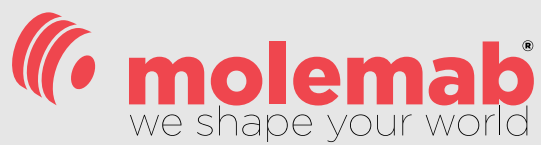


CONVENTIONAL
ABRASIVES
FOR PRECISION
GRINDING



Special thanks to:
A.Z. Spa, Rosa Ermando Spa and Samputensili Machine Tools S.r.l.
for kindly allowing us to use their facilities
and equipment in the photographs of this catalogue.

CONVENTIONAL
ABRASIVES
FOR PRECISION
GRINDING



THE GROUP





THE HEADQUARTERS

molemab's head office is located in Ome, province of Brescia, in the Franciacorta winegrowing area of northern Italy. From here the molemab group is organised. This is the main factory where the conventional and superabrasive vitrified bonded grinding wheels are manufactured. Another facility, located in Maclodio, in the province of Brescia, is where some types of vitrified and resinoid bonded grinding wheels are produced using highly automated technology. The factories in Ome and Maclodio are amongst the best organised facilities in Europe, including a manufacturing line with presses up to 2,500 tons as well as a modern research and development department.

THE PRODUCTION FACILITIES

The presence of molemab worldwide has been spreading throughout the years thanks to the growing potential and market demand of hi-tech products. molemab Inotech GmbH is located in Launsdorf, Austria. This is an advanced factory, focused on resinoid and metal bonded Diamond and CBN hi-tech grinding wheels produced by the most modern machinery. In Oswego, Illinois (USA) molemab USA Corp. there is a productive unit of Diamond and CBN vitrified bonded grinding wheels.

THE COMMERCIAL BRANCHES

In addition to the production facilities molemab has various commercial branches. They follow customers worldwide, providing technical and commercial support for every industrial sector. The European market is serviced by molemab Iberica SLU (Barcelona, Spain), molemab Super-abrasifs France Sas (Chassieu, France), molemab GmbH (Siegburg, Germany), molemab Abrasives Hungary (Budapest), molemab Superabrasives s.r.o. (Praha) and by our office in Pszczyna (Poland); whilst in North America operate molemab Canada (Sainte-Julie), molemab USA (Queensbury) and molemab de Mexico (Queretaro); in China molemab abrasives (Shanghai) co. Ltd (Suzhou). Supported by qualified distributors and agents worldwide, molemab can reach all of its customers, wherever they are.

molemab in the world



 Production facilities

 Technician-commercial branches



OUR VISION

molemab aspires to a well-distributed and sustainable technological progress, respecting human dignity and environment.

OUR MISSION

molemab designs modern and efficient technological solutions in the abrasives' field. The company's goal is to offer its customers the confidence to work with the most reliable products.

HIGHLIGHTS

molemab finds its roots in the heritage of its territory: the passion for work, moral coherence and concreteness. Great successes over the years have been achieved thanks to the quality of work of all the employees. With its endless research for the best products, machinery and raw materials, molemab has been able to build a strong and solid business history.

A continuous, harmonious growth with its customers, partners and suppliers remains the main goal for molemab in Italy and worldwide.

molemab is proud of its work and its values and retains them with passion and integrity.





OUR VALUES

Since 1961, when molemab started its activity, the world has changed and so have the markets, the manufacturing processes materials and the technological challenges. molemab values still remain the same: innovation, safety, quality and strong collaboration with customers and suppliers.

INNOVATION Since its foundation molemab has strived for constant improvement. Original patents, unique and custom made equipment and the most modern solutions have always characterised molemab history. molemab takes on the most difficult challenges: conventional grinding wheels for the toughest applications and special superabrasive grinding wheels reaching almost the speed of sound.

SAFETY molemab aims to ensure its customers and partners the safest working conditions and environment. molemab applies the strictest safety rules in manufacturing while making accurate security tests in its laboratories.

QUALITY The certifications ISO 9001 and OSA accredited to molemab in all the production facilities are the result of constant research. molemab quality is granted by meticulous production controls together with the continuous improvement of its technicians' skills and a scrupulous analysis of the market requirements.

COLLABORATION Sharing experiences between the manufacturer and the end user leads to the best results. The feedback exchange and dialogue are the two pillars on which molemab's success is based. Sharing ideas, ambitions and problems with our partners while keeping an eye on market evolution and dynamics is the key to step by step growth.

The background of the page is divided into two main horizontal sections. The top section is red and features a pattern of white dots of varying sizes, arranged in diagonal lines that recede towards the top right. The bottom section is white and features a pattern of grey dots of varying sizes, also arranged in diagonal lines that recede towards the bottom right. A dark grey rectangular box is positioned on the right side of the page, containing the page number and title.

