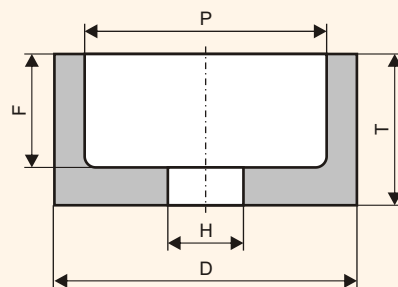
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STONE

### Type 6



Intended for operations of flat round outer and inner grinding the details and constructions made of cast iron, heat-resistant steels, solid alloys, non-ferrous metals and mineral materials.

Characteristic	
Material	C; GC
Grit	F90-F16
Hardness	J-Q



## 32m/s

D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
100	50	20	80	40	6150	0.363	16
125	63	32	100	50	4900	0.862	8
150	50	32	130	38	4100	0.800	8
150	63	65	100	38	4100	1.402	4
200	63	32	165	50	3100	2.070	2
200	80	76	170	65	3100	2.230	2
250	100	150	200	75	2450	4.916	1

Novelty!

Novelty!

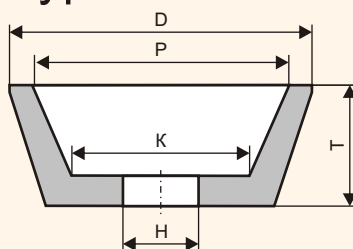
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



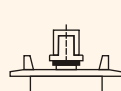
## STONE

### Type 11




Intended for flat grinding and spline grinding the details and constructions made of cast iron, heat-resistant steels, non-ferrous metals and mineral materials, for hard alloy tools sharpening.


Characteristic	
Material	C; GC
Grit	F180-F16
Hardness	I-Q




## 32m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Working speed, RPM	Weight, kg	
100	40	20	84	60	6150	0.260	16
110	55	22.23	70	48	5550	0.750	12
125	50	22.23	88	56	4900	0.760	12
125	50	32	100	70	4900	0.570	12
125	50	32	88	56	4900	0.786	12
150	50	32	130	97	4100	0.740	12

## 40m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Working speed, RPM	Weight, kg	
110	55	22.23	70	48	6940	0.739	12
125	50	M14; M16	75	30	6150	0.949	12
125	50	32	88	56	6150	0.786	12

## 50m/s

D, mm	T, mm	H, mm	P, mm	K, mm	Working speed, RPM	Weight, kg	
110	55	22.23	70	48	8680	0.739	12
125	50	22.23	88	56	7650	0.786	12

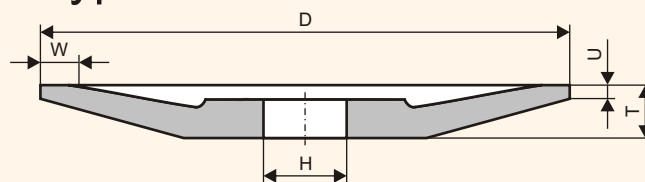
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

**Novelty!**

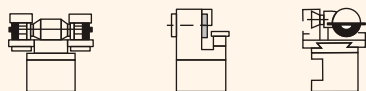
**Novelty!**

## STONE

### Type 12




Intended for sharpening of cutting tools equipped with hard-alloy, for recessing the details made of cast iron, non-ferrous metals and mineral materials.



Characteristic	
Material	C; GC
Grit	F180-F36
Hardness	I-N

**32m/s**

D, mm	T, mm	H, mm	W, mm	U, mm	Working speed, RPM	Weight, kg	
80	8	13	4	2	7650	0.030	90
100	10	20	6	2	6150	0.048	80
125	13	32	6	3	4900	0.106	80
150	16	32	8	4	4100	0.233	10

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

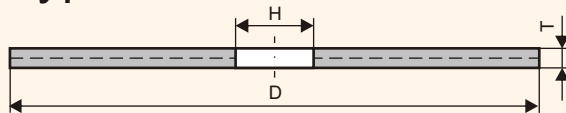


# TOOLS FOR PROCESSING RAILWAY RAILS

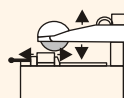
## Cut-off Wheels

### STEEL

#### Type 41



For high-performance cutting of thermo-strengthened rails on fixed machines with power-operated feed.



**80m/s**

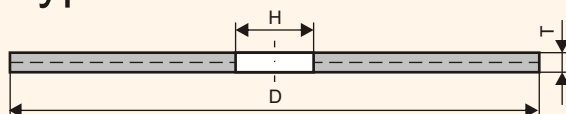
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	3.0	32	A 24 Q BF	5100	0.458	25
300	4.0	32	A 24 Q BF	5100	0.610	20
350	3.5	32	A 24 Q BF	4400	0.729	20
350	4.0	32	A 24 Q BF	4400	0.833	20
400	4.0	32	A 24 Q BF	3850	1.090	15
500	4.0	32	A 24 Q BF	3100	1.746	10
500	4.5	32	A 24 Q BF	3100	1.960	10
500	5.0	32	A 24 Q BF	3100	2.182	10
900	9.0	100	A 24 S BF	1700	13.750	5;10;20
1200	12.0	100	A 24 S BF	1270	32.050	5;10;20

Novelty!  
Novelty!

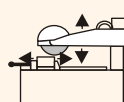
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

### STONE

#### Type 41



For high-performance cutting of ferroconcrete sleepers on fixed machines with power-operated feed.



**80m/s**

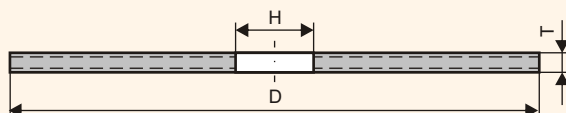
D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
610	7.0	76.2	C 24 R BF	2550	4.162	5
710	8.0	60	C 24 R BF	2150	7.300	5

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# STEEL

## Type 41



For high-performance cutting of thermo-strengthened rails for hand machines with electric motor or gasoline motor and for fixed machines with hand-feed.



### 80m/s

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	3.0	22.23; 25.4; 32	A 24 Q BF	5100	0.458	25
300	4.0	22.23; 25.4; 32	A 24 Q BF	5100	0.610	20
350	3.2	22.23; 25.4; 32	A 24 Q BF	4400	0.667	25
350	3.5	22.23; 25.4; 32	A 24 Q BF	4400	0.729	20
350	4.0	22.23; 25.4; 32	A 24 Q BF	4400	0.833	20
355	3.0	22.23; 25.4; 32	A 24 Q BF	4400	0.645	25
355	3.5	22.23; 25.4; 32	A 24 Q BF	4400	0.752	20
355	4.0	22.23; 25.4; 32	A 24 Q BF	4400	0.850	20
400	3.0	22.23; 25.4; 32	A 24 Q BF	3850	0.818	20
400	3.2	22.23; 25.4; 32	A 24 Q BF	3850	0.872	20
400	3.5	22.23; 25.4; 32	A 24 Q BF	3850	0.954	15
400	4.0	22.23; 25.4; 32	A 24 Q BF	3850	1.090	15
500	5.0	32	A 24 Q BF	3100	2.182	10

Novelty!

Novelty!

Novelty!

Novelty!

Novelty!

### 100m/s

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
300	3.0	22.23; 25.4; 32	A 24 R BF	6400	0.515	25
300	3.2	22.23; 25.4; 32	A 24 R BF	6400	0.519	25
300	3.5	22.23; 25.4; 32	A 24 R BF	6400	0.564	25
300	4.0	22.23; 25.4; 32	A 24 R BF	6400	0.645	25
350	3.2	22.23; 25.4; 32	A 24 R BF	5500	0.704	25
350	3.5	22.23; 25.4; 32	A 24 R BF	5500	0.770	20
350	4.0	22.23; 25.4; 32	A 24 R BF	5500	0.819	20
355	4.0	22.23; 25.4; 32	A 24 R BF	5500	0.842	20
355	4.0	22.23; 25.4; 32	A 30 R BF	5500	0.842	20
400	4.0	22.23; 25.4; 32	A 24 R BF	4800	1.068	15

Novelty!

Novelty!

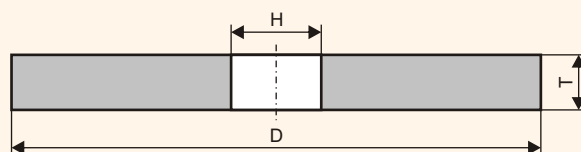
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Grinding Wheels

## STEEL

Type 1



For high-performance processing of rails.

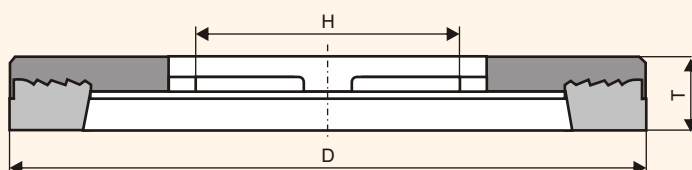
**40m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
125	20	32	A 24 Q B	6150	0.586	24
125	25	32	A 24 Q B	6150	0.733	16
150	25	32	A 24 Q B	5100	1.138	12
150	32	32	A 24 Q B	5100	1.457	8
200	20	32	A 40 P B	3850	1.652	8
200	25	32	A 24 O B	3850	1.870	6
200	32	32	A 24 Q B	3850	2.450	4
250	16	32	A 24 P B	3100	2.085	8
250	32	32	A 24 Q B	3100	4.170	4
300	32	76	A 20 Q B	2550	4.463	3
300	40	76	A 16 Q B	2550	6.610	2
400	40	127	A 24 Q B	1950	11.548	2

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

Type 2



For equipping of rail-grinding trains RR 16 “SPENO” at processing of switches.

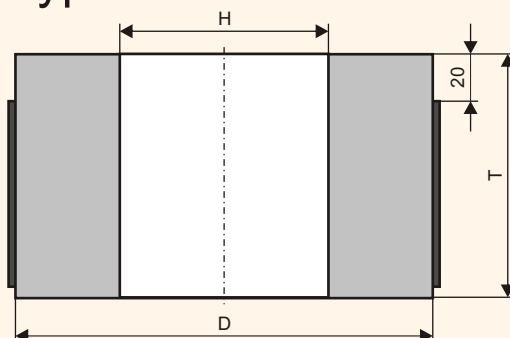
**50m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
260	30	110	ZK 20 T B	3670	2.809	2

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 2



For equipping of rail-grinding trains RR 16 "SPENO", RR 48 "SPENO" and RShP-48 "Kalugareputmash" at processing of thermo-strengthened rails.

**45m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
180	105	90	ZK 20 T BF	4770	6.146	2

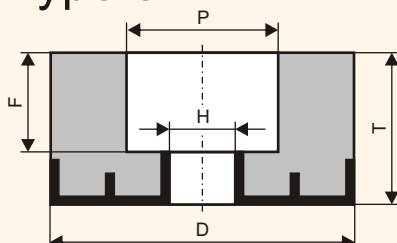
**50m/s**

D, mm	T, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
250	75	150	ZK 16 T BF	3850	7.698	2

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 5



For high-performance processing of thermo-strengthened rails.

**50m/s**

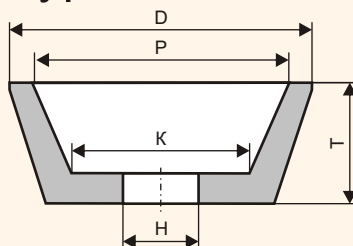
D, mm	T, mm	H, mm	P, mm	F, mm	Characteristic	Working speed, RPM	Weight, kg	
150	55	M20	70	37	ZK 16 Q B	6400	2.626	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## STEEL

### Type 11



For high-performance grinding and smoothing of details and constructions made of different types of steel.



**32m/s**

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
125	50	22.23	88	56	A 20 Q B	4900	0.868	12
125	50	32	88	56	A 40 P B	4900	0.828	12

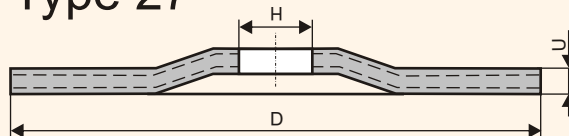
**40m/s**

D, mm	T, mm	H, mm	P, mm	K, mm	Characteristic	Working speed, RPM	Weight, kg	
110	55	22.23	70	48	A 20 Q B	6950	0.798	12
125	50	M14	75	55	A 16 Q B	6150	1.019	12

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 27



For processing of rail web.



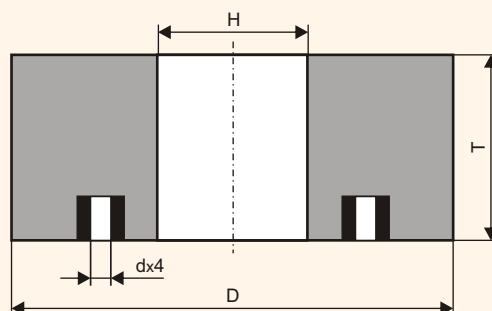
**80m/s**

D, mm	U, mm	H, mm	Characteristic	Working speed, RPM	Weight, kg	
230	6	22.23	A 24 R BF	6650	0.581	20
230	8	22.23	A 24 R BF	6650	0.774	16
230	10	22.23	A 24 R BF	6650	0.968	14

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 36



For equipping of rail-grinding machines SChR and SChR-A “Kalugaremputmash” at processing of street railway tracks.

**40m/s**

D, mm	T, mm	H, mm	d	Characteristic	Working speed, RPM	Weight, kg	
150	73	56	M6; M8	A 36 Q B	5100	2.811	4

**50m/s**

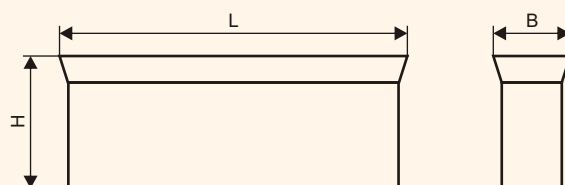
D, mm	T, mm	H, mm	d	Characteristic	Working speed, RPM	Weight, kg	
150	63	51	M6	A 36 P B	6400	2.630	4
150	63	51	M8	A 36 P B	6400	2.630	4
150	73	56	M8	A 16 Q B	6400	2.908	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Segments

## STEEL

### Type 9S



For equipping of rail-grinding trains RShP-112 at processing of thermo-strengthened rails.

B, mm	H, mm	L, mm	Characteristic	Weight, kg	
86	150	394	A 16 Q B	10.507	48

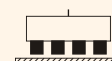
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## SEGMENTS


### STEEL Type SP



Intended for flat grinding the details and constructions made of different types of steels.

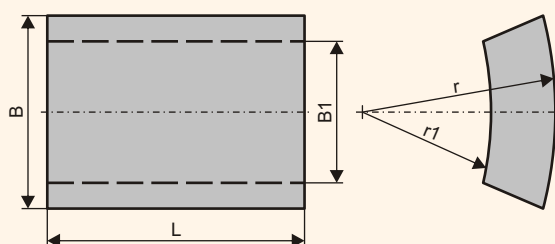


Characteristic	
Material	A; WA
Grit	F60-F24
Hardness	I-Q

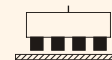
B, mm	H, mm	L, mm	Weight, kg	
60	25	125	0.427	12
80	25	160	0.711	10
90	36	150	1.079	8
100	40	200	1.777	6
120	36	150	1.439	6

The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.


### STEEL Type 1S



Intended for flat grinding the details and constructions made of different types of steels.



Characteristic	
Material	A
Grit	F90-F36
Hardness	J-Q

B, mm	B1, mm	L, mm	r, mm	r1, mm	Weight, kg	
150	110	200	300	250	3240	2

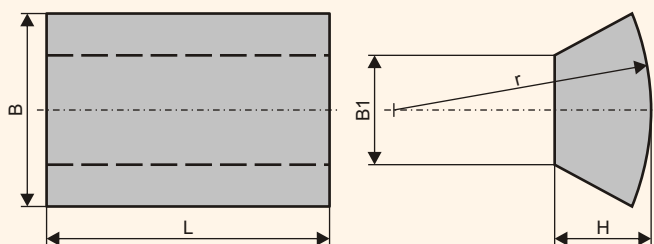
The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.





## STEEL

### Type 3S



Intended for flat grinding the details and constructions made of different types of steels.



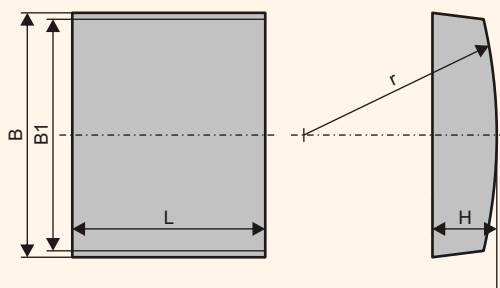
Characteristic	
Material	A
Grit	F40-F16
Hardness	M-P

B, mm	H, mm	L, mm	B1, mm	r, mm	Weight, kg	
150	75	220	85	200	3.962	2
380	240	100	210	500	16.411	1

The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 4S



Intended for flat grinding the details and constructions made of different types of steels.



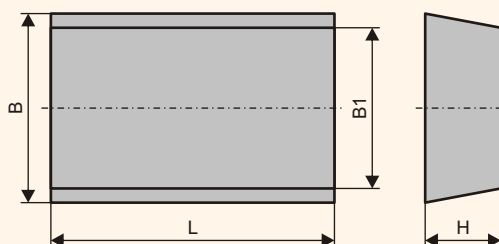
Characteristic	
Material	A
Grit	F40-F24
Hardness	K-Q

B, mm	H, mm	L, mm	B1, mm	r, mm	Weight, kg	
100	40	150	80	220	1.220	2
190	50	150	180	400	2.983	2

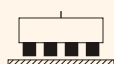
The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 5S



Intended for flat grinding the details and constructions made of different types of steels.



Characteristic	
Material	A; WA
Grit	F120-F16
Hardness	J-Q

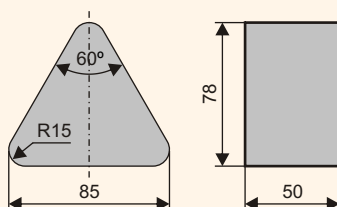
B, mm	H, mm	L, mm	B1, mm	Weight, kg	
60	16	125	50	0.250	24
60	20	125	46	0.306	24
70	25	150	64	0.546	12
100	40	150	85	1.238	8

**Novelty!**

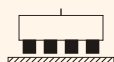
The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

## STEEL

### Type 6S



Intended for flat grinding the details and constructions made of different types of steels.



Characteristic	
Material	A
Grit	F90-F16
Hardness	K-Q
Weight, kg	0.510
	18

The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

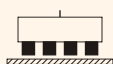


## STONE


### Type SP



Intended for flat grinding the details and constructions made of cast iron, non-ferrous metals and mineral materials.



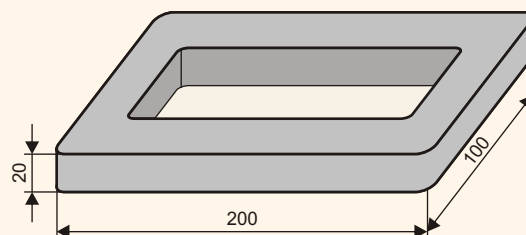
Characteristic	
Material	C
Grit	F120-F24
Hardness	J-P

B, mm	H, mm	L, mm	Weight, kg	
80	25	160	0.640	10
90	36	150	1.010	10


The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

## STONE

### Type SP - item 3



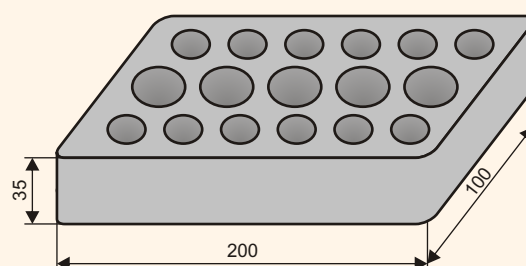
Intended for hand processing of concrete surfaces, artificial and natural stone.

Characteristic	
Material	C
Grit	F16
Weight, kg	0.600
	14


According to the wish of Customer can be completed with plastic handle.  
The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

## STONE

### Type SP - item 5



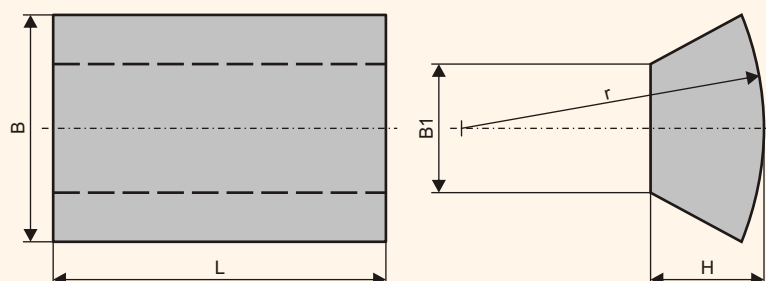
Intended for hand processing of concrete surfaces, artificial and natural stone.  
Manufacturing of segments with the handle is possible.

Characteristic	
Material	C
Grit	F40-F16
Hardness	K-M
Weight, kg	0.965
	16

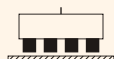
According to the wish of Customer can be completed with plastic handle.  
The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

## STONE


### Type 3S



Intended for flat grinding the details and constructions made of cast iron, non-ferrous metals and mineral materials.



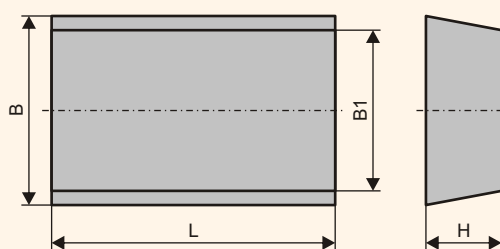
Characteristic	
Material	C
Grit	F40
Hardness	K-M

B, mm	H, mm	L, mm	B1, mm	r, mm	Weight, kg	
150	75	220	85	200	3.960	2

The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

## STONE

### Type 5S



Intended for flat grinding the details and constructions made of cast iron, non-ferrous metals and mineral materials.



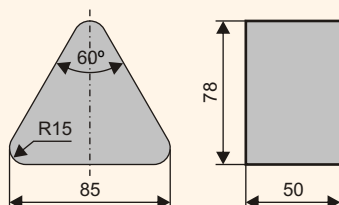
Characteristic	
Material	C
Grit	F120-F16
Hardness	J-P

B, mm	H, mm	L, mm	B1, mm	Weight, kg	
100	40	150	85	1.280	8

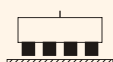
The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.


## STONE

### Type 6S



Intended for high-performance grinding of concrete and marble floors.



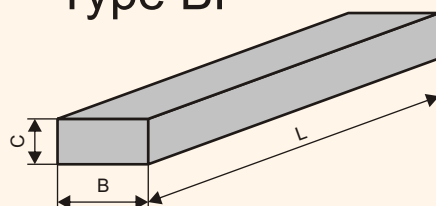
Characteristic	
Material	C
Grit	F90-F16
Hardness	K-Q
Weight, kg	0.480
	18

The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

# GRINDING STONES


## STEEL

### Type BP



Intended for flat and round outer grinding, honing the details made of different types of steels, sharpening and setting of cutting tools.

Characteristic	
Material	A; WA
Grit	F220-F40
Hardness	J-Q

B, mm	C, mm	L, mm	Weight, kg	
11	9	100	0.022	200
11	9	150	0.036	200
15	14	150	0.068	100
20	10	100	0.047	200
40	20	100	0.190	50
40	20	200	0.390	25
50	35	100	0.333	24
80	25	150	0.681	16
80	25	200	0.888	16

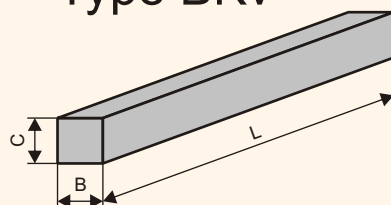
Novelty!

Novelty!  
Novelty!

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.


## STEEL

### Type BKv



Intended for flat and round outer grinding, honing the details made of different types of steels, sharpening and setting of cutting tools.

Characteristic	
Material	A; WA
Grit	F220-F40
Hardness	J-T

B, mm	C, mm	L, mm	Weight, kg	
8	8	100	0.015	250
10	10	100	0.020	210
10	10	150	0.033	210
13	13	150	0.060	100
16	16	150	0.095	100
20	20	200	0.200	50
40	40	72	0.230	50
40	40	80	0.250	50
40	40	100	0.270	25

Novelty!

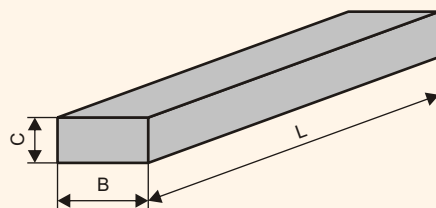
Novelty!

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.




## STONE

### Type BP



Intended for flat, round outer grinding, honing the details made of cast iron, non-ferrous metals, sharpening and setting of solid-alloy cutting tools.

Characteristic	
Material	C; GC
Grit	F220-F40
Hardness	K-P

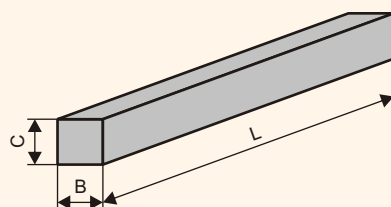
B, mm	C, mm	L, mm	Weight, kg	
15	14	150	0.060	100
32	20	200	0.255	30
40	20	200	0.280	25
50	25	150	0.430	20
50	25	200	0.570	16
80	25	200	0.750	16

**Novelty!**

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.


## STONE

### Type BKv



Intended for flat, round outer grinding, honing the details made of cast iron, non-ferrous metals, sharpening and setting of solid-alloy cutting tools.

Characteristic	
Material	C; GC
Grit	F220-F16
Hardness	J-Q

B, mm	C, mm	L, mm	Weight, kg	
13	13	125	0.044	100
13	13	150	0.050	100
16	16	150	0.077	100
40	40	100	0.320	25
40	40	200	0.624	25
50	50	200	1.100	8

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.

# CERAMIC BOND ABRASIVE TOOLS



**LUGA ABRASIV**

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# RECOMMENDATIONS ON SAFE USE OF TOOLS ON CERAMIC BOND

## Transportation and Storage

Instruments must be kept safe from the mechanical attack during transportation and in storage.

In case of ingress of moisture it is necessary to drain it off and then to check the disbalance of the wheels. If they are not dry enough than they have increased disbalance and can break during the work.

## Recommendations on Safe Use of Tools

1. The wheels must be examined before their use. There mustn't be any visual damage. To check if there is a crack on the wheel it is necessary to knock at it with the help of wooden hammer (150-200 g). If there are no cracks than you'll hear pure sound.

2. Before work it is necessary to examine wheels with the rate of trial start.

3. If wheels have been affected by the additional machining work or penetration it is necessary to test their mechanical strength before use.

4. During the work an instrument and its attachment must be covered with security facilities that are applied (protective cover, metallic shield and others).

**Don't take off the protective cover during the work.**

5. Tools on ceramic bond should not test shock load and be used for the adaptation of the intermittent area (deseaming of joint weld and so on).

6. There must be gaskets between a wheel and flanges that are used for the fixation of a wheel. These gaskets cover the pressure plate and equally overhang throughout the full circumference.

**7. The rotation speed of the wheel mustn't exceed the speed indicated on the wheel.** The RPM can be increased according to the turning of the wheel but the linear speed mustn't be exceeded.

8. Use safety spectacles, respirator from dust, gloves, and special footwear for your own protection.



Protective  
Gloves  
are required



Consider safety  
recommendations



Put on  
a respirator



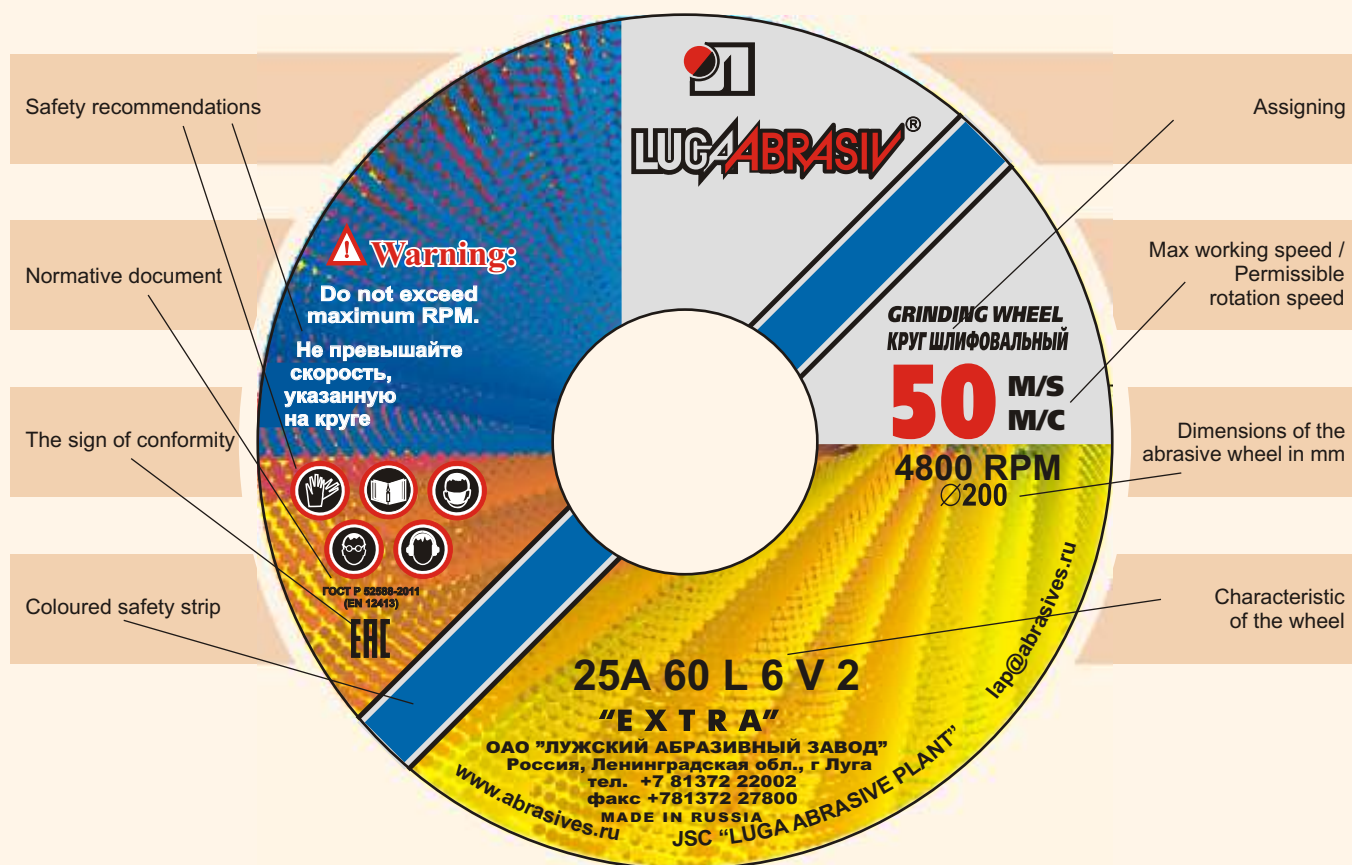
Protection of eyes  
is required



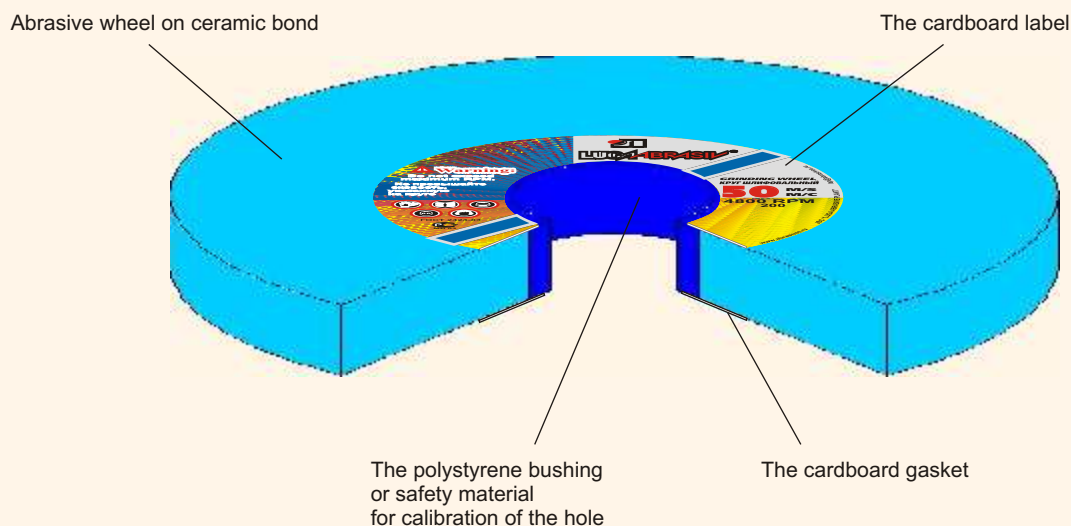
Anti-noise  
Protection  
is required

Safety precautions under the GOST R 52588-2011 (EN 12413)

## NOTATIONS ON TOOLS ON CERAMIC BOND

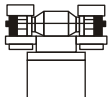
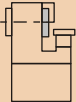


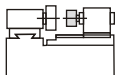

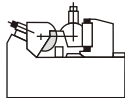
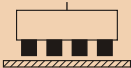


## CONSTRUCTION





# MACHINES ICONS

ICON	TYPE OF THE MACHINE
	Rough-grinding machine
	Frontal Rough-grinding machine
	Pedestal grinder
	Surface-grinding machine with long table and horizontal spindle of a grinding wheel
	Internal grinder
	Round-grinding machine
	Centerless grinding machine
	Surface-grinding machine with vertical spindle

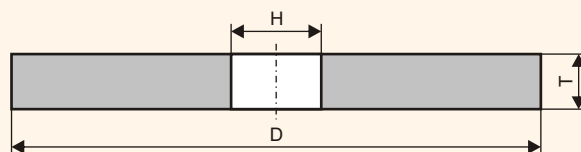
## Warning:

Ceramic wheels of all types are produced with the working speed **35m/s (not 50m/s)** if the are characterized by at least one of the following parameters:

- grit 63 and more;
- hardness M2 and lower;
- structure 8 and more.

# GRINDING WHEELS OF A DIRECT PROFILE

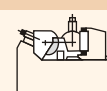
## Type 1



**Novelty!**


For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic	
Material	A
Grit	F90-F36
Hardness	K-R
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2



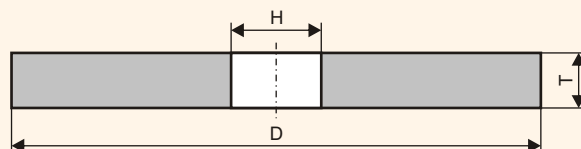
**A**

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
16	16	6	59700	0.006	384
20	20	6	47800	0.013	144
20	25	6	47800	0.016	144
25	20	6	38500	0.021	125
32	20	10	30000	0.033	80
32	32	10	30000	0.053	48
32	40	10	30000	0.066	32
40	25	10	23900	0.067	36
40	32	13	23900	0.082	27
40	40	13; 16	23900	0.102	18
50	20	20	19500	0.075	100
50	25	16	19500	0.100	75
50	32	16	19500	0.128	50
50	50	16	19500	0.200	48
60	20	20	15920	0.114	64
63	13	20	15200	0.083	99
63	20	20	15200	0.127	50
63	50	20	15200	0.318	27
65	13	8	14600	0.096	99
80	16	20	12000	0.166	45
80	20	20	12000	0.207	20
80	25	20	12000	0.259	27
80	32	20	12000	0.332	27

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1



**Novelty!**


For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic	
Material	A
Grit	F90-F36
Hardness	K-R
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2



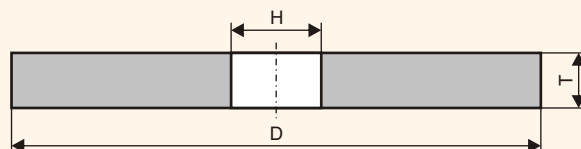
**A**

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
80	40	20	12000	0.415	8
80	63	20	12000	0.654	4
100	16	20	9550	0.269	40
100	20	20	9550	0.343	32
100	63	20	9550	1.046	8
125	16	12.7; 20	7650	0.440	32
125	20	20; 32	7650	0.510	24
125	25	32	7650	0.640	24
125	32	32	7650	0.820	16
125	50	32	7650	1.300	16
125	100	51	7650	2.251	2
150	16	12.7; 20; 32	6400	0.640	20
150	20	12.7; 20; 32	6400	0.780	16
150	25	32	6400	0.940	12
150	32	32	6400	1.210	8
150	50	32	6400	1.890	8
175	16	32	5450	0.850	14
175	20	20; 32	5450	1.070	12
175	25	32	5450	1.310	10
175	32	32	5450	1.670	8
175	40	32	5450	2.026	6
200	16	32	4800	1.100	10
200	20	32; 76	4800	1.410	8
200	25	32; 76	4800	1.730	6
200	32	32; 76	4800	2.210	4
200	40	32; 76	4800	2.810	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1



**Novelty!**


For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic	
Material	A
Grit	F90-F36
Hardness	K-R
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2



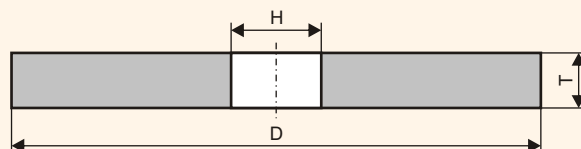
**A**

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
200	50	32	4800	3.666	4
250	20	32; 76	3850	2.180	6
250	25	32; 76	3850	2.730	6
250	32	32; 76	3850	3.490	4
250	40	32; 76; 127	3850	4.360	4
250	50	32; 76; 127	3850	4.953	4
250	60	127	3850	5.020	2
250	80	127	3850	6.412	2
250	100	127	3850	8.260	2
300	25	32; 76	3200	3.950	3
300	32	32; 76; 127	3200	5.060	2
300	40	32; 76; 127	3200	6.320	2
300	50	127	3200	6.441	2
300	63	76	3200	9.580	1
300	100	127	3200	13.160	1
300	125	127	3200	16.450	1
300	150	127	3200	19.153	1
350	25	127	2750	4.740	3
350	32	76; 127	2750	6.660	2
350	40	76; 127; 203	2750	8.320	2
350	50	203	2750	7.240	2
350	63	127	2750	12.100	1
350	80	127	2750	15.360	1
350	100	127; 203	2750	18.950	1
350	150	203	2750	22.210	1
400	32	127; 203	2400	8.200	2

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

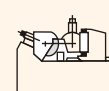
# Type 1



**Novelty!**


For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic	
Material	A
Grit	F90-F36
Hardness	K-R
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2



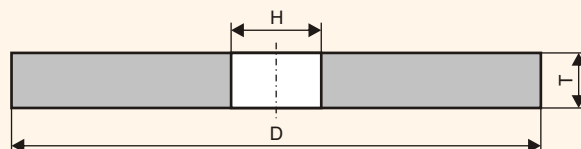
**A**

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
400	40	127; 203	2400	10.400	2
400	50	127; 203	2400	13.000	1
400	63	127; 203	2400	16.150	1
400	80	203	2400	16.930	1
400	100	203	2400	20.533	1
400	150	203	2400	31.750	1
450	40	127; 203	2150	13.280	1
450	50	127; 203	2150	18.360	1
450	63	127; 203; 305	2150	20.920	1
450	80	203	2150	23.000	1
450	150	127	2150	52.670	1
500	40	203; 305	1950	14.880	1
500	45	305	1950	12.590	1
500	50	203; 305	1950	18.600	1
500	55	203	1950	20.460	1
500	60	305	1950	16.780	1
500	63	203; 305	1950	23.440	1
500	80	305	1950	22.380	1
500	100	305	1950	27.970	1
500	105	305	1950	29.117	1
500	125	305	1950	34.970	1
500	150	305	1950	41.960	1
500	200	305	1950	55.940	1
600	50	305	1600	23.790	1
600	55	305	1600	26.170	1
600	63	203; 305	1600	35.790	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1



**Novelty!**


For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic	
Material	A
Grit	F90-F36
Hardness	K-R
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2



**A**

**50m/s**

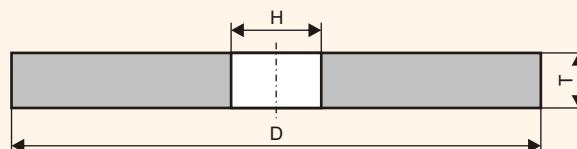
D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
600	75	305	1600	35.680	1
600	80	305	1600	38.060	1
600	100	305	1600	47.570	1
600	125	305	1600	59.470	1
600	150	305	1600	71.360	1
600	200	305	1600	95.150	1
750	80	305	1300	70.760	1
900	100	305	1100	131.026	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.





# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



**WA**

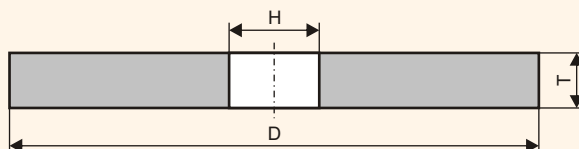
**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
16	10	6	59700	0.004	640
16	16	6	59700	0.006	384
16	20	6	59700	0.008	320
16	25	6	59700	0.010	256
16	32	6	59700	0.013	192
16	40	6	59700	0.016	128
17	25	6	56200	0.011	196
18	20	6	53000	0.010	245
20	5	6	47800	0.003	576
20	6	6	47800	0.004	504
20	10	6	47800	0.006	288
20	13	6	47800	0.008	216
20	16	6	47800	0.010	180
20	18	6	47800	0.012	180
20	20	6	47800	0.013	144
20	25	6; 8	47800	0.016	144
20	32	6	47800	0.021	108
20	40	6	47800	0.026	72
25	10	6	38500	0.010	250
25	13	6	38500	0.014	150
25	16	6	38500	0.017	125
25	20	6; 8; 10	38500	0.021	125
25	25	6; 10	38500	0.027	100
25	32	6; 10	38500	0.034	75
25	40	6; 8	38500	0.042	50
25	50	10; 13	38500	0.050	50

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



**WA**

**50m/s**

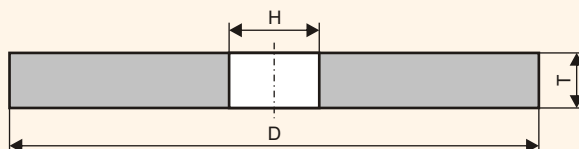
D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
32	8	10	30000	0.013	208
32	10	6; 10	30000	0.018	160
32	16	10	30000	0.026	96
32	20	6; 10	30000	0.035	80
32	25	10; 13	30000	0.041	64
32	32	6; 10	30000	0.056	48
32	40	6; 10	30000	0.070	32
35	10	6	27290	0.021	72
35	16	10	27290	0.032	54
35	20	10	27290	0.039	45
35	25	10	27290	0.050	36
35	32	10	27290	0.064	27
35	40	10	27290	0.080	18
35	50	16	27290	0.083	72
40	6	10	23900	0.016	126
40	7	13	23900	0.018	108
40	8	6; 13	23900	0.022	90
40	10	10; 13	23900	0.029	72
40	13	13	23900	0.033	54
40	16	13	23900	0.042	54
40	20	10; 13; 16; 20	23900	0.053	45
40	25	10; 13	23900	0.067	36
40	32	6; 8; 13; 16	23900	0.089	27
40	40	10; 13; 16	23900	0.105	18
40	50	13; 16	23900	0.127	18
40	63	20	23900	0.135	9

Novelty!

Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



**WA**

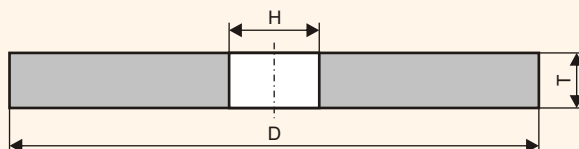
**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
45	20	16	21230	0.061	45
45	32	16	21230	0.098	27
45	40	16	21230	0.122	18
45	50	16	21230	0.153	18
50	5	10	19500	0.021	425
50	6	10; 13	19500	0.026	350
50	8	13	19500	0.032	250
50	10	6	19500	0.043	200
50	10	13; 16; 20	19500	0.041	200
50	13	13; 16	19500	0.054	150
50	16	16	19500	0.064	125
50	20	16; 20	19500	0.080	100
50	25	13; 16	19500	0.104	75
50	32	16	19500	0.128	50
50	40	13; 16; 20	19500	0.166	50
50	50	13; 16	19500	0.208	48
50	63	16	19500	0.252	25
52	15	13	18300	0.067	80
55	20	16	17300	0.096	64
55	32	16	17300	0.153	48
57	50	20	16700	0.246	27
60	10	20	15920	0.057	144
60	20	20	15920	0.114	64
63	6	10; 20	15200	0.041	234
63	8	20	15200	0.051	180
63	10	10; 20	15200	0.070	100

Novelty!  
Novelty!  
Novelty!  
Novelty!

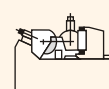
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



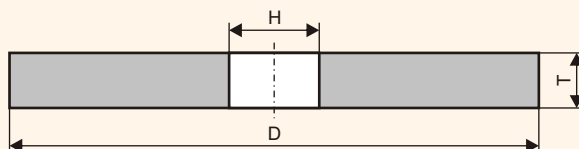
## WA

## 50m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
63	13	20	15200	0.084	99
63	16	20	15200	0.102	81
63	20	20	15200	0.130	50
63	25	20	15200	0.160	54
63	32	20	15200	0.204	30
63	40	20	15200	0.254	27
63	50	20	15200	0.318	27
63	63	20	15200	0.401	18
65	13	8	14600	0.096	99
70	7	17	13650	0.058	84
70	8	7	13650	0.069	76
70	10	10	13650	0.087	64
70	25	13	13650	0.205	24
70	32	20	13650	0.249	20
70	40	20	13650	0.311	16
70	70	20	13650	0.544	8
75	40	20	12740	0.361	16
80	4	20	12000	0.045	100
80	5	20	12000	0.055	80
80	6	10	12000	0.067	60
80	8	20	12000	0.083	40
80	10	20; 32	12000	0.106	40
80	13	20; 32	12000	0.135	63
80	16	20	12000	0.169	45
80	20	20; 32	12000	0.212	20
80	25	20	12000	0.259	27

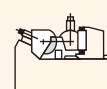
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



**WA**

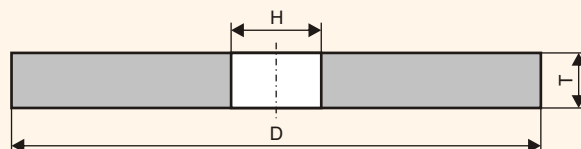
**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
80	32	20	12000	0.332	27
80	40	20	12000	0.415	8
80	50	20	12000	0.535	18
80	63	20; 32	12000	0.674	4
80	80	20	12000	0.855	9
80	100	20	12000	1.090	4
90	32	20	10610	0.416	16
90	40	20	10610	0.520	12
90	50	20	10610	0.665	12
100	4	20; 32	9550	0.072	160
100	6	20; 32	9550	0.105	96
100	8	20; 32; 40	9550	0.137	80
100	10	20; 32	9550	0.171	64
100	13	20; 32	9550	0.223	48
100	16	20; 32	9550	0.274	40
100	20	20; 32	9550	0.343	32
100	25	20; 32	9550	0.429	24
100	32	20; 32	9550	0.537	16
100	40	20; 32	9550	0.671	16
100	50	20; 32	9550	0.839	16
100	63	20; 32	9550	1.078	8
100	80	20; 32	9550	1.370	8
100	100	20	9550	1.711	8
108	16	45	8800	0.267	20
110	8	51	8680	0.131	40
110	35	20	8680	0.705	8

**Novelty!**

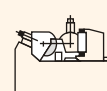
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



## WA

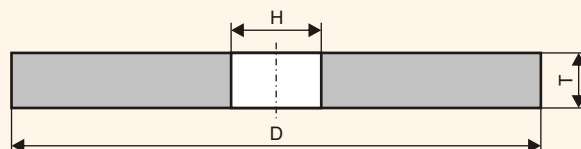
## 50m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
110	40	20	8680	0.651	8
110	50	20	8680	1.011	8
110	75	32	8680	1.436	8
120	4	20	7900	0.103	20
125	4	32	7650	0.110	41
125	5	32	7650	0.140	120
125	6	32	7650	0.160	80
125	8	32	7650	0.210	64
125	10	20; 32	7650	0.260	64
125	13	20; 32	7650	0.340	40
125	16	12.7; 20; 32	7650	0.440	32
125	20	12.7; 20; 32; 60	7650	0.550	24
125	25	20; 32	7650	0.670	24
125	32	32	7650	0.830	16
125	40	32	7650	1.020	8
125	50	20; 32	7650	1.300	16
125	63	32	7650	1.640	8
125	100	32	7650	2.600	2
130	50	65	7300	1.095	3
140	63	65	6800	1.674	2
140	75	32	6800	2.409	2
150	3	32	6400	0.120	34
150	4	32	6400	0.160	60
150	5	32	6400	0.200	60
150	6	20; 32; 51	6400	0.240	40
150	8	32; 51	6400	0.310	36

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



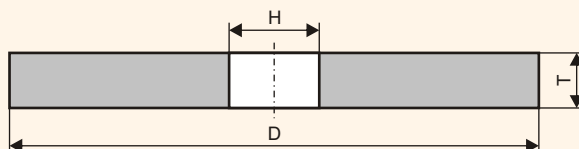
**WA**

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
150	10	20; 32; 51	6400	0.390	28
150	13	32; 51	6400	0.500	20
150	16	12.7; 20; 32; 51	6400	0.640	20
150	20	12.7; 20; 32; 51	6400	0.800	16
150	25	32; 51	6400	0.970	12
150	32	32	6400	1.240	8
150	40	32	6400	1.540	8
150	50	32; 51	6400	1.890	8
150	63	51; 65	6400	2.280	4
150	80	32; 51	6400	3.060	4
150	100	32; 51	6400	3.830	4
175	4	32	5450	0.220	60
175	5	32	5450	0.280	50
175	6	32	5450	0.320	38
175	8	32	5450	0.430	28
175	10	32	5450	0.530	22
175	13	32	5450	0.690	20
175	16	32	5450	0.850	14
175	20	32; 51	5450	1.070	12
175	25	32	5450	1.330	10
175	32	32	5450	1.710	8
175	40	32	5450	2.140	6
175	50	32; 76	5450	2.640	6
200	4	32	4800	0.280	19
200	5	32	4800	0.350	16
200	6	32; 76	4800	0.430	26

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



**WA**

**50m/s**

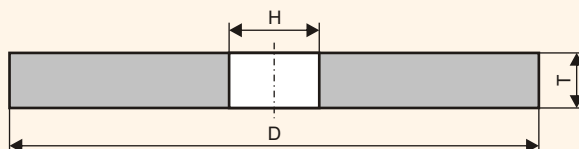
D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
200	8	32; 51; 76	4800	0.560	18
200	10	32; 51; 76	4800	0.700	16
200	13	32; 51; 76	4800	0.920	12
200	16	32; 51; 76	4800	1.130	10
200	20	16; 20; 32; 51; 76	4800	1.420	8
200	25	32; 51; 76	4800	1.760	6
200	32	16; 32; 76	4800	2.260	4
200	40	32; 76; 127	4800	2.780	4
200	50	32; 76	4800	3.050	4
200	51.5	76	4800	3.047	2
200	63	32; 51; 76	4800	4.470	2
200	80	76	4800	4.880	2
200	100	76	4800	5.916	1
225	5	60	4250	0.410	30
225	6	60	4250	0.530	20
225	10	60	4250	0.890	9
230	8	32	4200	0.780	18
230	10	32	4200	0.970	14
230	32	32	4200	3.079	3
250	4	76	3850	0.410	10
250	5	32; 76	3850	0.580	12
250	6	32; 76; 127	3850	0.670	12
250	8	32; 76; 127	3850	0.890	14
250	10	32; 51; 76; 127	3850	1.110	10
250	13	32; 51; 76	3850	1.450	8
250	16	25.4; 32; 76; 127	3850	1.760	8

Novelty!

Novelty!

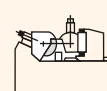
Завод принимает заказы на изготовление кругов с размерами и характеристиками, не указанными в данной таблице.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



## WA

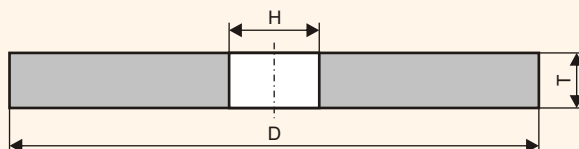
## 50m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
250	20	32; 76	3850	2.230	6
250	25	25.4; 32; 51; 76; 127	3850	2.790	6
250	30	76	3850	3.030	4
250	32	32; 76; 127	3850	3.570	4
250	40	25.4; 32; 76; 127	3850	4.360	4
250	50	76; 127	3850	5.050	4
250	63	32; 76 ;127	3850	6.370	2
250	70	76	3850	6.864	2
250	80	32; 76; 127	3850	8.760	2
250	100	76; 127	3850	10.110	2
250	125	127	3850	10.330	1
300	6	32; 76; 127	3200	0.910	12
300	8	32; 76; 127	3200	1.290	9
300	9	127	3200	1.175	7
300	10	32; 76; 127	3200	1.670	7
300	13	32; 76; 127	3200	2.170	3
300	16	76; 127	3200	2.450	3
300	20	32; 76; 127	3200	3.160	4
300	25	32; 76; 127	3200	3.950	3
300	30	127	3200	4.000	3
300	32	32; 76; 127	3200	5.060	2
300	40	32; 76; 127	3200	6.320	2
300	50	76; 127	3200	7.500	2
300	60	150	3200	7.220	1
300	63	76; 127	3200	9.580	1
300	80	76; 127	3200	12.010	1

Novelty!

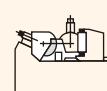
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



## WA

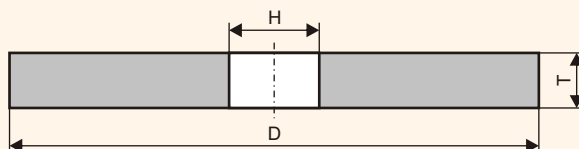
## 50m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
300	100	76; 127; 203	3200	15.340	1
300	125	76; 127	3200	19.170	1
300	150	127	3200	20.250	1
300	160	127	3200	21.060	1
350	8	127; 160	2750	1.550	9
350	10	127; 203	2750	1.940	7
350	13	127	2750	2.520	5
350	16	127	2750	3.100	4
350	20	76; 127; 203	2750	4.160	4
350	25	76; 127	2750	5.200	3
350	30	127	2750	5.810	2
350	32	76; 127; 203	2750	6.660	2
350	40	76; 127; 203	2750	8.500	2
350	50	127; 203	2750	9.480	2
350	63	127; 203	2750	11.940	1
350	80	127; 203	2750	15.160	1
350	84	160	2750	14.214	1
350	100	127; 203	2750	19.370	1
350	104	160	2750	17.599	1
350	150	127; 203	2750	28.430	1
400	6	203	2400	1.300	6
400	8	203	2400	1.730	7
400	10	127; 203	2400	2.710	6
400	12	127; 203	2400	2.518	6
400	13	127; 203	2400	3.410	6
400	16	127; 203	2400	4.190	5

Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



**WA**

**50m/s**

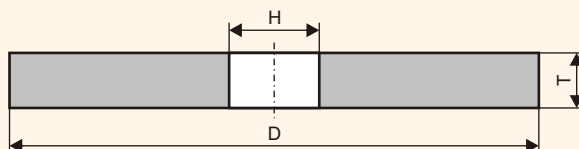
D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
400	20	127; 203	2400	5.240	3
400	25	127; 203	2400	6.410	2
400	28	203	2400	5.428	2
400	32	76; 127; 203	2400	8.790	2
400	40	76; 127; 203	2400	10.990	2
400	50	127; 203	2400	12.820	1
400	55	127	2400	13.677	1
400	60	76	2400	16.850	1
400	63	127; 203	2400	16.150	1
400	80	127; 203	2400	20.510	1
400	100	127; 203	2400	25.640	1
400	105	203	2400	21.559	1
400	125	203	2400	27.040	1
400	150	203	2400	32.450	1
400	160	203	2400	33.870	1
400	200	203	2400	41.066	1
450	8	127	2150	2.491	4
450	10	203	2150	2.849	4
450	16	203	2150	4.765	2
450	20	127; 203	2150	7.020	2
450	25	127; 203	2150	8.300	2
450	30	127	2150	10.840	2
450	32	127; 203	2150	10.630	1
450	40	127; 203	2150	13.280	1
450	45	203	2150	13.100	1
450	50	127; 203	2150	16.820	1

Novelty!

Novelty!  
Novelty!

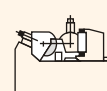
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



**WA**

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
450	63	127; 203; 305	2150	20.920	1
450	80	127; 203; 305	2150	23.500	1
450	100	203	2150	28.740	1
450	110	305	2150	20.632	1
450	150	127	2150	49.820	1
455	100	228.7	2150	27.333	1
500	10	170; 254; 305	1950	2.960	4
500	13	203; 305	1950	5.110	3
500	14	305	1950	4.016	2
500	15	305	1950	4.440	2
500	16	203; 305	1950	6.080	2
500	20	203; 305	1950	7.610	2
500	25	203; 305	1950	9.830	2
500	28	305	1950	8.280	1
500	30	305	1950	8.390	1
500	32	203; 305	1950	11.910	1
500	40	203; 305	1950	15.210	1
500	50	203; 305	1950	19.010	1
500	56	203	1950	16.131	1
500	63	203; 305	1950	23.440	1
500	75	305	1950	20.980	1
500	80	203; 305	1950	29.760	1
500	100	203; 305	1950	37.210	1
500	125	305	1950	35.740	1
500	150	203; 305	1950	55.810	1
500	160	305	1950	46.899	1

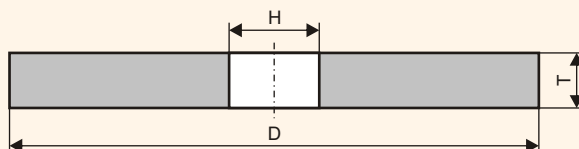
Novelty!

Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



**WA**

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
500	180	305	1950	49.343	1
500	200	305	1950	57.180	1
600	10	305	1600	5.030	3
600	13	305	1600	6.540	3
600	15	203	1600	8.739	3
600	16	305	1600	8.050	3
600	18	305	1600	9.050	2
600	20	305	1600	9.720	2
600	22	305	1600	11.070	2
600	25	305	1600	12.160	2
600	28	305	1600	14.080	1
600	29	305	1600	14.294	1
600	30	305	1600	15.090	1
600	32	203; 305	1600	19.220	1
600	34	305	1600	17.100	1
600	35	305	1600	16.151	1
600	40	203; 305	1600	22.720	1
600	43	305	1600	19.843	1
600	45	305	1600	21.410	1
600	50	203; 305	1600	29.030	1
600	55	305	1600	26.170	1
600	63	203; 305	1600	35.790	1
600	70	250	1600	36.000	1
600	75	305	1600	35.680	1
600	80	203; 305	1600	45.450	1
600	86	305	1600	40.095	1

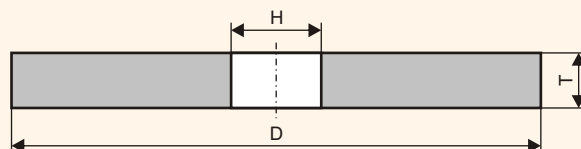
Novelty!

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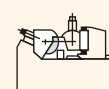
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



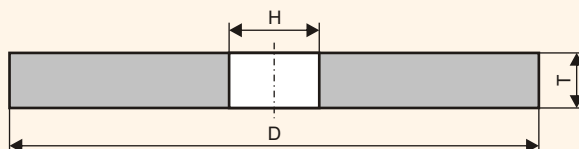
## WA

## 50m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
600	100	305	1600	47.570	1
600	125	305	1600	60.780	1
600	136	305	1600	63.406	1
600	140	305	1600	65.271	1
600	150	305	1600	72.930	1
600	180	305	1600	85.630	1
600	200	305	1600	95.150	1
750	15	305	1300	14.287	2
750	16	305	1300	13.727	2
750	20	203; 305	1300	17.159	2
750	22	305	1300	19.460	1
750	25	203; 305	1300	21.449	1
750	28	305	1300	24.770	1
750	32	203; 305	1300	27.455	1
750	33	305	1300	31.380	1
750	35	305	1300	30.960	1
750	40	203; 305	1300	39.280	1
750	50	305	1300	42.898	1
750	60	305	1300	46.425	1
750	63	305	1300	54.051	1
750	75	305	1300	66.340	1
750	80	305	1300	68.636	1
750	90	305	1300	77.216	1
750	100	305	1300	85.796	1
750	113	305	1300	99.950	1
750	125	305	1300	110.560	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



**WA**

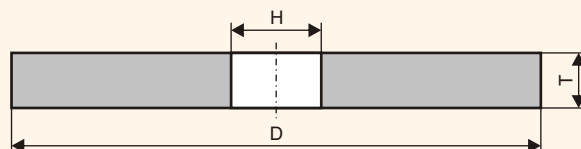
**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
750	130	305	1300	114.980	1
750	150	305	1300	132.670	1
750	175	305	1300	150.020	1
900	19	305	1100	25.660	1
900	20	305	1100	26.120	1
900	22	203; 305	1100	31.860	1
900	24	305	1100	32.420	1
900	25	305	1100	33.770	1
900	26	305	1100	35.120	1
900	27	305	1100	36.470	1
900	28	305	1100	37.820	1
900	29	305	1100	39.170	1
900	30	305	1100	40.520	1
900	31	305	1100	41.870	1
900	32	305	1100	43.220	1
900	33	305; 350	1100	44.580	1
900	34	305	1100	45.930	1
900	35	305	1100	47.280	1
900	36	305	1100	48.630	1
900	38	203; 305	1100	55.040	1
900	39	305	1100	51.630	1
900	40	305	1100	54.030	1
900	40.5	305	1100	53.066	1
900	43	305	1100	58.080	1
900	45	305	1100	60.790	1
900	48	305	1100	64.840	1

**Novelty!**

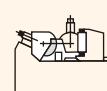
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



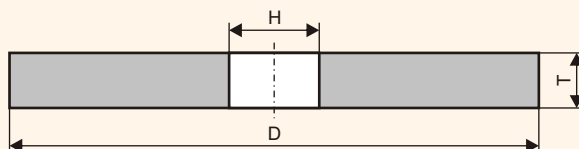
**WA**

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
900	50	305	1100	67.540	1
900	52	305	1100	70.240	1
900	55	305	1100	72.807	1
900	56	305	1100	75.640	1
900	58	305	1100	78.350	1
900	61	305	1100	82.400	1
900	63	305	1100	85.100	1
900	64	305	1100	86.450	1
900	75	305	1100	99.280	1
900	78	305	1100	105.360	1
900	80	305	1100	108.060	1
900	84	305	1100	113.470	1
900	90	305	1100	121.570	1
900	100	305	1100	131.026	1
1060	22	305	910	41.434	1
1060	25	305	910	47.570	1
1060	28	305	910	54.360	1
1060	29	305	910	56.310	1
1060	32	305	910	62.130	1
1060	33	305	910	64.070	1
1060	37	305	910	70.400	1
1060	40	305	910	77.660	1
1060	50	305	910	97.080	1
1060	52	305	910	100.960	1
1060	55	305	910	106.790	1
1060	56	305	910	108.730	1

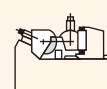
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions of different kinds of steels and also for cutting tools sharpening made of high speed steels.

Characteristic		
Material	WA	
Grit	F230-F36	F30-F16
Hardness	J-S	O-S
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



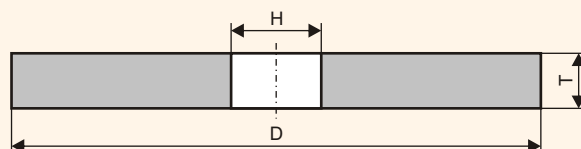
**WA**

**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
1060	58	305	910	112.610	1
1060	63	305	910	122.320	1
1060	65	305	910	126.200	1
1060	72	305	910	139.800	1
1060	78	305	910	151.450	1
1060	80	305	910	150.668	1
1060	85	305	910	165.040	1
1060	86	305	910	166.980	1
1060	90	305	910	174.740	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, sharpening of solid-alloy cutting tools, for dressing of grinding wheels.

Characteristic	
Material	C; GC
Grit	F230-F20
Hardness	H-R
Structure	0-8
Accuracy class	AA; A
Unbalance class	1; 2



**35m/s**

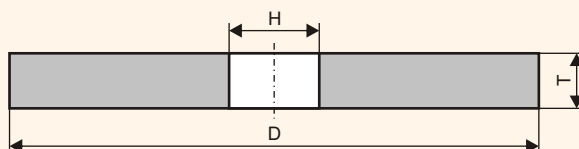
D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
16	3.2	6	41800	0.001	400
16	16	6	41800	0.006	384
16	20	6	41800	0.007	320
16	25	6	41800	0.009	256
20	16	6	33500	0.009	180
20	20	6	33500	0.011	144
20	25	6	33500	0.014	144
20	32	6; 8	33500	0.018	108
25	10	6	26800	0.009	250
25	25	6	26800	0.023	100
25	32	6	26800	0.030	75
32	20	10	20900	0.029	80
32	25	10	20900	0.036	64
32	32	10	20900	0.046	48
32	40	10	20900	0.058	32
35	32	10	19500	0.056	27
40	3	6	16750	0.008	252
40	10	8	16750	0.024	72
40	16	13	16750	0.036	54
40	20	16; 20	16750	0.042	45
40	25	13	16750	0.070	36
40	30	10	16750	0.071	27
40	32	13; 16	16750	0.072	27
40	40	13; 16	16750	0.090	18
50	4.5	10	13400	0.017	475
50	5	10	13400	0.019	425

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# Type 1




For all types of grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, sharpening of solid-alloy cutting tools, for dressing of grinding wheels.

Characteristic	
Material	C; GC
Grit	F230-F20
Hardness	H-R
Structure	0-8
Accuracy class	AA; A
Unbalance class	1; 2



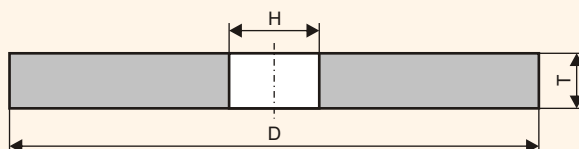
**35m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
50	10	13	13400	0.037	200
50	20	13; 16; 20	13400	0.073	100
50	25	16	13400	0.088	75
50	32	13	13400	0.117	50
50	40	16; 20	13400	0.141	50
50	50	16	13400	0.175	48
56	40	20	11940	0.202	32
60	10	20	11140	0.050	144
60	20	20	11140	0.100	64
63	5	6	10650	0.029	234
63	10	20	10650	0.055	100
63	13	20	10650	0.073	99
63	16	20	10650	0.090	81
63	20	20	10650	0.112	50
63	32	20	10650	0.179	30
63	50	20	10650	0.280	27
75	25	12.7	9550	0.059	60
80	10	20	8400	0.093	40
80	16	20	8400	0.146	45
80	20	20	8400	0.187	20
80	22	20	8400	0.207	36
80	32	20	8400	0.293	27
80	40	20	8400	0.366	8
80	50	20	8400	0.471	18

**Novelty!**

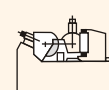
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, sharpening of solid-alloy cutting tools, for dressing of grinding wheels.

Characteristic	
Material	C; GC
Grit	F230-F20
Hardness	H-R
Structure	0-8
Accuracy class	AA; A
Unbalance class	1; 2

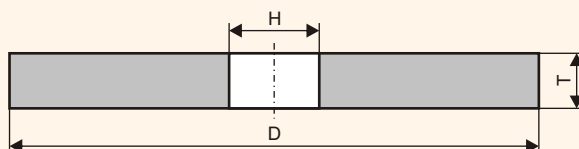


## 35m/s

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
80	63	20	8400	0.593	4
80	100	20	8400	0.913	4
100	6	32	6700	0.085	96
100	10	20; 32	6700	0.149	64
100	13	20	6700	0.192	48
100	16	20; 32	6700	0.237	40
100	20	20; 32	6700	0.298	32
100	25	20	6700	0.370	24
100	32	20	6700	0.474	16
100	40	20	6700	0.592	16
100	50	20	6700	0.753	16
100	80	20	6700	1.346	8
100	100	20	6700	1.507	8
125	6	32	5350	0.140	80
125	8	32	5350	0.180	64
125	10	32	5350	0.230	64
125	13	20; 32	5350	0.290	40
125	16	12.7; 20; 32	5350	0.390	32
125	20	12.7; 20; 32; 60	5350	0.490	24
125	25	20; 32	5350	0.590	16
125	32	32; 51	5350	0.720	16
125	40	32	5350	0.900	8
125	50	32	5350	1.150	8
135	50	51	4950	1.220	3
150	6	32	4500	0.201	40
150	8	32	4500	0.270	36

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, sharpening of solid-alloy cutting tools, for dressing of grinding wheels.

Characteristic	
Material	C; GC
Grit	F230-F20
Hardness	H-R
Structure	0-8
Accuracy class	AA; A
Unbalance class	1; 2

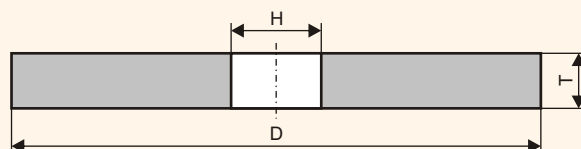


**35m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
150	10	20; 32	4500	0.340	28
150	13	32	4500	0.430	20
150	16	12.7; 32	4500	0.560	20
150	20	12.7; 20; 32	4500	0.700	16
150	25	32; 76	4500	0.830	12
150	32	32; 51	4500	1.070	8
150	40	32	4500	1.330	8
150	50	32	4500	1.690	8
150	63	51	4500	1.970	4
175	6	32	3810	0.269	38
175	8	32	3810	0.370	28
175	10	32	3810	0.460	22
175	13	32	3810	0.600	20
175	16	32	3810	0.730	14
175	20	32	3810	0.920	12
175	25	32; 60	3810	1.140	10
175	32	32	3810	1.460	8
175	40	32	3810	1.840	6
200	8	32	3350	0.480	18
200	10	32; 76	3350	0.600	16
200	13	32	3350	0.790	12
200	16	32	3350	0.970	10
200	20	16; 20; 32; 51; 76	3350	1.250	8
200	25	32; 76	3350	1.520	6
200	32	32; 76	3350	1.940	4
200	40	32; 76	3350	2.430	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, sharpening of solid-alloy cutting tools, for dressing of grinding wheels.

Characteristic	
Material	C; GC
Grit	F230-F20
Hardness	H-R
Structure	0-8
Accuracy class	AA; A
Unbalance class	1; 2

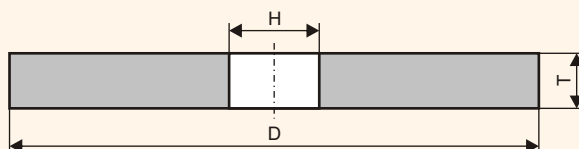


**35m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
200	63	76	3350	3.380	2
200	80	32; 76	3350	4.300	2
225	5	60	2970	0.351	30
230	20	32	2950	1.620	6
250	8	32	2700	0.780	10
250	10	32; 76	2700	0.960	10
250	13	32; 76	2700	1.240	8
250	16	32; 76	2700	1.540	8
250	20	32; 76	2700	1.920	6
250	25	32; 76	2700	2.400	6
250	32	32; 76	2700	3.070	4
250	40	32; 76; 127	2700	3.840	4
250	50	76; 127	2700	4.580	4
250	63	76	2700	6.262	2
250	80	127	2700	5.809	2
250	100	127	2700	7.490	2
300	10	32; 76; 127	2250	1.390	7
300	13	76; 127	2250	1.710	3
300	16	76; 127	2250	2.100	3
300	20	32; 76; 127	2250	2.870	4
300	25	32; 76; 127	2250	3.580	3
300	30	32	2250	4.390	3
300	32	32; 76; 127	2250	4.590	2
300	40	32; 76; 127	2250	5.730	2
300	50	32; 76; 127	2250	7.170	2
300	63	127	2250	7.520	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, sharpening of solid-alloy cutting tools, for dressing of grinding wheels.

Characteristic	
Material	C; GC
Grit	F230-F20
Hardness	H-R
Structure	0-8
Accuracy class	AA; A
Unbalance class	1; 2



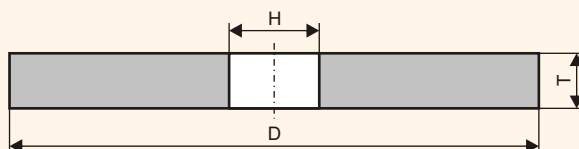
**35m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
300	100	127	2250	11.930	1
350	13	127	1950	2.160	5
350	16	127	1950	2.576	4
350	20	76; 127	1950	3.770	4
350	25	76; 127	1950	4.710	3
350	32	76; 127	1950	6.030	2
350	40	76; 127; 203	1950	7.540	2
350	50	76; 127; 203	1950	9.140	2
350	100	127; 203	1950	17.180	1
350	150	203	1950	19.096	1
400	10	203	1700	1.842	6
400	16	127	1700	3.600	5
400	20	127; 203	1700	4.490	3
400	25	127; 203	1700	5.810	2
400	32	127; 203	1700	7.440	2
400	40	76; 127; 203	1700	9.970	2
400	50	127; 203	1700	11.620	1
400	63	127; 203	1700	14.640	1
400	80	203	1700	15.350	1
400	100	203	1700	19.190	1
400	150	203	1700	28.790	1
450	20	127	1500	5.820	2
450	25	203	1500	6.114	2
450	32	127; 203	1500	9.630	1
450	40	127; 203	1500	12.040	1
450	50	127; 203	1500	15.050	1

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# Type 1




For all types of grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, sharpening of solid-alloy cutting tools, for dressing of grinding wheels.

Characteristic	
Material	C; GC
Grit	F230-F20
Hardness	H-R
Structure	0-8
Accuracy class	AA; A
Unbalance class	1; 2



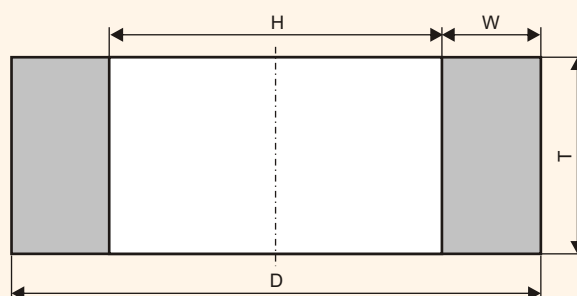
**35m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
450	63	127; 203; 305	1500	18.970	1
450	80	203	1500	20.850	1
450	100	203	1500	29.750	1
500	25	127	1350	9.156	2
500	32	203	1350	10.790	1
500	40	203	1350	12.980	1
500	50	203; 305	1350	16.870	1
500	63	203; 305	1350	21.250	1
500	80	203; 305	1350	26.980	1
500	100	203; 305	1350	32.780	1
500	125	305	1350	31.700	1
500	150	305	1350	38.040	1
600	25	305	1150	10.420	2
600	32	305	1150	13.340	1
600	40	203; 305	1150	19.820	1
600	50	203; 305	1150	26.280	1
600	63	203; 305	1150	32.450	1
600	75	305	1150	32.350	1
600	80	305	1150	34.500	1
600	100	305	1150	43.130	1
600	125	305	1150	52.263	1
600	150	305	1150	64.700	1
600	160	305	1150	69.010	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# GRINDING ANNULAR WHEELS

## Type 2




For flat grinding by a butt-end of the wheel of the details and constructions of different types of steels and also for the sharpening the cutting tools of high speed steels.

Characteristic	
Material	A; WA
Grit	F150-F20
Hardness	F-P
Structure	4-10
Accuracy class	AA; A
Unbalance class	1; 2



**32m/s**

D, mm	T, mm	H, mm	W, mm	Working speed, RPM	Weight, kg	
200	60	160	20	3100	1.494	2
200	75	125	37	3100	3.192	2
200	80	125	37	3100	3.405	2
200	90	160	20	3100	2.263	2
200	100	127	36	3100	4.260	2
200	100	160	20	3100	2.515	2
250	100	200	25	2450	3.929	2
300	100	250	25	2050	4.640	1
350	125	280	35	1750	9.839	1
450	125	380	35	1400	12.683	1

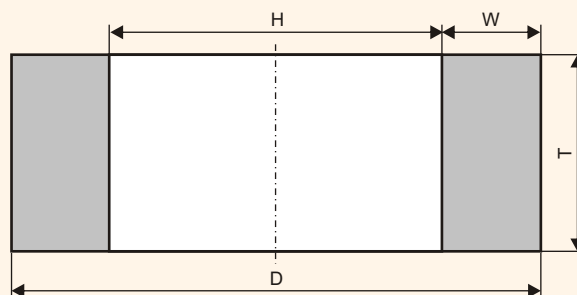
**Novelty!**

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## Type 2




For flat grinding by a butt-end of the wheel of the details and constructions of different types of steels and also for the sharpening the cutting tools of high speed steels.

Characteristic	
Material	A; WA
Grit	F150-F20
Hardness	F-P
Structure	4-10
Accuracy class	AA; A
Unbalance class	1; 2



### 35m/s

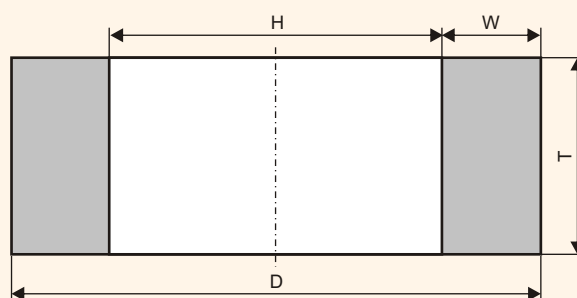
D, mm	T, mm	H, mm	W, mm	Working speed, RPM	Weight, kg	
175	11	152	11	3810	0.144	20
185	15	150	17	3610	0.370	6
200	75	125	37	3350	3.160	2
200	80	76	62	3350	4.781	2
200	80	125	37	3350	3.405	2
200	90	160	20	3350	2.263	2
200	100	127	36	3350	4.169	2
200	100	150	25	3350	3.056	2
200	100	160	20	3350	2.515	2
209	100	157.5	25.75	3350	2.672	1
250	100	200	25	3350	3.929	2
300	80	203	48	2250	6.816	1
400	100	305	47	1700	12.726	1

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## Type 2



For flat grinding by a butt-end of the wheel of the details and constructions made of cast iron, non-ferrous metals and mineral materials.


