

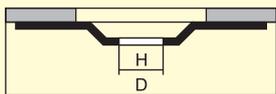
# Flap butt-end and radial wheels Velcro discs



# FLAP BUTT – END WHEELS FOR HAND PORTABLE GRINDERS

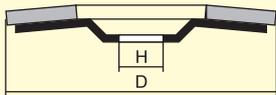


## DESIGN OF WHEEL



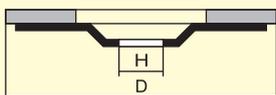
### Type KLT1

For flat grinding, processing of edges and joint welds of parts. Contact of wheel with processed surface at an angle 0-15°.



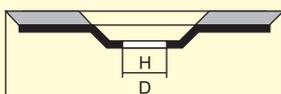
### Type KLT2

For processing of hard-to-reach places, butt and flat grinding. Conical shape of the tool during operation ensures better adjoining of flaps to surface of metal. Contact of wheel with processed surface at an angle 15-25°.



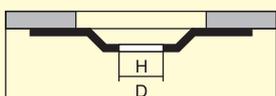
### Type KLT3

For flat grinding, processing of edges and joint welds of parts and constructions made of different kinds of steel, non-ferrous metals, wood, plastic. Main difference of KLT-3 from other types is presence of paired flaps (main and additional), which allows to increase rate of work significantly.



### Type KLT4

New structure of flaps' arrangement increases flexibility of wheel, which permits processing of contour surfaces of parts and constructions made of different kinds of steel, non-ferrous metals, wood. Interaction region of working part of the wheel and product is larger, than during usage of wheels KLT1 and KLT2, which allows to effect qualitative processing faster, than by fiber disk.



### Type KLT5

For multifunctional grinding of products made of metal and other materials (wood, plastic). Increased 2 times the output of the flaps over the edge of backing facilitates work with bends, corners, complex surfaces, and also increases the cooling efficiency of the working part of the wheel. The increased angle of flaps' position allows to use the wheels, with the appropriate force of pressure, for both rough and fine grinding.

# FLAP BUTT – END WHEELS FOR HAND PORTABLE GRINDERS

Within the company "Luga Abrasive Plant" our own backing (base for KLT) of high strength is produced made of special materials, which allow to improve glue adhesion and security of attachment of grinding flaps and, accordingly, to increase the strength of the whole KLT design.

## FUNCTIONALITY OF THE WHEEL



- Metal



- Wood



- Plastic

## GRINDING MATERIAL

### BROWN FUSED ALUMINA

Normal - A

Zirconia - ZK

Ceramic - CER

series

## «PROFESSIONAL»

Wheels of series "PROFESSIONAL" are intended for processing of metals, wood, plastic.

### Advantages

High durability and large removal of the processed material.



80m/s	Applied equipment
Material A	

Type	D (mm)	H (mm)	Grit	Allowable rotation speed, RPM
KLT1	100	22,23	24; 36; 40; 50; 60; 80; 100; 120; 150; 180; 220; 240; 320	15300
	102	15,9		15300
KLT1 KLT2	115	22,23		13300
	125			12250
	150			10200
KLT1	180	8500		
	200	7650		

Wheels of series "ECONOMY" are intended for universal processing of a wide range of materials: soft and hard woods, plastic, low-hardness steel.

### Advantages

- ▶ optimal performance when periodical use in the semi-professional segment
- ▶ high performance with medium loads
- ▶ more favorable price in comparison with wheels of the series Professional



## series «ECONOMY»

80m/s	Applied equipment
Material A	

Type	D (mm)	H (mm)	Grit	Allowable rotation speed, RPM
KLT1 KLT2	115	22,23	24; 36; 40; 50; 60; 80; 100; 120; 150; 180	13300
	125			12250
150	10200			
180	8500			
KLT1	200	7650		

Wheels can be used on angle grinders with number of revolutions, not exceeding indicated on disk value

# FLAP BUTT – END WHEELS FOR HAND PORTABLE GRINDERS

## Wheels of series "ZIRCON"

are intended for treatment of joint welds of all steel grades, grinding of high-alloyed and hard – to treat steels, cleaning of casting, scale, burr. The use of zirconium grain allows to increase the service life of the tool several times and to process with large clamping forces, which provides a powerful removal of material and reduces the processing time.