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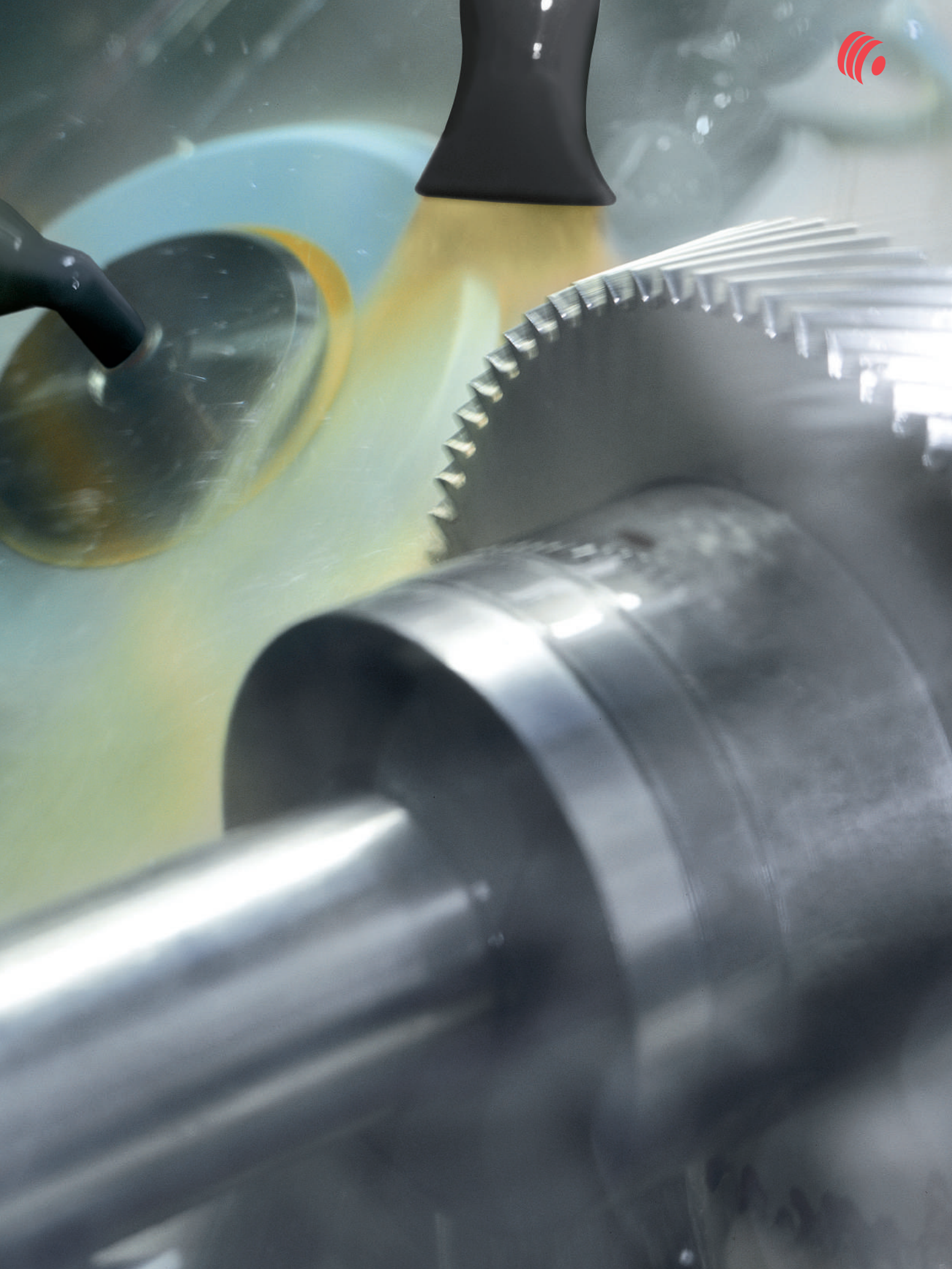
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GENERAL INFORMATION ABOUT TRUEING AND DRESSING

GENERAL
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E.G. LINE

Easy Grind is the latest generation of wheels born in the Research & Development department of molemab. New bonds and new grains types give unique characteristics to the vitrified wheels of THE E.G. line.

- they offer cool cutting
- they facilitate the introduction of the refrigerant into the area between grinding wheel and work-piece
- they allow a better chip removal
- they guarantee the respect of geometry
- they reduce the diamond dressing cycles
- they increase the life of the grinding wheel
- they increase productivity

APPLICATION	VITRIFIED FOR ALLUMINIUM OXIDE
General	VX
External grinding	VK
Surface grinding	VG
Gear grinding	V40

APPLICATION	VITRIFIED FOR SILICON CARBIDE
General	VJ

PERFECTA, PERFECTA MVC AND PERFECTA ROLL

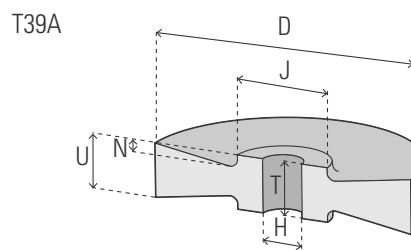
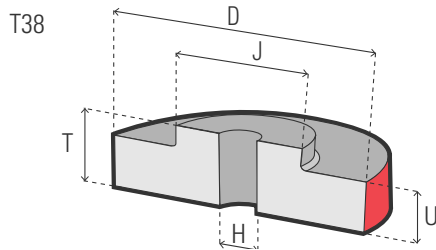
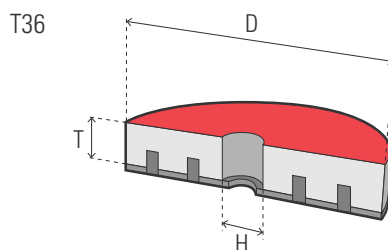
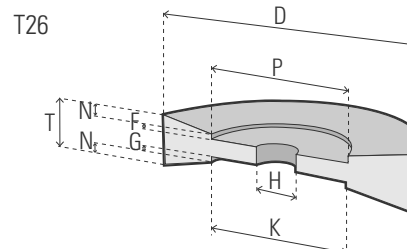
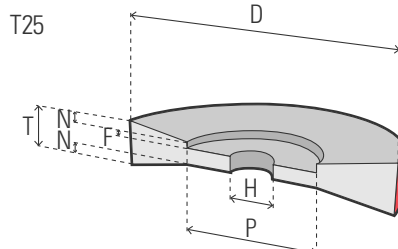
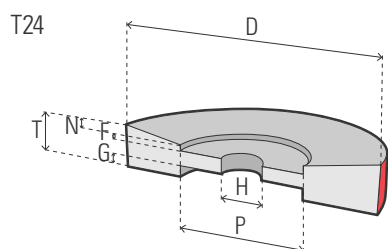
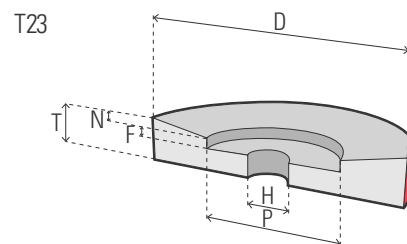
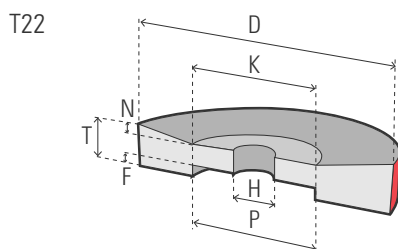
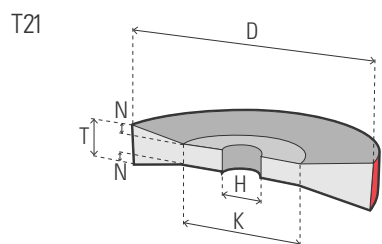
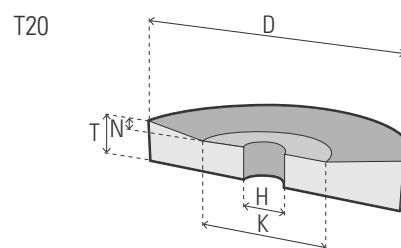
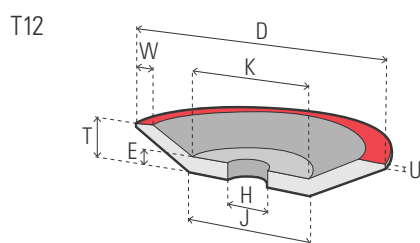
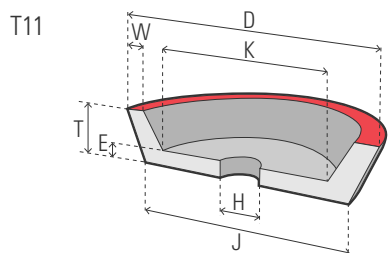
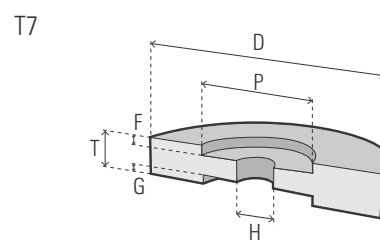
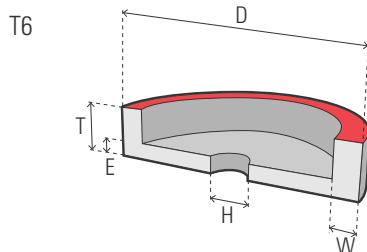
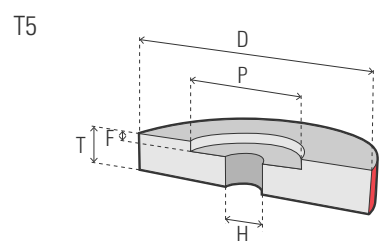
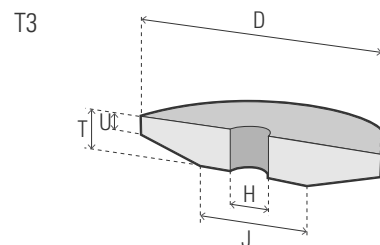
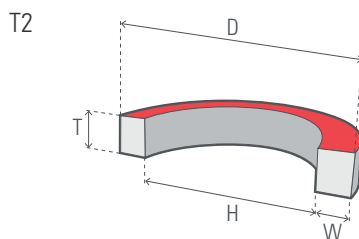
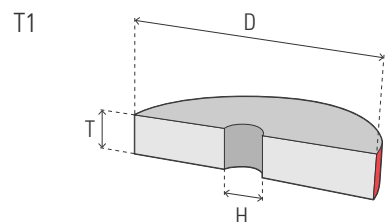
The abrasive grinding wheels of the new Perfecta line, fruit of years of continuous research and technical experimentation are manufactured specifically for the centreless grinding of bars and tubes and for cylindrical grinding of hot and cold rolls.