Characteristic	
Material	C; GC
Grit	F230-F20
Hardness	I-M
Structure	4-8
Accuracy class	AA; A
Unbalance class	1; 2



### 32m/s

D, mm	T, mm	H, mm	W, mm	Working speed, RPM	Weight, kg	
200	80	125	37	3100	2.827	2
200	100	150	25	3100	2.827	2
200	100	160	20	3100	2.326	2
250	100	200	25	3100	3.442	2

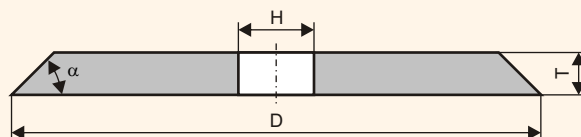
### 35m/s

D, mm	T, mm	H, mm	W, mm	Working speed, RPM	Weight, kg	
200	100	150	25	3350	2.827	2

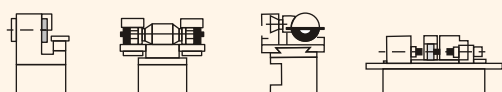
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# GRINDING CONIC-PROFILE WHEELS

## Type 3




For sharpening of rip- and disc-saws teeth made of instrumental tools, spline-grinding, tooth-grinding, sharpening operations with cutting tools made of high speed steels.



Characteristic	
Material	A
Grit	F180-F36
Hardness	K-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

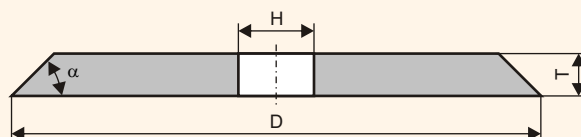
**50m/s**

D, mm	T, mm	H, mm	α, °	Working speed, RPM	Weight, kg	
65	12	8	83	14600	0.088	108
80	8	20	20	12000	0.048	99
80	10	20	30	12000	0.070	81
80	13	20	35	12000	0.098	63
100	6	20	10	9550	0.073	96
100	8	20	20	9550	0.109	80
100	10	20	30	9550	0.134	64
125	16	32	30	7650	0.350	32
150	16	32	25	6400	0.420	20
150	20	32	18	6400	0.550	16
175	16	32	20	5450	0.780	8
180	60	32	30	5350	2.060	4
200	20	32; 51	30	4800	0.850	8
250	16	32; 76	15	3850	1.350	8
250	20	32; 51; 76	20	3850	1.540	6
250	25	76	60	3850	2.100	4
250	40	127	40	3850	2.600	2
250	65	76	75	3850	4.850	2
300	25	76	20	3200	2.320	3
300	32	76	20	3200	2.580	2
350	25	127	30	2750	3.820	3
350	35	51	15	2750	3.930	1
350	40	76	20	2750	4.550	1

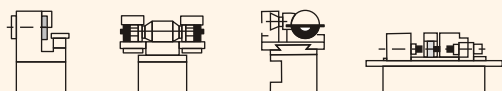
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 3




For sharpening of rip- and disc-saws teeth made of instrumental tools, spline-grinding, tooth-grinding, sharpening operations with cutting tools made of high speed steels.



	Characteristic
Material	A
Grit	F180-F36
Hardness	K-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

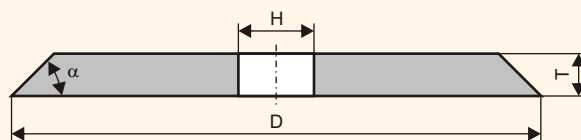
### 50m/s

D, mm	T, mm	H, mm	$\alpha$ , <sup>°</sup>	Working speed, RPM	Weight, kg	
400	35	127	20	2400	6.230	2
400	40	127	15	2400	7.250	2
600	65	305	80	1600	24.270	1
600	70	305	80	1600	26.130	1

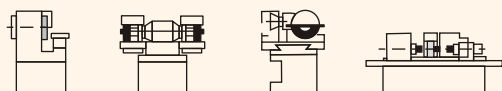
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## Type 3




For sharpening of rip- and disc-saws teeth made of instrumental tools, spline-grinding, tooth-grinding, sharpening operations with cutting tools made of high speed steels.



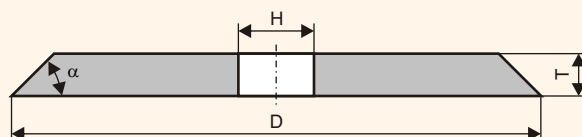
Characteristic	
Material	WA
Grit	F180-F36
Hardness	J-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

### 50m/s

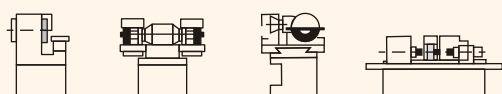
D, mm	T, mm	H, mm	$\alpha$ , °	Working speed, RPM	Weight, kg	
65	12	8	83	14600	0.088	108
80	8	20	20	12000	0.048	99
80	10	20	30	12000	0.070	81
80	13	20	35	12000	0.098	63
100	6	20	10	9550	0.073	96
100	8	20	20	9550	0.109	80
100	10	20	30	9550	0.134	64
125	8	32	10	7650	0.140	64
125	10	32	25	7650	0.170	64
125	16	32	30	7650	0.350	32
150	6	20	45	6400	0.220	40
150	8	32	10	6400	0.220	36
150	10	32	35	6400	0.340	28
150	13	32	20	6400	0.400	20
150	16	32	25	6400	0.420	20
150	20	32	18	6400	0.550	16
175	10	32	10	5450	0.360	22
175	13	32	60	5450	0.635	20
175	16	32	20	5450	0.780	8
180	60	32	30	5350	2.060	4
200	8	32	45	4800	0.336	20
200	10	32	10	4800	0.500	16
200	13	32; 51	10	4800	0.600	12
200	16	32; 51	25	4800	0.890	10
200	20	32; 51	30	4800	0.850	8
250	6	32; 76	45	3850	0.644	12

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 3




For sharpening of rip- and disc-saws teeth made of instrumental tools, spline-grinding, tooth-grinding, sharpening operations with cutting tools made of high speed steels.



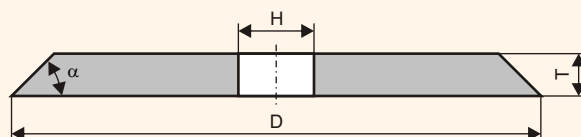
Characteristic	
Material	WA
Grit	F180-F36
Hardness	J-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

### 50m/s

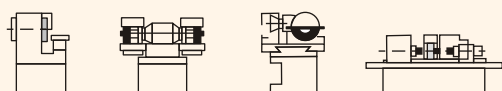
D, mm	T, mm	H, mm	$\alpha$ , °	Working speed, RPM	Weight, kg	
250	8	32; 76	45	3850	0.846	10
250	10	32; 76	45	3850	0.930	10
250	13	32; 76	45	3850	1.296	10
250	16	32; 76	15	3850	1.350	8
250	20	32; 51; 76	20	3850	1.540	6
250	25	76	60	3850	2.100	4
250	40	127	40	3850	2.600	2
250	65	76	75	3850	4.850	2
300	6	76	45	3200	0.780	12
300	8	76; 127	45	3200	1.190	9
300	10	76; 127	45	3200	1.480	7
300	13	76; 127	45	3200	1.800	6
300	16	127	45	3200	2.040	5
300	20	127	30	3200	2.230	3
300	25	76	20	3200	2.320	3
300	32	76	20	3200	2.580	2
350	20	127	20	2750	3.200	4
350	25	127	30	2750	3.820	3
350	35	51	15	2750	3.930	1
350	40	76	20	2750	4.550	1
400	35	127	20	2400	6.230	2
400	40	127	15	2400	7.250	2
450	32	127	15	2150	6.977	1
500	32	203	30	1950	9.580	1
600	65	305	80	1600	24.270	1
600	70	305	80	1600	26.130	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 3




For tooth-grinding, spline-grinding the details made of cast iron, non-ferrous metals, mineral materials, sharpening solid-alloy cutting tools.



Characteristic	
Material	GC
Grit	F120-F40
Hardness	J-P
Structure	4-8
Accuracy class	AA; A
Unbalance class	1; 2

### 35m/s

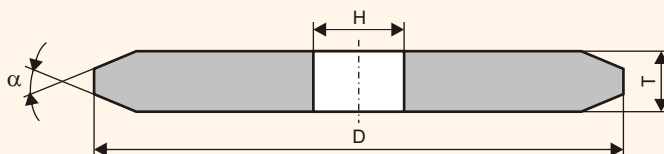
D, mm	T, mm	H, mm	$\alpha$ , °	Working speed, RPM	Weight, kg	
65	12	8	83	10290	0.073	108
125	8	32	10	5350	0.120	64
125	16	32	30	5350	0.310	32
150	8	32	10	4500	0.190	36
150	10	32	35	4500	0.290	28
150	16	32	25	4500	0.360	20
175	10	32	10	3810	0.310	22
200	10	32	10	3350	0.430	16
200	13	32	10	3350	0.520	12
200	16	32	25	3350	0.785	10
200	20	32	30	3350	0.730	8
250	10	32; 76	45	2700	0.880	10
250	16	32	15	2700	1.200	8
250	20	76	20	2700	1.200	6
250	25	76	60	2700	1.800	4
300	10	76	45	2250	1.270	7
300	13	127	45	2250	1.160	6
300	20	127	30	2250	1.910	3
400	40	127	15	1700	6.640	2

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# DOUBLE-SIDED CONIC-PROFILE GRINDING WHEELS

## Type 4




For tooth-grinding, thread-grinding the details made of different types of steels, sharpening of cutting tools made of high speed steels.



Characteristic	
Material	WA
Grit	F180-F36
Hardness	J-P
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

**50m/s**

D, mm	T, mm	H, mm	α°	Working speed, RPM	Weight, kg	
250	10	76	40	3850	1.000	5
250	13	76	40	3850	1.260	10
250	16	76	40	3850	1.500	8
250	20	76; 127	40	3850	1.790	6
250	25	76	40	3850	2.030	4
300	20	127	40	3200	2.400	3
300	25	127	40	3200	2.890	3
300	25	127	60	3200	3.080	3
300	32	76	60	3200	4.167	2
350	8	160	60	2750	1.360	9
350	16	127	40	2750	2.930	4
350	20	127	40	2750	3.380	4
350	25	90	40	2750	4.186	3
350	25	127	40	2750	4.240	3
350	32	127	40	2750	5.330	2
400	8	203	60	2400	1.670	7
400	10	203	60	2400	2.060	6
400	13	203	60	2400	2.726	6
400	20	127	40	2400	4.910	3
400	25	127	40	2400	5.870	2
400	32	127; 203	40	2400	7.110	2
400	36	127	60	2400	7.580	2
400	40	127	60	2400	8.087	2
450	32	127	60	2150	8.841	2

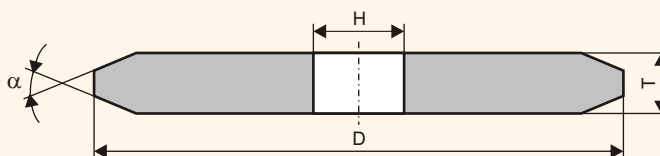
Novelty!

Novelty!

Novelty!  
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 4




For tooth-grinding, thread-grinding the details made of different types of steels, sharpening of cutting tools made of high speed steels.



Characteristic	
Material	WA
Grit	F180-F36
Hardness	J-P
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

### 50m/s

D, mm	T, mm	H, mm	α°	Working speed, RPM	Weight, kg	
500	25	203	40	1950	8.580	2
500	32	203	40	1950	10.940	2
500	36	203	40	1950	12.660	2
500	41	203	60	1950	13.554	1
500	50	305	40	1950	9.376	1

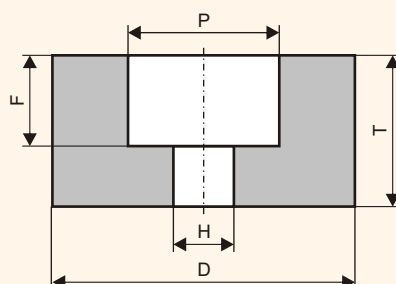
**Novelty!**  
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# GRINDING RECESSED WHEELS

## Type 5




For all types of grinding operations the details and constructions made of different kinds of steels, for sharpening the cutting tools made of high speed steels.

Characteristic		
Material	A	WA
Grit	F90-F36	F150-F36
Hardness	K-Q	J-Q
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	

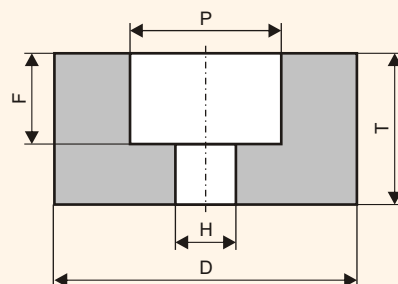


**50m/s**

D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
16	20	6	8	10	59700	0.007	320
20	20	6	10	10	47800	0.012	144
20	25	6	10	13	47800	0.014	108
20	40	6	10	20	47800	0.023	72
22	10	6	13	3	43400	0.007	324
25	20	6	13	10	38500	0.018	100
25	25	6	13	13	38500	0.023	75
25	32	6	13	16	38500	0.029	75
32	8	6	16	4	30000	0.011	192
32	25	10	16	13	30000	0.037	64
32	32	6; 10	16	16	30000	0.048	48
40	20	13	20	13	23900	0.037	45
40	25	13	20	13	23900	0.057	36
40	32	10; 13	20	16	23900	0.078	27
40	40	13	20	20	23900	0.092	18
40	50	13	20	30	23900	0.115	18
50	25	13; 16	25	13	19100	0.091	150
50	40	13	25	20	19100	0.147	100
50	50	13; 16	32	16	19100	0.180	50
60	25	13	40	15	15920	0.112	72

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 5




For all types of grinding operations the details and constructions made of different kinds of steels, for sharpening the cutting tools made of high speed steels.

Characteristic		
Material	A	WA
Grit	F90-F36	F150-F36
Hardness	K-Q	J-Q
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



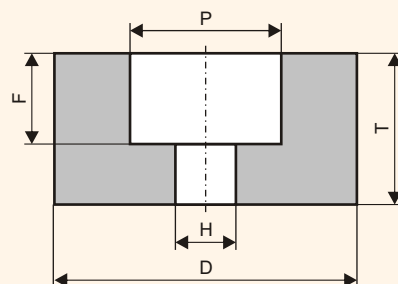
### 50m/s

D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
62	40	20	33	25	15400	0.210	36
63	16	32	40	8	15200	0.074	72
63	32	20	32	16	15200	0.182	36
63	50	20	30	20	15200	0.294	18
63	63	20	32	32	15200	0.358	18
80	20	20	50	7	12000	0.191	36
80	25	20	50	16	12000	0.210	54
80	32	20	50	16	12000	0.297	54
80	40	20	50	20	12000	0.371	36
80	50	20	40	25	12000	0.472	36
80	63	20	50	30	12000	0.597	18
80	80	20	40	30	12000	0.775	18
100	25	20	50	13	9550	0.367	24
100	32	20	50	16	9550	0.473	16
100	50	20	50	30	9550	0.728	16
100	63	20	50	30	9550	0.946	8
115	50	40	80	37	8400	0.705	4
125	25	20	62	13	7650	0.582	16
125	32	32	65	16	7650	0.719	16
125	50	32	65	30	7650	1.100	8
150	25	32	82	13	6400	0.790	6
150	32	32	65	16	6400	0.940	8

Novelty!  
Novelty!

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 5



For all types of grinding operations the details and constructions made of different kinds of steels, for sharpening the cutting tools made of high speed steels.

Characteristic		
Material	A	WA
Grit	F90-F36	F150-F36
Hardness	K-Q	J-Q
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	

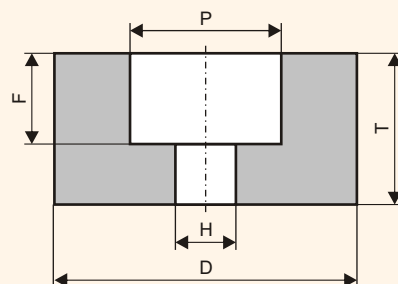


### 50m/s

D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
150	50	32	65	20	6400	1.749	8
175	32	32	100	16	5450	1.390	8
175	50	32	110	20	5450	2.198	2
200	25	32	100	13	4800	1.491	6
200	32	32	125	16	4800	1.749	4
200	32	76	125	16	4800	1.637	4
200	40	76	125	20	4800	2.050	4
200	50	80	110	35	4800	2.642	2
200	63	76	125	30	4800	3.321	2
200	80	76	125	30	4800	4.265	2
250	40	76; 127	120; 200	20	3850	3.380	2
250	80	127	150	60	3850	5.760	2
250	100	76	125	48	3850	9.090	2
300	40	127	200	20	3200	4.618	2
300	50	127	180	30	3200	5.616	2
300	75	120	177	25	3200	9.056	1
300	100	150	200	20	3200	11.275	1
350	32	76	200	13	2750	6.026	3
350	40	127	200	13	2750	6.597	2
350	50	127	200	20	2750	8.454	2
350	100	170	206	20	2750	15.727	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 5




For all types of grinding operations the details and constructions made of different kinds of steels, for sharpening the cutting tools made of high speed steels.

Characteristic		
Material	A	WA
Grit	F90-F36	F150-F36
Hardness	K-Q	J-Q
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



### 50m/s

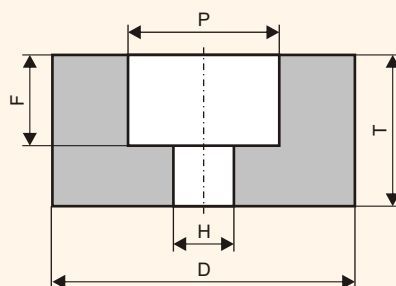
D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
400	40	127	180	25	2400	8.526	2
400	40	203	265	20	2400	7.284	2
400	50	127; 203	265	25	2400	11.852	1
450	80	203	270	20	2150	21.502	1
500	80	305	375	30	1950	19.261	1
600	50	305	375	30	1600	20.605	1
600	63	305	375	30	1600	26.878	1
600	80	305	375	30	1600	34.804	1
600	200	305	380	10	1600	90.524	1

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## Type 5



For all types of grinding operations the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, for sharpening the solid-alloy cutting tools.

Characteristic	
Material	C; GC
Grit	F180-F20
Hardness	J-Q
Structure	4-8
Accuracy class	AA; A
Unbalance class	1; 2



### 35m/s

D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
25	20	6	13	10	26800	0.016	100
32	25	10	16	13	20900	0.033	64
32	32	10	16	16	20900	0.043	48
40	40	13	20	20	16750	0.083	18
50	50	16	32	16	13400	0.165	50
63	32	20	32	16	10650	0.164	36
63	50	20	30	20	10650	0.264	18
80	20	20	50	7	8400	0.171	72
80	32	20	50	16	8400	0.267	54
80	50	20	40	25	8400	0.424	36
80	63	20	50	30	8400	0.537	18
100	25	20	50	13	6700	0.330	24
100	50	20	50	30	6700	0.651	16
125	50	32	65	30	5350	0.995	8
150	25	32	82	13	4500	0.711	6
150	32	32	65	16	4500	0.847	8
150	32	32	100	16	4500	0.824	8
200	40	76	125	20	3350	1.839	4
200	80	76	125	30	3350	3.833	2
250	40	76	120	20	2700	3.036	2
250	40	76	150	13	2700	3.112	2
300	40	127	200	20	2250	4.272	2
300	50	127	200	20	2250	5.196	2
350	40	127	200	20	1950	6.015	2
350	50	127	220	20	1950	7.289	2
400	40	203	265	20	1700	6.739	2
400	50	127; 203	265	25	1700	10.964	1
450	80	203	270	20	1500	21.502	1

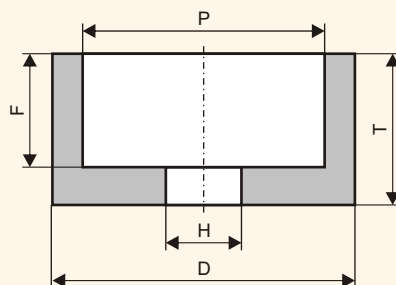
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# GRINDING WHEELS - CYLINDRICAL CUPS

## Type 6




For flat, round inner grinding the details and constructions made of different types of steels, for sharpening the cutting tools made of high speed steels.

Characteristic	
Material	A; WA
Grit	F180-F22
Hardness	F-Q
Structure	6-8
Accuracy class	AA; A
Unbalance class	1; 2



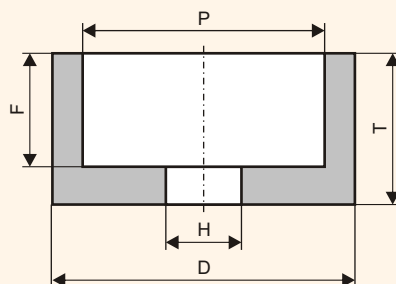
**35m/s**

D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
40	25	13	32	20	16750	0.033	36
50	32	13	40	25	13400	0.061	64
60	40	20	42	32	11150	0.147	36
76	40	20	65	32	8790	0.158	36
80	40	20	65	32	8400	0.205	36
80	40	20	70	32	8400	0.205	36
80	40	20	50	32	8400	0.271	36
80	50	25	48	35	8400	0.405	36
91	60	16	75	48	7340	0.380	8
100	40	20	80	30	6700	0.356	16
100	50	20	50	30	6700	0.420	16
100	50	20	80	40	6700	0.372	16
100	50	20	86	40	6700	0.349	16
114	63	51	76	32	5850	0.957	8
125	50	32	107	38	5350	0.582	8
125	50	32	85	38	5350	0.969	8
125	63	32; 51; 76	100	50	5350	0.824	8
150	50	32	130	38	4500	0.822	8
150	50	63.5	125	35	4500	0.869	8
150	63	65	100	38	4500	1.642	4
150	70	32	125	55	4500	1.217	4
150	75	25.4	100	50	4500	2.064	4
150	80	25.4	100	55	4500	2.174	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

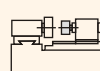
**Novelty!**

## Type 6




For flat, round inner grinding the details and constructions made of different types of steels, for sharpening the cutting tools made of high speed steels.

Characteristic	
Material	A; WA
Grit	F180-F22
Hardness	F-Q
Structure	6-8
Accuracy class	AA; A
Unbalance class	1; 2



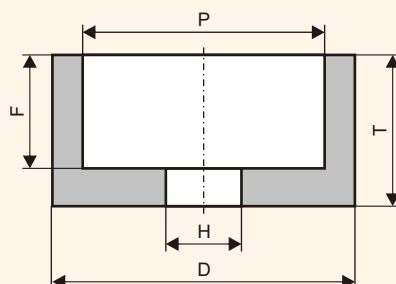
**35m/s**

D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
150	80	32	118	65	4500	1.347	4
150	80	32; 51; 76	125	65	4500	1.313	4
150	80	55	130	65	4500	1.104	4
150	80	65	90	58	4500	2.180	4
170	50	50	100	36	3930	1.820	6
175	30	65	132	16	3810	1.019	8
175	75	76	139	57	3810	1.928	8
200	60	50	120	48	3350	2.622	2
200	60	50	120	45	3350	2.850	2
200	63	32; 51	165	50	3350	2.012	2
200	63	32	140	33	3350	2.120	2
200	80	30	165	60	3350	2.696	2
200	80	32	120	55	3350	3.634	2
200	80	50	150	40	3350	3.250	2
200	80	32; 76	170	65	3350	2.175	2
200	85	51	150	55	3350	3.570	2
200	100	32	140	70	3350	4.576	2
200	100	51; 90	150	70	3350	4.135	2
200	100	76	170	85	3350	2.567	2
250	100	76	180; 125	60; 75	2700	7.330	2
250	100	127	195	75	2700	5.276	2
250	100	150	200	75	2700	4.735	2

**Novelty!**

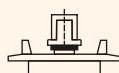
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Тип 6




For flat, round inner grinding the details and constructions of cast iron, non-ferrous metals, natural and artificial stone, glass, sharpening of hard-alloyed cutting instruments.

Characteristic	
Material	C; GC
Grit	F150-F36
Hardness	F-P
Structure	6-8
Accuracy class	AA; A
Unbalance class	1; 2



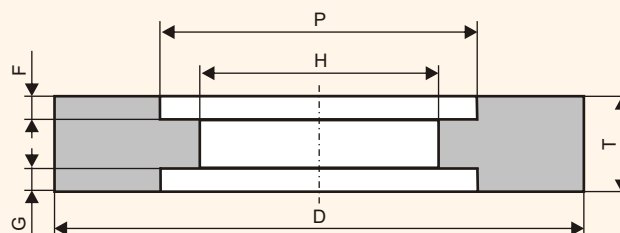
**35m/s**

D, mm	T, mm	H, mm	P, mm	F, mm	Working speed, RPM	Weight, kg	
40	25	13	32	20	16750	0.029	36
50	32	13	40	25	13400	0.061	64
80	40	20	65	32	8400	0.182	36
100	50	20	86	40	6700	0.370	36
100	50	20	50	30	6700	0.398	16
100	50	20	80	40	6700	0.372	16
125	50	32	107	38	5350	0.516	16
125	63	32; 51; 76	100	50	5350	0.731	8
150	50	32	130	38	4500	0.729	8
150	80	32	118	65	4500	1.194	4
150	80	32; 51; 76	125	65	4500	1.164	4
200	60	50	120	48	3350	2.622	2
200	63	32; 51	165	50	3350	1.757	2
200	63	32	140	33	3350	1.784	2
200	80	32	120	55	3350	3.634	2
200	80	76	170	65	3350	1.928	2
200	100	32	140	70	3350	4.056	2
200	100	51	150	70	3350	3.665	2
200	100	76	170	85	3350	2.850	2
250	100	127	195	75	2700	4.677	2
250	100	150	200	75	2700	4.197	2

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# DOUBLE-SIDED RECESSED GRINDING WHEELS

## Type 7




For flat, round outer and inner grinding the details and constructions made of different types of steels, for cutting tools sharpening made of high speed steels, for groats peeling.

Characteristic		
Material	A	WA
Grit	F90-F36	F150-F36
Hardness	K-Q	J-Q
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	

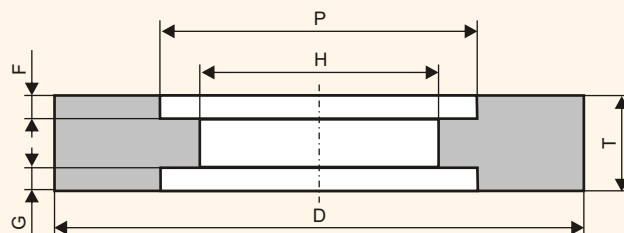


**50m/s**

D, mm	T, mm	H, mm	P, mm	F, mm	G, mm	Working speed, RPM	Weight, kg	
175	25	32	163	5	5	5450	0.850	10
200	20	32	170	5	5	4800	0.887	8
200	25	32	184	8	8	4800	0.810	6
200	25	32	170	7.5	7.5	4800	0.984	6
200	40	32	184	16	16	4800	0.920	4
250	20	32	220	5	5	3850	1.674	2
250	25	32	220	7.5	7.5	3850	1.967	2
250	40	76	150	5	5	3850	3.683	2
250	63	127	170	13	13	3850	4.820	2
300	50	76	160	10	10	3200	6.677	2
300	50	127	200	13	13	3200	5.480	2
300	100	127	200	13	13	3200	12.320	1
300	125	127	200	25	25	3200	14.040	1
300	127	175	208	22	22	3200	12.219	1
300	150	127	200	40	35	3200	16.560	1
300	160	127	200	15	15	3200	20.050	1
340	94	230	295	13	13	2810	9.200	1
350	50	127	200	13	13	2750	8.139	1
350	67	203	290	13	13	2750	7.940	1
350	100	127	200	15	15	2750	18.263	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 7




For flat, round outer and inner grinding the details and constructions made of different types of steels, for cutting tools sharpening made of high speed steels, for groats peeling.

Characteristic		
Material	A	WA
Grit	F90-F36	F150-F36
Hardness	K-Q	J-Q
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



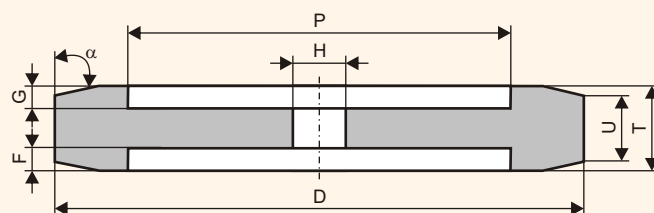
**50m/s**

D, mm	T, mm	H, mm	P, mm	F, mm	G, mm	Working speed, RPM	Weight, kg	
350	150	127	200	40	20	2750	26.220	1
400	50	203	265	13	13	2400	8.986	1
400	80	127	200	15	15	2400	19.490	1
400	100	127	197	20	20	2400	23.237	1
400	140	203	280	20	20	2400	27.709	1
450	50	203	265	13	13	2150	13.200	1
450	80	203	270	20	20	2150	21.000	1
600	63	305	375	16	16	1600	27.600	1
600	80	305	375	16	16	1600	35.050	1
600	100	305	375	25	25	1600	43.330	1
600	150	305	365	25	25	1600	63.313	1
600	180	305	375	25	25	1600	79.760	1
750	80	305	375	16	16	1300	65.050	1
750	100	305	375	25	25	1300	83.970	1
900	80	305	375	16	16	1100	101.840	1
900	100	305	375	25	25	1100	125.150	1

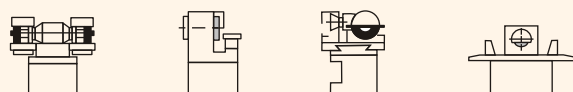
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 7-S



For flat, round outer and inner grinding the details and constructions made of different types of steels, for sharpening the cutting tools made of high speed steels.



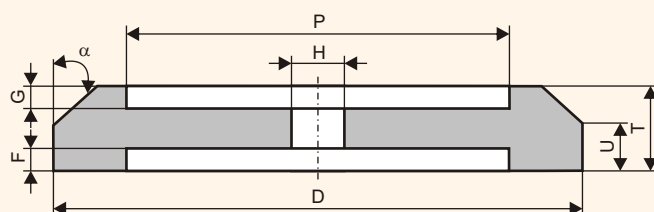
	Characteristic
Material	WA
Grit	F150-F100
Hardness	K-L
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

**50m/s**

D, mm	T, mm	H, mm	P, mm	F=G, mm	U, mm	α°,	Working speed, RPM	Weight, kg	
200	32	20	144	8.5	25	83	4800	1.550	3
200	42	20	144	13	30	78	4800	1.800	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 7-M



For flat, round outer and inner grinding the details and constructions made of different types of steels, for sharpening the cutting tools made of high speed steels, for groats peeling.



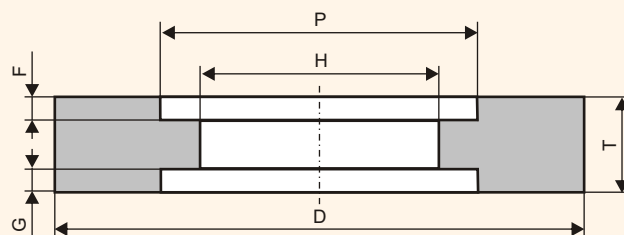
	Characteristic
Material	A; WA
Grit	F30-F16
Hardness	O-Q
Structure	4-6
Accuracy class	AA; A
Unbalance class	1; 2

**35m/s**

D, mm	T, mm	H, mm	P, mm	F=G, mm	U, mm	α°,	Working speed, RPM	Weight, kg	
250	63	127	170	13	15...20	30	2700	4.600	1
450	50	203	265	12	15...20	30	1500	11.520	1
450	50	203	265	12	15...20	55	1500	12.330	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 7




For flat, round outer and inner grinding the details and constructions made of different types of cast iron, non-ferrous metals, natural and artificial stone, for groats peeling.



Characteristic	
Material	C; GC
Grit	F90-F16
Hardness	K-Q
Structure	4-8
Accuracy class	AA; A
Unbalance class	1; 2

**35m/s**

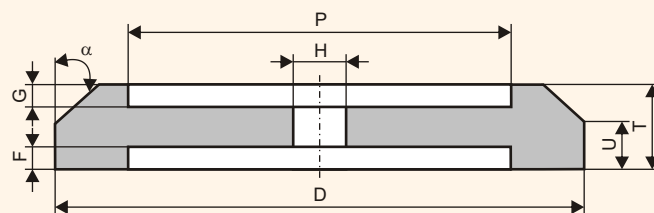
D, mm	T, mm	H, mm	P, mm	F, mm	G, mm	Working speed, RPM	Weight, kg	
125	40	32	109	16	16	5350	0.374	24
250	50	110	180	13	13	2700	3.800	2
250	63	127	170	13	13	2700	4.200	2
250	63	127	180	10	10	2700	4.565	2
300	50	127	200	5	5	2250	6.042	2
300	50	127	200	13	13	2250	5.420	2
400	50	203	265	13	13	1700	8.142	1
450	50	203	265	13	13	1500	11.480	1
600	63	305	375	16	16	1150	25.100	1
600	80	305	375	16	16	1150	36.590	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

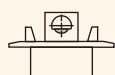




## Type 7-M



For flat, round outer and inner grinding the details and constructions made of different types of cast iron, non-ferrous metals, natural and artificial stone, for groats peeling.



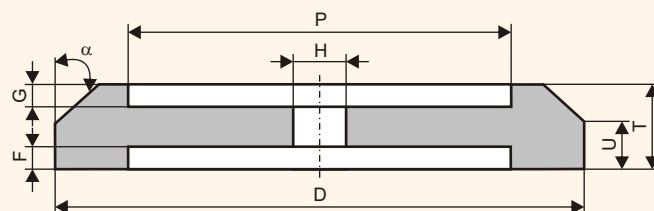
Characteristic	
Material	C
Grit	F30-F16
Hardness	N-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

**35m/s**

D, mm	T, mm	H, mm	P, mm	F=G, mm	U, mm	α°,	Working speed, RPM	Weight, kg	
250	50	110	180	13	15...20	30	2700	3.109	1
250	63	127	180	10	15...20	30	2700	3.509	1
250	63	127	170	13	15...20	30	2700	4.000	1
450	50	203	265	12	15...20	30	1500	11.455	1
450	50	203	265	12	15...20	55	1500	12.330	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 7-C



For flat, round outer and inner grinding the details and constructions made of different types of cast iron, non-ferrous metals, natural and artificial stone, for groats peeling.



Characteristic	
Material	C
Grit	F30-F16
Hardness	N-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

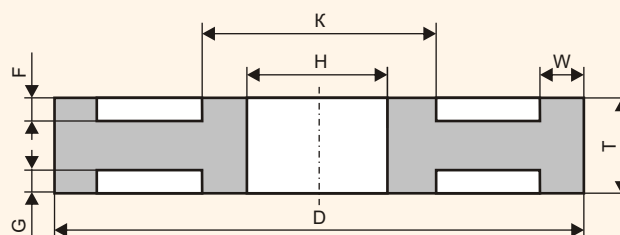
**35m/s**

D, mm	T, mm	H, mm	P, mm	F=G, mm	U, mm	α°,	Working speed, RPM	Weight, kg	
250	63	127	180	10	15...20	45	2700	3.839	1
450	50	203	265	12	15...20	45	1500	12.430	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# DOUBLE-SIDED RECESSED GRINDING WHEELS

## Type 8



For flat, round outer grinding the details and constructions made of different types of steels.

Characteristic	
Material	WA
Grit	F100-F36
Hardness	J-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

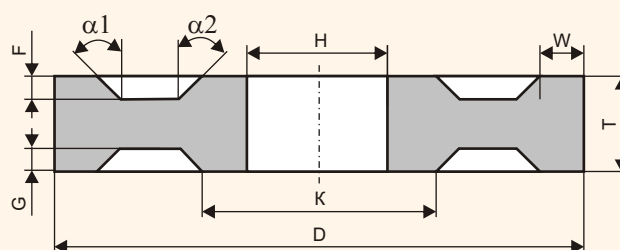


**50m/s**

D, mm	T, mm	H, mm	K, mm	W, mm	F, mm	G, mm	Working speed, RPM	Weight, kg	
350	40	127	230	10	10	10	2750	5.590	1
450	50	203	310	20	12.5	12.5	2150	10.946	1

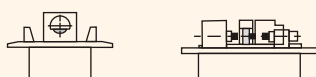
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 8-S



For flat, round outer grinding the details and constructions made of different types of steels.

Characteristic	
Material	WA
Grit	F100-F36
Hardness	J-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

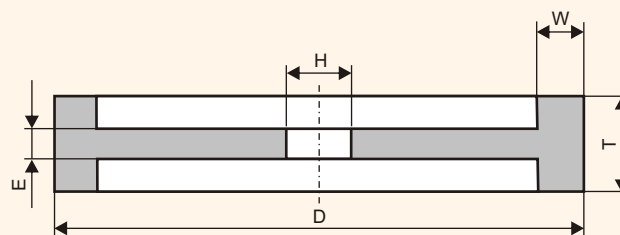


**50m/s**

D, mm	T, mm	H, mm	K, mm	W, mm	F, mm	G, mm	$\alpha 1^\circ$	$\alpha 2^\circ$	Working speed, RPM	Weight, kg	
450	50	203	290	7.5	15	15	45	45	2150	9.030	1
450	55	203	240	20.0	17.5	17.5	90	30	2150	9.627	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 9




For flat, round outer grinding the details and constructions made of different types of steels.



	Characteristic
Material	WA
Grit	F100-F36
Hardness	J-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

**50m/s**

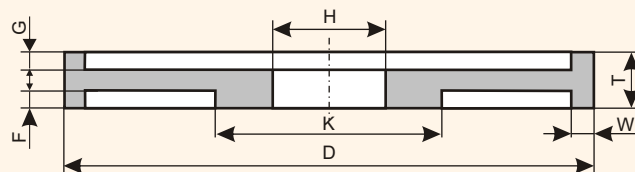
D, mm	T, mm	H, mm	E, mm	W, mm	Working speed, RPM	Weight, kg	
200	25	32	17	10	4800	1.263	6

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# DOUBLE-SIDED RECESSED HUB GRINDING WHEEL

## Type 10




For grinding the gauge cramps and sliding calipers.



Characteristic	
Material	WA
Grit	F100-F40
Hardness	K-P
Structure	6-7
Accuracy class	AA; A
Unbalance class	1; 2

**50m/s**

D, mm	T, mm	H, mm	K, mm	F=G, mm	W, mm	Working speed, RPM	Weight, kg	
150	8	32	65	2	6	6400	0.189	36
150	10	32	65	3	6	6400	0.203	28
150	16	32	65	5	6	6400	0.308	16
175	16	32	65	5	6	5450	0.403	14
200	16	32	65	5	6	4800	0.512	6
200	20	32	65	5	8	4800	0.808	8
250	10	76	125	3	8	3850	0.529	10
250	20	32	125	5	8	3850	1.328	6
250	20	76	125	6	8	3850	1.058	6
300	20	76; 127	180	5	10	3200	1.935	3

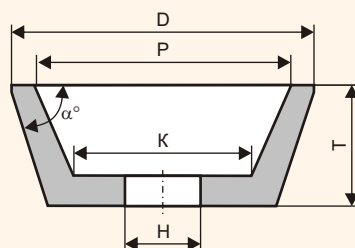
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# GRINDING WHEELS - CONIC CUPS

## Type 11




For flat grinding the details and constructions made of different kinds of steels, for spline-grinding, for cutting tools sharpening made from high speed steels.



