Kronenflex® cutting-off wheels 2.0 – 3.2 mm

KLINGSPOR Kronenflex® cutting-off wheels with disc thickness of 2.0 to 3.2 mm are known for their particularly high lateral stability.

This is particularly important for applications which require deep cuts into solid material – e.g. to cut risers/casts or large profiles. The enormous lateral forces that occur while working require particularly high cutting-off wheel stability.

In spite of its thickness, KLINGSPOR Kronenflex cutting-off wheels of the 2.0 to 3.2 mm class are known for their excellent cutting rate and long service life. These cutting-off wheels are ideal for applications that require a high degree of lateral stability.

Typical materials for these products

- Steel
- Stainless steel
- Construction steel
- NF-metals
- Cast materials
- Stone
- Plastics
- Mineral materials
- Solid materials
- Pipes
- Flat irons
- Tins

Typical applications for these products

- Foundries
- Locksmiths
- Shipyards
- Steelwork
- Plant construction
- Metal works
- Maintenance and repair work

Type	Page	Thickness [mm]	Material applications												
			Steel	Hardened steels	Tool steel	Stainless steel	High alloy steels	Corrosion and acid proof steels	Aluminium	Bronze	Cooper	Brass	Zinc die-casting	Cast iron	Stone / concrete
A 24 Extra	207	2.0 – 3.2	●	○	●	○	○	○	○	○	○	○	○	○	
A 24 R Supra	207, 213	2.5 – 3.0	●	●	●	○	○	○					○	○	
A 24 N Supra INOX	208	2.5 – 3.0	○	●	○	●	●	●	○	○	○	○			
A 36 R Supra INOX	209	2.0 – 2.5	○	○	●	●	●	●		○	○	○			
A 36 TZ Special INOX	209	2.0	○	○	●	●	●	●						○	
A 24 R/36 Special INOX	210	2.5 – 3.0	○	○	●	●	●	●							
A 24 TZ Special	210	2.5 – 3.0	○		○	●	●	●						○	
A 46 N Supra	211	2,5 – 3,0							●	●	●	●	○		
A 24 S Supra	211	3.0	○											●	
C 24 Extra	212	2.5 – 3.0													●
C 24 R Supra	212	2.5 – 3.0												○	●

● = main application ○ = possible applications

Kronenflex® cutting-off wheels 1.6 – 2.0 mm

KLINGSPOR Kronenflex® cutting-off wheels with disc thickness of 1.6 to 2.0 mm combine excellent cutting properties with a high degree of lateral stability.

These wheels provide convincing arguments especially in day-to-day applications when working on materials with medium-strength cross sections. They are known for their short cutting time, good stability and minimal burr formation.

These advantages in connection with the wide range of applications make KLINGSPOR Kronenflex cutting wheels of the 1.6 to 2.0 mm class the highest performing universal-wheel for daily use in metalworking.

Typical materials for these products

- Steel
- Stainless steel
- Construction steel
- NF-metals
- Cast materials
- Solid materials
- Flat iron
- Tins
- Pipes

Typical applications for these products

- Locksmiths
- Shipyards
- Steelwork
- Plant construction
- Metal works
- Vehicle construction

Type	Page	Thickness [mm]	Material applications										
			Steel	Hardened steels	Tool steel	Stainless steel	High-alloy steels	Corrosion and acid proof steels	Aluminium	Bronze	Cooper	Brass	Zinc die-casting
A 46 Extra	215	1.6	●	○	○	●	○	○	○	○	○	○	○
A 46 R Supra	215	1.6	●	●	○	●	○	○	○	○	○	○	○
A 46 TZ Special INOX	216	1.6 – 1.9	●	●	●	●	●	●	○	○	○	○	●
A 46 VZ Special INOX	217	2	○	○	●	●	●	●					○

● = main application ○ = possible applications

Kronenflex® cutting-off wheels 0.8 – 1.0 mm

KLINGSPOR Kronenflex® cutting-off wheels with disc thickness of 0.8 to 1.0 mm are very thin cutting-off wheels with very short cutting times and minimal burr formation.

These cutting-off wheels develop their full power when working on thin-walled materials and are known for their precise, accurate and fast cuts at lowest thermal loads. Due to the cutting-off wheels' excellent cutting properties the weight of the machine itself provides suitable grinding pressure.

KLINGSPOR Kronenflex® cutting-off wheels of the 0.8 to 1.0 mm class are known for their high level of safety, efficiency and productivity.

Typical materials for these products

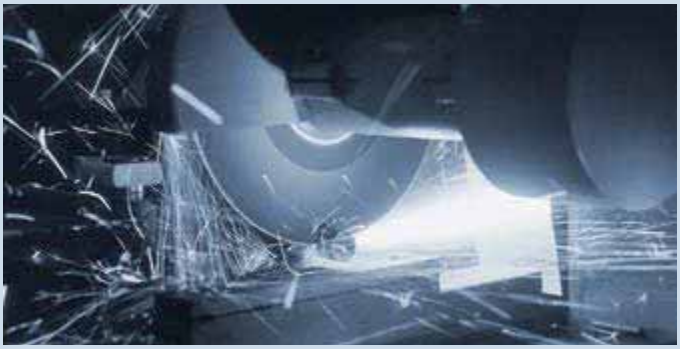
- Steel
- Stainless steel
- Construction steel
- NF-metals
- Cast materials
- Thin-walled profiles
- Thin tins
- Thin pipes
- Trapezoidal sheeting
- Flat irons
- Cable ducts
- Steel cables

Typical applications for these products

- Bodywork
- Maintenance and repair work
- Locksmiths
- Steelwork
- Plant construction
- Container construction
- Upkeep
- Metal works
- Vehicle construction