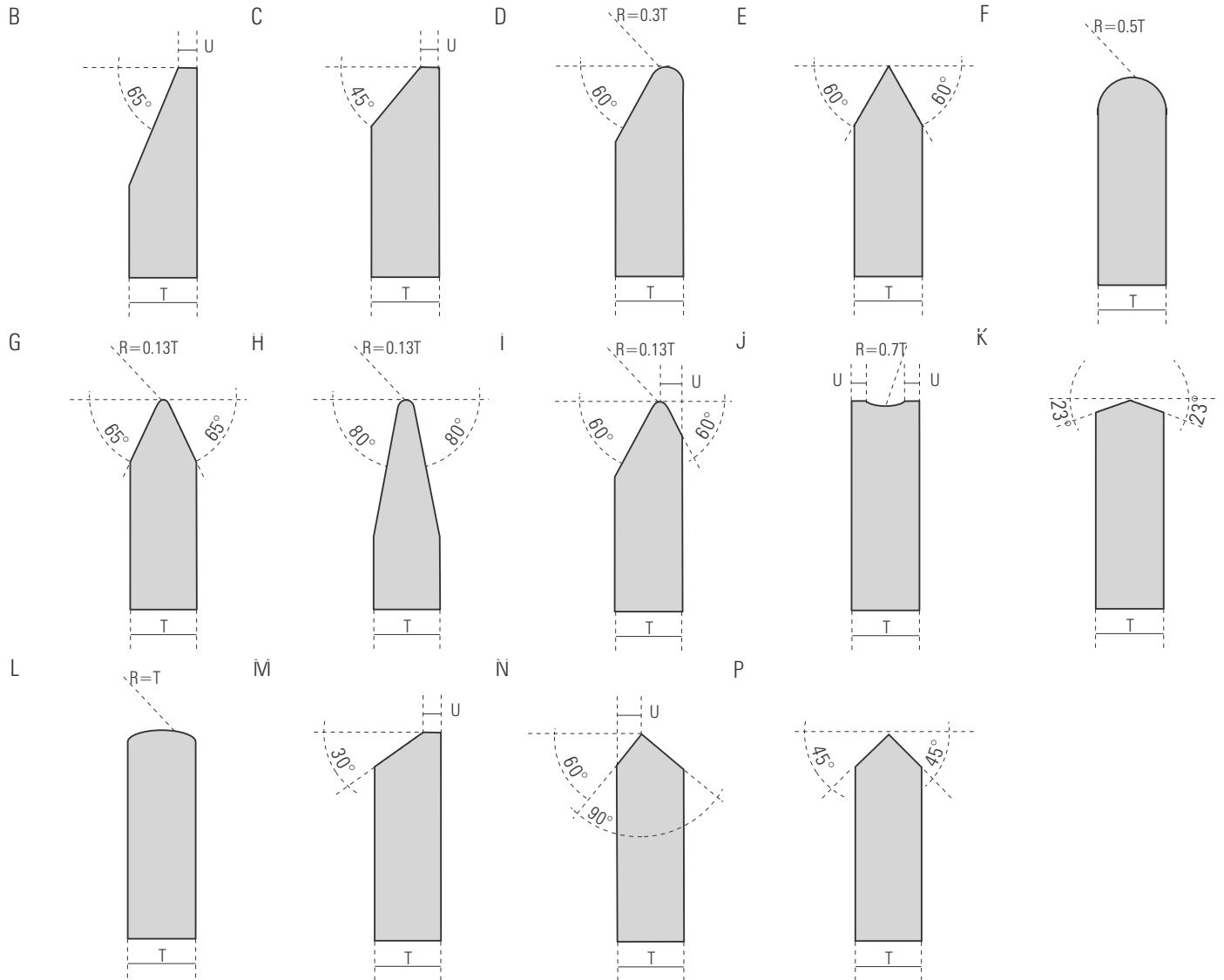
The Perfecta abrasive grinding wheels are manufactured by using new abrasives, bond types of exclusive formulation and with special and innovative firing cycles.

Each phase of the molemab production cycle is followed by highly specialized personnel constantly helped by the internal information network with programs dedicated to total monitoring of the transformation process of the abrasive product; also the abrasive wheels of the new Perfecta series are manufactured by following this rigid methodology and this allows guaranteeing our customers a very high quality standard, the utmost safety and reliability for the use and the absolute reproducibility over always.