## series «ZIRCON»

<b>80m/s</b>	Applied equipment
Material <b>ZK</b>	

Type	D (mm)	H (mm)	Grit	Allowable rotation speed, RPM
<b>KLT1</b> <b>KLT2</b>	115	22,23	24; 36; 40; 60; 80; 100; 120	13300
	125			12250
	150			10200
	180			8500

## Wheels of series ZIRCON STANDART

are used for universal treatment of all kinds of steel, including high-alloyed and stainless, stripping of joint welds, blunting of sharp edges, deflashing, rust removal.

### Advantages

More favorable price compared to the wheels of series of "ZIRCON", while keeping the high quality of processing of zirconia grinding material. The new design of KLT allowed to increase productivity in 2 times as compared with wheels of the series "PROFESSIONAL".



## series «ZIRCON standart»

<b>80m/s</b>	Applied equipment
Material <b>ZK</b>	

Type	D (mm)	H (mm)	Grit	Allowable rotation speed, RPM
<b>KLT1</b> <b>KLT2</b>	115	22,23	24; 36; 40; 60; 80; 100; 120	13300
	125			12250
	150			10200
	180			8500

## Wheels of the series "CERAMIC"

are intended for processing of high-alloy, stainless steels, titanium and nickel alloys. Wheels can be used for pre-grinding and finish grinding, stripping of joint welds, dulling of sharp edges, deburring.

The usage of high-strength and high-quality ceramic grain allows:

- ▶ to increase in 2 times the service life compared to the wheels "ZIRCON»;
- ▶ to reduce in 2 times the time for part processing;
- ▶ to reduce the temperature in the grinding area and to prevent burnings;
- ▶ to exclude the appearance of "rust" on the machined surface.



## series «CERAMIC»

<b>80m/s</b>	Applied equipment
Material <b>CER</b>	

Type	D (mm)	H (mm)	Grit	Allowable rotation speed, RPM
<b>KLT1</b> <b>KLT2</b>	115	22,23	40; 60	13300
	125			12250
	150			10200
	180			8500

Wheels can be used on angle grinders with number of revolutions, not exceeding indicated on disk value

# FLAP BUTT – END WHEELS FOR HAND PORTABLE GRINDERS

## Design of KLT3 allows:

- ▶ to increase the removal of the processed material per unit time with the same grit of the main and auxiliary flaps (A40/40). This is due to the increase in the area of contact of the auxiliary flap with the surface of the processed product.
- ▶ to improve the quality of the processed surface - when working with a wheel having an auxiliary flap of finer grit (A 40/60).
- ▶ to manufacture wheels in a more attractive price/quality ratio for the consumer



## series «Flap Disc»

<b>80m/s</b>	Applied equipment
Material A	

Type	D (mm)	H (mm)	Grit	Allowable rotation speed, RPM
KLT3	115	22,23	40/40; 40/60; 60/60; 80/80; 100/100; 120/120; 150/150	13300
	125			12250
	150			10200
	180			8500

## The special structure of grouping of KLT4' flaps increases flexibility of the wheel

It allows to process contour surfaces of details and construction made of different kinds of steel, non-ferrous metals and wood. Interaction region of a working part of the wheel and a product is 40% more, that when using wheels KLT1 or KLT2. It allows to make high-quality processing of surface quicker.



## series «Soft Disc»

<b>80m/s</b>	Applied equipment
Material A	

Type	D (mm)	H (mm)	Grit	Allowable rotation speed, RPM
KLT4	115	22,23	24; 36; 40; 50; 60; 80; 100; 120; 150; 180; 220; 240; 320	13300
	125			12250

## The main advantages of KLT5:

- ▶ Increased twice the output of the flaps over the edge of the backing allows:
  - to make processing in corners, bends, and also processing of flat and contour surfaces;
  - to increase the cooling efficiency of the working part of the wheel, which significantly increases the tool life.
- ▶ Flat type of backing's design allows to process hard-to-reach places.
- ▶ The increased number of flaps ensures more efficient and long life of the wheel.
- ▶ The increased angle of the flaps' grouping allows the use of wheels in various operations:
  - for rough grinding - when pressing hard on the wheels, the flaps are firmed and provide greater removal of the processed material
  - for fine grinding - when lightly pressed on the wheel, the flaps spring. It allows to reduce removal of the processed material at cleaning or alignment of a surface.