Type	Page	Thickness [mm]	Material applications											
			Steel	Hardened steel	Tool steel	Stainless steel	High-alloy steel	Corrosion and acid proof steels	Aluminium	Bronze	Cooper	Brass	Zinc die-casting	Cast iron
A 60 Extra	219, 220	1.0	●	○	○	●	○	○	○	○	○	○	○	○
A 60 R Supra INOX	221	1.0	●	●	●	●	○	○	○	○	○	○	○	○
A 60 TZ Special INOX	221, 222	1.0	●	●	●	●	●	●	○	○	○	○	●	○
T 60 AZ Special INOX	222	1.0	●	●	●	●	●	●	○	○	○	○	●	○
A 80 TZ Special INOX	219	0.8	●	●	●	●	●	●	●	○	○	○	○	○
A 60 N Supra	223	1.0	○	○	○	○	○	○	●	●	●	●	○	○

● = main application ○ = possible applications



Kronenflex® large cutting-off wheels

KLINGSPOR Kronenflex large cutting-off wheels are high-performance, robust wheels for special uses with an outer diameter of 300 mm and more.

Its high lateral stability ensures safe operation also in connection with hard cutting applications. The optimized grits and resins are specifically created for the specific application areas. The cutting-off wheels are known for their fast cuts and low thermal material loads, as well as their long service life.

KLINGSPOR Kronenflex large cutting-off wheels uses range from bench cutting to hand-held machines, from railway construction to industrial uses on stationary machines, this product is the ideal solution if outstanding performance and a high degree of safety is what is needed.

Cutting-off wheels for different types of machines:

- Hand held machines 80m/s
- Hand held machines with a clamping device for vigonole rails 100m/s
- Transportable bench chop saws < 3KW
- Stationary saws / cutters up to 5KW
- Stationary saws / cutters > 5KW

ATTENTION! Stationary cutting-off wheels may not be used with free-hand machines!

			Material applications														Machines			
Type	**Page**	**Thickness [mm]**	Steel	Hardened steels	Tool steel	Stainless steel	High-alloy steels	Corrosion and acid proof steels	Aluminium	Bronze	Cooper	Brass	Zinc die-casting	Cast iron	Stone / concrete	Asphalt	Bench chop saws	Hand held machines 80m/s	Hand held machines 100m/s	Stationary < 5KW
A 24 Extra	227	3.5	●	○	●	○	○	○						○				●		
C 24 Extra	227	3.5												○	●	○		●		
A 24 R Supra	231	3.0 – 4.5	●	●	●	○	○	○						○						●
A 24 N Supra INOX	231	3.5	○	●	●	●	●	●	○	○	○	○	○							●
A 24 R Special	228	3.5 – 4.0	●	●	●	●	●	●						○				●		
T 24 AX Special	230	3.5 – 4.0	●	●															●	
C 24 RA Supra	229	3.5 – 4.0													○	●		●		
C 24 RT Special	229	3.5													●			●		
C 24 RT/ 34 Special	228	3.5	●											○	○			●		
A 30 N Special	232	2.5 – 3.5	●	○	○	○	○	○	○	○	○	○	○	○			●			

● = main application ○ = possible applications

Which cutting-off wheel is used with which machine?

Large cutting-off wheels for stationary machines and large cutting-off wheels for hand held machines are designed differently and their build is optimized for the respective machine type. For safety reasons large cutting-off wheels for stationary machines may never be used with hand held machines.

The bore diameter of a large cutting-off wheel does not indicate if it is a wheel that can be used with a stationary machine or if it is a wheel that can be used with a hand held machine.

A binding overview regarding which KLINGSPOR wheel type is to be used with which machine type is provided in the table below.

Type	Ø [mm]	Thick-ness [mm]	Bore Ø [mm]	Machines	Safety		
					Max. operating speed	Application type (EN12413)	
A 24 Extra	300	3.5	20 / 22.23	general hand held machines (petrol, electric, high-frequency)	80 m/s	free-hand grinding	
C 24 Extra	300	3.5	20 / 22.23		80 m/s		
A 24 R Supra	250	3	32	stationary saws / cutters	100 m/s	stationary guided grinding	>3 KW
	300	3	22.23 / 25.4 / 30 / 32		100 m/s		>3 KW
	350	3.5	25.4 / 32		100 m/s		>3 KW
	400	4.5	25.4 / 32 / 40		100 m/s		>3 KW
A 24 N Supra	350	3.5	25.4		100 m/s		>3 KW
A 24 R/06 Supra	400	4	25.4		100 m/s		>5 KW
A 24 R Special	300	3.5	20 / 22.23 / 25.4	general hand held machines (petrol, electric, high-frequency)	80 m/s	free-hand grinding	
	350	4	20 / 22.23 / 25.4		80 m/s		
T 24 AX Special	300	3.5	22.23	general hand held machines (petrol, electric, high-frequency, hydraulic) with a clamping device	100 m/s	stationary guided grinding	
	350	4	22.23 / 25.4		100 m/s		
	400	4.5	25.4		100 m/s		
C 24 RA Special	300	3.5	20	general hand held machines, joint cutters (petrol, electric, high-frequency)	80 m/s	free-hand grinding	
	350	4	20 / 25.4		80 m/s		
A 30 N Special	300	2.5	25.4	transportable bench chop saws, chop saws	80 m/s	stationary guided grinding	<3 KW
	350	3	25.4		80 m/s		<3 KW
	400	3.5	25.4		80 m/s		<3 KW
C 24 RT Special	300	3.5	20	general hand held machines (petrol, electric, high-frequency)	80 m/s	free-hand grinding	
C 24 RT/34 Special	300	3.5	20		80 m/s		