Characteristic	
Material	A; WA
Grit	F150-F36
Hardness	I-Q
Structure	6-8
Accuracy class	AA; A
Unbalance class	1; 2

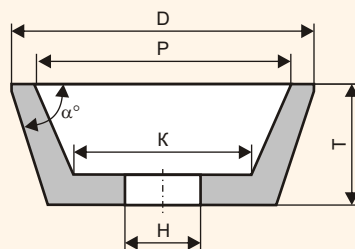
**35m/s**

D, mm	T, mm	H, mm	P, mm	K, mm	α°,	Working speed, RPM	Weight, kg	
50	25	13	40	25	70	13400	0.046	48
80	32	20	65	45	70	8400	0.147	18
80	40	20	65	38	70	8400	0.163	18
100	25	20	80	50	50	6700	0.170	24
100	40	20	84	55	70	6700	0.290	16
125	32	20	120	45	45	5350	0.274	16
125	40	32	100	76	70	5350	0.509	16
125	45	32	100	70	70	5350	0.510	12
125	50	16	100	70	70	5350	0.568	12
125	50	32	100	70	70	5350	0.570	12
125	50	32	88	56	77	5350	0.753	12
150	40	32	120	70	50	4500	0.583	12
150	50	32	130	97	70	4500	0.745	12
175	63	32	140	88	60	3810	0.758	4
200	32	32	168	90	28	3350	0.638	4

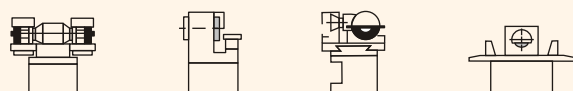
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 11




For flat grinding and spline-grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, for hard-alloy cutting tools sharpening.

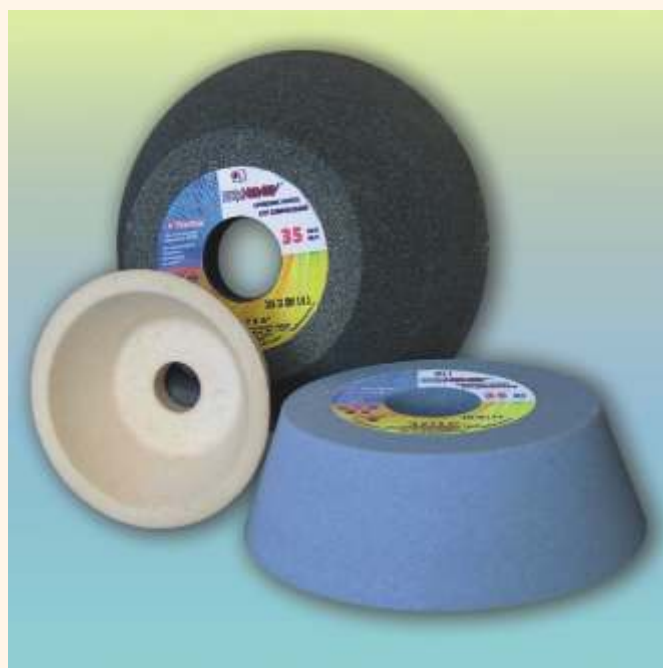


Characteristic	
Material	C; GC
Grit	F180-F36
Hardness	I-Q
Structure	6-8
Accuracy class	AA; A
Unbalance class	1; 2

### 35m/s

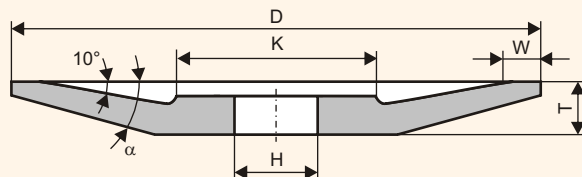
D, mm	T, mm	H, mm	P, mm	K, mm	α°,	Working speed, RPM	Weight, kg	
50	25	13	40	25	70	13400	0.041	48
80	32	20	65	45	70	8400	0.131	18
80	40	20	65	38	70	8400	0.145	18
100	25	20	80	50	50	6700	0.151	24
100	40	20	84	55	70	6700	0.259	16
125	40	32	100	76	70	5350	0.454	16
125	45	32	100	70	70	5350	0.455	12
125	50	32	100	70	70	5350	0.508	12
125	50	32	88	56	77	5350	0.671	12
150	40	32	120	70	50	4500	0.520	12
150	50	32	130	97	70	4500	0.664	12
175	63	32	140	88	60	3810	0.675	4

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

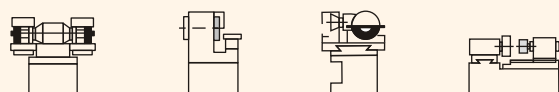


# FLAT DISH GRINDING WHEELS

## Type 12




For slotting the details and constructions made of different types of steels, for sharpening the cutting tools made of high-speed steels.



Characteristic	
Material	WA
Grit	F180-F36
Hardness	J-P
Structure	5-7
Accuracy class	AA; A
Unbalance class	1; 2

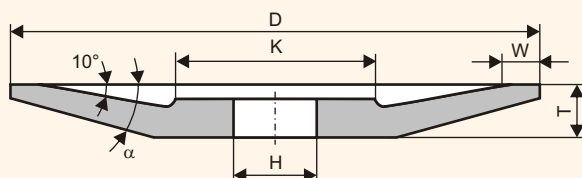
**50m/s**

D, mm	T, mm	H, mm	K, mm	W, mm	α, °	Working speed, RPM	Weight, kg	
50	10	6	16	1.5	22	19100	0.025	200
80	8	13	30	4	15	12000	0.043	99
100	10	20	40	6	15	9550	0.060	80
125	13	32	50	6	15	7650	0.140	20
150	16	32	60	8	15	6400	0.280	28
175	16	32	75	16	25	5450	0.570	20
175	20	32	75	16	25	5450	0.630	20
200	16	32	80	10	15	4800	0.530	12
200	20	32	80	10	15	4800	0.590	10
250	20	32	100	13	15	3850	0.970	8
250	25	32	100	13	15	3850	1.260	6
762	32	406.4	525	16	15	1250	14.960	1

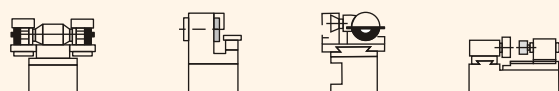
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## Type 12




For slotting the details and constructions made of different types of steels, for sharpening the cutting tools made of high-speed steels.



Characteristic	
Material	A
Grit	F180-F36
Hardness	J-P
Structure	5-7
Accuracy class	AA; A
Unbalance class	1; 2

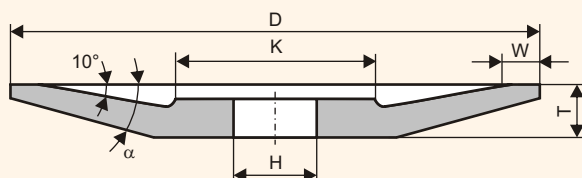
**35m/s**

D, mm	T, mm	H, mm	K, mm	W, mm	α, °	Working speed, RPM	Weight, kg	
50	10	6	16	1.5	22	13400	0.025	200
80	8	13	30	4	15	8400	0.043	99
100	10	20	40	6	15	6700	0.060	80
125	13	32	50	6	15	5350	0.140	20
150	16	32	60	8	15	4500	0.280	28
175	16	32	75	16	25	3820	0.570	20
175	20	32	75	16	25	3820	0.630	20
200	16	32	80	10	15	3350	0.530	12
200	20	32	80	10	15	3350	0.590	10
250	20	32	100	13	15	2700	0.970	8
250	25	32	100	13	15	2700	1.260	6
762	32	406.4	525	16	15	895	14.960	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## Type 12




For slotting the details and constructions made of cast-iron, non-ferrous metals, natural and artificial stone, glass, porcelain, for sharpening the hard-alloy cutting tools.



Characteristic	
Material	C; GC
Grit	F180-F40
Hardness	J-Q
Structure	6-8
Accuracy class	AA; A
Unbalance class	1; 2

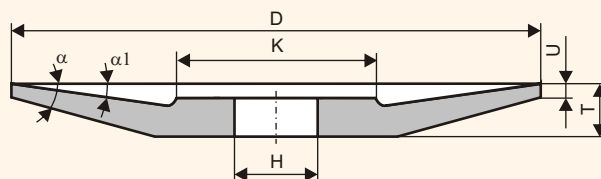
**35m/s**

D, mm	T, mm	H, mm	K, mm	W, mm	α, °	Working speed, RPM	Weight, kg	
80	8	13	30	4	15	8400	0.039	99
100	10	20	40	6	15	6700	0.054	80
125	13	32	50	6	15	5350	0.130	20
150	16	32	60	8	15	4500	0.250	28
175	16	32	75	16	25	3820	0.510	20
175	20	32	75	16	25	3820	0.570	20
200	16	32	80	10	15	3350	0.480	12
200	20	32	80	10	15	3350	0.520	10
250	20	32	100	13	15	2700	0.870	8
250	25	32	100	13	15	2700	1.130	6

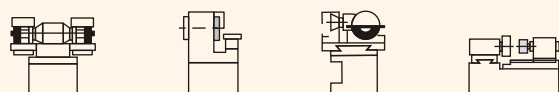
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# DISH GRINDING WHEELS

## Type 14




For slotting the details and constructions made of different types of steels, for sharpening the cutting tools made of fast-cutting steels.



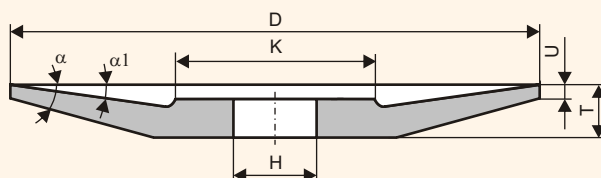
Characteristic	
Material	WA
Grit	F180-F36
Hardness	I-P
Structure	6-8
Accuracy class	AA; A
Unbalance class	1; 2

**50m/s**

D, mm	T, mm	H, mm	K, mm	U, mm	$\alpha, ^\circ$	$\alpha 1, ^\circ$	Working speed, RPM	Weight, kg	
100	10	20	40	2	15	10	9550	0.067	80
150	10	32	80	2	30	7	6400	0.261	32
150	16	32	60	4	15	10	6400	0.257	32
200	20	32	80	4	15	10	4800	0.542	10
220	20	90	140	2	29	20	4340	0.517	5
225	18	40	105	2	16	5	4240	0.890	10
225	18	40	105	4	14	5	4240	0.960	10
225	18	40	105	6	12	5	4240	1.029	10
250	25	32	100	6	15	10	3850	1.172	6
275	20	40	105	4	12	4	3470	1.379	2
280	33	90	110	4	23	13	3400	1.060	8
300	19	101.6	185	2	30	10	3200	1.363	3
300	20	127	185	2	30	10	3200	1.581	2
300	25	127	185	2	30	10	3200	1.892	2
350	40	127	200	2	45	7	2750	5.190	2
500	32	203	280	5	21	9	1950	6.731	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 14




For slotting the details and constructions made of cast-iron, non-ferrous metals, natural and artificial stone, glass, porcelain, for sharpening the hard-alloy cutting tools.



Characteristic	
Material	C; GC
Grit	F120-F40
Hardness	K-M
Structure	6-8
Accuracy class	AA; A
Unbalance class	1; 2

### 35m/s

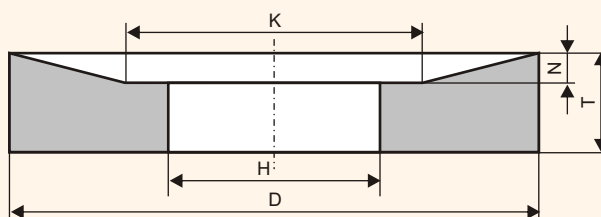
D, mm	T, mm	H, mm	K, mm	U, mm	$\alpha, ^\circ$	$\alpha 1, ^\circ$	Working speed, RPM	Weight, kg	
150	16	32	60	4	15	10	4500	0.230	32
200	20	32	80	4	15	10	3350	0.485	10
225	18	40	105	4	14	5	2970	0.858	10
225	18	40	105	6	12	5	2970	0.920	10

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

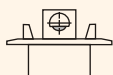


# ONE-SIDED CONIC RECESSED GRINDING WHEELS

## Type 20




For all kinds of grinding with possibility of synchronous processing by a butt-end and a peripheral side of the details and constructions made of different types of steels, for sharpening the cutting tools made of high speed steels.



Characteristic	
Material	WA
Grit	F40-F30
Hardness	O-P
Structure	5-6
Accuracy class	AA; A
Unbalance class	1; 2

**50m/s**

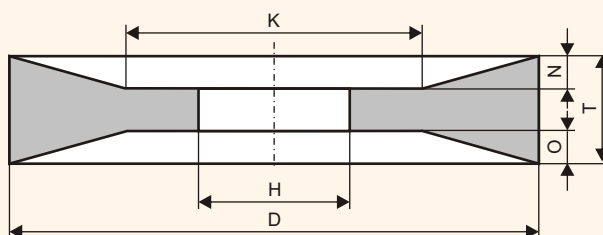
D, mm	T, mm	H, mm	K, mm	N, mm	Working speed, RPM	Weight, kg	
125	25	50	90	7	7650	0.460	8
175	20	50	-	9.3	5450	0.887	6
400	40	127	180	8	2400	9.048	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# DOUBLE-SIDED CONIC RECESSED GRINDING WHEELS

## Type 21




For all kinds of grinding with possibility of synchronous processing by a butt-end and a peripheral side of the details and constructions made of different types of steels, for sharpening the cutting tools made of high speed steels.

Characteristic	
Material	WA
Grit	F120-F36
Hardness	K-P
Structure	6-7
Accuracy class	AA; A
Unbalance class	1; 2



**50m/s**

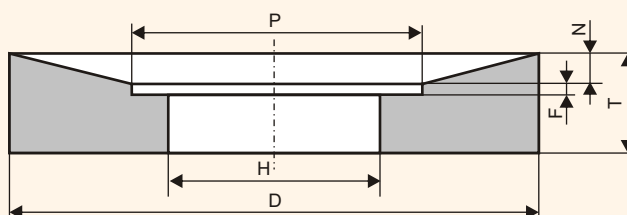
D, mm	T, mm	H, mm	K, mm	N, mm	O, mm	Working speed, RPM	Weight, kg	
200	30	32	45	10	10	4800	1.510	3

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# ONE-SIDED CONIC AND CYLINDRICAL RECESSED GRINDING WHEELS

## Type 23




For all types of grinding with a possibility of simultaneous processing by a butt-end and a peripheral the details and constructions of different types of steels, sharpening of the cutting tools of high speed steels.

Characteristic		
Material	A	WA
Grit	F90-F36	F100-F36
Hardness	K-Q	J-Q
Structure	4-7	
Accuracy class	AA; A	
Unbalance class	1; 2	



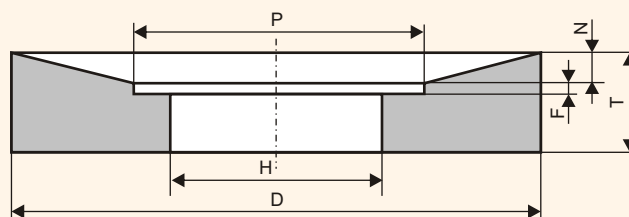
**50m/s**

D, mm	T, mm	H, mm	P, mm	N, mm	F, mm	Working speed, RPM	Weight, kg	
300	50	127	200	15	10	2220	4.870	1
300	50	127	200	18	7	3200	4.760	1
350	50	127	265	15	10	2750	6.360	1
400	50	127	154	12	14	2400	12.097	1
600	80	305	375	20	15	1600	31.030	1
600	80	305	375	22	13	1600	30.700	1
600	100	305	375	40	15	1600	35.340	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## Тип 23




For all kinds of grinding with possibility of synchronous processing by a butt-end and a peripheral side of the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, for sharpening of hard-alloy cutting tools.

	Characteristic
Material	C; GC
Grit	F120-F22
Hardness	K-P
Structure	6-8
Accuracy class	AA; A
Unbalance class	1; 2



### 35m/s

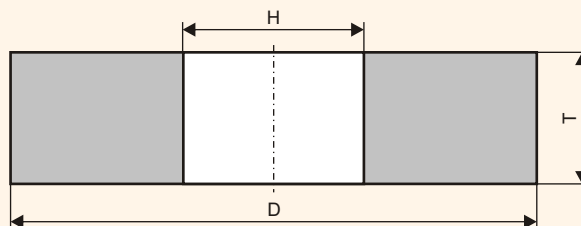
D, mm	T, mm	H, mm	P, mm	N, mm	F, mm	Working speed, RPM	Weight, kg	
300	50	127	200	18	7	2250	4.250	1
300	50	127	200	15	10	2250	4.400	1
350	50	127	265	15	10	1950	5.880	1
400	50	127	154	12	14	1700	12.840	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# WHEELS FOR GRINDING BY BUTT-ENDS

## Type 35




For flat grinding by a butt-end of the details and constructions made of different types of steels, sharpening of the cutting tools of high speed steels.

Characteristic	
Material	WA
Grit	F60
Hardness	K-O
Structure	5-6
Accuracy class	AA; A
Unbalance class	1; 2



**50m/s**

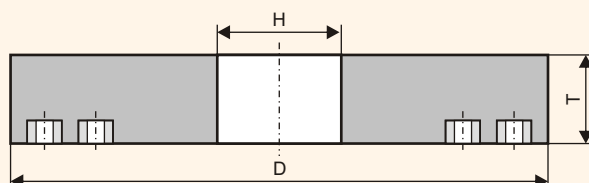
D, mm	T, mm	H, mm		Working speed, RPM	Weight, kg	
200	40	without any hole		4800	2.765	4
200	50	without any hole		4800	3.457	2
300	40	76	drawing	3200	5.823	1
380	40	200	drawing	2500	7.218	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# GRINDING WHEELS WITH PRESSED-IN FASTENING COMPONENTS

## Type 36




For flat grinding by a butt-end of the details and constructions made of different types of steels.

	Characteristic
Material	WA
Grit	F36-F22
Hardness	K-O
Structure	4-8
Accuracy class	AA; A



**35m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
455	75	without any hole	1470	26.676	1
455	75	105	1470	26.315	1
600	80	305	1150	40.310	1
650	80	350	1020	41.880	1
660	100	150	1010	71.391	1

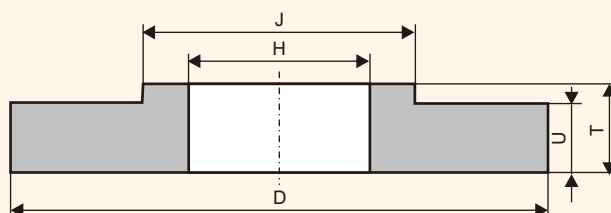
**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



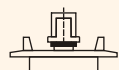
# ONE-SIDED HUB GRINDING WHEELS

## Type 38




For flat grinding by a butt-end of the details and constructions made of different types of steels.

	Characteristic
Material	WA
Grit	F90-F36
Hardness	K-M
Structure	5-6
Accuracy class	AA; A
Unbalance class	1; 2



**50m/s**

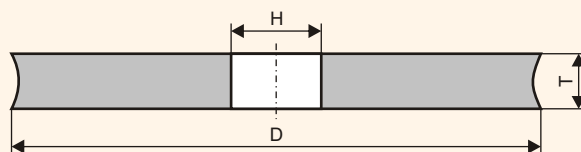
D, mm	T, mm	H, mm	J, mm	U, mm	Working speed, RPM	Weight, kg	
900	28	305	450	25.5	1100	32.406	1
900	33	305	390	25.0	1100	33.984	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# GRINDING WHEELS OF SPECIAL PROFILE

## Type 1-J




For grinding of needles.



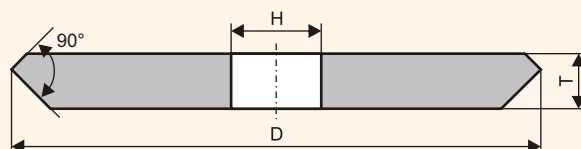
Characteristic	
Material	WA
Grit	F90-F36
Hardness	O-R
Structure	5-7
Accuracy class	AA; A
Unbalance class	1; 2

**35m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
400	100	127	1700	27.600	1
400	150	100	1700	33.147	1
450	200	150	1500	51.580	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 1-N




For grinding of the details and constructions made of different types of steels.



Characteristic	
Material	WA
Grit	F60-F40
Hardness	K-Q
Structure	4-7
Accuracy class	AA; A
Unbalance class	1; 2

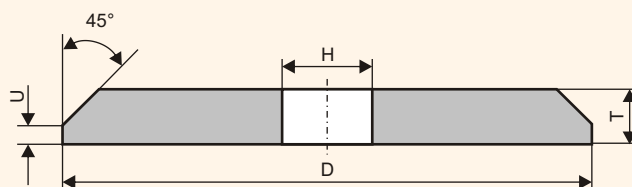
**50m/s**

D, mm	T, mm	H, mm	Working speed, RPM	Weight, kg	
500	32	203	1950	8.890	1
750	50	305	1300	38.859	1
750	75	305	1300	58.970	1
750	100	305	1300	75.200	1
900	55	305	1100	67.736	1
900	100	305	1100	116.605	1

**Novelty!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 1-C




For flaking of the grain, for grinding of the details and constructions made of different types of steels.



Characteristic	
Material	A
Grit	F24-F16
Hardness	O-Q
Structure	4-8
Accuracy class	AA; A
Unbalance class	1; 2

### 35m/s


D, mm	T, mm	H, mm	U, mm	Working speed, RPM	Weight, kg	
250	40	127	8-12	2700	2.740	1
450	50	203	5	1500	11.158	1
450	53	203	28	1500	14.039	1
750	80	305	10	895	56.069	1

For flaking of the grain, for grinding of the details and constructions made of cast iron.



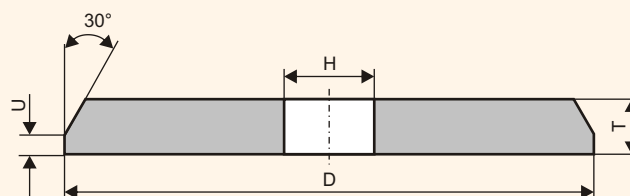
Characteristic	
Material	C
Grit	F24-F16
Hardness	O-Q
Structure	4-8
Accuracy class	AA; A
Unbalance class	1; 2

### 35m/s

D, mm	T, mm	H, mm	U, mm	Working speed, RPM	Weight, kg	
450	50	203	5	1500	11.158	1
450	53	203	28	1500	14.039	1
750	80	305	10	895	56.069	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type 1-M




For flaking of the grain, for grinding of the details and constructions made of different types of steels.



Characteristic	
Material	A
Grit	F24-F16
Hardness	O-Q
Structure	4-8
Accuracy class	AA; A
Unbalance class	1; 2

### 35m/s

D, mm	T, mm	H, mm	U, mm	Working speed, RPM	Weight, kg	
200	40	32	15-20	3350	2.260	4
200	50	32	15-20	3350	3.171	2
250	40	127	15-20	2700	2.484	1
300	40	127	15-20	2250	3.500	1
400	40	127	6-15	1700	9.205	1
450	50	127	6-12	1500	12.000	1

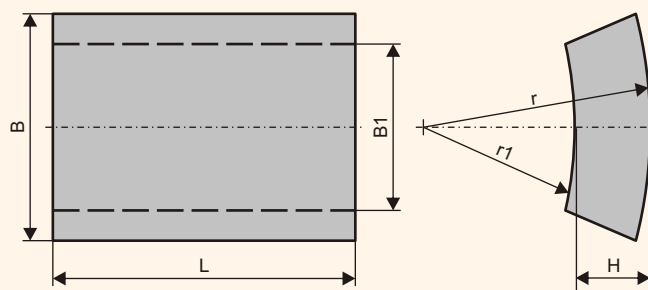
The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



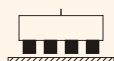


# CONVEX-CONCAVE SEGMENTS

## Type 1S



For flat grinding of the details and constructions made of different types of steels.

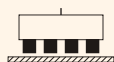


Characteristic	
Material	WA
Grit	F36-F40
Hardness	G-J
Structure	4-9
Accuracy class	A

$B$ , mm	$H$ , mm	$L$ , mm	$B1$ , mm	$r$ , mm	$r1$ , mm	Weight, kg	
75	20	140	54	150	130	0.415	16

The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

For flat grinding of the details and constructions made of cast iron.



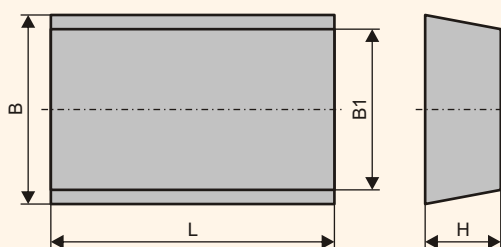
Characteristic	
Material	GC
Grit	F36-F40
Hardness	G-J
Structure	7
Accuracy class	A

$B$ , mm	$H$ , mm	$L$ , mm	$B1$ , mm	$r$ , mm	$r1$ , mm	Weight, kg	
75	20	140	54	150	130	0.415	16

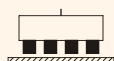
The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

# TRAPEZOIDAL GRINDING SEGMENTS

## Type 5S



For flat grinding of the details and constructions made of different types of steels.

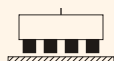


Characteristic	
Material	A; WA
Grit	F90-F36
Hardness	H-P
Structure	4-9
Accuracy class	A

B, mm	H, mm	L, mm	B1, mm	Weight, kg	
60	16	125	50	0.212	24
60	22	110	46	0.271	24
70	25	150	64	0.600	12
100	40	150	85	1.230	8

The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.

For flat grinding of the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone.



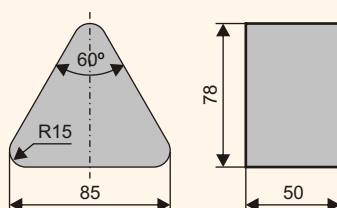
Characteristic	
Material	GC
Grit	M63-F36
Hardness	J-P
Structure	7-8
Accuracy class	A

B, mm	H, mm	L, mm	B1, mm	Weight, kg	
100	40	150	85	1.060	8

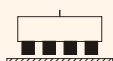
The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.


# SPECIAL SEGMENTS

## Type 6S



For high-performance grinding of concrete and marble floors.



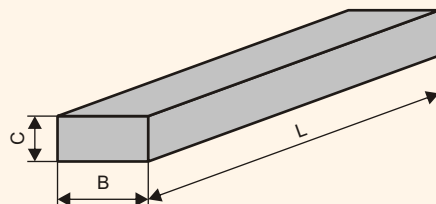
	Characteristic
Material	A; WA; C
Grit	F60-F16
Hardness	K-Q
Structure	5-7
Accuracy class	A
Weight, kg	0.510
	18

The plant receives the orders of segments manufacturing with dimensions and characteristics not indicated in the given table.




# RECTANGULAR GRINDING STONES

## Type BP



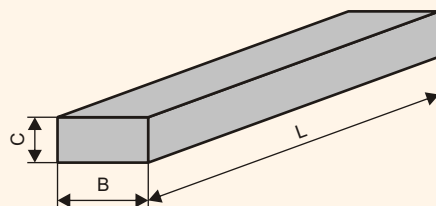
For flat and round outer grinding, for honing the details made of different types of steels, sharpening and setting the cutting tools.

Characteristic	
Material	A; WA
Grit	F230-F40
Hardness	H-Q
Structure	6-9
Accuracy class	A

B, mm	C, mm	L, mm	Weight, kg	
9	6	63	0.008	540
11	9	100	0.022	165
11	9	125	0.028	132
13	10	100	0.029	130
15	14	150	0.070	110
19	8	65	0.021	156
20	6	150	0.040	182
20	10	100	0.044	78
20	10	150	0.068	105
20	13	150	0.089	84
20	13	200	0.116	80
20	16	150	0.109	63
20	16	200	0.146	60
25	4	70	0.016	160
25	16	150	0.136	54
25	16	200	0.178	48
25	20	150	0.167	42
25	20	200	0.227	40
30	20	80	0.108	60
30	40	60	0.158	50
32	20	200	0.291	30
40	16	200	0.285	30
40	20	200	0.364	25
40	20	250	0.445	24
40	25	200	0.445	20
40	100	300	2.642	3


The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.

## Type BP



For flat and round outer grinding, for honing the details made of different types of steels, sharpening and setting the cutting tools.

Characteristic	
Material	A; WA
Grit	F230-F40
Hardness	H-Q
Structure	6-9
Accuracy class	A

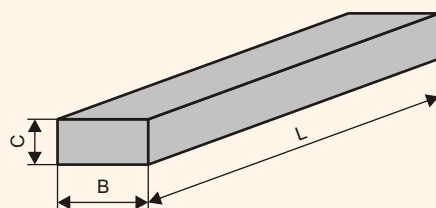
B, mm	C, mm	L, mm	Weight, kg	
50	20	200	0.450	20
50	25	200	0.568	16
50	30	200	0.667	12
60	15	160	0.327	15
60	25	125	0.417	16
60	25	200	0.682	12
90	20	150	0.608	10
90	50	90	0.970	8
100	25	125	0.703	5
100	40	150	1.321	6
100	40	300	2.642	3

Novelty!  
Novelty!  
Novelty!

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.




# Type BP



For flat and round outer grinding, for honing the details made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, for sharpening and setting the cutting tools.

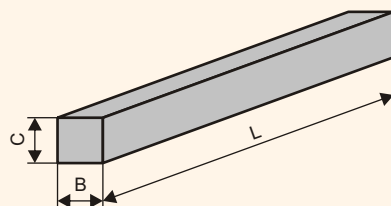
Characteristic	
Material	C; GC
Grit	F230-F16
Hardness	H-Q
Structure	2-9
Accuracy class	A

B, mm	C, mm	L, mm	Weight, kg	
10	8	100	0.016	224
11	9	75	0.014	165
11	9	100	0.020	165
16	13	125	0.052	130
15	14	150	0.065	110
20	10	150	0.060	105
20	13	150	0.078	84
20	13	200	0.107	80
20	16	46	0.029	189
20	16	150	0.095	63
20	16	200	0.127	60
25	10	200	0.099	80
25	13	80	0.054	190
25	16	150	0.119	54
25	20	200	0.206	40
30	12	150	0.107	65
32	20	200	0.263	30
40	16	200	0.263	30
40	20	200	0.318	25
40	25	200	0.412	20
50	15	200	0.298	26
50	25	150	0.432	18
50	25	200	0.515	16
50	30	250	0.746	10
60	25	200	0.597	10

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.


# SQUARE GRINDING STONES

## Type BKv



For flat and round outer grinding, for honing the details made of different types of steels, for sharpening and setting the cutting tools.

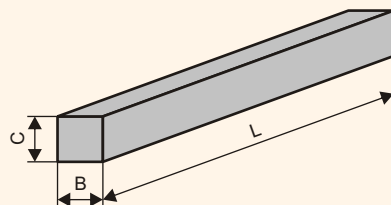
Characteristic	
Material	A; WA
Grit	F230-F36
Hardness	H-Q
Structure	6-9
Accuracy class	A

B, mm	C, mm	L, mm	Weight, kg	
6	6	75	0.006	400
6	6	100	0.008	483
8	8	75	0.011	608
8	8	100	0.015	272
10	10	100	0.023	156
10	10	120	0.027	130
10	10	150	0.035	225
13	13	100	0.038	90
13	13	120	0.045	144
13	13	125	0.048	144
13	13	150	0.058	132
16	16	100	0.058	56
16	16	150	0.087	81
16	16	200	0.113	60
20	20	150	0.136	56
20	20	200	0.182	50
25	25	150	0.213	36
25	25	200	0.284	32
25	25	300	0.413	18
40	40	50	0.182	50
40	40	75	0.272	25
40	40	200	0.726	10

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.




## Type BKv



For flat and round outer grinding, for honing the details made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, sharpening and setting the cutting tools.

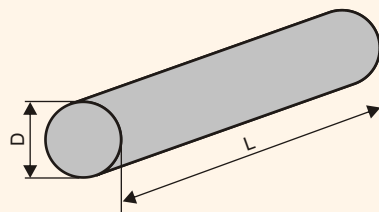
Characteristic	
Material	C; GC
Grit	F230-F40
Hardness	I-Q
Structure	6-9
Accuracy class	A

B, mm	C, mm	L, mm	Weight, kg	
8	8	100	0.013	272
8	8	150	0.018	304
10	10	100	0.020	156
10	10	150	0.032	225
13	13	100	0.033	90
13	13	125	0.044	144
13	13	150	0.053	132
15	15	100	0.044	72
15	15	200	0.095	91
16	16	100	0.051	56
16	16	150	0.076	81
16	16	200	0.101	60
20	20	150	0.119	56
20	20	200	0.168	50
25	25	150	0.197	36
25	25	200	0.263	32
40	40	200	0.672	10
50	50	200	0.965	8

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.


# ROUND GRINDING STONES

## Type BKr



For sharpening and setting the cutting tools,  
for sharpening the combine knives.

Characteristic	
Material	A; WA
Grit	F120-F40
Hardness	K-O
Structure	6-8
Accuracy class	A

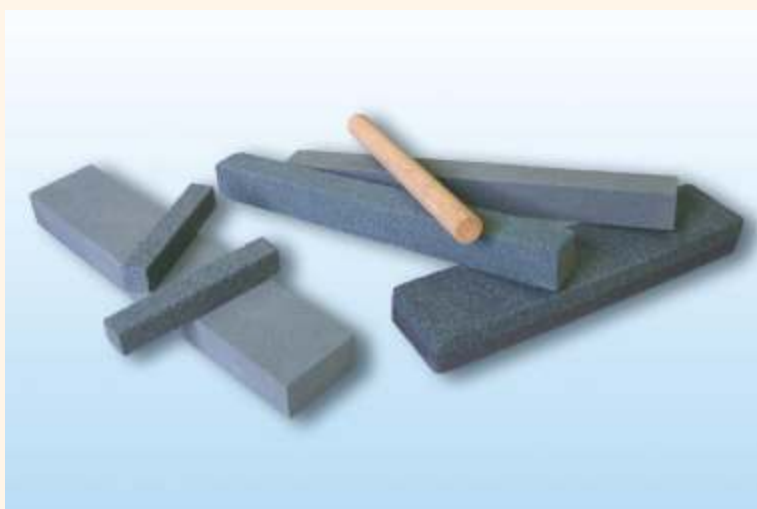
D, mm	L, mm	Weight, kg	
10	100	0.017	189
13	150	0.043	147
16	150	0.067	94
40	130	0.363	6
40	150	0.419	12
40	180	0.520	10

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.

Characteristic	
Material	GC
Grit	F180-F100
Hardness	K-O
Structure	6-7
Accuracy class	A

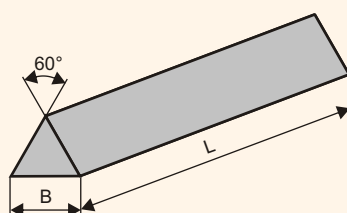
D, mm	L, mm	Weight, kg	
12	32	0.007	378

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.



# THREE-EDGED GRINDING STONES

## Type BT



For flat grinding the details and constructions made of different kinds of steels, for sharpening and setting the cutting tools.


Characteristic	
Material	A; WA
Grit	F230-F100
Hardness	K-P
Structure	6-8
Accuracy class	A

B, mm	L, mm	Weight, kg	
13	150	0.025	294
16	150	0.038	187

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.

For flat grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain, for sharpening and setting the cutting tools.

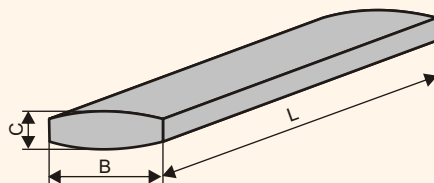
Characteristic	
Material	GC
Grit	F180-F100
Hardness	K-O
Structure	6-8
Accuracy class	A

B, mm	L, mm	Weight, kg	
13	150	0.022	294
16	150	0.033	187

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.


## SPECIAL GRINDING STONES

### Type BPc



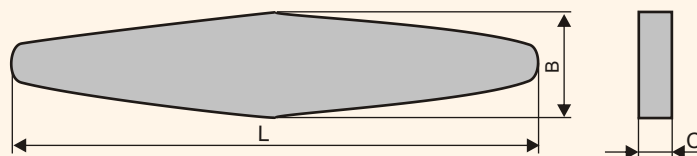
For final setting and sharpening the cutting tools, tapping cutters.

Characteristic	
Material	WA
Grit	F150
Hardness	K-P
Structure	6-8
Accuracy class	A

B, mm	C, mm	L, mm	Weight, kg	
15	5	125	0.020	300
20	8	140	0.040	112


The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.

### Type B



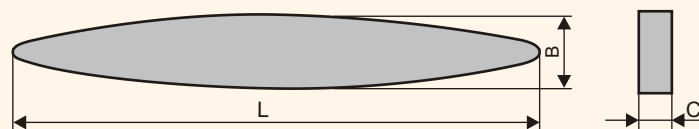
For setting, sharpening the scythes and cutting tools.

Characteristic	
Material	A
Grit	F100-F60
Hardness	K-M
Structure	7
Accuracy class	A

L, mm	B, mm	C, mm	Weight, kg	
200	40	13	0.150	50


The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.

## Type B



For setting, sharpening the scythes and cutting tools.

Characteristic	
Material	A
Grit	F100-F60
Hardness	K-M
Structure	7
Accuracy class	A

$L, \text{ mm}$	$B, \text{ mm}$	$C, \text{ mm}$	Weight, kg	
225	35	15	0.200	60
225	35	18	0.240	50
225	40	20	0.290	45

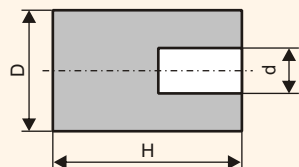
**Novelty!**

The plant receives the orders of grinding stones manufacturing with dimensions and characteristics not indicated in the given table.



# CYLINDRICAL MOUNTED POINTS

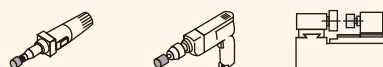
## Type AW




For smoothing operations and inner grinding the details and constructions made of different types of steels.

Points are produced without mountings.

Characteristic	
Material	WA
Grit	F220-F40
Hardness	K-Q
Structure	5-7
Accuracy class	A



**50m/s**

D, mm	H, mm	d, mm	Working speed, RPM	Weight, kg	
16	16	6	59700	0.007	384
16	20	6	59700	0.009	320
16	25	6	59700	0.011	256
17	40	6	56200	0.017	128
20	25	6	47800	0.018	144
20	32	6	47800	0.023	108
25	25	6	38200	0.028	100
25	30	6	38200	0.030	75
25	32	6	38200	0.036	75
32	32	6	30000	0.058	48
32	40	6	30000	0.073	32
40	40	8	23900	0.114	18

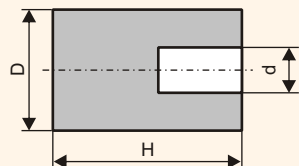
Novelty!