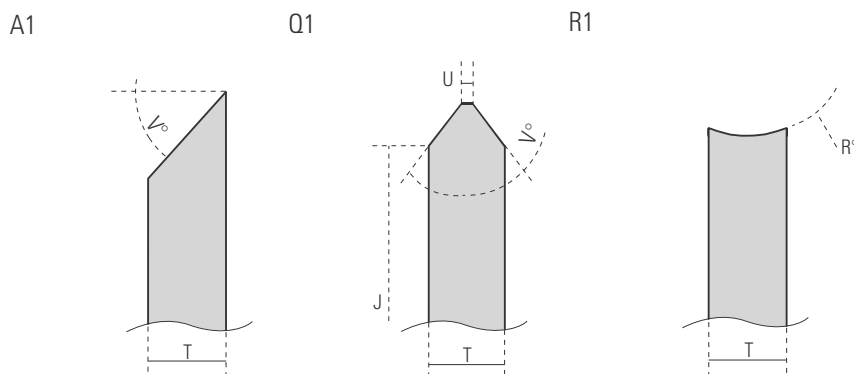
COLD CUTTING

- High respect of geometry
- Reduction of diamond dressing cycles
- Increase of wheel life
- Productivity increment
- Significantly lower wheel cost/price
- Quality consistency and wheel reproduction



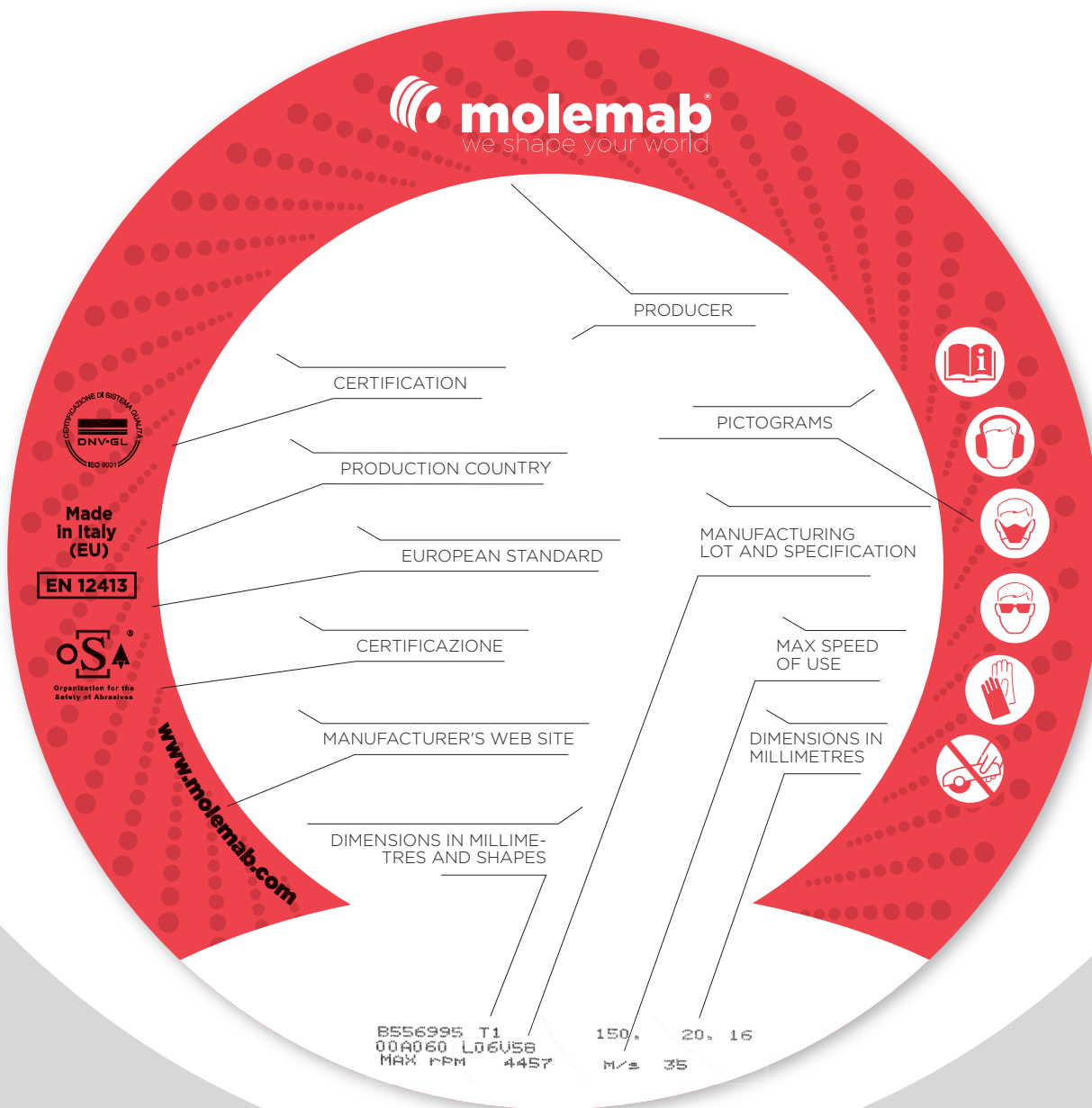


SPECIAL **molemab**



Special profiles available upon request

To modify the standard FEPA profile, add 1 after the letter (e.g.: PRQ1) and then the desired values.



Specifications

00A 060 L 06 V58 PA

Abrasive type
Conventional aluminium oxide
Silicon carbide
Microcrystalline aluminium oxide

Grit size
Very coarse
Coarse
Medium
Fine
Very fine

Hardness
Very soft /soft medium
Hard
Very Hard

Structure
natural porosity closed/open
Open induced porosity
High induced porosity
Very high induced porosity

Bond type
Vitrified for regular Aluminium Oxide
Vitrified for silicon carbide
Vitrified for microcrystalline Aluminium Oxide
Resinoid for Aluminium Oxide and Silicon Carbide
Rubber for regulating wheels