## series «Elastic»

<b>80m/s</b>	Applied equipment
Material A	

Type	D (mm)	H (mm)	Grit	Allowable rotation speed, RPM
KLT5	115	22,23	40; 60; 80; 100; 120; 150; 180; 220; 240; 320	13300
	125			12250
	150			10200
	180			8500

Wheels can be used on angle grinders with number of revolutions, not exceeding indicated on disk value

# GRINDING VELCRO DISCS

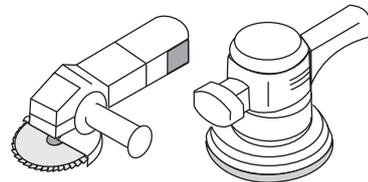
**Velcro discs** are intended for processing products from softwood and hardwood, plywood, fiberboard, metal. The disks are self-locking with a support plate of the corresponding power tool and are fixed with a light pressure, which makes quickly and easily change of the disk possible.

Anti-static coating of the grain of the coating abrasives reduces the loading of the disc with the waste of the processed material, which increases the service life of the tool and raises its productivity.



## Material A

### Applied equipment

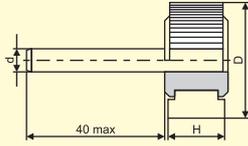


D (mm)	Grit	
115 125 150	24; 36; 40; 50; 60; 80; 100; 120; 150; 180; 220; 240; 320	
150	24; 36; 40; 50; 60; 80; 100; 120; 150; 180; 220; 240; 320	
115 125 150 225 300	24; 36; 40; 50; 60; 80; 100; 120; 150; 180; 220; 240; 320	

# FLAP RADIAL WHEELS

**KLO wheels** are used for processing of complex parts and structures of various grades of steel, non-ferrous metals, plastics and wood. They are used for rough, intermediate and final grinding.

## Type KLO

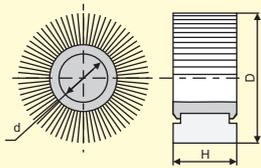


<b>40m/s</b>	Applied equipment
Material <b>A, ZK</b>	

D (mm)	H (mm)	d (mm)	Grit	Allowable rotation speed, RPM
25	10; 15; 20; 25; 30	6	40; 50; 60; 80; 100; 120; 150; 180; 220; 240; 320	30600
30				25500
40	10; 15; 25; 30; 40			19100
50				15300
60	10; 15; 20; 25; 30; 40; 50			12740
80	20; 25; 30; 40; 50			9550

**KL wheels** are used for rough, intermediate and final grinding of various metals, plastics, wood, painted and varnished surfaces, putty. Grinding wheels are well adjusted to the profile of the work-piece and guarantee steady rate of the grinding finish till complete wear of the wheel.

## Type KL

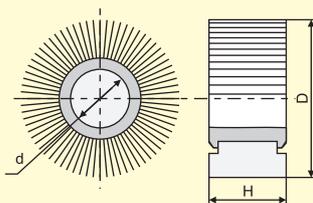


<b>40m/s</b>	Applied equipment
Material <b>A, ZK</b>	

D (mm)	H (mm)	d (mm)	Grit	Allowable rotation speed, RPM
60	10; 15; 20; 25; 30; 40; 50	8; 12	24; 36; 40; 50; 60; 80; 100; 120; 150; 180; 220; 240; 320	12740
80				9550
90	25; 30; 50	12; 22,23		8490
100	50; 60; 70	8; 12		7650
120	25; 30; 40; 50	12; 22,23; 32		6370
130		32		5880
150	50	32		5100 (40m/c)
	25; 30			6400 (50m/c)

### for fixed grinders

## Type KL



<b>40m/s</b>	Applied equipment
Material <b>A, ZK</b>	

D (mm)	H (mm)	d (mm)	Grit	Allowable rotation speed, RPM
200	25; 30; 50	32	36; 40; 50; 60; 80; 100; 120; 150; 180; 220; 240; 320	3850
350	50; 60; 75; 100; 120; 140	44,5; 127		2200
400				1950



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