Novelty!

The plant receives the orders of mounted points manufacturing with dimensions and characteristics not indicated in the given table.



## Type AW




For smoothing operations and inner grinding the details and constructions made of cast iron, non-ferrous metals, natural and artificial stone, glass, porcelain.

Points are produced without mountings.

Characteristic	
Material	GC
Grit	F60-F40
Hardness	M-N
Structure	6-8
Accuracy class	A



**35m/s**

D, mm	H, mm	d, mm	Working speed, RPM	Weight, kg	
16	16	6	41780	0.006	384
16	20	6	41780	0.008	320

The plant receives the orders of mounted points manufacturing with dimensions and characteristics not indicated in the given table.





# FLEXIBLE BACKING ABRASIVES



The image displays a variety of LUG ABRASIV products. In the foreground, several flap wheels of different sizes and colors (red, blue, black) are shown. One large red flap wheel has a label that reads "LUG ABRASIV FLAP WHEEL ПЕПЕСТКОВЫЙ КРУГ 40 M/S M/C ISO 9001 ГОСТ 23778-77 ГОСТ Р 52553-2006 EN 12743". To the right, there are boxes of grinding belts. One box is labeled "ЛЕНТЫ БЕСКОНЕЧНЫЕ ШЛИФОВАЛЬНЫЕ BELTS ENDLESS GRINDING 75x533MM" and another is labeled "ЛБ 75x457 MM". In the background, more products are visible, including a box labeled "LUG ABRASIV Professional" and a box labeled "Elastic". The LUG ABRASIV logo is visible in the bottom right corner.





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# CHARACTERISTICS OF ABRASIVE MATERIALS ON FLEXIBLE BACKING

JSC “LUGA ABRASIVE PLANT” produces wide range of abrasive tools on flexible backing, using grinding coated abrasives of well-known European producers from Germany, Turkey, Italy, Poland, Hungary.

Type of grinding coated abrasives	Material grade	Backing	Distribution of grain	Bond	Processed materials
ZC 721X (Turkey)	ZK / P24-P150	Poly-cotton cloth	Closed	Resin/resin	Steel, alloy steel, casting, cast iron
ZC 411X (Turkey)	ZK / P24-P150	Durable cotton cloth	Closed	Resin/resin	Steel, alloy steel
AC 721X (Turkey)	A / P24-P320	Poly-cotton cloth	Closed	Resin/resin	Steel, non-ferrous metals, cast iron, wood, leather, plastics
AC 411X (Turkey)	A / P24-P180	Durable cotton cloth	Closed	Resin/resin	Steel, non-ferrous metals, cast iron, wood, leather, plastics
ZK 701X (Germany)	ZK / P24-P150	Rough polyester cloth	Closed	Resin/resin	Steel, alloy steel, casting, cast iron
KK 751X (Germany) BTX 22-3LT (Poland)	A / P24-P320	Durable cotton cloth	Closed	Resin/resin	Steel, non-ferrous metals, cast iron, wood, leather, plastics
KK 711X водостойкая (Germany)	A / P24-P320	P24-P80-rough polyester cloth; P100-P320-rough cotton cloth	Closed	Resin/resin	Steel, casting, non-ferrous metals, cast iron, wood, leather, plastics
CK 725D (Germany)	C / P40-P120	Combined (cloth+paper)	Closed	Resin/resin antistatic treatment	MDF, HDF*, pressed wood, timber slabs, veneers, wood
KK 511J (Germany)	A / P60-P500	Flexible cotton cloth	Closed	Resin/resin	Profile details made from metal, wood, plastics
KK 268 (Hungary)	A / P24-P180	Cotton cloth	Opened	Resin/resin	Wood, lacquers
KP 258 (Hungary)	A / P40-P220	P40-P60 - F-paper; P80-P220 - E-paper	Opened	Resin/resin	Wood, lacquers
Lux E (Poland)	A / P40-P240	E-paper with velcro cloth	Opened	Resin/resin	Softwood and hardwood, plywood, fibreboard
WBB waterproof (Italy)	C / P100-P1000	A,B-paper	Closed	Resin/resin	Paints, putties, primings
Aqua waterproof (Poland)	C / P100-P1000	A,C-paper	Closed	Resin/resin	Paints, putties, primings, lacquers, plastics
KK 19XW (Russia)	A / P20-P220 A / P5,4,M40	Cotton cloth	Closed	Resin/resin	Alloys with low hardness, wood, plastics

\* MDF - Medium Density Fiberboard  
HDF - High Density Fiberboard

# RECOMMENDATIONS ON SAFE USE OF FLEXIBLE BACKING ABRASIVES

## Transportation and Storage

Very careful storage of the abrasives during transportation is necessary. Avoid mechanical damages, for example strokes, drops or bends. Then provide protection against precipitation, dew, hoar-frost. Keep abrasives in dry nonfreezing places. Don't keep near heating devices, cold or damp walls, doors or windows, or directly on the floor. Preserve against a straight line of sun rays. Recommended temperature of storage is 18-22°C at relative humidity of air 45-65%. If possible store abrasives in its original packing. Store taken out of packing abrasives avoiding deformation.

## Recommendations on Safe Use of Endless Belts

1. 48 hours prior placing of belts on the machine they are taken out of original packing and hung on the core with minimum diameter 50 mm. If the minimum diameter of the core is less than 50 mm, it can lead to splits and cracks on the grinding belt.

2. Before start of work examine the belts if they were not damaged during transportation or as a result of careless storage.

3. Grinding belts of width more than 50 mm use only on grinders intended specially for them and satisfying to all safety requirements.

4. Before installation of the belt on the grinder or on the machine find on the inner side of the belt an indicator. During the work direction of grinding belt movement must coincide with the indicator.

5. Before start of work check up your equipment on efficiency, on preciseness of supporting elements: contact wheels, supporting cross-beam, presence of defending covers. **Never take off the cover while working on the grinder or machine!**

6. Put on the belt on the contact wheels without tension.

7. Start grinding only when the belt is strained and the grinder or machine reaches a maximum idling speed. At rotation the belt should move without beats and axial movements.

8. At working the grinding belt should be loaded uniformly from center.

9. Execute wet grinding only with belts intended for it.

10. Don't switch off the grinder or machine till the processed detail has a contact with the belt.

11. At wet grinding after the grinding process the supply of LSS stops and the grinding belt is started idling so long until cooling lubrication produced of abrasive belt stops to fly away.

12. For protection of your organism use protective gloves, glasses, gauze bandage or respirator from dust. Depending on grinding activities put on mask for protection of face, leather apron and secure footwear.

## Recommendations on Safe Use of the Wheels KLT

1. Before start of work examine the wheels if they were not damaged during transportation or as a result of careless storage.
2. Use grinder only in good working order. The rotational speed of the grinder's mandrel should not exceed revolutions per minute indicated on the wheel. **Never take off the cover while working on the grinder!**
3. Fix a wheel on the grinder's mandrel without skews, reliably drawn it by a nut-flange from a complete set of the grinder. Be certain that the wheel is reliably fixed.
4. Switch on the grinder and check up idling rotation of the wheel. At rotation it must move without beats and axial shifts. Begin grinding when the wheel reaches a maximum idling speed.
5. At working don't allow sharp loads, especially when you start processing of acute edges, protuberances. Enter a wheel in a contact with a processed surface smoothly at an angle 10-20°.
6. Basement of the wheel produced of fiberglass should not touch the processed surface. Contact should be only by the flaps of the coated abrasives.
7. At working don't forget that the sparks can cause ignition of LEF (easily flammable liquid) combustible materials, which should be eliminated from working space before start of work.
8. For protection of your organism use protective gloves, glasses, gauze bandage or respirator from dust. Depending on grinding activities put on mask for protection of face, leather apron and secure footwear.

## Recommendations on Safe Use of the Wheels KL and KLO

1. Flap wheels are used only on specially intended for it equipment. For strengthening of the wheel center special clamping flanges are used. Outer diameter of these flanges must correspond to outer diameter of metallic flanges of the flap wheel.
2. Before start of work examine the wheels if they were not damaged during transportation or as a result of careless storage.
3. Before start of work check up your equipment on efficiency. **Never take off the cover while working on the grinder or machine!**
4. The rotational speed of the grinder's mandrel should not exceed revolutions per minute indicated on the wheel.
5. Before installation of the wheel find an indicator on its label. While working direction of wheel rotation must coincide with the indicator.
6. Fix a wheel on the grinder's mandrel without skews, reliably drawn it by a specially intended for it clamp. Be certain that the wheel is reliably fixed.
7. Switch on the grinder and check up idling rotation of the wheel. At rotation it must move without beats and axial shifts. Begin grinding when the wheel reaches a maximum idling speed.
8. While working don't allow sharp loads especially when You start processing of acute edges, protuberances. For dusting off from a grinding area use an exhauster.
9. At wet grinding, after the grinding process the supply of lubrication cooling liquid (LSS) stops and flap wheel is started idling so long until cooling lubrication produced of abrasive belt stops to fly away from grinding tools.
10. For protection of your organism use protective gloves, glasses, gauze bandage or respirator from dust. Depending on grinding activities put on mask for protection of face, leather apron and secure footwear.

## Recommendations on Safe Use of Fiber Discs

1. Discs produced of grinding fiber are used only with suitable supporting plate. It is impossible to use the disc produced of grinding fiber as a supporting plate. Fiber disc diameter must be minimum 3 mm but not more than 15 mm less than diameter of the supporting disc.

2. Before start of work examine a wheel and a supporting plate if they were not damaged during transportation or as a result of careless storage. Don't use any damaged or deformed fiber discs and supporting plates.

3. Maximum working speed of the fiber disc is 80 m/s. The maximum alighted speed is indicated in the table (look section "Fiber discs"). Number of rotations of the grinder must be equal or less than number of fiber discs rotations.

4. Before start of work check up your equipment on efficiency. **Never take off the cover while working on the grinder!**

5. Fix a disc and a supporting plate on the grinder's mandrel without skews, reliably drawn it by a specially intended for it clamp. Be certain that they are reliably fixed. The disc should adjoin to the supporting at the angle of 10°.

6. Switch on the grinder and check up the idle rotation of the disk. While rotation it should move without beats and axial shifts. Begin grinding when the wheel reaches maximum idle speed.

7. While grinding of contours or edges of power welds the disc isn't conducted beforehand in a grinding area in order to avoid chips on the edge of the disc.

8. For protection of your organism use protective gloves, glasses, gauze bandage or respirator from dust. Depending on grinding activities put on mask for protection of face, leather aprons and secure footwear.



Protective  
Gloves  
are required



Consider safety  
recommendations



Put on  
a respirator



Protection of eyes  
is required



Anti-noise  
Protection  
is required

Safety precautions under the GOST R 52588-2011 (EN 12413; EN13743)

# FLAP BUTT-END AND RADIAL WHEELS FOR HAND PORTABLE GRINDERS

## Flap Butt-end Grinding Wheels

For different kinds of operation performed and fields of application two new series of flap butt-end wheels were developed by plant's specialists.

Series *“Professional”*



The given series is intended for high-efficiency machining of all kinds of material. High stability of the tool and large removal of the processed material are main advantages of this series' wheels.

Series *“Economy”*

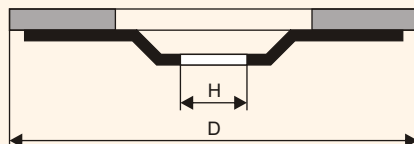


The given series is intended for universal processing of all kinds of material. Optimal ratio of price and quality, high performance at normal load are main advantages of this series' wheels.

The given series are produced in the wheels of two types: KLT1 (flap butt-end wheel 1) and KLT2 (flap butt-end wheel 2).




## Type KLT 1



For flat grinding, processing of edges and welding joints of the details and constructions made of different types of steels, non-ferrous metals and wood.

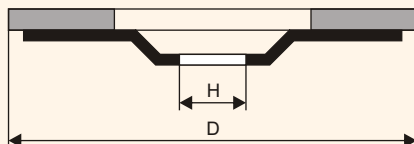


**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
100	16	A 24	15300	80
100	16	A 36	15300	80
100	16	A 40	15300	80
100	16	A 50	15300	80
100	16	A 60	15300	80
100	16	A 80	15300	80
100	16	A 100	15300	80
100	16	A 120	15300	80
100	16	A 150	15300	80
100	16	A 180	15300	80
100	16	A 220	15300	80
100	22.23	A 24	15300	80
100	22.23	A 36	15300	80
100	22.23	A 40	15300	80
100	22.23	A 50	15300	80
100	22.23	A 60	15300	80
100	22.23	A 80	15300	80
100	22.23	A 100	15300	80
100	22.23	A 120	15300	80
100	22.23	A 150	15300	80
100	22.23	A 180	15300	80
100	22.23	A 220	15300	80
115	22.23	A 24	13300	80
115	22.23	A 36	13300	80
115	22.23	A 40	13300	80
115	22.23	A 50	13300	80

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KLT 1



For flat grinding, processing of edges and welding joints of the details and constructions made of different types of steels, non-ferrous metals and wood.

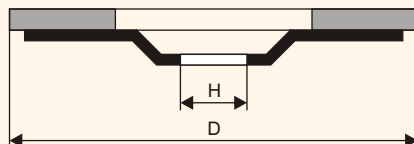


**80m/s**

D <sub>i</sub> mm	H <sub>i</sub> mm	Characteristic	Working speed, RPM	
115	22.23	A 60	13300	80
115	22.23	A 80	13300	80
115	22.23	A 100	13300	80
115	22.23	A 120	13300	80
115	22.23	A 150	13300	80
115	22.23	A 180	13300	80
115	22.23	A 220	13300	80
125	22.23	A 24	12250	80
125	22.23	A 36	12250	80
125	22.23	A 40	12250	80
125	22.23	A 50	12250	80
125	22.23	A 60	12250	80
125	22.23	A 80	12250	80
125	22.23	A 100	12250	80
125	22.23	A 120	12250	80
125	22.23	A 150	12250	80
125	22.23	A 180	12250	80
125	22.23	A 220	12250	80
150	22.23	A 24	10200	60
150	22.23	A 36	10200	60
150	22.23	A 40	10200	60
150	22.23	A 50	10200	60
150	22.23	A 60	10200	60
150	22.23	A 80	10200	60
150	22.23	A 100	10200	60
150	22.23	A 120	10200	60
150	22.23	A 150	10200	60
150	22.23	A 180	10200	60
150	22.23	A 220	10200	60
180	22.23	A 24	8500	40
180	22.23	A 36	8500	40
180	22.23	A 40	8500	40
180	22.23	A 50	8500	40

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type KLT 1



For flat grinding, processing of edges and welding joints of the details and constructions made of different types of steels, non-ferrous metals and wood.



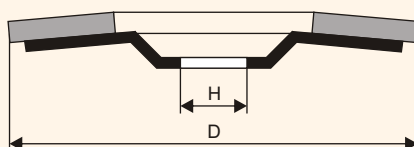
**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
180	22.23	A 60	8500	40
180	22.23	A 80	8500	40
180	22.23	A 100	8500	40
180	22.23	A 120	8500	40
180	22.23	A 150	8500	40
180	22.23	A 180	8500	40
180	22.23	A 220	8500	40
200	22.23	A 24 - A 320	7650	40

**Новинка!**

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Type KLT 2



For processing of places difficult of access, butt-end and flat grinding of the details and constructions made of different types of steels, non-ferrous metals and wood.

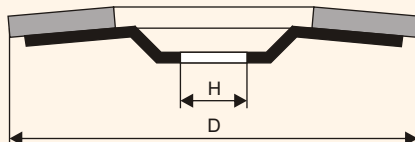


**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
115	22.23	A 24	13300	80
115	22.23	A 36	13300	80
115	22.23	A 40	13300	80
115	22.23	A 50	13300	80
115	22.23	A 60	13300	80
115	22.23	A 80	13300	80
115	22.23	A 100	13300	80
115	22.23	A 120	13300	80
115	22.23	A 150	13300	80
115	22.23	A 180	13300	80
115	22.23	A 220	13300	80

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KLT 2



For processing of places difficult of access, butt-end and flat grinding of the details and constructions made of different types of steels, non-ferrous metals and wood.



**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
125	22.23	A 24	12250	80
125	22.23	A 36	12250	80
125	22.23	A 40	12250	80
125	22.23	A 50	12250	80
125	22.23	A 60	12250	80
125	22.23	A 80	12250	80
125	22.23	A 100	12250	80
125	22.23	A 120	12250	80
125	22.23	A 150	12250	80
125	22.23	A 180	12250	80
125	22.23	A 220	12250	80
150	22.23	A 24	10200	60
150	22.23	A 36	10200	60
150	22.23	A 40	10200	60
150	22.23	A 50	10200	60
150	22.23	A 60	10200	60
150	22.23	A 80	10200	60
150	22.23	A 100	10200	60
150	22.23	A 120	10200	60
150	22.23	A 150	10200	60
150	22.23	A 180	10200	60
150	22.23	A 220	10200	60
180	22.23	A 24	8500	40
180	22.23	A 36	8500	40
180	22.23	A 40	8500	40
180	22.23	A 50	8500	40
180	22.23	A 60	8500	40
180	22.23	A 80	8500	40
180	22.23	A 100	8500	40
180	22.23	A 120	8500	40
180	22.23	A 150	8500	40
180	22.23	A 180	8500	40
180	22.23	A 220	8500	40

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

## Flap Butt-end Wheels

Flap butt-end wheels KLT 3 are intended for processing all kinds of materials (metal, wood, plastic).

**Novelty!**

### Type KLT 3

The basic feature of wheels KLT 3 by which they differ from other types of flap butt-end wheels is the existence of pair petals - the basic and auxiliary.



### The new design of wheels allows:

1. To increase the machining speed - at identical granularity of the basic and auxiliary petals (A 40/40).

It occurs due to the extension of the contact area of the auxiliary petal with a surface of a processed product.

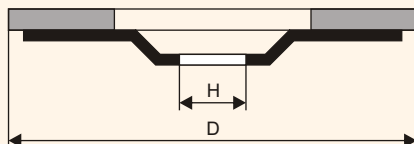
2. To improve the quality of a processed surface working with the wheel with an auxiliary petal of smaller granularity (A 40/60).

3. To produce wheels with the price / quality ratio more attractive to the consumer.

Thanks to new technologies the conversion cost has decreased without the change of the quality of petals.

The wheels can be used on the angle grinders with rotation speed not exceeding the description which is pointed on the wheel.


## Type KLT 3



For flat grinding, processing of the edges and welding joints the details and constructions made of different types of steels, non-ferrous metals and wood.



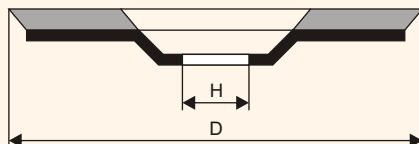
**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
115	22.23	A 40/40	13300	80
115	22.23	A 60/60	13300	80
115	22.23	A 80/80	13300	80
125	22.23	A 40/40	12250	80
125	22.23	A 60/60	12250	80
125	22.23	A 80/80	12250	80
150	22.23	A 40/40	10200	60
150	22.23	A 60/60	10200	60
150	22.23	A 80/80	10200	60
180	22.23	A 40/40	8500	40
180	22.23	A 60/60	8500	40
180	22.23	A 80/80	8500	40

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



## Type KLT 4




The new flap disposing structure increases the wheel flexibility and thus gives an opportunity to treat contour surfaces of the details and constructions made of different types of steels, non-ferrous metals and wood.

Contact zone between working area of the wheel and the product is 40% more than that of KLT 1 and KLT 2.

Using KLT 4 you can achieve high-quality treatment quicker than with the fiber disc.



**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
115	22.23	A 24	13300	80
115	22.23	A 36	13300	80
115	22.23	A 40	13300	80
115	22.23	A 50	13300	80
115	22.23	A 60	13300	80
115	22.23	A 80	13300	80
115	22.23	A 100	13300	80
115	22.23	A 120	13300	80
115	22.23	A 150	13300	80
115	22.23	A 180	13300	80
115	22.23	A 220	13300	80
115	22.23	A 240	13300	80
115	22.23	A 320	13300	80
125	22.23	A 24	12250	80
125	22.23	A 36	12250	80
125	22.23	A 40	12250	80
125	22.23	A 50	12250	80
125	22.23	A 60	12250	80
125	22.23	A 80	12250	80
125	22.23	A 100	12250	80
125	22.23	A 120	12250	80
125	22.23	A 150	12250	80
125	22.23	A 180	12250	80
125	22.23	A 220	12250	80
125	22.23	A 240	12250	80
125	22.23	A 320	12250	80

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# Elastic Flap Butt-end Wheels

new kind of the flap wheel  
for multi-function grinding the production  
made of metal and other materials (wood, plastic)

**Novelty!**

## Type KLT 5



## Major advantages:

1. Two times increased flaps projection noutside of the mounts allows:
  - to make processing in corners, bends and also processing of plane and contour surfaces;
  - to raise efficiency of the wheel's working part cooling, that increases tool lifetime greatly.
2. Plane type of the mount construction allows to process hard-to-reach places.
3. Increased quantity of the flaps provides more effective and long-lived lifetime of the wheel.
4. Increased corner of the flaps position enables to use wheels for various operations:

### - for rough grinding

Flaps are compacted at the intensify pressing on the wheel and provide the greater removal of the processed material.

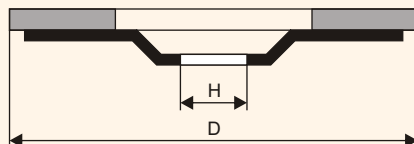
### - for thin grinding

Flaps spring at the easy pressing on the wheel.

It allows to reduce removal of the processed material at the cutting-down or planarization of the surface.

The wheels can be used on the angle grinders with rotation speed not exceeding the description which is pointed on the wheel.

## Type KLT 5




For flat grinding, processing of edges and welding joints of the details and constructions made of different types of steels, non-ferrous metals and wood.



**80m/s**

**Novelty!**

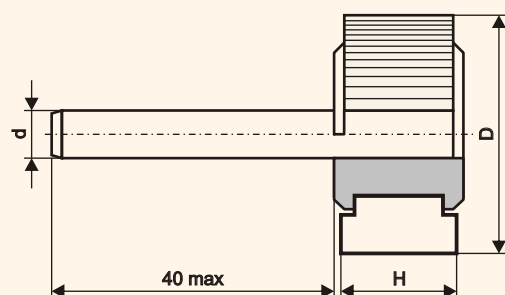
D, mm	H, mm	Characteristic	Working speed, RPM	
102	15.9	A 40	15300	80
102	15.9	A 60	15300	80
102	15.9	A 80	15300	80
102	15.9	A 100	15300	80
102	15.9	A 120	15300	80
115	22.23	A 40	13300	80
115	22.23	A 60	13300	80
115	22.23	A 80	13300	80
115	22.23	A 100	13300	80
115	22.23	A 120	13300	80
125	22.23	A 40	12250	80
125	22.23	A 60	12250	80
125	22.23	A 80	12250	80
125	22.23	A 100	12250	80
125	22.23	A 100	12250	80
150	22.23	A 40	10200	60
150	22.23	A 60	10200	60
150	22.23	A 80	10200	60
150	22.23	A 100	10200	60
150	22.23	A 120	10200	60
180	22.23	A 40	8500	40
180	22.23	A 60	8500	40
180	22.23	A 80	8500	40
180	22.23	A 100	8500	40
180	22.23	A 120	8500	40

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# Flap Radial Grinding Wheels


## Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.

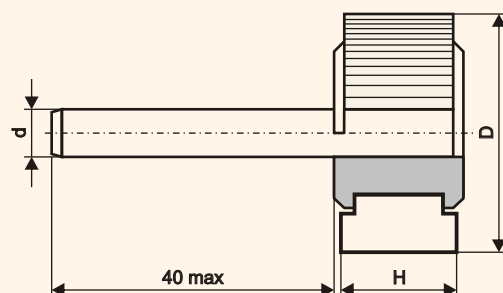


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
25	10	6	A 40	30600	25
25	10	6	A 50	30600	25
25	10	6	A 60	30600	25
25	10	6	A 80	30600	25
25	10	6	A 100	30600	25
25	10	6	A 120	30600	25
25	10	6	A 150	30600	25
25	10	6	A 180	30600	25
25	10	6	A 220	30600	25
25	10	6	A 240	30600	25
25	10	6	A 320	30600	25
25	15	6	A 40	30600	25
25	15	6	A 50	30600	25
25	15	6	A 60	30600	25
25	15	6	A 80	30600	25
25	15	6	A 100	30600	25
25	15	6	A 120	30600	25
25	15	6	A 150	30600	25
25	15	6	A 180	30600	25
25	15	6	A 220	30600	25
25	15	6	A 240	30600	25
25	15	6	A 320	30600	25
25	20	6	A 40	30600	25
25	20	6	A 50	30600	25
25	20	6	A 60	30600	25
25	20	6	A 80	30600	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.

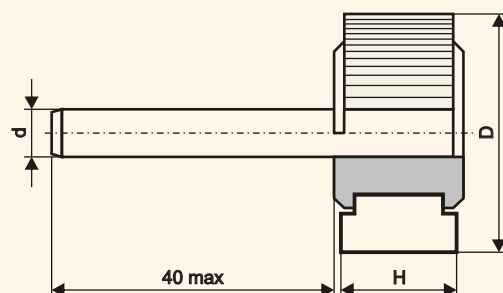


**40 m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
25	20	6	A 100	30600	25
25	20	6	A 120	30600	25
25	20	6	A 150	30600	25
25	20	6	A 180	30600	25
25	20	6	A 220	30600	25
25	20	6	A 240	30600	25
25	20	6	A 320	30600	25
25	30	6	A 40	30600	25
25	30	6	A 50	30600	25
25	30	6	A 60	30600	25
25	30	6	A 80	30600	25
25	30	6	A 100	30600	25
25	30	6	A 120	30600	25
25	30	6	A 150	30600	25
25	30	6	A 180	30600	25
25	30	6	A 220	30600	25
25	30	6	A 240	30600	25
25	30	6	A 320	30600	25
30	10	6	A 40	25480	25
30	10	6	A 50	25480	25
30	10	6	A 60	25480	25
30	10	6	A 80	25480	25
30	10	6	A 100	25480	25
30	10	6	A 120	25480	25
30	10	6	A 150	25480	25
30	10	6	A 180	25480	25
30	10	6	A 220	25480	25
30	10	6	A 240	25480	25
30	10	6	A 320	25480	25
30	15	6	A 40	25480	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.

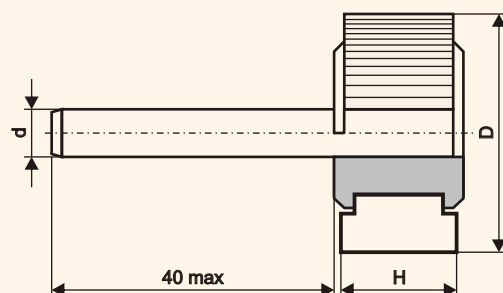


**40 m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
30	15	6	A 50	25480	25
30	15	6	A 60	25480	25
30	15	6	A 80	25480	25
30	15	6	A 100	25480	25
30	15	6	A 120	25480	25
30	15	6	A 150	25480	25
30	15	6	A 180	25480	25
30	15	6	A 220	25480	25
30	15	6	A 240	25480	25
30	15	6	A 320	25480	25
30	20	6	A 40	25480	25
30	20	6	A 50	25480	25
30	20	6	A 60	25480	25
30	20	6	A 80	25480	25
30	20	6	A 100	25480	25
30	20	6	A 120	25480	25
30	20	6	A 150	25480	25
30	20	6	A 180	25480	25
30	20	6	A 220	25480	25
30	20	6	A 240	25480	25
30	20	6	A 320	25480	25
30	30	6	A 40	25480	25
30	30	6	A 50	25480	25
30	30	6	A 60	25480	25
30	30	6	A 80	25480	25
30	30	6	A 100	25480	25
30	30	6	A 120	25480	25
30	30	6	A 150	25480	25
30	30	6	A 180	25480	25
30	30	6	A 220	25480	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


# Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.

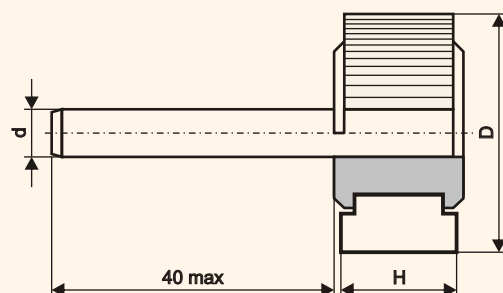


**40 m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
30	30	6	A 240	25480	25
30	30	6	A 320	25480	25
40	10	6	A 40	19100	25
40	10	6	A 50	19100	25
40	10	6	A 60	19100	25
40	10	6	A 80	19100	25
40	10	6	A 100	19100	25
40	10	6	A 120	19100	25
40	10	6	A 150	19100	25
40	10	6	A 180	19100	25
40	10	6	A 220	19100	25
40	10	6	A 240	19100	25
40	10	6	A 320	19100	25
40	15	6	A 40	19100	25
40	15	6	A 50	19100	25
40	15	6	A 60	19100	25
40	15	6	A 80	19100	25
40	15	6	A 100	19100	25
40	15	6	A 120	19100	25
40	15	6	A 150	19100	25
40	15	6	A 180	19100	25
40	15	6	A 220	19100	25
40	15	6	A 240	19100	25
40	15	6	A 320	19100	25
40	20	6	A 40	19100	25
40	20	6	A 50	19100	25
40	20	6	A 60	19100	25
40	20	6	A 80	19100	25
40	20	6	A 100	19100	25
40	20	6	A 120	19100	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


# Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.



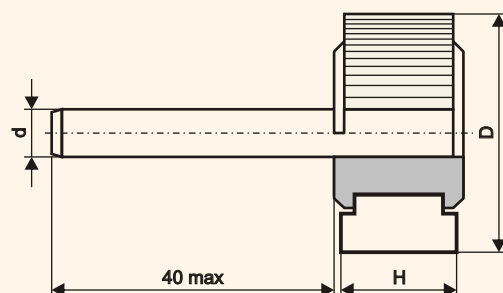
**40 m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
40	20	6	A 150	19100	25
40	20	6	A 180	19100	25
40	20	6	A 220	19100	25
40	20	6	A 240	19100	25
40	20	6	A 320	19100	25
40	30	6	A 40	19100	25
40	30	6	A 50	19100	25
40	30	6	A 60	19100	25
40	30	6	A 80	19100	25
40	30	6	A 100	19100	25
40	30	6	A 120	19100	25
40	30	6	A 150	19100	25
40	30	6	A 180	19100	25
40	30	6	A 220	19100	25
40	30	6	A 240	19100	25
40	30	6	A 320	19100	25
50	10	6	A 40	15300	25
50	10	6	A 50	15300	25
50	10	6	A 60	15300	25
50	10	6	A 80	15300	25
50	10	6	A 100	15300	25
50	10	6	A 120	15300	25
50	10	6	A 150	15300	25
50	10	6	A 180	15300	25
50	10	6	A 220	15300	25
50	10	6	A 240	15300	25
50	10	6	A 320	15300	25
50	15	6	A 40	15300	25
50	15	6	A 50	15300	25
50	15	6	A 60	15300	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.




## Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.

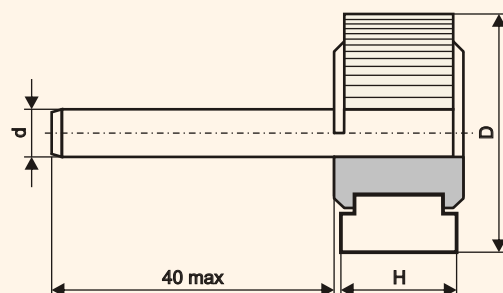


**40 m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
50	15	6	A 80	15300	25
50	15	6	A 100	15300	25
50	15	6	A 120	15300	25
50	15	6	A 150	15300	25
50	15	6	A 180	15300	25
50	15	6	A 220	15300	25
50	15	6	A 240	15300	25
50	15	6	A 320	15300	25
50	20	6	A 40	15300	25
50	20	6	A 50	15300	25
50	20	6	A 60	15300	25
50	20	6	A 80	15300	25
50	20	6	A 100	15300	25
50	20	6	A 120	15300	25
50	20	6	A 150	15300	25
50	20	6	A 180	15300	25
50	20	6	A 220	15300	25
50	20	6	A 240	15300	25
50	20	6	A 320	15300	25
50	30	6	A 40	15300	25
50	30	6	A 50	15300	25
50	30	6	A 60	15300	25
50	30	6	A 80	15300	25
50	30	6	A 100	15300	25
50	30	6	A 120	15300	25
50	30	6	A 150	15300	25
50	30	6	A 180	15300	25
50	30	6	A 220	15300	25
50	30	6	A 240	15300	25
50	30	6	A 320	15300	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.

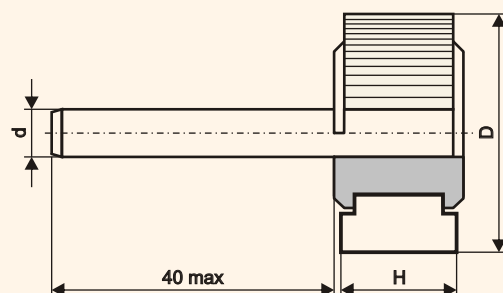


**40 m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
60	10	6	A 40	12740	25
60	10	6	A 50	12740	25
60	10	6	A 60	12740	25
60	10	6	A 80	12740	25
60	10	6	A 100	12740	25
60	10	6	A 120	12740	25
60	10	6	A 150	12740	25
60	10	6	A 180	12740	25
60	10	6	A 220	12740	25
60	10	6	A 240	12740	25
60	10	6	A 320	12740	25
60	15	6	A 40	12740	25
60	15	6	A 50	12740	25
60	15	6	A 60	12740	25
60	15	6	A 80	12740	25
60	15	6	A 100	12740	25
60	15	6	A 120	12740	25
60	15	6	A 150	12740	25
60	15	6	A 180	12740	25
60	15	6	A 220	12740	25
60	15	6	A 240	12740	25
60	15	6	A 320	12740	25
60	20	6	A 40	12740	25
60	20	6	A 50	12740	25
60	20	6	A 60	12740	25
60	20	6	A 80	12740	25
60	20	6	A 100	12740	25
60	20	6	A 120	12740	25
60	20	6	A 150	12740	25
60	20	6	A 180	12740	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


# Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.

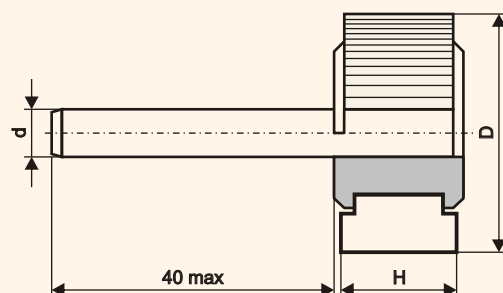


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
60	20	6	A 220	12740	25
60	20	6	A 240	12740	25
60	20	6	A 320	12740	25
60	30	6	A 40	12740	25
60	30	6	A 50	12740	25
60	30	6	A 60	12740	25
60	30	6	A 80	12740	25
60	30	6	A 100	12740	25
60	30	6	A 120	12740	25
60	30	6	A 150	12740	25
60	30	6	A 180	12740	25
60	30	6	A 220	12740	25
60	30	6	A 240	12740	25
60	30	6	A 320	12740	25
60	40	6	A 40	12740	25
60	40	6	A 50	12740	25
60	40	6	A 60	12740	25
60	40	6	A 80	12740	25
60	40	6	A 100	12740	25
60	40	6	A 120	12740	25
60	40	6	A 150	12740	25
60	40	6	A 180	12740	25
60	40	6	A 220	12740	25
60	40	6	A 240	12740	25
60	40	6	A 320	12740	25
60	50	6	A 40	12740	25
60	50	6	A 50	12740	25
60	50	6	A 60	12740	25
60	50	6	A 80	12740	25
60	50	6	A 100	12740	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.

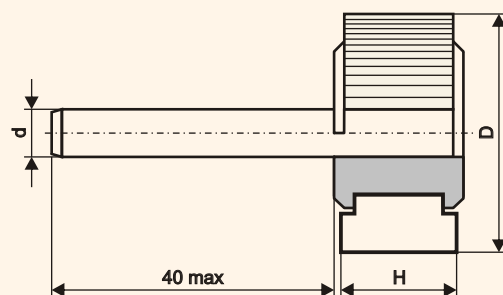


**40 m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
60	50	6	A 120	12740	25
60	50	6	A 150	12740	25
60	50	6	A 180	12740	25
60	50	6	A 220	12740	25
60	50	6	A 240	12740	25
60	50	6	A 320	12740	25
80	20	6	A 40	9550	25
80	20	6	A 50	9550	25
80	20	6	A 60	9550	25
80	20	6	A 80	9550	25
80	20	6	A 100	9550	25
80	20	6	A 120	9550	25
80	20	6	A 150	9550	25
80	20	6	A 180	9550	25
80	20	6	A 220	9550	25
80	20	6	A 240	9550	25
80	20	6	A 320	9550	25
80	30	6	A 40	9550	25
80	30	6	A 50	9550	25
80	30	6	A 60	9550	25
80	30	6	A 80	9550	25
80	30	6	A 100	9550	25
80	30	6	A 120	9550	25
80	30	6	A 150	9550	25
80	30	6	A 180	9550	25
80	30	6	A 220	9550	25
80	30	6	A 240	9550	25
80	30	6	A 320	9550	25
80	40	6	A 40	9550	25
80	40	6	A 50	9550	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KLO



For processing of the complex details and constructions made of different types of steels, non-ferrous metals, plastic and wood. Used for draft, intermediate and final grinding.