Porosity
Porous fine
Porous
Super-porous
Porous structured



Abrasive type	Typology	Grit size	Hardness	Structure	Bond type	Induced porosity
Classification molemab	Conventional aluminium oxide	Coarse	Very soft	Closed	Vitrified for aluminium oxide	Porous fine
00A	Semi-pure	14	C	3	V11	PF1
09A	White	16	D	4	V20	PP
11A	Pink	20	E	5	V27	Porous
14A	Mix of special aluminium	24	F	6	V30	P1
15A	Mix Grey and white	Medium	Soft	Medium	V34	P3
31A	Ruby	30	G	7	V85	Super porous
43A	Monocrystalline	36	H	8	V86	P4
45A	Mix of Monocrystalline	46	I	Open	V92	P5
51A	Mix of special aluminium	54	J	10	EG Line	Structured porous
75A	Semi-friable	60	K	11	VX	
91A	Mix of white and pink	Fine	Medium	12	VK	P13
	Silicon carbide	70	L	13	VG	P14
04C	Black	80	M	14	V40	
06C	Mixing	100	N	Very open	Vitrified for silicon carbide	
08C	Green	120	O	15		
	Sintered aluminium oxide	150	Hard	16	V01	
OMA	Mix special Arctic	180	P	17	V11	
SA	Ceramic Abrasive	Very fine	Q	18	V55	
AZ	Ceramic Abrasive NG	220	R		EG Line	
TA	Ceramic Abrasive	240	S		VJ	
AK	Ceramic Abrasive plus	280	T		For Perfecta aluminium oxide and silicon carbide	
		320	Very hard		BGL	
		400	U		BGT	
			V		BGW	
			W		Resinoid MVC	
			X		BGT	
			Y			
			Z			
					Rubber	
					R	

GRINDING WHEEL SPEED TABLE

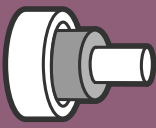
RPM AND M/SEC CORRESPONDING
PERIPHERAL SPEED FOR SOME WHEEL DIAMETERS



diameter	m/sec									
	20	25	32	35	40	45	50	63	80	100
6	64.000	80.000	102.000	112.000	128.000	143.500	160.000	201.000		
8	48.000	60.000	76.500	84.000	95.500	107.500	120.000	150.500	191.000	
10	38.200	48.000	61.200	67.000	76.500	86.000	95.500	120.500	153.000	153.000
13	29.500	36.800	47.100	51.500	58.800	66.200	73.500	92.600	118.000	147.000
16	23.900	29.850	38.200	41.800	47.800	53.750	59.700	75.200	95.500	120.000
20	19.500	23.900	30.600	33.500	38.200	43.000	47.800	60.200	76.500	95.500
25	15.300	19.100	24.500	26.800	30.600	34.500	38.200	48.200	61.200	76.500
32	11.950	14.950	19.100	20.900	23.900	27.000	30.000	37.600	48.000	60.000
40	9.550	11.950	15.300	16.750	19.100	21.500	23.900	30.100	38.200	47.800
50	7.650	9.550	12.550	13.400	15.300	17.200	19.100	24.100	30.600	38.200
63	6.100	7.600	9.750	10.650	12.150	13.650	15.200	19.100	24.300	30.350
80	4.800	6.000	7.650	8.400	9.550	10.750	12.000	15.100	19.100	23.900
100	3.850	4.800	6.150	6.700	7.650	8.600	9.550	12.100	15.300	19.100
125	3.100	3.850	4.900	5.350	6.150	6.900	7.650	9.650	12.250	15.300
150	2.550	3.200	4.100	4.500	5.100	5.750	6.400	8.050	10.200	12.750
180	2.150	2.700	3.400	3.750	4.250	4.780	5.350	6.700	8.500	10.650
200	1.950	2.400	3.100	3.350	3.850	4.300	4.800	6.050	7.650	9.550
230	1.700	2.100	2.700	2.950	3.350	3.750	4.200	5.250	6.650	8.350
250	1.550	1.950	2.450	2.700	3.100	3.450	3.850	4.850	6.150	7.650
300	1.300	1.600	2.050	2.250	2.550	2.870	3.200	4.050	5.100	6.400
350/356	1.100	1.400	1.750	1.950	2.200	2.460	2.750	3.450	4.400	5.500
400/406	960	1.200	1.550	1.700	1.950	2.150	2.400	3.050	3.850	4.800
450/457	850	1.100	1.400	1.500	1.700	1.910	1.700	2.700	3.400	4.250
500/508	765	960	1.250	1.350	1.550	1.720	1.950	2.450	3.100	3.850
600/610	640	800	1.050	1.150	1.300	1.450	1.600	2.050	2.550	3.200
660	580	725	930	1.050	1.200	1.300	1.450	1.850	2.350	2.900
750/762	510	640	820	895	1.050	1.150	1.300	1.650	2.050	2.550
800/813	480	600	765	840	960	1.075	1.200	1.550	1.950	2.400
900/914	425	535	680	750	850	955	1.100	1.350	1.700	2.150
1000/1016	385	480	615	670	765	860	960	1.250	1.550	1.950
1050/1067	365	455	585	640	730	820	910	1.150	1.500	1.850
1100/1120	350	435	560	610	695	785	870	1.100	1.400	1.750
1200/1220	320	400	510	560	640	720	800	1.050	1.300	1.600

STANDARD WORKING PARAMETERS FOR CONVENTIONAL GRINDING WHEELS



Parameters for aluminium oxide and silicon carbide grinding wheels	Operation / Material	Surface grinding	External grinding	Internal grinding
Peripheral speed of the grinding wheel (m/sec)		20 ÷ 35 m/sec	30 ÷ 50 m/sec	25 ÷ 35 m/sec
Workpiece speed m/min	Roughing or soft	10 ÷ 20 m/minute	20 ÷ 50 m/minute	30 ÷ 60 m/minute
$\frac{\text{m/min}}{3,14 \times D \text{ in m}} = \text{revolutions per min}$	Finishing or hardened	5 ÷ 10 m/minute	10 ÷ 15 m/minute	20 ÷ 40 m/minute
Ratio between peripheral wheel speed and peripheral working speed	Roughing	-	40 ÷ 60	60 ÷ 70
	Medium removal	-	60 ÷ 80	70 ÷ 80
	Finishing	-	80 ÷ 120	80 ÷ 90
Transverse movement t=grinding wheel thickness	Roughing or soft	1/4 ÷ 1/2 t	1/4 ÷ 1/2 t	1/4 ÷ 1/2 t
	Finishing or hardened	1/10 ÷ 1/5 t	1/10 ÷ 1/5 t	1/10 ÷ 1/5 t
Radial depth of cut for external and internal grinding	Roughing or soft	0,01 ÷ 0,05 mm	0,01 ÷ 0,05 mm	0,005 ÷ 0,02 mm
	Finishing or hardened	0,005 ÷ 0,02 mm	0,005 ÷ 0,02 mm	0,005 ÷ 0,01 mm
				

GRINDING WHEEL SAFETY

molemab products are manufactured in compliance with international safety standards. To guarantee compliance to European Standards, molemab is a member of FEPA, the European Abrasives Federation, and o.s.a. (Abrasive Safety Organization). The United States apply the 1988 ANSI (American National Standard Institute) Safety Code Standard B7.1 and the 1970 OSHA (Occupational Health and Safety Act) Regulations. Other European and non-European countries have their own regulations regarding safety and the use of grinding wheels. The procedures now described must be carefully followed to minimize the risk of accidents.

1. RECEPTION AND STORAGE

Handling: Grinding wheels must be handled with care, avoiding impacts and falls.

Visual check: Upon receipt, the wheels must be checked visually.

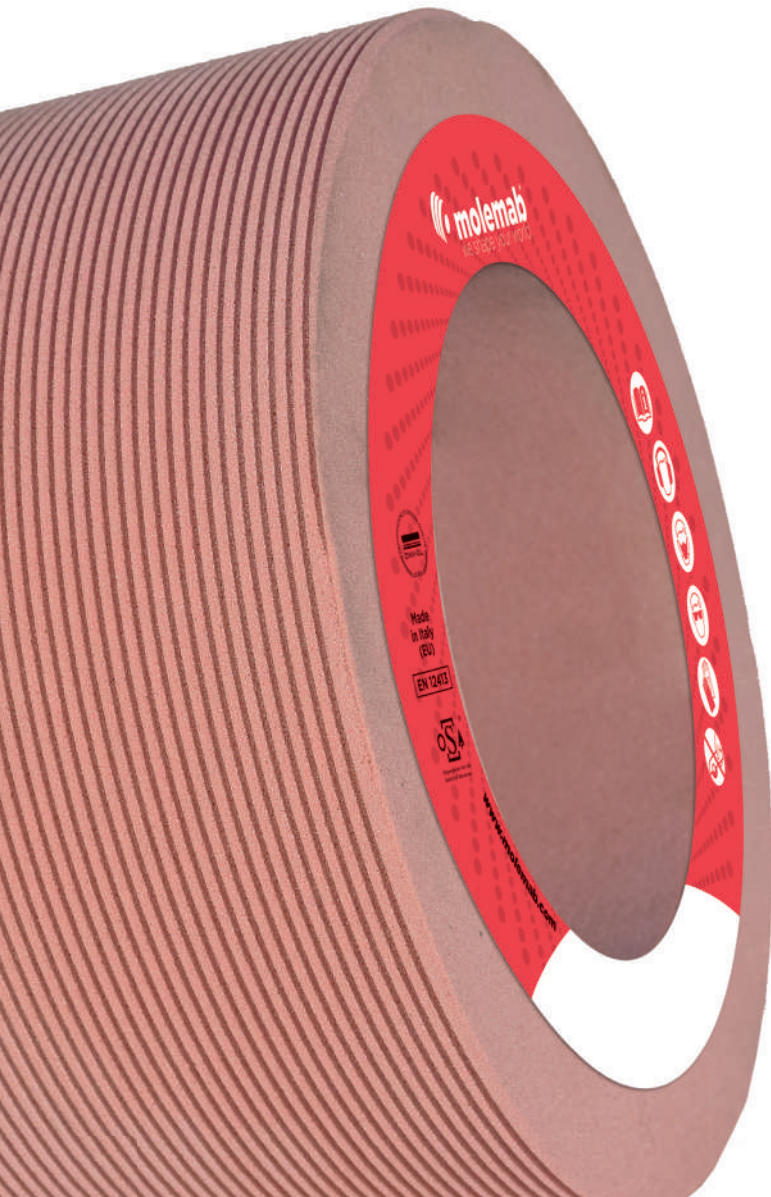
Storage: Except for thin grinding wheels, all wheels must be stored vertically on suitable shelves. The storage location must be dry and not subject to significant or sudden temperature changes.

Expiry date: Resin bonded wheels have a "Use Before Date" and must be stored for use in chronological order. Vitrified bonded wheels can be stored for an indefinite period of time.

2. BEFORE MOUNTING

Visual check: Never use chipped or cracked grinding wheels.

Sound test: A sound test must be carried out on new or partially used grinding wheels. Smaller wheels can be held on a finger or mounted on the spindle vertically, heavier wheels must be placed standing vertically on the floor.





Using a small non-metal mallet, hit the wheel on the right and at the left side of the vertical centre line. If the sound is ringing and clear, the grinding wheel is free of cracks or breakages. A dull, hollow sound indicates the presence of cracks.

Machine conditions: All machine parts subject to wear must be in good condition and regularly checked.

3. MOUNTING THE WHEEL

Paper washers: Always use paper washers that are slightly larger than the diameter of the flanges, to ensure that the clamping pressure of the flanges on the wheel is uniform.

Bore: The grinding wheel must fit the spindle correctly. Never force the grinding wheel onto the spindle and do not use grinding wheels with a bore that is too large for the spindle.

Flanges: Carefully follow the instructions regarding type of flange and installation of the grinding wheel.

Speed: Confirm the maximum working speed shown on the grinding wheel and check it against the speed of the machine. Never exceed the maximum speed specified by the grinding wheel manufacturer

Safety cover: Check that all safety covers and guards are in good condition to ensure containment of airborne fragments in case the wheel breaks.

4. OPERATION

Balancing: All wheels are systematically balanced by molemab.

The first on-machine balancing must be carried out after mounting the grinding wheel with the arrow located at the bottom (unless otherwise specified).

New generation grinding machines are often equipped with an automatic balancing system.

However, it is necessary to check the wheel balancing again when it is disassembled and reassembled after working, or when the flanges are replaced.

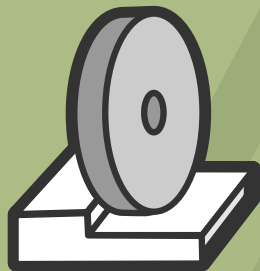
Starting the wheel: Before starting to remove material, the grinding wheel must be run at maximum speed for at least one minute. During this operation, all personnel must remain in safe areas.

Dressing and sharpening the wheel: Dressing frequency depends on the type of operation.

All the operations described above must be carried out by qualified personnel.