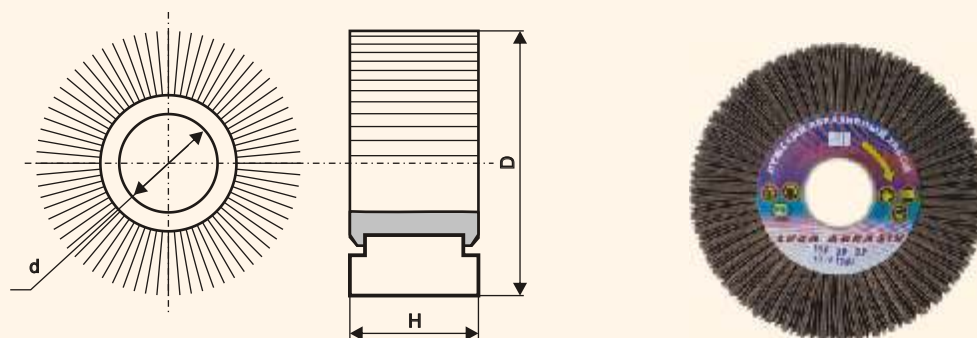


**40 m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
80	40	6	A 60	9550	25
80	40	6	A 80	9550	25
80	40	6	A 100	9550	25
80	40	6	A 120	9550	25
80	40	6	A 150	9550	25
80	40	6	A 180	9550	25
80	40	6	A 220	9550	25
80	40	6	A 240	9550	25
80	40	6	A 320	9550	25
80	50	6	A 40	9550	25
80	50	6	A 50	9550	25
80	50	6	A 60	9550	25
80	50	6	A 80	9550	25
80	50	6	A 100	9550	25
80	50	6	A 120	9550	25
80	50	6	A 150	9550	25
80	50	6	A 180	9550	25
80	50	6	A 220	9550	25
80	50	6	A 240	9550	25
80	50	6	A 320	9550	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


# Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

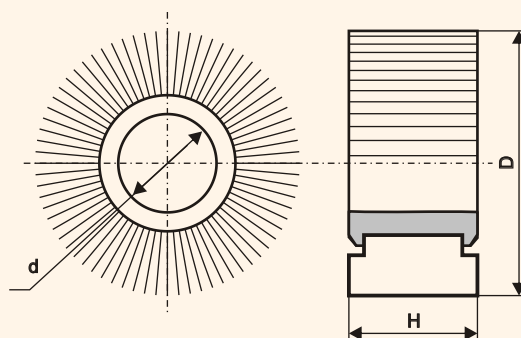


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
60	10	8; 12	A 36	12730	50
60	10	8; 12	A 40	12730	50
60	10	8; 12	A 50	12730	50
60	10	8; 12	A 60	12730	50
60	10	8; 12	A 80	12730	50
60	10	8; 12	A 100	12730	50
60	10	8; 12	A 120	12730	50
60	10	8; 12	A 150	12730	50
60	10	8; 12	A 180	12730	50
60	10	8; 12	A 220	12730	50
60	10	8; 12	A 240	12730	50
60	10	8; 12	A 320	12730	50
60	15	8; 12	A 36	12730	50
60	15	8; 12	A 40	12730	50
60	15	8; 12	A 50	12730	50
60	15	8; 12	A 60	12730	50
60	15	8; 12	A 80	12730	50
60	15	8; 12	A 100	12730	50
60	15	8; 12	A 120	12730	50
60	15	8; 12	A 150	12730	50
60	15	8; 12	A 180	12730	50
60	15	8; 12	A 220	12730	50
60	15	8; 12	A 240	12730	50
60	15	8; 12	A 320	12730	50
60	20	8; 12	A 36	12730	50
60	20	8; 12	A 40	12730	50

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.



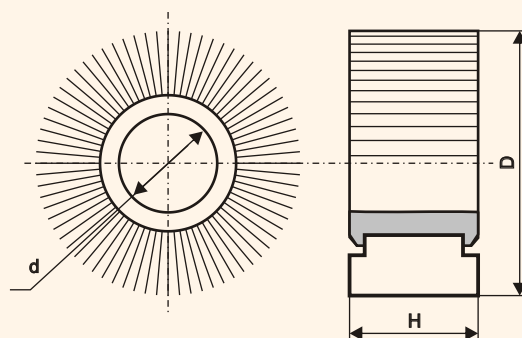
**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
60	20	8; 12	A 50	12730	50
60	20	8; 12	A 60	12730	50
60	20	8; 12	A 80	12730	50
60	20	8; 12	A 100	12730	50
60	20	8; 12	A 120	12730	50
60	20	8; 12	A 150	12730	50
60	20	8; 12	A 180	12730	50
60	20	8; 12	A 220	12730	50
60	20	8; 12	A 240	12730	50
60	20	8; 12	A 320	12730	50
60	30	8; 12	A 36	12730	50
60	30	8; 12	A 40	12730	50
60	30	8; 12	A 50	12730	50
60	30	8; 12	A 60	12730	50
60	30	8; 12	A 80	12730	50
60	30	8; 12	A 100	12730	50
60	30	8; 12	A 120	12730	50
60	30	8; 12	A 150	12730	50
60	30	8; 12	A 180	12730	50
60	30	8; 12	A 220	12730	50
60	30	8; 12	A 240	12730	50
60	30	8; 12	A 320	12730	50
60	40	8; 12	A 36	12730	50
60	40	8; 12	A 40	12730	50
60	40	8; 12	A 50	12730	50
60	40	8; 12	A 60	12730	50

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.




## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

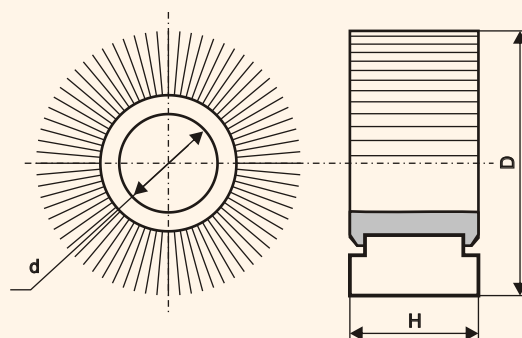


### 40m/s

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
60	40	8; 12	A 80	12730	50
60	40	8; 12	A 100	12730	50
60	40	8; 12	A 120	12730	50
60	40	8; 12	A 150	12730	50
60	40	8; 12	A 180	12730	50
60	40	8; 12	A 220	12730	50
60	40	8; 12	A 240	12730	50
60	40	8; 12	A 320	12730	50
80	30	8; 12	A 36	9550	50
80	30	8; 12	A 40	9550	50
80	30	8; 12	A 50	9550	50
80	30	8; 12	A 60	9550	50
80	30	8; 12	A 80	9550	50
80	30	8; 12	A 100	9550	50
80	30	8; 12	A 120	9550	50
80	30	8; 12	A 150	9550	50
80	30	8; 12	A 180	9550	50
80	30	8; 12	A 220	9550	50
80	30	8; 12	A 240	9550	50
80	30	8; 12	A 320	9550	50
80	40	8; 12	A 40	9550	50
80	40	8; 12	A 50	9550	50
80	40	8; 12	A 60	9550	50
80	40	8; 12	A 80	9550	50
80	40	8; 12	A 100	9550	50
80	40	8; 12	A 120	9550	50

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

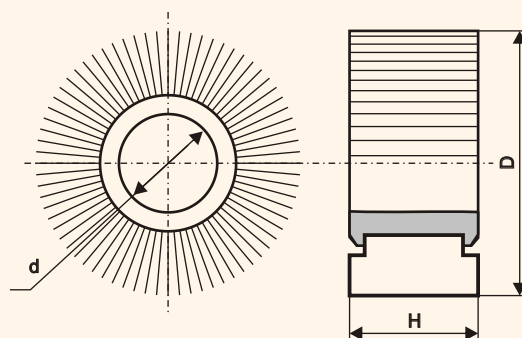


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
80	40	8; 12	A 150	9550	50
80	40	8; 12	A 180	9550	50
80	40	8; 12	A 220	9550	50
80	40	8; 12	A 240	9550	25
80	40	8; 12	A 320	9550	25
80	50	8; 12	A 40	9550	50
80	50	8; 12	A 50	9550	25
80	50	8; 12	A 60	9550	25
80	50	8; 12	A 80	9550	50
80	50	8; 12	A 100	9550	25
80	50	8; 12	A 120	9550	25
80	50	8; 12	A 150	9550	25
80	50	8; 12	A 180	9550	25
80	50	8; 12	A 220	9550	25
80	50	8; 12	A 240	9550	25
80	50	8; 12	A 320	9550	25
80	60	8; 12	A 36	9550	50
80	60	8; 12	A 40	9550	50
80	60	8; 12	A 50	9550	50
80	60	8; 12	A 60	9550	50
80	60	8; 12	A 80	9550	25
80	60	8; 12	A 100	9550	25
80	60	8; 12	A 120	9550	25
80	60	8; 12	A 150	9550	25
80	60	8; 12	A 180	9550	25
80	60	8; 12	A 220	9550	25

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


# Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

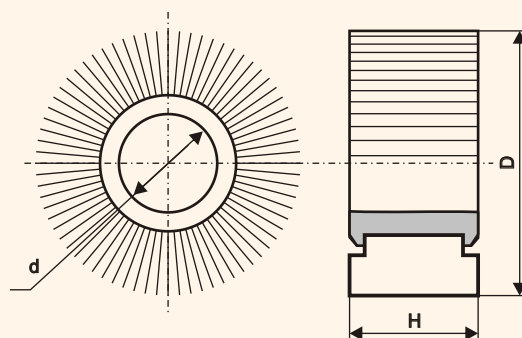


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
80	60	8; 12	A 240	9550	25
80	60	8; 12	A 320	9550	25
80	70	8; 12	A 36	9550	25
80	70	8; 12	A 40	9550	25
80	70	8; 12	A 50	9550	25
80	70	8; 12	A 60	9550	25
80	70	8; 12	A 80	9550	25
80	70	8; 12	A 100	9550	25
80	70	8; 12	A 120	9550	25
80	70	8; 12	A 150	9550	25
80	70	8; 12	A 180	9550	25
80	70	8; 12	A 220	9550	25
80	70	8; 12	A 240	9550	25
80	70	8; 12	A 320	9550	25
100	50	8; 12	A 36	7650	20
100	50	8; 12	A 40	7650	20
100	50	8; 12	A 50	7650	20
100	50	8; 12	A 60	7650	20
100	50	8; 12	A 80	7650	20
100	50	8; 12	A 100	7650	20
100	50	8; 12	A 120	7650	20
100	50	8; 12	A 150	7650	20
100	50	8; 12	A 180	7650	20
100	50	8; 12	A 220	7650	20
100	50	8; 12	A 240	7650	20
100	50	8; 12	A 320	7650	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

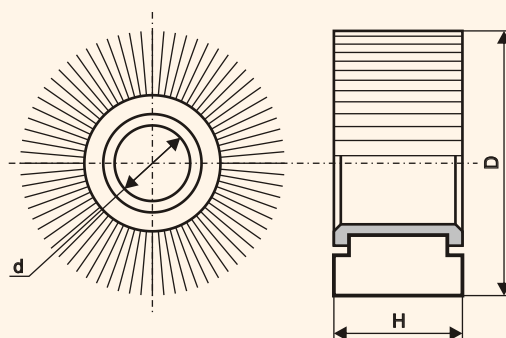


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
100	60	8; 12	A 36	7650	20
100	60	8; 12	A 40	7650	20
100	60	8; 12	A 50	7650	20
100	60	8; 12	A 60	7650	20
100	60	8; 12	A 80	7650	20
100	60	8; 12	A 100	7650	20
100	60	8; 12	A 120	7650	20
100	60	8; 12	A 150	7650	20
100	60	8; 12	A 180	7650	20
100	60	8; 12	A 220	7650	20
100	60	8; 12	A 240	7650	20
100	60	8; 12	A 320	7650	20
100	70	8; 12	A 36	7650	20
100	70	8; 12	A 40	7650	20
100	70	8; 12	A 50	7650	20
100	70	8; 12	A 60	7650	20
100	70	8; 12	A 80	7650	20
100	70	8; 12	A 100	7650	20
100	70	8; 12	A 120	7650	20
100	70	8; 12	A 150	7650	20
100	70	8; 12	A 180	7650	20
100	70	8; 12	A 220	7650	20
100	70	8; 12	A 240	7650	20
100	70	8; 12	A 320	7650	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

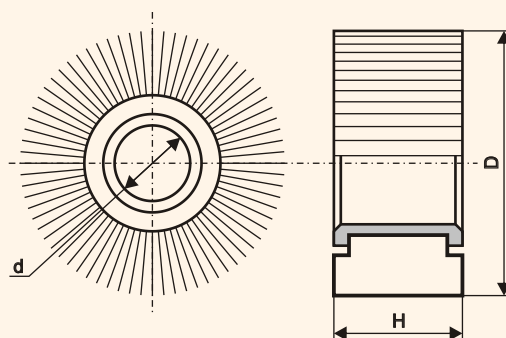


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
90	25	12; 22.23	A 36	8480	20
90	25	12; 22.23	A 40	8480	20
90	25	12; 22.23	A 50	8480	20
90	25	12; 22.23	A 60	8480	20
90	25	12; 22.23	A 80	8480	20
90	25	12; 22.23	A 100	8480	20
90	25	12; 22.23	A 120	8480	20
90	25	12; 22.23	A 150	8480	20
90	25	12; 22.23	A 180	8480	20
90	25	12; 22.23	A 220	8480	20
90	25	12; 22.23	A 240	8480	20
90	25	12; 22.23	A 320	8480	20
90	25	12; 22.23	A 400	8480	20
90	25	12; 22.23	A 500	8480	20
90	30	12; 22.23	A 36	8480	20
90	30	12; 22.23	A 40	8480	20
90	30	12; 22.23	A 50	8480	20
90	30	12; 22.23	A 60	8480	20
90	30	12; 22.23	A 80	8480	20
90	30	12; 22.23	A 100	8480	20
90	30	12; 22.23	A 120	8480	20
90	30	12; 22.23	A 150	8480	20
90	30	12; 22.23	A 180	8480	20
90	30	12; 22.23	A 220	8480	20
90	30	12; 22.23	A 240	8480	20
90	30	12; 22.23	A 320	8480	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

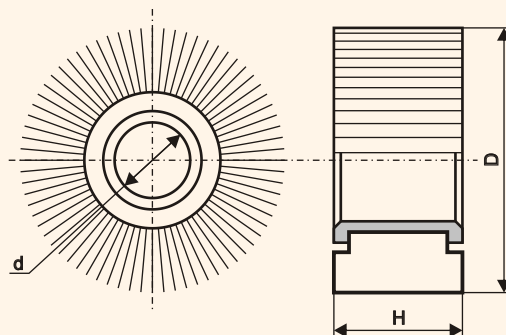


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
90	30	12; 22.23	A 400	8480	20
90	30	12; 22.23	A 500	8480	20
90	50	12; 22.23	A 40	8480	20
90	50	12; 22.23	A 50	8480	20
90	50	12; 22.23	A 60	8480	20
90	50	12; 22.23	A 80	8480	20
90	50	12; 22.23	A 100	8480	20
90	50	12; 22.23	A 120	8480	20
90	50	12; 22.23	A 150	8480	20
90	50	12; 22.23	A 180	8480	20
90	50	12; 22.23	A 220	8480	20
90	50	12; 22.23	A 240	8480	20
90	50	12; 22.23	A 320	8480	20
90	50	12; 22.23	A 400	8480	20
90	50	12; 22.23	A 500	8480	20
120	25	12; 22.23; 32	A 36	6360	20
120	25	12; 22.23; 32	A 40	6360	20
120	25	12; 22.23; 32	A 50	6360	20
120	25	12; 22.23; 32	A 60	6360	20
120	25	12; 22.23; 32	A 80	6360	20
120	25	12; 22.23; 32	A 100	6360	20
120	25	12; 22.23; 32	A 120	6360	20
120	25	12; 22.23; 32	A 150	6360	20
120	25	12; 22.23; 32	A 180	6360	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.



**40m/s**

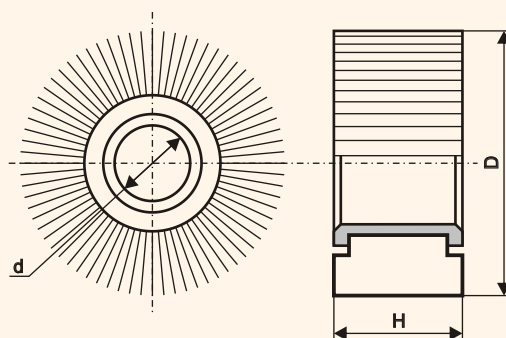
D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
120	25	12; 22.23; 32	A 220	6360	20
120	25	12; 22.23; 32	A 240	6360	20
120	25	12; 22.23; 32	A 320	6360	20
120	25	12; 22.23; 32	A 400	6360	20
120	25	12; 22.23; 32	A 500	6360	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.






## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

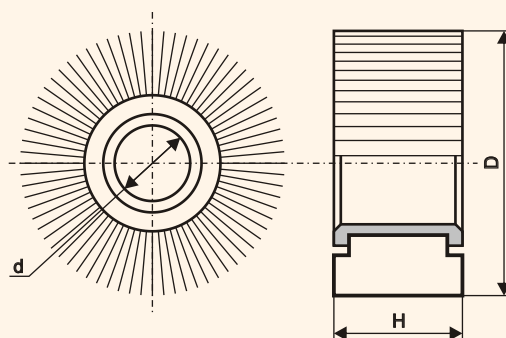


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
120	30	12; 22.23; 32	A 36	6360	20
120	30	12; 22.23; 32	A 40	6360	20
120	30	12; 22.23; 32	A 50	6360	20
120	30	12; 22.23; 32	A 60	6360	20
120	30	12; 22.23; 32	A 80	6360	20
120	30	12; 22.23; 32	A 100	6360	20
120	30	12; 22.23; 32	A 120	6360	20
120	30	12; 22.23; 32	A 150	6360	20
120	30	12; 22.23; 32	A 180	6360	20
120	30	12; 22.23; 32	A 220	6360	20
120	30	12; 22.23; 32	A 240	6360	20
120	30	12; 22.23; 32	A 320	6360	20
120	30	12; 22.23; 32	A 400	6360	20
120	30	12; 22.23; 32	A 500	6360	20
120	40	12; 22.23; 32	A 40	6360	20
120	40	12; 22.23; 32	A 50	6360	20
120	40	12; 22.23; 32	A 60	6360	20
120	40	12; 22.23; 32	A 80	6360	20
120	40	12; 22.23; 32	A 100	6360	20
120	40	12; 22.23; 32	A 120	6360	20
120	40	12; 22.23; 32	A 150	6360	20
120	40	12; 22.23; 32	A 180	6360	20
120	40	12; 22.23; 32	A 220	6360	20
120	40	12; 22.23; 32	A 240	6360	20
120	40	12; 22.23; 32	A 320	6360	20
120	40	12; 22.23; 32	A 400	6360	20
120	40	12; 22.23; 32	A 500	6360	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.



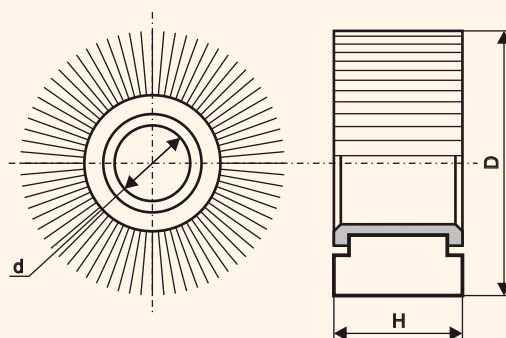
**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
120	50	12; 22.23; 32	A 40	6360	20
120	50	12; 22.23; 32	A 50	6360	20
120	50	12; 22.23; 32	A 60	6360	20
120	50	12; 22.23; 32	A 80	6360	20
120	50	12; 22.23; 32	A 100	6360	20
120	50	12; 22.23; 32	A 120	6360	20
120	50	12; 22.23; 32	A 150	6360	20
120	50	12; 22.23; 32	A 180	6360	20
120	50	12; 22.23; 32	A 220	6360	20
120	50	12; 22.23; 32	A 240	6360	20
120	50	12; 22.23; 32	A 320	6360	20
120	50	12; 22.23; 32	A 400	6360	20
120	50	12; 22.23; 32	A 500	6360	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.




## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

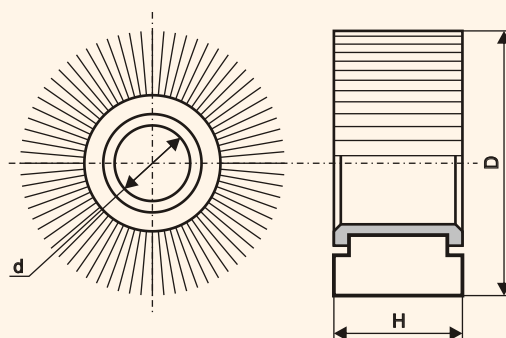


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
130	25	32	A 36	5870	20
130	25	32	A 40	5870	20
130	25	32	A 50	5870	20
130	25	32	A 60	5870	20
130	25	32	A 80	5870	20
130	25	32	A 100	5870	20
130	25	32	A 120	5870	20
130	25	32	A 150	5870	20
130	25	32	A 180	5870	20
130	25	32	A 220	5870	20
130	25	32	A 240	5870	20
130	25	32	A 320	5870	20
130	25	32	A 400	5870	20
130	25	32	A 500	5870	20
130	30	32	A 36	5870	20
130	30	32	A 40	5870	20
130	30	32	A 50	5870	20
130	30	32	A 60	5870	20
130	30	32	A 80	5870	20
130	30	32	A 100	5870	20
130	30	32	A 120	5870	20
130	30	32	A 150	5870	20
130	30	32	A 180	5870	20
130	30	32	A 220	5870	20
130	30	32	A 240	5870	20
130	30	32	A 320	5870	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

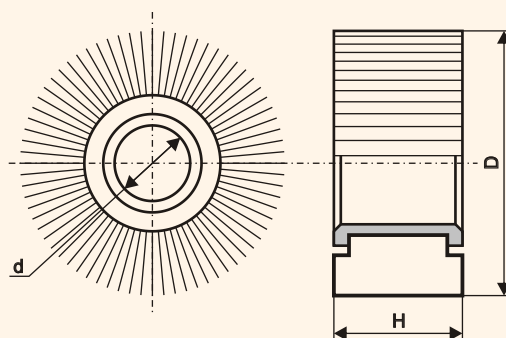


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
130	30	32	A 400	5870	20
130	30	32	A 500	5870	20
130	50	32	A 40	5870	20
130	50	32	A 50	5870	20
130	50	32	A 60	5870	20
130	50	32	A 80	5870	20
130	50	32	A 100	5870	20
130	50	32	A 120	5870	20
130	50	32	A 150	5870	20
130	50	32	A 180	5870	20
130	50	32	A 220	5870	20
130	50	32	A 240	5870	20
130	50	32	A 320	5870	20
130	50	32	A 400	5870	20
130	50	32	A 500	5870	20
140	40	32	A 40	5450	20
140	40	32	A 50	5450	20
140	40	32	A 60	5450	20
140	40	32	A 80	5450	20
140	40	32	A 100	5450	20
140	40	32	A 120	5450	20
140	40	32	A 150	5450	20
140	40	32	A 180	5450	20
140	40	32	A 220	5450	20
140	40	32	A 240	5450	20
140	40	32	A 320	5450	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

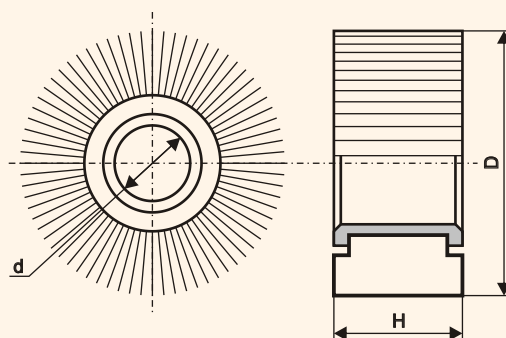


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
140	40	32	A 400	5450	20
140	40	32	A 500	5450	20
150	25	32	A 24	5100	20
150	25	32	A 36	5100	20
150	25	32	A 40	5100	20
150	25	32	A 50	5100	20
150	25	32	A 60	5100	20
150	25	32	A 80	5100	20
150	25	32	A 100	5100	20
150	25	32	A 120	5100	20
150	25	32	A 150	5100	20
150	25	32	A 180	5100	20
150	25	32	A 220	5100	20
150	25	32	A 240	5100	20
150	25	32	A 320	5100	20
150	25	32	A 400	5100	20
150	25	32	A 500	5100	20
150	30	32	A 24	5100	20
150	30	32	A 36	5100	20
150	30	32	A 40	5100	20
150	30	32	A 50	5100	20
150	30	32	A 60	5100	20
150	30	32	A 80	5100	20
150	30	32	A 100	5100	20
150	30	32	A 120	5100	20
150	30	32	A 150	5100	20

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.



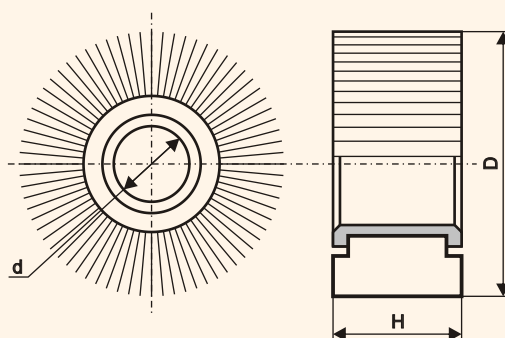
**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
150	30	32	A 180	5100	20
150	30	32	A 220	5100	20
150	30	32	A 240	5100	20
150	30	32	A 320	5100	20
150	30	32	A 400	5100	20
150	30	32	A 500	5100	20
150	50	32	A 40	5100	12
150	50	32	A 50	5100	12
150	50	32	A 60	5100	12
150	50	32	A 80	5100	12
150	50	32	A 100	5100	12
150	50	32	A 120	5100	12
150	50	32	A 150	5100	12
150	50	32	A 180	5100	12
150	50	32	A 220	5100	12
150	50	32	A 240	5100	12
150	50	32	A 320	5100	12
150	50	32	A 400	5100	12
150	50	32	A 500	5100	12

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.

# FLAP RADIAL WHEELS FOR STATIONARY GRINDERS


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.



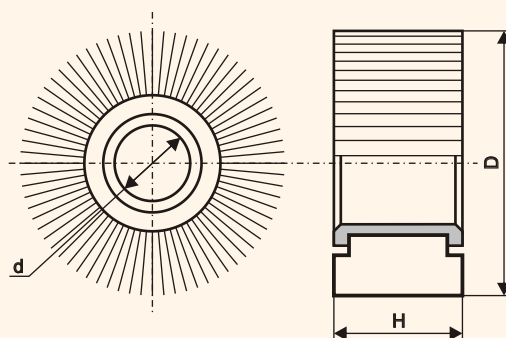
**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
200	25	32	A 40	3850	10
200	25	32	A 50	3850	10
200	25	32	A 60	3850	10
200	25	32	A 80	3850	10
200	25	32	A 100	3850	10
200	25	32	A 120	3850	10
200	25	32	A 150	3850	10
200	25	32	A 180	3850	10
200	25	32	A 220	3850	10
200	25	32	A 240	3850	10
200	25	32	A 320	3850	10
200	25	32	A 400	3850	10
200	25	32	A 500	3850	10
200	30	32	A 40	3850	10
200	30	32	A 50	3850	10
200	30	32	A 60	3850	10
200	30	32	A 80	3850	10
200	30	32	A 100	3850	10
200	30	32	A 120	3850	10
200	30	32	A 150	3850	10
200	30	32	A 180	3850	10
200	30	32	A 220	3850	10

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.




## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

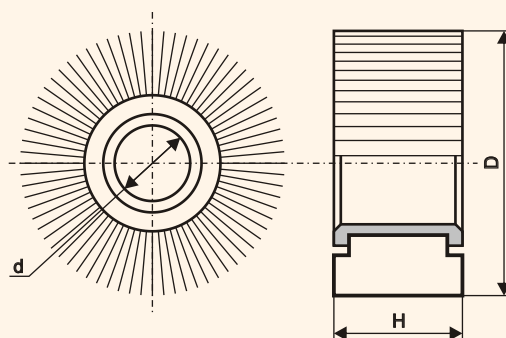


### 40m/s

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
200	30	32	A 240	3850	10
200	30	32	A 320	3850	10
200	30	32	A 400	3850	10
200	30	32	A 500	3850	10
200	50	32	A 40	3850	10
200	50	32	A 50	3850	10
200	50	32	A 60	3850	10
200	50	32	A 80	3850	10
200	50	32	A 100	3850	10
200	50	32	A 120	3850	10
200	50	32	A 150	3850	10
200	50	32	A 180	3850	10
200	50	32	A 220	3850	10
200	50	32	A 240	3850	10
200	50	32	A 320	3850	10
200	50	32	A 400	3850	10
200	50	32	A 500	3850	10
350	50	44.5; 127	A 40	2200	2
350	50	44.5; 127	A 50	2200	2
350	50	44.5; 127	A 60	2200	2
350	50	44.5; 127	A 80	2200	2
350	50	44.5; 127	A 100	2200	2
350	50	44.5; 127	A 120	2200	2
350	50	44.5; 127	A 150	2200	2
350	50	44.5; 127	A 180	2200	2
350	50	44.5; 127	A 220	2200	2

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

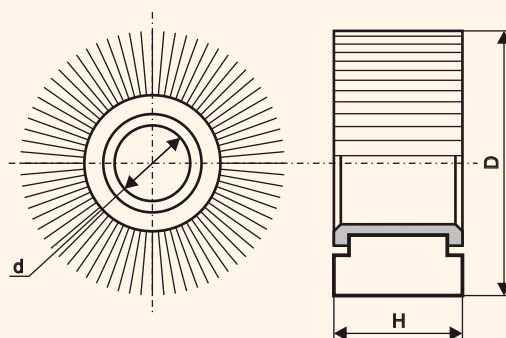


### 40m/s

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
350	50	44.5; 127	A 240	2200	2
350	50	44.5; 127	A 320	2200	2
350	50	44.5; 127	A 400	2200	2
350	50	44.5; 127	A 500	2200	2
350	100	44.5; 127	A 36	2200	1
350	100	44.5; 127	A 40	2200	1
350	100	44.5; 127	A 50	2200	1
350	100	44.5; 127	A 60	2200	1
350	100	44.5; 127	A 80	2200	1
350	100	44.5; 127	A 100	2200	1
350	100	44.5; 127	A 120	2200	1
350	100	44.5; 127	A 150	2200	1
350	100	44.5; 127	A 180	2200	1
350	100	44.5; 127	A 220	2200	1
350	100	44.5; 127	A 240	2200	1
350	100	44.5; 127	A 320	2200	1
350	100	44.5; 127	A 400	2200	1
350	100	44.5; 127	A 500	2200	1
350	140	44.5; 127	A 36	2200	1
350	140	44.5; 127	A 40	2200	1
350	140	44.5; 127	A 50	2200	1
350	140	44.5; 127	A 60	2200	1
350	140	44.5; 127	A 80	2200	1
350	140	44.5; 127	A 100	2200	1
350	140	44.5; 127	A 120	2200	1
350	140	44.5; 127	A 150	2200	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

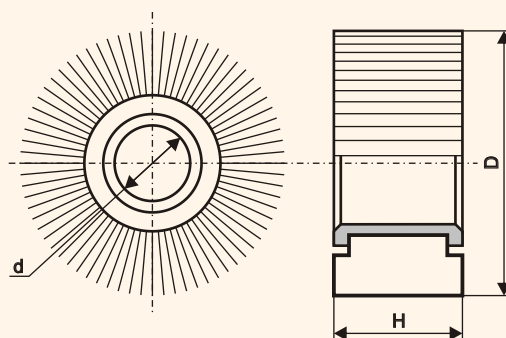


**40m/s**

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
350	140	44.5; 127	A 180	2200	1
350	140	44.5; 127	A 220	2200	1
350	140	44.5; 127	A 240	2200	1
350	140	44.5; 127	A 320	2200	1
350	140	44.5; 127	A 400	2200	1
350	140	44.5; 127	A 500	2200	1
400	50	44.5; 127	A 36	1950	1
400	50	44.5; 127	A 40	1950	1
400	50	44.5; 127	A 50	1950	1
400	50	44.5; 127	A 60	1950	1
400	50	44.5; 127	A 80	1950	1
400	50	44.5; 127	A 100	1950	1
400	50	44.5; 127	A 120	1950	1
400	50	44.5; 127	A 150	1950	1
400	50	44.5; 127	A 180	1950	1
400	50	44.5; 127	A 220	1950	1
400	50	44.5; 127	A 240	1950	1
400	50	44.5; 127	A 320	1950	1
400	50	44.5; 127	A 400	1950	1
400	50	44.5; 127	A 500	1950	1
400	60	44.5; 127	A 36	1950	1
400	60	44.5; 127	A 40	1950	1
400	60	44.5; 127	A 50	1950	1
400	60	44.5; 127	A 60	1950	1
400	60	44.5; 127	A 80	1950	1
400	60	44.5; 127	A 100	1950	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.

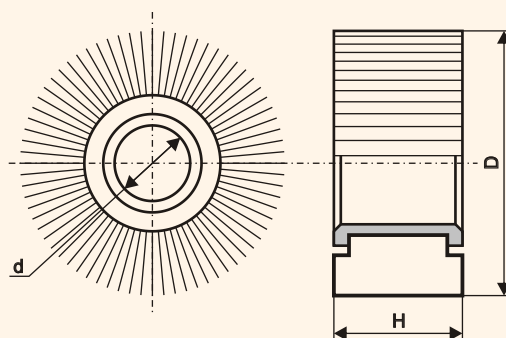


### 40m/s

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
400	60	44.5; 127	A 120	1950	1
400	60	44.5; 127	A 150	1950	1
400	60	44.5; 127	A 180	1950	1
400	60	44.5; 127	A 220	1950	1
400	60	44.5; 127	A 240	1950	1
400	60	44.5; 127	A 320	1950	1
400	60	44.5; 127	A 400	1950	1
400	60	44.5; 127	A 500	1950	1
400	75	44.5; 127	A 36	1950	1
400	75	44.5; 127	A 40	1950	1
400	75	44.5; 127	A 50	1950	1
400	75	44.5; 127	A 60	1950	1
400	75	44.5; 127	A 80	1950	1
400	75	44.5; 127	A 100	1950	1
400	75	44.5; 127	A 120	1950	1
400	75	44.5; 127	A 150	1950	1
400	75	44.5; 127	A 180	1950	1
400	75	44.5; 127	A 220	1950	1
400	75	44.5; 127	A 240	1950	1
400	75	44.5; 127	A 320	1950	1
400	75	44.5; 127	A 400	1950	1
400	75	44.5; 127	A 500	1950	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.


## Type KL



Used for draft, intermediate and final grinding of different metals, plastic, wood, coloured and lacquered surfaces, putty. Grinding wheels are well tuned up to the profile of the processed blank and guarantee even nature of the grinding surface up to full wearing of the wheel.



### 40m/s

D, mm	H, mm	d, mm	Characteristic	Working speed, RPM	
400	100	44.5; 127	A 36	1950	1
400	100	44.5; 127	A 40	1950	1
400	100	44.5; 127	A 50	1950	1
400	100	44.5; 127	A 60	1950	1
400	100	44.5; 127	A 80	1950	1
400	100	44.5; 127	A 100	1950	1
400	100	44.5; 127	A 120	1950	1
400	100	44.5; 127	A 150	1950	1
400	100	44.5; 127	A 180	1950	1
400	100	44.5; 127	A 220	1950	1
400	100	44.5; 127	A 240	1950	1
400	100	44.5; 127	A 320	1950	1
400	100	44.5; 127	A 400	1950	1
400	100	44.5; 127	A 500	1950	1

The plant receives the orders of wheels manufacturing with dimensions and characteristics not indicated in the given table.



# ENDLESS BELTS FOR HAND PORTABLE GRINDERS

## Endless Belts for Belt-grinding Files

### Type LB


Used for processing of shaped elements and profile details and constructions made of different types of steels and non-ferrous metals.

Grinding coated abrasives on cloth base

KK 751 X

KK 711 X



Belt width, mm	Belt length, mm	Characteristic	
6	533	A 40	48
6	533	A 50	48
6	533	A 60	48
6	533	A 80	48
6	533	A 100	48
6	533	A 120	48
6	533	A 150	48
6	533	A 180	48
6	533	A 220	48
6	533	A 240	48
6	533	A 320	48
9	533	A 40	48
9	533	A 50	48
9	533	A 60	48
9	533	A 80	48
9	533	A 100	48
9	533	A 120	48
9	533	A 150	48
9	533	A 180	48
9	533	A 220	48
9	533	A 240	48
9	533	A 320	48
10	330	A 24	48
10	330	A 36	48
10	330	A 40	48
10	330	A 50	48
10	330	A 60	48

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.

# Type LB


Used for processing of shaped elements and profile details and constructions made of different types of steels and non-ferrous metals.

Grinding coated abrasives on cloth base

KK 751 X

KK 711 X



Belt width, mm	Belt length, mm	Characteristic	
10	330	A 80	48
10	330	A 100	48
10	330	A 120	48
10	330	A 150	48
10	330	A 180	48
10	330	A 220	48
10	330	A 240	48
10	330	A 320	48
12	520	A 24	48
12	520	A 36	48
12	520	A 40	48
12	520	A 50	48
12	520	A 60	48
12	520	A 80	48
12	520	A 100	48
12	520	A 120	48
12	520	A 150	48
12	520	A 180	48
12	520	A 220	48
12	520	A 240	48
12	520	A 320	48
12	533	A 24	48
12	533	A 36	48
12	533	A 40	48
12	533	A 50	48
12	533	A 60	48
12	533	A 80	48
12	533	A 100	48
12	533	A 120	48
12	533	A 150	48
12	533	A 180	48
12	533	A 220	48
12	533	A 240	48
12	533	A 320	48

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.



## Type LB


Used for processing of shaped elements and profile details and constructions made of different types of steels and non-ferrous metals.

Grinding coated abrasives on cloth base

KK 751 X

KK 711 X



Belt width, mm	Belt length, mm	Characteristic	
13	450	A 24	48
13	450	A 36	48
13	450	A 40	48
13	450	A 50	48
13	450	A 60	48
13	450	A 80	48
13	450	A 100	48
13	450	A 120	48
13	450	A 150	48
13	450	A 180	48
13	450	A 220	48
13	450	A 240	48
13	450	A 320	48
13	455	A 24	48
13	455	A 36	48
13	455	A 40	48
13	455	A 50	48
13	455	A 60	48
13	455	A 80	48
13	455	A 100	48
13	455	A 120	48
13	455	A 150	48
13	455	A 180	48
13	455	A 220	48
13	455	A 240	48
13	455	A 320	48
13	519	A 24	48
13	519	A 36	48
13	519	A 40	48
13	519	A 50	48
13	519	A 60	48
13	519	A 80	48
13	519	A 100	48
13	519	A 120	48

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.

# Type LB


Used for processing of shaped elements and profile details and constructions made of different types of steels and non-ferrous metals.

Grinding coated abrasives on cloth base

KK 751 X

KK 711 X



Belt width, mm	Belt length, mm	Characteristic	
13	519	A 150	48
13	519	A 180	48
13	519	A 220	48
13	519	A 240	48
13	519	A 320	48
13	610	A 24	48
13	610	A 36	48
13	610	A 40	48
13	610	A 50	48
13	610	A 60	48
13	610	A 80	48
13	610	A 100	48
13	610	A 120	48
13	610	A 150	48
13	610	A 180	48
13	610	A 220	48
13	610	A 240	48
13	610	A 320	48
20	520	A 24	48
20	520	A 36	48
20	520	A 40	48
20	520	A 50	48
20	520	A 60	48
20	520	A 80	48
20	520	A 100	48
20	520	A 120	48
20	520	A 150	48
20	520	A 180	48
20	520	A 220	48
20	520	A 240	48
20	520	A 320	48
28	533	A 24	48
28	533	A 36	48
28	533	A 40	48

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.

## Type LB


Used for processing of shaped elements and profile details and constructions made of different types of steels and non-ferrous metals.

Grinding coated abrasives on cloth base

KK 751 X

KK 711 X



Belt width, mm	Belt length, mm	Characteristic	
28	533	A 50	48
28	533	A 60	48
28	533	A 80	48
28	533	A 100	48
28	533	A 120	48
28	533	A 150	48
28	533	A 180	48
28	533	A 220	48
28	533	A 240	48
28	533	A 320	48
40	303	A 24	48
40	303	A 36	48
40	303	A 40	48
40	303	A 50	48
40	303	A 60	48
40	303	A 80	48
40	303	A 100	48
40	303	A 120	48
40	303	A 150	48
40	303	A 180	48
40	303	A 220	48
40	303	A 240	48
40	303	A 320	48

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.