Surface grinding

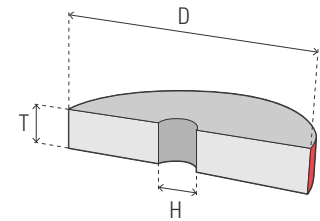




SHAPES AND DIMENSIONS

Shape	D	T	H
T1	150	20	31,75 - 32
	180	6 - 8 - 10 - 13 - 16 - 20	31,75 - 32
	200	6 - 8 - 10 - 13 - 16 - 20	31,75 - 32
	225	20	50,8
	250	25	76,2
	300	25 - 32 - 40	76,2 - 127
	350	32 - 40 - 50	127
	400	40 - 50 - 60 - 76	127
	450	50 - 63 - 76	203,2
	508	50 - 63 - 80	203,2

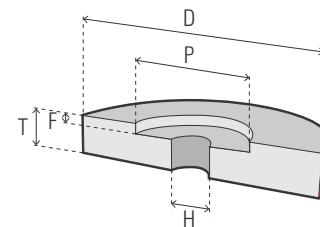
SHAPE T1



SHAPES AND DIMENSIONS

Shape	D	T	H	P	F
T5	180	20	31,75	100	6
	200	25	31,75	110	10
	225	25	50,8	110	10
	250	32	76,2	125	12
	300	40	127	190	13
	300	50	127	190	13
	350	50	127	210	10
	400	50	127	210	10

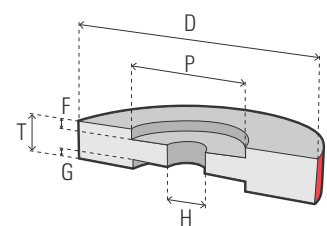
SHAPE T5



SHAPES AND DIMENSIONS

Shape	D	T	H	P	F	G
T7	300	50	76,2	155	10	10
	300	50	127	155	10	10
	350	50	127	210	10	10
	400	60	127	210	10	10
	400	76	127	210	20	10
	450	80	203,2	290	13	13
	508	100	203,2	300	15	15
	600	100	304,8	390	15	15

SHAPE T7



Other sizes available upon request



MILD, ANNEALED QUENCHED AND TEMPERED STEEL < 35 HRC									
T1-T5	thickness 25 to 40		T1-T5-T7	thickness 50 to 90		T1-T5-T7	thickness 100 to 150		application
300	11A 036 I 10 V86	🔴							SURFACE
	11A 046 I 10 V86	🔴							SURFACE
350	11A 036 I 10 V86	🔴	350	11A 036 I 10 V86	🔴	SURFACE			
	11A 046 I 10 V86	🔴		11A 046 I 10 V86	🔴	SURFACE			
400	11A 036 I 10 V86	🔴	400	11A 036 I 10 V86	🔴	400	11A 036 H 10 V86	🔴	SURFACE
	11A 046 I 10 V86	🔴		11A 046 FG12 VX P4	🔴		11A 046 F12 VX P4	🔴	SURFACE
	11A 046 G12 VXP4	🔴		09A 046 FG12 V34 P3	🟢		09A 046 FG12 V34 P3	🟢	SURFACE
		09A 054 FG12 VG P13		🟡	09A 054 FG12 VG P13		🟡	SURFACE	
			450	11A 036 I 10 V86	🔴	SURFACE			
				11A 046 FG12 VX P4	🔴	SURFACE			
				09A 046 FG12 V34 P3	🟢	450	09A 046 FG12 V34 P3	🟢	SURFACE
				09A 054 FG12 VG P13	🟡		09A 054 FG12 VG P13	🟡	SURFACE
			500	11A 036 I 10 V86	🔴	SURFACE			
				11A 046 FG12 VX P4	🔴	SURFACE			
				09A 046 FG12 V34 P3	🟢	500	09A 046 FG12 V34 P3	🟢	SURFACE
				09A 054 FG12 VG P13	🟡		09A 054 FG12 VG P13	🟡	SURFACE
						610	11A 036 I 10 V86	🔴	SURFACE
							09A 046 FG12 V34 P3	🟢	SURFACE
							09A 054 FG12 VG P13	🟡	SURFACE
QUENCHED AND TEMPERED (HIGH RESISTANCE) AND HARDENED STEEL < 54 HRC									
T1-T5	thickness 25 to 40		T1-T5-T7	thickness 50 to 90		T1-T5-T7	thickness 100 to 150		application
300	09A 046 FG12 V34 P3	🟢							SURFACE
	09A 054 FG12 VG P13	🟡							SURFACE
350	09A 046 FG12 V34 P3	🟢	350	09A 046 FG12 V34 P3	🟢	SURFACE			
	09A 054 FG12 VG P13	🟡		09A 054 FG12 VG P13	🟡	SURFACE			
	45A 054 FG12 VG P13	🟡		45A 054 FG12 VG P13	🟡	SURFACE			
	OMA 054/60 FG11 VG5 P13	🟡		OMA 054/60 FG11 VG5 P13	🟡	SURFACE			
400	09A 046 FG12 V34 P3	🟢	400	09A 046 FG12 V34 P3	🟢	400	09A 046 FG12 V34 P3	🟢	SURFACE
	09A 054 FG12 VG P13	🟡		09A 054 FG12 VG P13	🟡		09A 054 F12 VG P13	🟡	SURFACE
	45A 054 FG12 VG P13	🟡		45A 054 FG12 VG P13	🟡		45A 054 F12 VG P13	🟡	SURFACE
	OMA 054/60 FG11 VG5 P13	🟡		OMA 054/60 FG11 VG5 P13	🟡		OMA 054/60 F11 VG5 P13	🟡	SURFACE
			450	09A 046 FG12 V34 P3	🟢	450	09A 046 FG12 V34 P3	🟢	SURFACE
				09A 054 FG12 VG P13	🟡		09A 054 F12 VG P13	🟡	SURFACE
				45A 054 FG12 VG P13	🟡		45A 054 F12 VG P13	🟡	SURFACE
				OMA 054/60 FG11 VG5 P13	🟡		OMA 054/60 F11 VG5 P13	🟡	SURFACE

The coloured dot shows the actual colour of the wheel = ● (yellow wheel)