# Endless Belts for Belt-grinding Machines

## Type LB

## Packing for retail sales


For realisation through retail trade network tapes are packed in individual cardboard packing. There is all necessary information about the product and its working conditions on the packing.

For presentation and compact placing of tapes on racks of the trading stand packing is supplied with special loop, and for convenience of realisation packing is supplied with an individual bar-code.

Grinding coated abrasives on cloth base

- AC 721 X (Turkey)
- AC 411 X (Turkey)
- KK 751 X (Germany)
- BTX 22-3LT (Poland)
- KK 19XW (Russia)



Dimensions of the belt width, mm    length, mm		The amount of tapes in individual packing pcs.	
75	457	2	40
75	457	3	60
75	533	2	40
75	533	3	60




## Type LB

Used for flat surfaces details processing and constructions made of different types of steels, non-ferrous metals and wood.

Grinding coated abrasives on cloth base

KK 751 X  
BTX 22-3LT  
KK 19XW



Dimensions of the belt width, mm      length, mm		Grinder manufacturer	type	
30	533	Makita Metabo	9030 6171	50
40	485	Festo	MBS 1	50
60	400	Bosch	PBS 60, PBS 60E	50
65	410	AEG Black & Decker  Holz Her Kress Metabo Skil	HBSE 65, HBSE 65 BD 83, BD 83 E, DN 83, DN 83 E, KA 83 2405, 2406 CBS 6800, CBS 6800 E, 600 HTEB Ba 0665, Ba E 0666 593 H, 593 U	50
75	457	Peugeot Skil  Stayer MAKITA Black & Decker STERN	75 PB, PB 600 1200 H, 1205 H, 7610 AA, 7620 AA, 7630 AD LN 75 9910, 9911 KA 85, KA 85 EK BS 457	100
75	480	ELU	MHB 158, MHB 158 EL	50
75	510	Black & Decker	BD 85, DN 85, DN 85 E, KA 83, SR 500 E	50
75	533	AEG Black & Decker Bosch Freud Hitachi Holz Her Makita Metabo  Ryobi Schleicher Skil	HBSE 75 S BD 75, BD 75 E, KA 75, KA 75 E GBS 75 AE, PBS 75 A, PBS 75 AE ILC 75 SB 75 2410, 2411, 2420 9900 B, 9901 Ba 0775, Ba E 0875, Ba E 0876, Ba E 1075 B-7076 337 594 U, 595 U	100
75	575	Metabo	Ba 4350, Expert 4350	50
75	600	Skil	448, 449	50
75	610	Makita Ryobi	9924 DB B-7100	50
80	820	Hanning	BSK 175/80	50
100	552	Peugeot Skil	RP 102 1400 H, 1405 H	50

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.


## Type LB

Used for flat surfaces details processing and constructions made of different types of steels, non-ferrous metals and wood.

Grinding coated abrasives on cloth base

AC 721 X (Turkey)  
AC 411 X (Turkey)  
KK 751 X (Germany)  
BTX 22-3LT (Poland)  
KK 19XW (Russia)



Dimensions of the belt width, mm length, mm		Grinder manufacturer	type	
100	560	AEG Black & Decker ELU Festo Haffner Loser Ryobi Skil	HBS 100, HBSE 100 405 MHB 90/10, MHB 90 EL BUZ-S HBU 550, HBU 552, HBU 553 HBS 330 HB-422, HBE-422 400 B, 400 H, 405 H	50
100	610	Hitachi Makita Ryobi Wolf	SB 10 T, SB 10 V 9401, 9402, 9924 DB BE-424 5565	50
100	620	AEG Bosch Metabo Scheer	BBS 100, BBSE 100 GBS 100 A, GBS 100 AF Ba 6100 HB 3	50
100	680	Festo	BVU	50
100	700	Festo Scheer	BSD, BVD, BVD-B HB 6	50
100	725	Romer Scheer	RBS 10 MB 6	50
100	860	Frank Haffner Scheer	BS 100 HBS 6 MB 2	50
100	900	Elu Fein Festo Loser	MHB 21, MHB 21D, MHB 21W HA 130 Optimal HA 130, HSB 320, HSL 81	50
100	920	Elan Polifix (Simon)	P1/PV1, PV11, PVD11 IZ, I, IS-Ia, S-ISPO	50
100	950	Fromm Fuchs Loser	TM 272 - BS 75	50
110	620	AEG Bosch Freud Hitachi Holz Her Mafell Scheer	HBS 2-110 1270 ILC 110 SB 110 2422, 2423, 2424 ZUB 110 HB 2	50
110	632	Mafell	ZUB 110 T	50

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.

# ENDLESS BELTS FOR STATIONARY GRINDERS


## Narrow Grinding Endless Belts

### Type LB

Used for details processing made of wood, especially mild and tarry, lacquer surfaces.

Grinding coated abrasives on paper base  
KP 258  
PROMAX



Belt width, mm	Belt length, mm	Characteristic	
from 100 up to 300	up to 22000	A 40	10
from 100 up to 300	up to 22000	A 50	10
from 100 up to 300	up to 22000	A 60	10
from 100 up to 300	up to 22000	A 80	10
from 100 up to 300	up to 22000	A 100	10
from 100 up to 300	up to 22000	A 120	10
from 100 up to 300	up to 22000	A 150	10
from 100 up to 300	up to 22000	A 180	10
from 100 up to 300	up to 22000	A 220	10

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.






## Type LB

Used for details processing made of metals, wood, plastic, leather and other materials.

Grinding coated abrasives on cloth base  
KK 751 X



Belt width, mm	Belt length, mm	Characteristic	
up to 350	up to 22000	A 24	10
up to 350	up to 22000	A 36	10
up to 350	up to 22000	A 40	10
up to 350	up to 22000	A 50	10
up to 350	up to 22000	A 60	10
up to 350	up to 22000	A 80	10
up to 350	up to 22000	A 100	10
up to 350	up to 22000	A 120	10
up to 350	up to 22000	A 150	10
up to 350	up to 22000	A 180	10
up to 350	up to 22000	A 220	10
up to 350	up to 22000	A 240	10
up to 350	up to 22000	A 320	10

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.




## Type LB

Used for draft processing and intermediate grinding of the details made of different types of steels, non-ferrous metals, leather. It has high tensile strength.

Grinding coated abrasives on cloth base

KK 711 X



Belt width, mm	Belt length, mm	Characteristic	
up to 350	up to 4000	A 20	10
up to 350	up to 4000	A 24	10
up to 350	up to 4000	A 36	10
up to 350	up to 4000	A 40	10
up to 350	up to 4000	A 50	10
up to 350	up to 4000	A 60	10
up to 350	up to 4000	A 80	10
up to 350	up to 4000	A 100	10
up to 350	up to 4000	A 120	10
up to 350	up to 4000	A 150	10
up to 350	up to 4000	A 180	10
up to 350	up to 4000	A 220	10
up to 350	up to 4000	A 240	10
up to 350	up to 4000	A 320	10

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.

# Wide Grinding Endless Belts

## Type LB

Used for processing of the details made of wood, especially soft and resinous.

Grinding coated abrasives on paper base


KP 258

PROMAX

Grinding coated abrasives on cloth base

KK 751 X



Belt width, mm	Belt length, mm	Characteristic	
up to 1400	up to 2700	A 40	5
up to 1400	up to 2700	A 50	5
up to 1400	up to 2700	A 60	5
up to 1400	up to 2700	A 80	5
up to 1400	up to 2700	A 100	5
up to 1400	up to 2700	A 120	5
up to 1400	up to 2700	A 150	5
up to 1400	up to 2700	A 180	5
up to 1400	up to 2700	A 220	5

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.


## Type LB

Used for processing of the details made of wood-shaving slabs, wood-grain slabs, MDF and of wood itself.

Grinding coated abrasives on combined base

CK 725 D



Belt width, mm	Belt length, mm	Characteristic	
up to 1950	up to 4000	C 40	2
up to 1950	up to 4000	C 50	2
up to 1950	up to 4000	C 60	2
up to 1950	up to 4000	C 80	3
up to 1950	up to 4000	C 100	3
up to 1950	up to 4000	C 120	3

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.


## Type LB

For processing of the details made of wood, especially of hard sorts, metals, plastic, lacquered and coloured surfaces, putty.

Used on the machines with high power and large force of clamp.

Grinding coated abrasives on cloth base  
KK 711 X



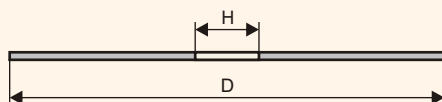
Belt width, mm	Belt length, mm	Characteristic	
up to 1400	up to 2700	A 24	5
up to 1400	up to 2700	A 36	5
up to 1400	up to 2700	A 40	5
up to 1400	up to 2700	A 50	5
up to 1400	up to 2700	A 60	5
up to 1400	up to 2700	A 80	5
up to 1400	up to 2700	A 100	5
up to 1400	up to 2700	A 120	5
up to 1400	up to 2700	A 150	5
up to 1400	up to 2700	A 180	5
up to 1400	up to 2700	A 220	5
up to 1400	up to 2700	A 240	5
up to 1400	up to 2700	A 320	5

The plant receives the orders of belts manufacturing with dimensions and characteristics not indicated in the given table.



# FIBER GRINDING DISCS


## Fiber Discs for Hand Portable Grinders



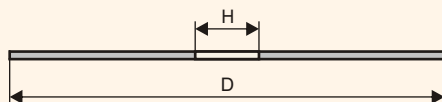
For draft processing, derusting and deburring, processing of seams the products made of different types of steels, non-ferrous metals, cast iron, wood, rubber and plastic. It can be used for fine processing of metal.



**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
60	6	A 24	25480	100
60	6	A 36	25480	100
60	6	A 40	25480	100
60	6	A 50	25480	100
60	6	A 60	25480	100
60	6	A 80	25480	100
70	6	A 24	21840	100
70	6	A 36	21840	100
70	6	A 40	21840	100
70	6	A 50	21840	100
70	6	A 60	21840	100
70	6	A 80	21840	100
100	6	A 24	15300	100
100	6	A 36	15300	100
100	6	A 40	15300	100
100	6	A 50	15300	100
100	6	A 60	15300	100
100	6	A 80	15300	100
115	22.23	A 24	13300	100
115	22.23	A 36	13300	100
115	22.23	A 40	13300	100
115	22.23	A 50	13300	100
115	22.23	A 60	13300	100
115	22.23	A 80	13300	100


The plant receives the orders of discs manufacturing with dimensions and characteristics not indicated in the given table.



For draft processing, derusting and deburring, processing of seams the products made of different types of steels, non-ferrous metals, cast iron, wood, rubber and plastic. It can be used for fine processing of metal.

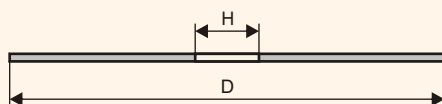


**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
125	22.23	A 24	12250	100
125	22.23	A 36	12250	100
125	22.23	A 40	12250	100
125	22.23	A 50	12250	100
125	22.23	A 60	12250	100
125	22.23	A 80	12250	100
150	22.23	A 24	10200	100
150	22.23	A 36	10200	100
150	22.23	A 40	10200	100
150	22.23	A 50	10200	100
150	22.23	A 60	10200	100
150	22.23	A 80	10200	100
180	22.23	A 24	8500	100
180	22.23	A 36	8500	100
180	22.23	A 40	8500	100
180	22.23	A 50	8500	100
180	22.23	A 60	8500	100
180	22.23	A 80	8500	100
225	22.23	A 24	6790	100
225	22.23	A 36	6790	100
225	22.23	A 40	6790	100
225	22.23	A 50	6790	100
225	22.23	A 60	6790	100
225	22.23	A 80	6790	100

The plant receives the orders of discs manufacturing with dimensions and characteristics not indicated in the given table.


# Fiber Discs for Stationary Grinders



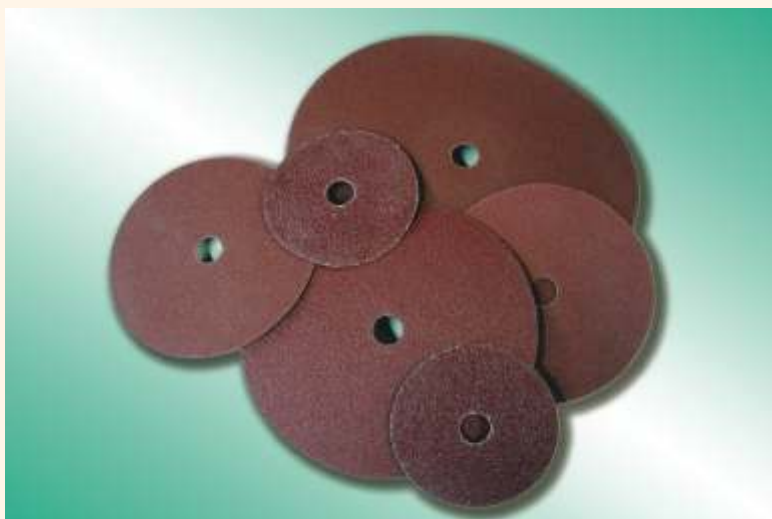
For draft processing, derusting and deburring, processing of seams the products made of different types of steels, non-ferrous metals, cast iron, wood, rubber and plastic. It can be used for fine processing of metal.



**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
300	without hole	A 24	5100	100
300	without hole	A 36	5100	100
300	without hole	A 40	5100	100
300	without hole	A 50	5100	100
300	without hole	A 60	5100	100
300	without hole	A 80	5100	100
350	40	A 24	4400	100
350	40	A 36	4400	100
350	40	A 40	4400	100
350	40	A 50	4400	100
350	40	A 60	4400	100
350	40	A 80	4400	100
400	22.23	A 24	3850	100
400	22.23	A 36	3850	100
400	22.23	A 40	3850	100
400	22.23	A 50	3850	100
400	22.23	A 60	3850	100
400	22.23	A 80	3850	100

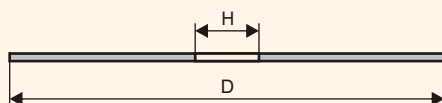
The plant receives the orders of discs manufacturing with dimensions and characteristics not indicated in the given table.





# SHEETS AND DISCS MADE OF GRINDING COATED ABRASIVES

## Grinding Discs



For processing of products made of different types of wood, metal, plastic, coloured and lacquered surfaces, putty.



Grinding coated abrasives on paper base


KP 258

PROMAX

Agua



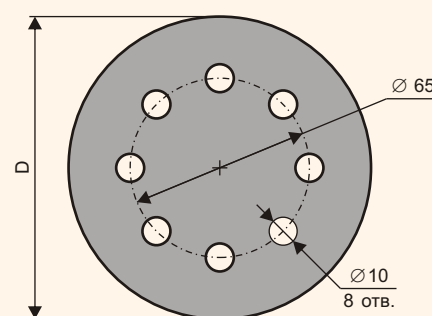
**80m/s**

D, mm	H, mm	Characteristic	Working speed, RPM	
150	8	A 24	10200	100
150	8	A 40	10200	100
150	8	A 60	10200	100
150	8	A 80	10200	100
150	8	A 100	10200	100
180	22.23	A 24	8500	100
180	22.23	A 40	8500	100
180	22.23	A 60	8500	100
180	22.23	A 80	8500	100
180	22.23	A 100	8500	100
270	without hole	C 320	5660	100
270	without hole	C 600	5660	100
795	without hole	A 40	1920	50
795	without hole	A 60	1920	50
795	without hole	A 80	1920	50
795	without hole	A 120	1920	50

The plant receives the orders of discs manufacturing with dimensions and characteristics not indicated in the given table.


## Checked Grinding Discs

For processing the articles of coniferous wood and deciduous species, plywood, wood-grain slab. Discs are self-clinged with the supporting plate of conforming electric tool and are consolidated by easy pressing down. This method of fixation gives the opportunity of quick and easy changing of the disc as often as you need. Sparsely pouring of grain coated abrasives reduce the soiling of the disc by the waste of processed material which increases the term of life of the instrument and increases its productivity.



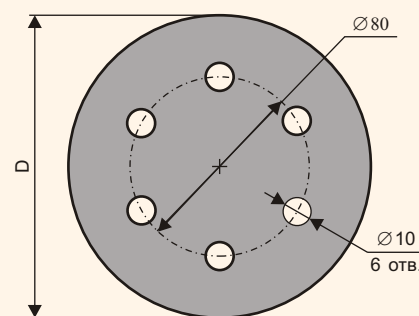
Coated abrasives on paper base  
with self-clinged cloth  
Lux E



D <sub>mm</sub>	Characteristic	Form of the disc		
		without holes	8 holes Ø10mm	
115	A 40	•	•	100
115	A 60	•	•	100
115	A 80	•	•	100
115	A 100	•	•	100
115	A 120	•	•	100
115	A 150	•	•	100
115	A 180	•	•	100
115	A 220	•	•	100
115	A 240	•	•	100
125	A 40	•	•	100
125	A 60	•	•	100
125	A 80	•	•	100
125	A 100	•	•	100
125	A 120	•	•	100
125	A 150	•	•	100
125	A 180	•	•	100
125	A 220	•	•	100
125	A 240	•	•	100
150	A 40	•	•	100
150	A 60	•	•	100
150	A 80	•	•	100
150	A 100	•	•	100
150	A 120	•	•	100
150	A 150	•	•	100


The plant receives the orders of discs manufacturing with dimensions and characteristics not indicated in the given table.

For processing the articles of coniferous wood and deciduous species, plywood, wood-grain slab. Discs are self-clinged with the supporting plate of conforming electric tool and are consolidated by easy pressing down. This method of fixation gives the opportunity of quick and easy changing of the disc as often as you need. Sparsely pouring of grain coated abrasives reduce the soiling of the disc by the waste of processed material which increases the term of life of the instrument and increases its productivity.



Coated abrasives on paper base  
with self-clinged cloth  
Lux E



D <sub>mm</sub>	Characteristic	without hole	Form of the disc 8 holes Ø10mm	6 holes Ø10mm	
150	A 40			•	100
150	A 60			•	100
150	A 80			•	100
150	A 100			•	100
150	A 120			•	100
150	A 150			•	100
150	A 180	•	•	•	100
150	A 220	•	•	•	100
150	A 240	•	•	•	100
180	A 40	•			100
180	A 60	•			100
180	A 80	•			100
180	A 100	•			100
180	A 120	•			100
180	A 150	•			100
180	A 180	•			100
180	A 220	•			100
180	A 240	•			100
225	A 40	•			100
225	A 60	•			100
225	A 80	•			100
225	A 100	•			100
225	A 120	•			100
225	A 150	•			100
225	A 180	•			100
225	A 220	•			100
225	A 240	•			100

The plant receives the orders of discs manufacturing with dimensions and characteristics not indicated in the given table.


# Grinding Sheets

For wet processing of metallic sheets after precoating, paints, lacquers and also plastics. They are used first of all in motor industry and also for processing metallographic pins.



Waterproof grinding coated abrasives on paper base  
WBB  
Aqua



Dimensions of a sheet, mm		Characteristic	
width	length		
230	280	C 100	100
230	280	C 120	100
230	280	C 150	100
230	280	C 180	100
230	280	C 220	100
230	280	C 240	100
230	280	C 320	100
230	280	C 400	100
230	280	C 600	100
230	280	C1000	100

The plant receives the orders of sheets manufacturing with dimensions and characteristics not indicated in the given table.




For processing of surfaces of different sorts of wood, metal, plastic, putty.  
They are used for paints and lacquers removal.

Grinding coated abrasives on paper base

KP 258

PROMAX



Dimensions of a sheet, mm		Characteristic	
width	length		
93	230	A 40	100
93	230	A 50	100
93	230	A 60	100
93	230	A 80	100
93	230	A 100	100
93	230	A 120	100
93	230	A 150	100
93	230	A 180	100
93	230	A 220	100
115	280	A 40	100
115	280	A 50	100
115	280	A 60	100
115	280	A 80	100
115	280	A 100	100
115	280	A 120	100
115	280	A 150	100
115	280	A 180	100
115	280	A 220	100
230	280	A 40	100
230	280	A 50	100
230	280	A 60	100
230	280	A 80	100
230	280	A 100	100
230	280	A 120	100
230	280	A 150	100
230	280	A 180	100
230	280	A 220	100

The plant receives the orders of sheets manufacturing with dimensions and characteristics not indicated in the given table.

For industrial processing of the products made of steel, stainless steel, non-ferrous metals, plastic, wood.

Grinding coated abrasives on cloth base

KK 268


KK 751X

BTX 22-3LT

KK 511J

KK19XW



Dimensions of a sheet, mm		Characteristic	
width	length		
115	280	A 24	100
115	280	A 36	100
115	280	A 40	100
115	280	A 50	100
115	280	A 60	100
115	280	A 80	100
115	280	A 100	100
115	280	A 120	100
115	280	A 150	100
115	280	A 180	100
115	280	A 220	100
115	280	A 240	100
115	280	A 320	100
115	280	A 400	100
115	280	A 500	100
170	240	A 36	100
170	240	A 40	100
170	240	A 50	100
170	240	A 60	100
170	240	A 80	100
170	240	A 100	100
170	240	A 120	100
170	240	A 150	100
170	240	A 180	100
170	240	A 220	100
170	240	A 240	100
170	240	A 320	100
170	240	A 400	100
170	240	A 500	100


The plant receives the orders of sheets manufacturing with dimensions and characteristics not indicated in the given table.

For industrial processing of the products made of steel, stainless steel, non-ferrous metals, plastic, wood.

Grinding coated abrasives on cloth base

KK 268  
KK 751X  
BTX 22-3LT  
KK 511J  
KK19XW



Dimensions of a sheet, mm		Characteristic	
width	length		
230	280	A 24	100
230	280	A 36	100
230	280	A 40	100
230	280	A 50	100
230	280	A 60	100
230	280	A 80	100
230	280	A 100	100
230	280	A 120	100
230	280	A 150	100
230	280	A 180	100
230	280	A 220	100
230	280	A 240	100
230	280	A 320	100
230	280	A 400	100
230	280	A 500	100

The plant receives the orders of sheets manufacturing with dimensions and characteristics not indicated in the given table.





## The Set of Abrasive Cloth

The abrasive cloth is used for processing either by hand or with the help of electric tools of various types of materials: wood of hard and soft rock, wood-fiber materials, metals, plastics, leather, rubber, for removal and clearing of fillers, paints, varnishes.

The abrasive cloth of the leading European manufacturers is used in the set. It has the long life either during the dry grinding or wet processing.

Used in the set grit of abrasive cloth leveling from large to small allows to reach the necessary quality of the processed surface.



Quantity, kg	Characteristic	
1	A24 - A180	12



# ROLLS AND BOBBINS OF GRINDING COATED ABRASIVES

## Rolls of Grinding Coated Abrasives

Type of grinding coated abrasives		Grit	Dimensions of a roll width, mm      length, m	
AC 411X	(Turkey)	A24-A180	725	20
KP 258	(Hungary)	A40-A220	1050	50
KK 268	(Hungary)	A24-A180	930	50
BTX 22-3LT	(Poland)	A24-A320	1200	50
KK 19XW	(Russia)	A24, A30	775	20
KK 19XW	(Russia)	A36-A150	775	30
KK 19XW	(Russia)	A24, A30	800	20
KK 19XW	(Russia)	A36-A220, 5, 4, M40	800	30

## Bobbins of Grinding Coated Abrasives

Type of grinding coated abrasives		Grit	Dimensions of a bobbin width, mm      length, m	
AC 411X	(Turkey)	A24-A180	from 20 up to 460	50; 100
KP 258	(Hungary)	A40-A220	from 20 up to 460	50
KK 268	(Hungary)	A24-A180	from 20 up to 460	50
KK 751X	(Germany)	A24-A320	from 20 up to 460	50; 100
BTX 22-3LT	(Poland)	A24-A320	from 20 up to 460	50
KK 19XW	(Russia)	A24, A30	from 20 up to 460	20
KK 19XW	(Russia)	A36-A220, 5, 4, M40	from 20 up to 460	30

The amount of reels at the order should be multiple to width of a roll.

# FIREPROOF PRODUCTS



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# INTRODUCTION

Matrix of graphite fireproof crucibles is natural graphite, clay and silicon carbide.

**GRAPHITE** is basis of heat conduction, electrical conduction, it gives necessary thermal stability to crucible and is for the most part stable to chemical action. The only solvent for graphite is melted iron. That's why graphite crucibles are not intended for melting of cast iron and steel. One more "disadvantage" of graphite is its corrosion at oxygen's access, beginning from 600°C. Therefore crucibles are covered with glaze, which defends graphite from corrosion for the most part.

**CLAY** is high-refractory bond for graphite articles.

**SILICON CARBIDE** is additional heat conductor, which also increases mechanical strength and durability of crucibles essentially.

## MARKING

Marking of crucibles includes:

1. Form of products.
2. Brand of material, from which the crucible is manufactured.
3. Number or capacity of a product.
4. Type of glaze.
5. Further details.

Depending on composition and assignment the following types of products are distinguished:

### - on clay bond:

**A** - intended for melting of non-ferrous metals with the melting temperature up to 1500°C in induction and resistance furnaces.

**K** - for melting of non-ferrous metals with melting temperature up to 1600°C in induction and gas or liquid furnaces, distribution of non-ferrous metals in resistance furnaces.

**C** - for casting of non-ferrous metals with working temperature up to 1600°C.

**T** - for melting precious metals with melting temperature up to 1600°C in induction and muffle furnaces.

**D** - for melting of precious metals with melting temperature up to 1250°C by heating at the expense of passing a current through a crucible.

**E** - for foundry accessories.

**H** - for testing of non-ferrous metals.

### - on carbon bond:

**X** - for melting of non-ferrous metals with melting temperature up to 1500°C in resistant and gas or liquid furnaces. They don't demand preliminary drying.

The crucibles are protected from oxidation and fretting by special glazes:

**L** - for operations with metals with melting temperature lower than 1000°C.

**T** - for working in conditions of temperature over 1000°C.

As further details the following signs are adopted:

**"1"** - application of glazes on outer surface only.

**"2"** - crucibles are intended for resistance furnaces.

Type of glaze and further details are indicated for crucibles on clay bond only.

## EXAMPLES OF NOTATION CONVENTIONS:

**BA 750L2 TY.....**, that is crucible form B type A, with capacity 750 kg on copper, for melting of non-ferrous metals with melting temperature up to 1000°C (L) in resistance furnaces (2).

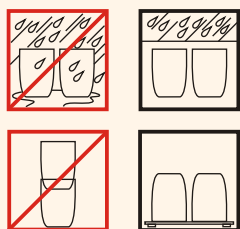
**ZK 175T TY.....**, that is cylinder crucible form Z, type K, with capacity 175 kg on copper, for melting of non-ferrous metals with melting temperature up to 1000°C (T) in induction furnaces.

**AX 500 TY.....**, that is crucible form A, type K, with capacity 500 kg on copper for melting of non-ferrous metals in resistance and flame furnaces.



# OPERATIONAL GUIDELINE OF THE CRUCIBLES

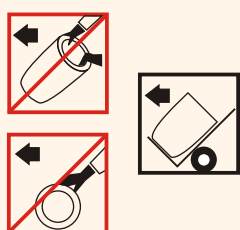
## Storage of the Crucibles



The crucibles should be stored in dry well-aired room, on wood shelving (supports). The storage of the crucibles on concrete or metal floor is not allowed.

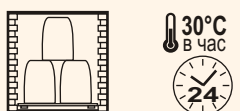
It is not allowed to put the crucibles one into another.

## Transportation

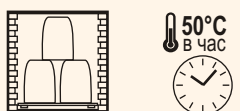


It is impossible to enable pushes and impacts on the crucibles. It is impossible to move the crucibles on floor edgewise or on the bottom edge. It is recommended to use the trolleys with padding transportation.

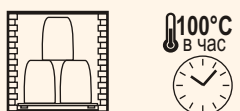
## Preparation of crucibles



Drying of crucibles  
- at temperature 200°C 24 hours at least. The rise of temperature should not be sudden at most 30°C per hour.



Glowing of crucibles  
- crucibles of type C - rise of temperature till 900°C in 50°C per hour.



- crucibles of type A and K - rise of temperature till 1050°C in 100°C per hour.  
- crucibles of type X - rise of temperature till 400°C in 100°C per hour and further till 1050°C as soon as possible.

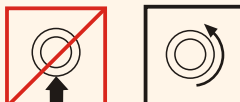
## Installation of the Crucibles



Around of an upper crucible edge it is necessary to create an even gap. For this purpose it is possible to use cardboard or arboreal chips. It is not allowed to use wedges made of fire proof material.



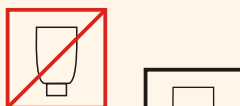
The burner axis should be in a bottom plane of a crucible.



The burner should be established so that the flame does not flap directly in a crucible and bent it on tangent.



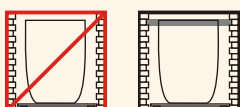
A gap between crucible and a furnace cover should be insulated by thermoinsulating material.



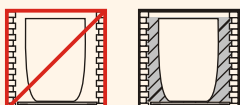
Use only standard supports. Between crucible and support should be separating material: paper, coke, alumina.



For installation and extraction of crucibles tongs (claws) should be used. Tongs should correspond to the shape of crucible and be wrapped up with mild material.

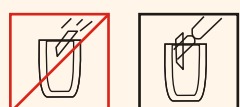


In resistance ovens and induction furnaces air gap between crucible's edge and oven's cover should be sealed up by mixture on the ground of fireproof clay.

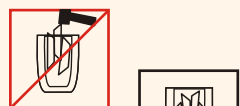


In induction furnaces space between crucible and inductor is filled by insulating material.

## Loading of Metal



The metal is necessary to load in the previously warmed-over crucible. The metal should be dry and heated a little. The large pieces should be placed into crucible by grips, avoiding their impacts with a crucible.

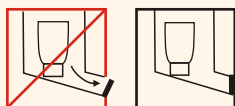


The ingots should be packed into a crucible upright excluding jamming of separate pieces.





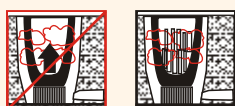
## Conducting of Melting



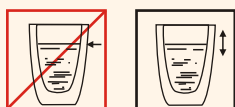
It is forbidden categorically to warm up a crucible with metal stiffened in it. The hole for emergency output of molten metal in furnace should be closed.



Metal melting is necessary to conduct as soon as possible.



Don't leave empty crucible in the furnace between meltings. Period between meltings should be minimal.



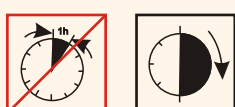
It is necessary to change a level of melt in a crucible in order to avoid fretting of crucible walls by drosses on a "mirror" of metal.



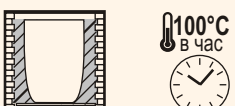
Keep strictly to necessary quantity of chemical components for modification of alloys.



Enter the components only into molten metal.

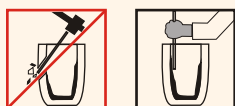


After breaks in work (e.g. stops during weekends) it is necessary to warm up slowly the empty crucibles in the furnace, regardless of its type.

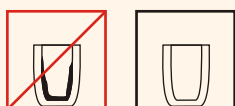


In induction furnaces where heating and metal fusion occur at the expense of currents proceeding in it, and the crucible is heated from metal, it is recommended to increase gradually the energy to provide uniform heating of the crucible. The optimum decision in this case is the continuous operating mode.

## Cleaning of the Crucibles



At disconnection of the furnace it is necessary to remove the fluid melt from crucible. At the end of melting process the drosses should be accurately cleaned off from an internal surface of hot crucible with the help of the metal scraper or blade.

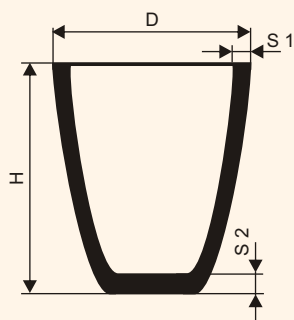



# FIREPROOF GRAPHITE CRUCIBLES FOR CASTING OF NON-FERROUS METALS AND THEIR ALLOYS

## Type AC

Non-glazed crucibles are used for casting of non-ferrous metals and their alloys with temperature not more than 1600°C. They are remarkable for their increased thermal insulating properties.

\* Glazed type is possible if requested by consumer.



Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
3*	100	122	9	12	0.8	16
5*	120	145	10	15	1.1	16
10*	145	165	11	15	1.5	8
15*	160	200	15	18	2.25	4
20*	175	220	15	23	3.0	4
30*	220	260	20	28	6.0	2
50*	250	300	25	33	9.0	2
75*	285	345	25	33	12.0	1
100*▲	305	370	27	35	15.0	1
150*	350	450	30	38	22.0	1
200*	400	470	35	43	34.0	1
300*	445	530	37	45	46.0	1
400	500	600	40	50	60.0	1
500	505	640	40	50	72.0	1
600	540	765	50	60	94.0	1

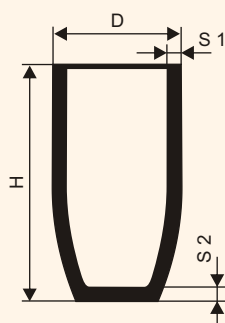
▲ - content of crucible on copper is 80 kg


The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type CC

Non-glazed crucibles are used for casting of non-ferrous metals and their alloys with temperature not more than 1600°C. They are remarkable for their increased thermal insulating properties.

\* Glazed type is possible if requested by consumer.

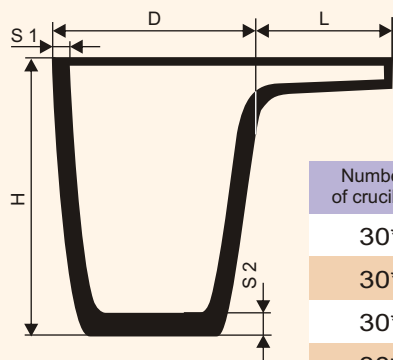



Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
90*	250	500	25	33	16.0	1
225	360	615	30	43	52.0	1
400	410	810	40	50	66.0	1

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type TPC

Non-glazed crucibles with tapping spoon are used for casting of non-ferrous metals and their alloys with temperature not more than 1600°C. They are remarkable for their increased thermal insulating properties.  
\* Glazed type is possible if requested by consumer.



Number of crucible	Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	L, mm	Weight, kg	
30*	25	220	260	20	28	80	6.30	1
30*	25	220	260	20	28	170	6.60	1
30*	25	220	260	20	28	210	6.90	1
30*	25	220	260	20	28	300	7.65	1
50*	40	250	300	25	33	150	9.50	1
100*	80	305	370	27	35	260	17.35	1
150	130	350	450	30	38	260	24.35	1
200	180	360	615	30	40	120	54.00	1
400	360	500	600	40	50	380	63.14	1
500	450	505	640	40	50	200	74.00	1

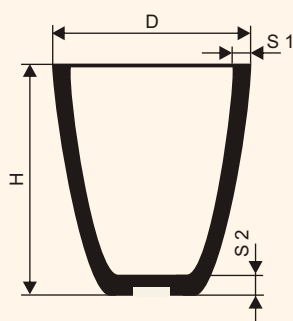
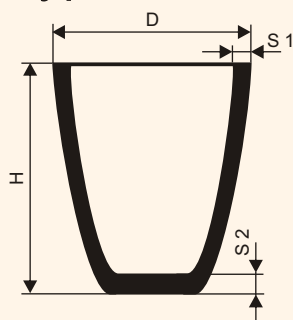
The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.




# FIREPROOF GRAPHITE CRUCIBLES FOR MELTING AND DISTRIBUTION OF NON-FERROUS METALS

## Type **AK**

Glazed crucibles are intended for melting and distribution of non-ferrous metals and alloys with melting temperature up to 1600°C.



Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
0.1	30	40	3	5	0.024	50
0.3	50	60	5	5	0.110	50
0.6	60	70	6	7	0.200	20
1	72	88	9	11	0.380	20
2	100	122	9	12	0.800	16
3	110	130	10	18	1.270	16
5	120	145	10	11	1.750	8
10	145	175	13	18	2.700	8
20	175	220	15	23	4.600	1
30	220	270	20	30	9.000	1
40	225	290	20	30	9.600	1
50	255	310	20	30	14.000	1
75	290	350	25	30	16.000	1
100 ▲	300	370	25	30	20.000	1
150	360	455	30	45	40.000	1
200	410	490	35	55	50.000	1
300	440	555	30	55	65.000	1
400	500	610	40	60	75.000	1
500	520	635	50	60	85.000	1
600 ◆	540	765	50	60	116.000	1

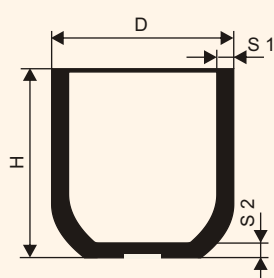
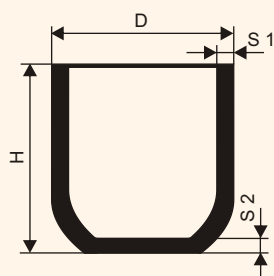
◆ - cubic content on zinc


▲ - content of crucible on copper is 80 kg

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type **BK**

Glazed crucibles are intended for melting and distribution of non-ferrous metals and alloys with melting temperature up to 1600°C.

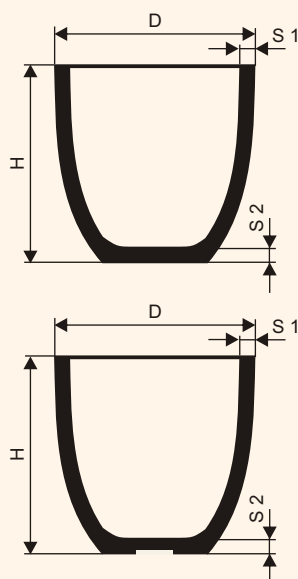



Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
750	600	635	50	65	125.0	1
800	700	690	50	65	192.0	1
900	615	735	50	65	145.0	1
980	600	790	50	65	155.0	1
1000	700	790	50	65	210.0	1
2000	880	1000	60	80	410.0	1

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type BUK

Glazed crucibles are intended for melting and distribution of non-ferrous metals and alloys with melting temperature up to 1600°C.

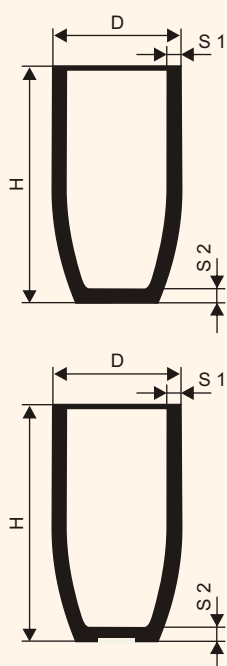



Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
350	530	490	50	60	71.6	1
450	530	590	50	60	100.0	1
460	700	320	50	65	90.0	1
500	530	680	50	60	106.0	1
650	700	400	50	65	110.5	1
900	615	700	40	50	121.0	1
1000	800	775	55	65	220.0	1
1600	775	750	50	60	195.0	1
1800	780	900	50	65	234.0	1
2200	780	1000	50	65	260.0	1

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type CK

Glazed crucibles are intended for melting and distribution of non-ferrous metals and alloys with melting temperature up to 1600°C.



Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
25	160	370	20	30	5.4	2
70	220	450	20	30	15.2	1
90	285	590	30	35	23.5	1
175	340	910	30	60	63.2	1
280	365	630	30	45	52.0	1
350	440	610	30	55	70.0	1
370	485	700	45	60	110.0	1
450	465	840	45	55	113.0	1
500	490	840	45	60	128.0	1
600	485	940	45	60	137.0	1

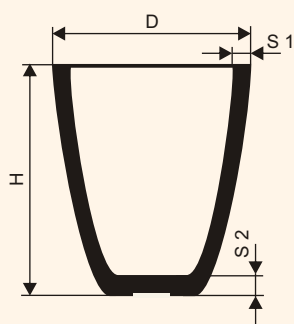
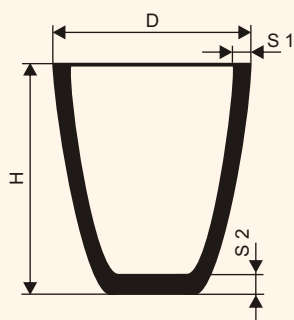
The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.




# FIREPROOF GRAPHITE CRUCIBLES FOR MELTING OF NON-FERROUS METALS

## Тип **AA**

Glazed crucibles are intended for melting of non-ferrous metals and alloys with melting temperature up to 1500°C.



Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
0.1	30	40	3	5	0.02	50
0.3	50	60	5	5	0.10	50
0.6	60	70	6	7	0.17	20
1	72	88	9	11	0.32	20
2	100	122	9	12	0.68	16
3	110	130	10	18	1.10	16
5	120	150	10	11	1.27	8
10	145	175	13	18	2.30	8
20	175	220	15	23	3.90	1
30	220	270	20	30	7.65	1
40	225	290	20	30	8.20	1
50	255	310	20	30	12.00	1
75	290	350	25	30	14.00	1
100 ▲	300	370	25	30	16.00	1
150	360	455	30	45	34.00	1
200	410	490	35	45	43.00	1
300	440	555	30	55	54.00	1
400	500	610	40	60	70.00	1
500	520	635	50	60	90.00	1
600 ◆	540	765	50	60	105.00	1

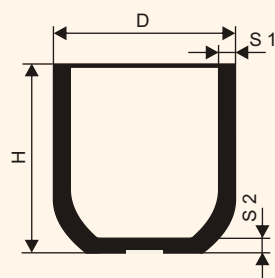
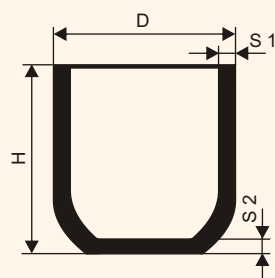
◆ - cubic content on zinc


▲ - content of crucible on copper is 80 kg

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type **BA**

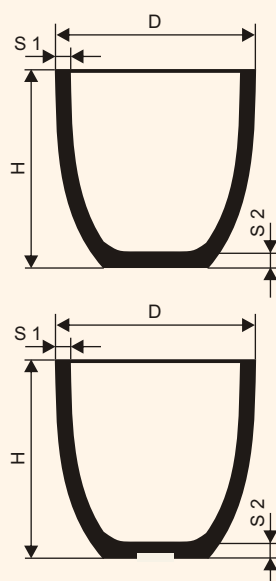
Glazed crucibles are intended for melting of non-ferrous metals and alloys with melting temperature up to 1500°C.




Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
750	600	635	50	65	112.0	1
800	700	690	50	65	165.0	1
900	615	735	50	65	125.0	1
980	600	790	50	65	133.0	1
1000	700	790	50	65	180.0	1
2000	880	1000	60	80	350.0	1

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type BUA

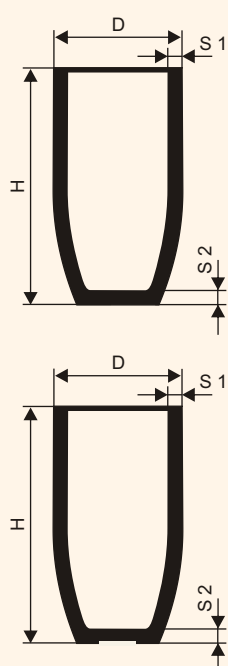


Glazed crucibles are intended for melting of non-ferrous metals and alloys with melting temperature up to 1500°C.


Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
350	530	490	50	60	68.0	1
450	530	590	50	60	95.0	1
460	700	320	50	65	78.0	1
500	530	680	50	60	100.0	1
650	700	400	50	65	105.0	1
900	615	700	40	50	112.0	1
1000	800	775	55	65	190.0	1
1600	775	750	50	60	181.0	1
1800	780	900	50	65	217.0	1
2200	780	1000	50	65	226.0	1

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type CA



Glazed crucibles are intended for melting of non-ferrous metals and alloys with melting temperature up to 1500°C.

Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
25	160	370	20	30	4.6	2
70	220	450	20	30	12.6	1
90	285	590	30	35	19.5	1
175	340	910	30	60	60.0	1
280	365	630	30	45	45.0	1
350	440	610	30	55	62.0	1
370	485	700	45	60	73.5	1
450	465	840	45	55	106.0	1
500	490	840	45	60	113.0	1
600	485	940	45	60	121.0	1

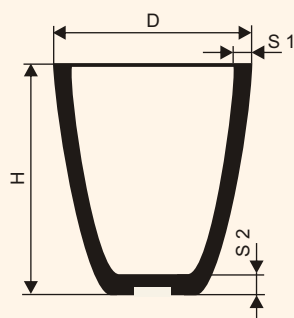
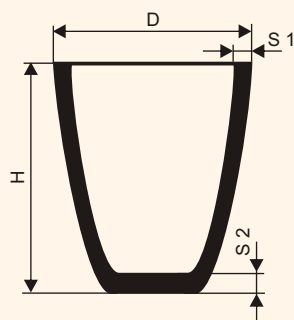
The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.






## Type AX

Glazed crucibles on carbon bond are intended for melting of non-ferrous metals and alloys with melting temperature up to 1500°C, they don't demand preliminary drying at exploitation.



Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
5	120	150	10	11	1.60	16
10	145	175	13	18	2.60	8
20	175	220	15	23	4.20	1
30	220	270	20	30	8.10	1
40	225	290	20	30	8.70	1
50	255	310	25	30	12.70	1
75	290	350	25	30	14.50	1
100 ▲	300	370	25	30	19.00	1
150	360	455	30	45	37.50	1
200	410	490	35	45	48.00	1
300	440	555	30	55	60.00	1
400	500	610	40	60	81.00	1
500	520	635	50	60	85.00	1
600 ◆	540	765	50	60	125.00	1

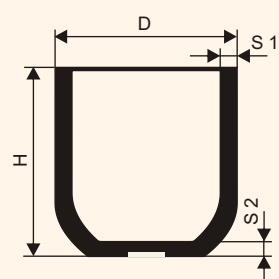
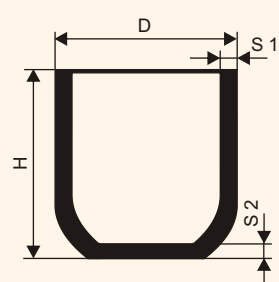
◆ - cubic content on zinc


▲ - content of crucible on copper is 80 kg

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type BX

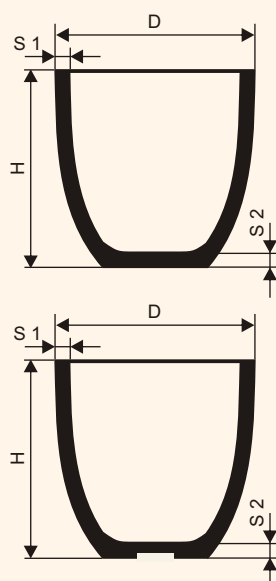
Glazed crucibles on carbon bond are intended for melting of non-ferrous metals and alloys with melting temperature up to 1500°C, they don't demand preliminary drying at exploitation.




Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
750	600	635	50	65	130.0	1
800	700	690	50	65	195.0	1
900	615	735	50	65	156.0	1
980	600	790	50	65	165.0	1
1000	700	790	50	65	213.0	1
2000	880	1000	60	80	392.0	1

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type BUX

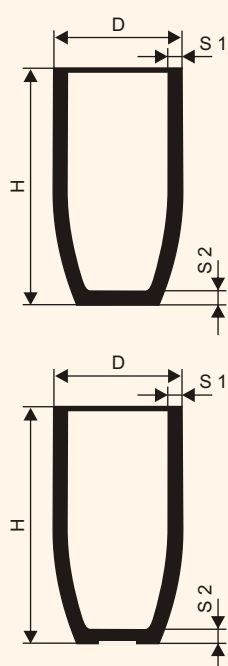


Glazed crucibles on carbon bond are intended for melting of non-ferrous metals and alloys with melting temperature up to 1500°C, they don't demand preliminary drying at exploitation.


Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
350	530	490	50	60	68.0	1
450	530	590	50	60	89.0	1
460	700	320	50	65	88.0	1
500	530	680	50	60	111.0	1
650	700	400	50	65	109.0	1
900	615	700	40	50	118.0	1
1000	800	775	55	65	215.0	1
1600	775	750	50	60	190.0	1
1800	780	900	50	65	225.0	1
2200	780	1000	50	65	250.0	1

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type CX



Glazed crucibles on carbon bond are intended for melting of non-ferrous metals and alloys with melting temperature up to 1500°C, they don't demand preliminary drying at exploitation.

Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
25	160	370	20	30	4.9	2
70	220	450	20	30	14.0	1
90	285	590	30	35	21.5	1
175	340	910	30	60	57.7	1
280	365	630	30	45	52.0	1
350	440	610	30	55	62.0	1
370	485	700	45	60	108.0	1
450	465	840	45	55	110.0	1
500	490	840	45	60	117.0	1
600	485	940	45	60	126.0	1

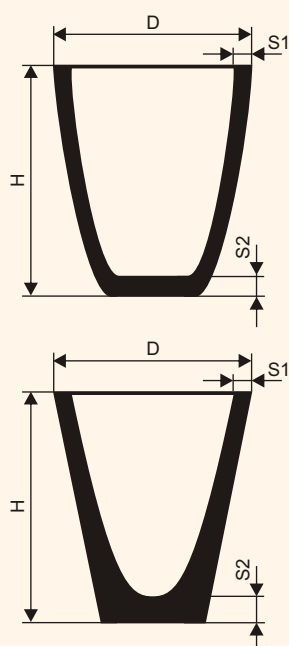
The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.




# FIREPROOF FIRE CLAY CRUCIBLES FOR TESTING OF NON-FERROUS METALS

## Type **AH**

Non-glazed crucibles are intended for testing of non-ferrous metals with melting temperature up to 1600°C.



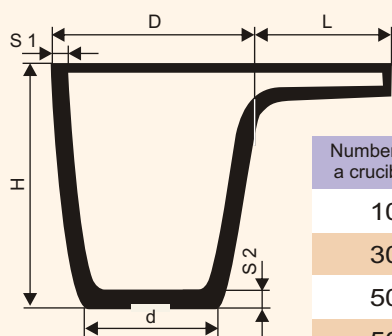
Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
0.1	30	40	3	5	0.03	50
0.3	50	60	5	5	0.16	50
0.6	60	70	6	7	0.27	20
0.9	70	77	6	10	0.30	20
1.0	72	88	9	11	0.43	20
1.6*	92	125	8	20	0.68	20
2.8*	120	130	8	15	1.00	20
3.0	110	130	10	18	1.10	16
5.0	120	150	10	11	1.47	8
5.5*	130	160	8	25	1.54	8
10.0	145	175	13	18	2.60	8

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.



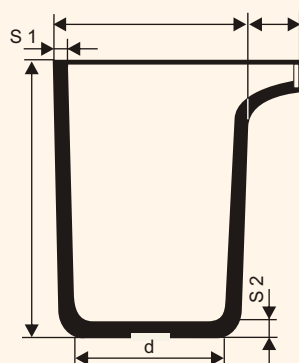
# FIREPROOF GRAPHITE CRUCIBLES WITH A SPOUT FOR OPERATIONS IN THE ROTATING FURNACES

**Type TPA** Glazed crucibles with a spout for metal discharging are intended for operations in the rotating furnaces with melting temperature up to 1500°C.



Number of a crucible	Conventional cubic content on copper, kg	D, mm	H, mm	d, mm	S1, mm	S2, mm	L, mm	Weight, kg	
10	8	145	175	90	13	18	326	4.60	1
30	25	220	270	140	20	30	210	8.55	1
50	40	255	310	150	20	30	210	12.90	1
50	40	255	310	150	20	30	350	14.00	1
50	40	255	310	150	20	30	500	14.80	1
80 <sup>2</sup>	80	225	470	220	28	35	375*	21.90	1
100	60	300	370	170	25	30	260	18.35	1
100	80	300	370	170	25	30	50	18.10	1
100	80	300	370	170	25	30	365*	19.00	1
150	120	360	455	230	30	45	260	36.35	1
200	160	410	490	250	35	55	260	45.35	1
280	250	365	630	230	30	45	260	47.35	1
300	270	440	555	280	30	55	150	55.60	1
400	360	500	610	310	40	60	380	73.14	1
400 <sup>2</sup>	345	385	630	380	30	45	155*	49.20	1
430	430	530	560	380	50	60	400	99.40	1
450	450	520	640	320	45	60	130	83.00	1
500	500	490	840	320	45	60	150	127.00	1
600	600	485	940	320	45	60	150	135.00	1
750-2 <sup>1</sup>	470	600	635	360	50	65	400	127.00	1
980	930	600	790	360	50	65	180	140.20	1
1000	950	700	790	490	50	65	200	187.20	1
1000	950	700	790	490	50	65	300	190.00	1
1500 <sup>2</sup>	1450	640	930	450	45	70	200	207.20	1
2000	1950	880	1000	520	60	80	200	357.20	1

## Type ZPA

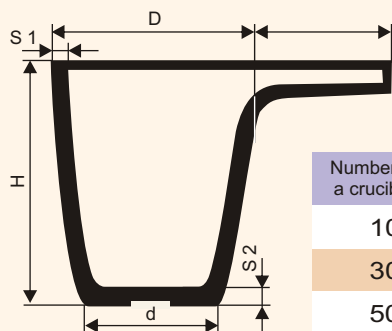



The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.



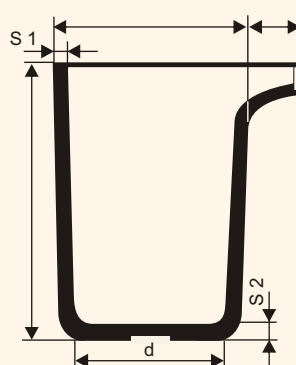
- 1 - crucible with two spouts, situated at an angle 90° to each other.
- 2 - crucible of cylindrical form with spout.
- \* - spout is situated at an angle.

**Type TPK** Glazed crucibles with a spout for metal discharging are intended for operations in the rotating furnaces with melting temperature up to 1600°C.



Number of a crucible	Conventional cubic content on copper, kg	D, mm	H, mm	d, mm	S1, mm <sup>1</sup>	S2, mm	L, mm	Weight, kg	
10	8	145	175	90	13	18	326	5.00	1
30	25	220	270	140	20	30	210	9.91	1
50	40	255	310	150	20	30	210	14.90	1
50	40	255	310	150	20	30	350	16.00	1
50	40	255	310	150	20	30	500	16.80	1
80 <sup>2</sup>	80	225	470	220	28	35	375*	22.80	1
100	60	300	370	170	25	30	260	22.35	1
100	80	300	370	170	25	30	50	22.60	1
100	80	300	370	170	25	30	365*	23.00	1
150	120	360	455	230	30	45	260	42.35	1
200	160	410	490	250	35	55	260	52.35	1
280	250	365	630	230	30	45	260	54.35	1
300	270	440	555	280	30	55	150	66.60	1
400	360	500	610	310	40	60	380	78.14	1
400 <sup>2</sup>	345	385	630	380	30	45	155*	52.50	1
430	430	530	560	380	50	60	400	104.40	1
450	450	520	640	320	45	60	130	91.00	1
500	500	490	840	320	45	60	150	135.00	1
600	600	485	940	320	45	60	150	143.00	1
750-2 <sup>1</sup>	470	600	635	360	50	65	400	140.00	1
980	930	600	790	360	50	65	180	162.20	1
1000	950	700	790	490	50	65	200	217.20	1
1000	950	700	790	490	50	65	300	220.00	1
1500 <sup>2</sup>	1450	640	930	450	45	70	200	215.20	1
2000	1950	880	1000	520	60	80	200	417.20	1

**Type ZPK**

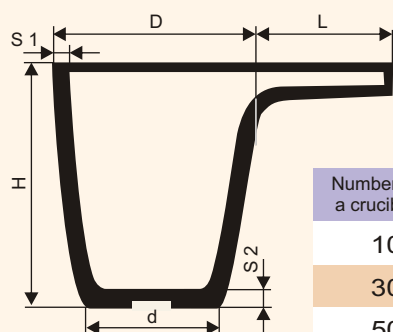



The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.



- 1 - crucible with two spouts, situated at an angle 90° to each other.  
 2 - crucible of cylindrical form with spout.  
 \* - spout is situated at an angle.

**Type TPX** Glazed crucibles on carbon bond with a spout for metal discharging are intended for operations in the rotating furnaces with melting temperature up to 1500°C, they don't demand preliminary drying at the exploitation.



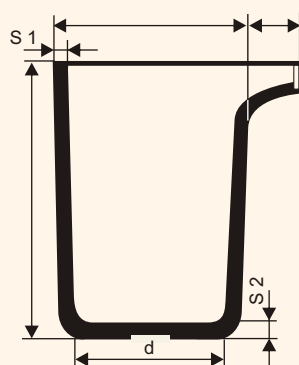
Number of a crucible	Conventional cubic content on copper, kg	D, mm	H, mm	d, mm	S1, mm	S2, mm	L, mm	Weight, kg	
10	8	145	175	90	13	18	326	4.90	1
30	25	220	270	140	20	30	210	9.00	1
50	40	255	310	150	20	30	210	13.60	1
50	40	255	310	150	20	30	350	14.70	1
50	40	255	310	150	20	30	500	15.50	1
80 <sup>2</sup>	80	225	470	220	28	35	375*	23.70	1
100	60	300	370	170	25	30	260	21.35	1
100	80	300	370	170	25	30	50	21.50	1
100	80	300	370	170	25	30	365*	22.00	1
150	120	360	455	230	30	45	260	39.85	1
200	160	410	490	250	35	55	260	50.35	1
280	250	365	630	230	30	45	260	54.35	1
300	270	440	555	280	30	55	150	61.60	1
400	360	500	610	310	40	60	380	84.14	1
400 <sup>2</sup>	345	385	630	380	30	45	155*	54.00	1
430	430	530	560	380	50	60	400	93.40	1
450	450	520	640	320	45	60	130	88.00	1
500	500	490	840	320	45	60	150	132.00	1
600	600	485	940	320	45	60	150	140.00	1
750-2 <sup>1</sup>	470	600	635	360	50	65	400	145.00	1
980	930	600	790	360	50	65	180	172.20	1
1000	950	700	790	490	50	65	200	220.20	1
1000	950	700	790	490	50	65	300	223.00	1
1500 <sup>2</sup>	1450	640	930	450	45	70	200	229.90	1
2000	1950	880	1000	520	60	80	200	399.20	1

1 - crucible with two spouts, situated at an angle 90° to each other.

2 - crucible of cylindrical form with spout.

\* - spout is situated at an angle.

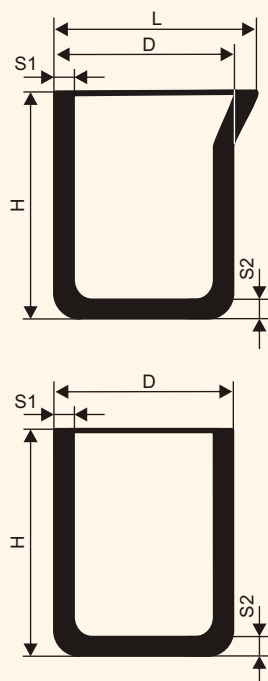
The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.




**Type ZPX**

# FIREPROOF GRAPHITE CYLINDER CRUCIBLES FOR OPERATIONS IN THE INDUCTION FURNACES

## Type ZA



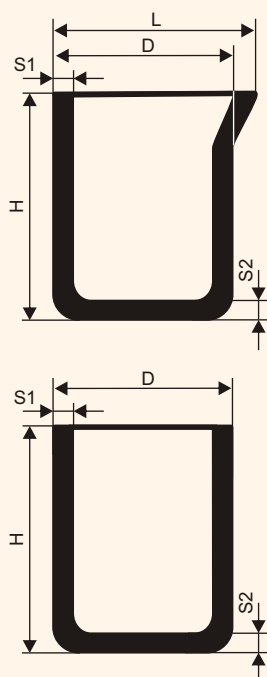
Glazed cylinder crucibles are intended for melting of non-ferrous metals and alloys in the induction furnaces with working temperature up to 1500°C.

Number of a crucible	Conventional cubic content on copper, kg	D <sub>i</sub> , mm	H, mm	S1, mm	S2, mm	L, mm	Weight, kg	
10	10	140	250	20	25	-	3.4	2
11	9	110	250	12.5	15	-	1.9	4
12	10	110	265	12.5	15	-	2.0	4
60	60	225	380	28	35	-	14.5	1
80	80	225	470	28	35	-	17.6	1
90	115	270	510	30	40	-	24.5	1
95	65	255	320	27	30	260	13.8	1
120	85	270	370	30	32	280	16.5	1
135	135	300	420	30	40	-	24.7	1
150	100	270	440	30	32	280	21.0	1
175	160	300	520	30	40	-	29.5	1
180H	160	328	420	28	45	-	26.2	1
180	200	328	530	28	45	336	31.8	1
400	345	385	630	30	45	-	45.2	1
800	800	540	730	40	55	-	106.5	1
900	900	540	815	40	55	-	110.0	1
1000	1000	640	700	45	70	-	163.0	1
1200	1200	540	1000	40	55	-	128.6	1
1300	1300	540	1100	40	55	-	142.0	1
1400	1400	610	930	45	70	-	188.0	1
1500	1500	640	930	45	70	-	200.0	1
1700	1700	610	1170	45	70	-	225.0	1
2000	1800	690	1100	60	75	-	278.0	1
2500	2000	690	1200	60	75	-	296.0	1


The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.



## Type ZK



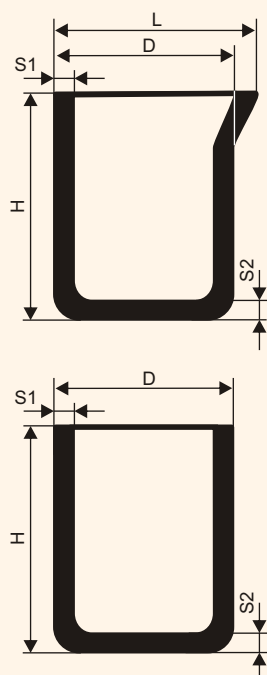
Glazed cylinder crucibles are intended for melting of non-ferrous metals and alloys in the induction furnaces with working temperature up to 1600°C.

Number of a crucible	Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	L, mm	Weight, kg	
10	10	140	250	20	25	-	4.0	2
11	9	110	250	12.5	15	-	2.2	4
12	10	110	265	12.5	15	-	2.3	4
60	60	225	380	28	35	-	15.2	1
80	80	225	470	28	35	-	18.5	1
90	115	270	510	30	40	-	25.8	1
95	65	255	320	27	30	260	14.5	1
120	85	270	370	30	32	280	19.0	1
135	135	300	420	30	40	-	26.0	1
150	100	270	440	30	32	280	22.1	1
175	160	300	520	30	40	-	31.0	1
180H	160	328	420	28	45	-	27.6	1
180	200	328	530	28	45	336	33.5	1
400	345	385	630	30	45	-	48.5	1
800	800	540	730	40	55	-	110.8	1
900	900	540	815	40	55	-	114.0	1
1000	1000	640	700	45	70	-	170.0	1
1200	1200	540	1000	40	55	-	138.0	1
1300	1300	540	1100	40	55	-	152.0	1
1400	1400	610	930	45	70	-	203.0	1
1500	1500	640	930	45	70	-	208.0	1
1700	1700	610	1170	45	70	-	243.0	1
2000	1800	690	1100	60	75	-	300.0	1
2500	2000	690	1200	60	75	-	320.0	1


The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.



## Type ZX

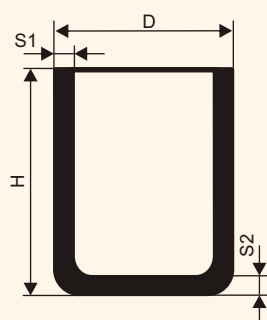


Glazed cylinder crucibles are intended for melting of non-ferrous metals and alloys in the induction furnaces with working temperature up to 1500°C, they don't demand preliminary drying at exploitation.


Number of a crucible	Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	L, mm	Weight, kg	
10	10	140	250	20	25	-	3.7	2
11	9	110	250	12.5	15	-	2.0	4
12	10	110	265	12.5	15	-	2.2	4
60	60	225	380	28	35	-	15.9	1
80	80	225	470	28	35	-	19.4	1
90	115	270	510	30	40	-	27.1	1
95	65	255	320	27	30	260	13.4	1
120	85	270	370	30	32	280	20.0	1
135	135	300	420	30	40	-	27.3	1
150	100	270	440	30	32	280	23.2	1
175	160	300	520	30	40	-	32.6	1
180H	160	328	420	28	45	-	29.0	1
180	200	328	530	28	45	336	35.2	1
400	345	385	630	30	45	-	50.0	1
800	800	540	730	40	55	-	119.0	1
900	900	540	815	40	55	-	122.0	1
1000	1000	640	700	45	70	-	182.0	1
1200	1200	540	1000	40	55	-	143.0	1
1300	1300	540	1100	40	55	-	1572.0	1
1400	1400	610	930	45	70	-	210.0	1
1500	1500	640	930	45	70	-	222.7	1
1700	1700	610	1170	45	70	-	251.0	1
2000	1800	690	1100	60	75	-	317.0	1
2500	2000	690	1200	60	75	-	340.0	1

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type ZC



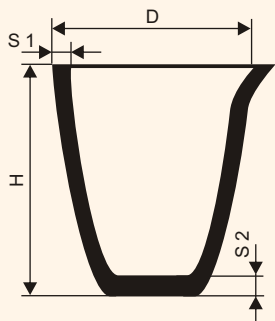
Non-glazed crucibles are used for casting of non-ferrous metals and their alloys with temperature not more than 1600°C. They are remarkable for their increased thermal insulating properties. Glazed type is possible if requested by consumer.

Number of a crucible	Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	L, mm	Weight, kg	
30	25	170	320	20	20	-	5.52	1

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.


# FIREPROOF GRAPHITE CRUCIBLES FOR MELTING OF PRECIOUS METALS

## Type AT



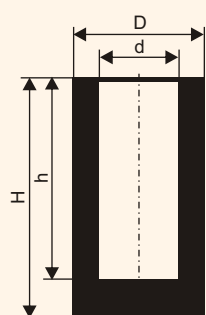
Non-glazed crucibles are intended for melting of precious metals with melting temperature up to 1600°C in the induction and muffle furnaces.

Glazed type is possible if requested by consumer.


Number of a crucible	Conventional cubic content on copper, kg	D, mm	H, mm	S1, mm	S2, mm	Weight, kg	
4/0	0.1	41	51	6	7	0.05	50
2/0	0.3	54	65	7	10	0.09	50
0	0.6	60	70	7.5	12	0.16	50
1	1.0	90	90	9	12	0.27	50
2	2.0	100	110	10	12	0.54	20
3	3.0	110	130	10	12	0.85	8
4	4.0	115	140	10	15	0.90	8
5	5.0	125	150	10	15	1.20	4
7	10.0	140	175	12	15	1.50	4
10	15.0	160	200	15	18	2.70	4
14	20.0	175	220	16	22	3.00	4
15	25.0	180	230	17.5	22	3.30	4

The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Type ZD



Non-glazed crucibles are intended for melting of precious metals with melting temperature up to 1250°C, by heating at the expense of an electrical current being passed through a crucible.

Conventional cubic content on gold, kg	D, mm	d, mm	H, mm	h, mm	Weight, kg	
0.3	33	20	60	50	0.06	25
0.5	40	28	60	50	0.09	25
0.7	39	24	90	83	0.125	25
2.0	54	37	94	83	0.27	20
2.5	65	40	124	114	0.56	20
2.6	62	48	94	83	0.286	20
6.0	85	55	155	140	1.06	20
23.0	128	100	180	160	2.00	10

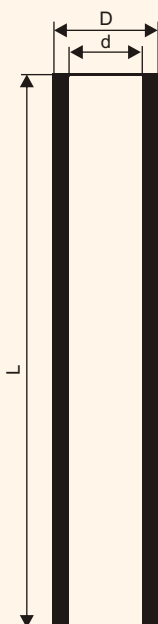
The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.


# FIREPROOF GRAPHITE REFRACTORY PRODUCTS FOR SUBLIMATION OF ZINC

## Graphite Fireproof Muffles

### Type **M**

Glazed muffles are intended for sublimation of zinc at exploitation temperature 1100°-1450°C.



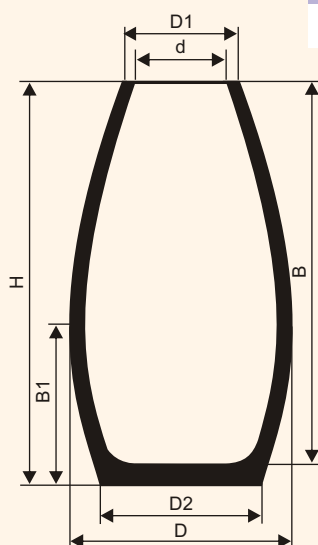
Number of a muffle	D, mm	d, mm	L, mm	Weight, kg	
1200	250	200	1200	42	1
1900	250	200	1900	66	1


The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## Graphite Fireproof Retorts

### Type **RC**

Non-glazed retorts are intended for sublimation of zinc at exploitation temperature 1100°-1350°C.



Conventional cubic content on copper, kg	D, mm	D1, mm	D2, mm	d, mm	H, mm	B, mm	B1, mm	Weight, kg	
650	500	250	365	180	920	860	370	87	1

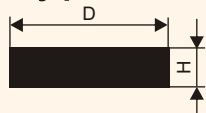
The plant accepts the orders for crucibles manufacture with dimensions not indicated in the given table.

## FOUNDRY ACCESSORIES

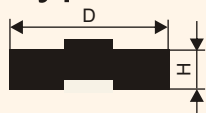
### Fireproof Graphite Pedestals


Pedestals are intended for installation of the crucibles on them in all types of furnaces.

#### Type **PE/PX**



#### Type **PVE/PVX**



D, mm	H, mm	Type of a crucible	Weight, kg E/X	
165	50	A20-A50,TP50,TP100,C25,Z10	2.00/2.10	1
230	50	A75-A150,TP150, C70-C280,TP280	3.80/4.00	1
250	100	A200,TP200,Z90,Z95	9.32/9.70	1
300	100	A300,C350,TP300,Z120-Z175,Z400	13.42/13.50	1
320	100	A400,C370-C600,TP400-TP600,Z180	14.50/15.00	1
350	100	A500	19.25/20.00	1
425	100	A600,B750-B980,BU350-BU900, Z900,TP750-TP980	26.00/27.00	1
460	100	BU1000-BU2200,Z1500,ZP1500	30.00/36.50	1
525	100	B1000,BU460,BU650, TP1000,Z1200,Z1300	41.20/44.00	1
550	100	B2000,TP2000,Z1400-Z2500	43.00/52.40	1

Height more 100 (50) mm is performed by a set of 2-3 pedestals.

The plant accepts the orders for pedestals manufacture with dimensions not indicated in the given table.

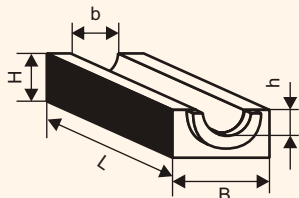



## Fireproof Graphite Gutters

### Type **GE/GX/GC\***



Fireproof graphite gutters are intended for metal tapping from crucibles, working in the rotating furnaces.



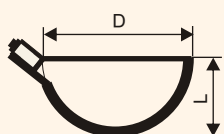
Number of a gutter	B, mm	L, mm	H, mm	b, mm	h, mm	Weight, kg E/X	
1	160	200	100	80	60	5.6/5.8	1
2	160	300	100	80	60	8.4/8.6	1
3	160	360	100	80	60	10.0/10.5	1
4	160	150	100	100	45	4.5/4.6	2
5*	130	360	70	65	40	6.1	1
6*	190	400	190	140	165	10.0	1
7*	200	260	80	60	30	2.4	1
8	160	240	100	80	60	6.7/7.0	1
12*	400	316	190	100	60	7.2	1
16	220	360	110	80	30	10.6/11.2	1


The plant accepts the orders for gutters manufacture with dimensions not indicated in the given table.

## Fireproof Graphite Casting Ladles

### Type **SK**

Casting ladles are intended for bailing non-ferrous metals and their alloys out of the crucibles.



Number of a casting ladle	Content in litres	D, mm	H, mm	Threading	Weight, kg	
1	0.13	100	56	M 8	0.50	4
1.5	0.26	120	66.5	M 8	0.60	4
2	0.33	128	75	M10	0.70	4
3	0.55	150	81.5	M10	0.85	4
5	0.73	172	92	M16	1.40	1
6	1.5	170	130	M16	1.60	1
8	2.2	220	125	M16	3.20	1
9	3.2	265	140	M16	3.65	1


The plant accepts the orders for ladles manufacture with dimensions not indicated in the given table.

# Fireproof Graphite Rods

## Type S

Rods are intended for mixing of non-ferrous metals and their alloys in the crucibles.



Number of a rod	D, mm	L, mm	Weight, kg	
1	20	600	0.32	20
2	30	265	0.35	20
3	30	1000	1.30	5
4	32	600	0.87	6
5	40	600	1.32	5
6	50	460	1.65	4
7	50	500	1.77	4
8	50	1000	3.54	2
9	30	795	1.05	5
10	95	230	2.93	3
11	120	230	4.68	2
12	10	300	0.05	40
13	30	600	0.78	5

The plant accepts the orders for rods manufacture with dimensions not indicated in the given table.

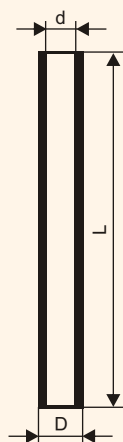





# Fireproof Graphite Tubes

## Type U

Tubes are intended for passing of non-ferrous metals and their alloys.



Number of a tube	D, mm	d, mm	L, mm	Weight, kg	
1	35	8	100	0.17	40
2	80	40	800	5.30	2
3	80	40	1000	6.80	2
4	100	60	600	5.43	2
5	100	60	700	6.30	2
9	50	10	120	0.41	20
10	100	60	856	8.41	2
12	60	10	700	3.50	3
13	70	10	530	3.60	3
14*	63	22	250	1.30	10
15	100	60	1000	9.00	2
16*	100	60	886	8.10	2
17	100	60	1200	10.80	2
19**	70	40	750	2.40	5
21***	36	18	300	0.41	20
24	40	12	500	1.03	5
26	76	16	800	6.24	2
27	80	35	600	4.40	2
28	60	26	1600	6.64	5
UK/UH-7	200	160	360	9.30/8.80	1
UK/UH-8	370	330	250	10.20/9.70	1
UK/UH-22	330	290	250	10.40/10.00	1
UK/UH-23	300	240	310	17.20/16.50	1
UK/UH-25	200	160	1000	25.80/25.40	1

\* tube-plug

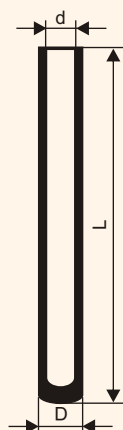
\*\* tube of rectangular section

\*\*\* tube with thread M36 on outside surface.


The plant accepts the orders for tubes manufacture with dimensions not indicated in the given table.



## Type UP



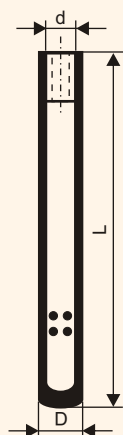
Pyrometric tubes are intended for protection of thermocouples when measuring of temperature of molten non-ferrous metal or alloy.

Number of a tube	D, mm	d, mm	L, mm	Weight, kg	
1	30	10	300	0.34	20
2	30	10	600	0.68	10
3	50	25	460	1.38	5
4	50	25	480	1.43	5
5	50	25	645	1.95	5
6	50	25	670	2.02	5
7	50	25	800	2.40	5
8	60	26	1000	4.15	5
9	98	22	340	4.40	5
10	60	22	400	1.80	10
11	30	16	300	0.275	20
12	50	22	1000	2.85	5
13	26	16	400	0.238	20
14	50	26	2000	5.15	5
15	50	26	1600	4.12	5
16	90	60	800	5.10	2
17	100	70	600	4.30	2
18	30	16	620	0.57	10
19	32	22	160	0.12	10
20	45	20	500	1.15	10
21	48	26	2000	4.60	5
22	50	25	600	1.80	5
23	100	70	220	1.60	5
24	50	26	1300	3.35	5
25*	50	20	300	0.89	5
26	50	22	600	1.70	5
27	70	35	1500	7.80	3
28	50	26	1250	3.22	5
29	40	20	1600	2.70	5
31	50	26	1100	2.83	5
32	50	26	250	0.64	10
33	50	26	750	1.93	5
34	50	26	900	2.32	5
35	56	25	1000	3.70	5
36	60	22	500	2.30	5
37	50	25	500	1.50	5


\* with thread M24

The plant accepts the orders for tubes manufacture with dimensions not indicated in the given table.

## Type UV



Gas tubes are intended for passing of different gases through molten metal, used at chlorination, nitriding of metal and others.

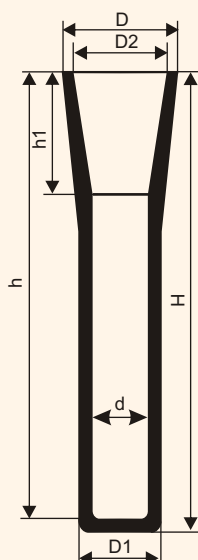
Number of a tube	D, mm	d, mm	L, mm	Threading	Weight, kg	
1	56	20	645	M24	2.3	5
2	56	20	1000	M24	3.9	5
3	56	20	1600	M24	6.2	5
4	56	20	1500	M24	5.8	5
5	56	20	600	M24	2.2	5


The plant accepts the orders for tubes manufacture with dimensions not indicated in the given table.

## Fireproof Graphite Chills

### Type F/FX

Glazed chills are intended for production of metallic and bimetallic bars.



Number of a chill	D, mm	D1, mm	D2, mm	d, mm	H, mm	h, mm	h1, mm	Weight, kg, F/Fx	
122	310	255	250	122	1180	1120	320	86/98	1
124	265	220	160	124	1100	980	80	75/86	1
147	310	255	250	147	1180	1120	320	77/88	1

The plant accepts the orders for chills manufacture with dimensions not indicated in the given table.

## Fireproof SiC-mixture

Intended for sound connection of fireproof graphite products into a single structure.



The plant sells fireproof SiC-mixture in any quantity from 1 kg, including packed into standard plastic buckets of 5,0 kg and 12,0 kg.