QUENCHED AND TEMPERED (HIGH RESISTANCE) AND HARDENED STEEL < 54 HRC						
T1-T5	thickness 25 to 40	T1-T5-T7	thickness 50 to 90	T1-T5-T7	thickness 100 to 150	application
		500	09A 046 FG12 V34 P3	500	09A 046 FG12 V34 P3	IN PIANO
			09A 054 FG12 VG P13		09A 054 F12 VG P13	IN PIANO
			45A 054 F12 VG P13		45A 054 F12 VG P13	IN PIANO
			0MA 054/60 FG11 VG5 P13		0MA 054/60 F11 VG5 P13	IN PIANO
		610		610	09A 046 FG12 V34 P3	IN PIANO
					09A 054 F12 VG P13	IN PIANO
			45A 054 F12 VG P13		45A 054 F12 VG P13	IN PIANO
					0MA 054/60 F11 VG5 P13	IN PIANO
HARDENED STEELS AND SINTERED METAL PARTS < 58 HRC						
T1-T5	thickness 25 to 40	T1-T5-T7	thickness 50 to 90	T1-T5-T7	thickness 100 to 150	application
400	0MA 54/60 FG11 VG5 P13	400	0MA 54/60 FG11 VG5 P13	400	0MA 054/60 F11 VG5 P13	IN PIANO
	43A 054 FG12 VG4 P13		43A 054 F12 VG4 P13		43A 054 F12 VG4 P13	IN PIANO
	1GA 054 H12 V86 P1		1GA 054 H12 V86 P1		1GA 054 H12 V86 P1	IN PIANO
		450	0MA 054/60 FG11 VG5 P13	450	0MA 054/60 F11 VG5 P13	IN PIANO
			43A 054 F12 VG4 P13		43A 054 F12 VG4 P13	IN PIANO
			1GA 054 H12 V86 P1		1GA 054 H12 V86 P1	IN PIANO
		500	0MA 054/60 FG11 VG5 P13	500	0MA 054/60 F11 VG5 P13	IN PIANO
			43A 054 F12 VG4 P13		43A 054 F12 VG4 P13	IN PIANO
			1GA 054 H12 V86 P1		1GA 054 H12 V86 P1	IN PIANO
				610	0MA 054/60 F11 VG5 P13	IN PIANO
					43A 054 F12 VG4 P13	IN PIANO
					1GA 054 H12 V86 P1	IN PIANO
HARDENED STEELS AND SINTERED METAL PARTS < 62 HRC						
T1-T5	thickness 25 to 40	T1-T5-T7	thickness 50 to 90	T1-T5-T7	thickness 100 to 150	application
400	1TA 046 FG12 VG4 P3	400	1TA 046 F12 VG4 P3	400	1TA 046 F12 VG4 P3	IN PIANO
	2SA 054 F12 VG4 P13		2SA 054 EF12 VG4 P13		2SA 054 EF12 VG4 P13	IN PIANO
	2AK 054 F12 VK4 P13		2AK 054 F12 VK4 P13			IN PIANO
		450	1TA 046 F12 VG4 P3	450	1TA 046 F12 VG4 P3	IN PIANO
			2SA 054 EF12 VG4 P13		2SA 054 EF12 VG4 P13	IN PIANO
			2AK 054 F12 VK4 P13			IN PIANO
		500	1TA 046 F12 VG4 P3	500	1TA 046 F12 VG4 P3	IN PIANO
			3SA 054 EF12 VG4 P13		3SA 054 EF12 VG4 P13	IN PIANO
			2AK 054 F12 VK4 P13			IN PIANO
				610	1TA 046 F12 VG4 P3	IN PIANO
					3SA 054 EF12 VG4 P13	IN PIANO



FERRITIC STAINLESS STEEL, SERIES 400 AND INCONEL						
T1-T5	thickness 25 to 40	T1-T5-T7	thickness 50 to 90	T1-T5-T7	thickness 100 to 150	application
300	09A 054 FG12 VK P13 ◐					SURFACE
350	09A 054 FG12 VK P13 ◐					SURFACE
400	09A 054 FG12 VK P13 ◐	400	09A 054 F12 VK P13 ◐	400		SURFACE
	9A 060 EF16 VK2 P13 ●					CREEP-FEED
	09A 070/2 H10 V86 P1 ◐		09A 070/2 H10 V86 P1 ◐		09A 080/1G H12 V40 P1 ●	CREEP-FEED
	09A 100 I14 VG PF1 ◐		09A 100 I14 VG PF1 ◐			CREEP-FEED
		450	09A 054 F12 VK P13 ◐	450	09A 054 F12 VK P13 ◐	SURFACE
		500	09A 054 F12 VK P13 ◐	500	09A 054 F12 VK P13 ◐	SURFACE
HARDENED STAINLESS STEEL						
T1-T5	thickness 30 to 50	T1-T5-T7	thickness 60 to 80	T1-T5-T7	thickness 100 to 150	application
350	08C 046 G12 VJ P3 ●					SURFACE
400	08C 046 G12 VJ P3 ●	400	08C 046 G12 VJ P3 ●			SURFACE
450	08C 046 G12 VJ P3 ●	450	08C 046 G12 VJ P3 ●			SURFACE
500	08C 046 G12 VJ P3 ●	500	08C 046 G12 VJ P3 ●	500	08C 046 F12 VJ P3 ●	SURFACE
AUSTENITIC STAINLESS STEEL SERIES 300 AND NIMONIC						
T1-T5	thickness 30 to 50	T1-T5-T7	thickness 60 to 80	T1-T5-T7	thickness 100 to 150	application
350	45A 060 E14 VK P13 ◐					SURFACE
400	45A 060 E14 VK P13 ◐	400	45A 060 DE14 VK P13 ◐			SURFACE
450	45A 060 E14 VK P13 ◐	450	45A 060 DE14 VK P13 ◐			SURFACE
500	45A 060 E14 VK P13 ◐	500	45A 060 DE14 VK P13 ◐	500	45A 060 DE14 VK P13 ◐	SURFACE
				610	45A 060 DE14 VK P13 ◐	SURFACE



Horizontal spindle surface grinding wheels



FERRITIC, NODULAR PEARLITIC AND HARDENED CAST IRON						
T1-T5	thickness 30 to 50	T1-T5-T7	thickness 60 to 80	T1-T5-T7	thickness 100 to 150	application
400	09A 046 FG12 V34 P3 	400	09A 046 FG12 V34 P3 	400	09A 046 FG12 V34 P3 	SURFACE
	45A 054 FG12 VG P4 		45A 054 FG12 VG P4 		45A 054 F12 VG P4 	SURFACE
			91A 054 FG12 VG P3 		91A 054 F12 VG P3 	SURFACE
		500	09A 046 FG12 V34 P3 	500	09A 046 FG12 V34 P3 	SURFACE
			45A 054 FG12 VG P4 		45A 054 F12 VG P4 	SURFACE
			91A 054 FG12 VG P3 		91A 054 F12 VG P3 	SURFACE
		610	91A 054 FG12 VG P3 	610	91A 054 F12 VG P3 	SURFACE
GREY CAST IRON						
T1-T5	thickness 30 to 50	T1-T5-T7	thickness 60 to 80	T1-T5-T7	thickness 100 to 150	application
400	08C 060 H10 V11 P1 	400	08C 060 H10 V11 P1 	400	08C 060 G10 V11 P1 	SURFACE
	08C 060 G10 VJ P3 		08C 060 G10 VJ P3 		08C 060 FG10 VJ P3 	SURFACE
		500	08C 060 H10 V11 P1 	500	08C 060 G10 V11 P1 	SURFACE
			08C 060 G10 VJ P3 		08C 060 FG10 VJ P3 	SURFACE
NON FERROUS METALS, ALUMINIUM, BRONZE, COPPER AND NON FERROUS ALLOYS						
T1-T5	thickness 30 to 50	T1-T5-T7	thickness 60 to 80	T1-T5-T7	thickness 100 to 150	application
300	08C 060 H10 V11 P1 					SURFACE
	08C 060 G10 VJ P3 					SURFACE
350	08C 060 H10 V11 P 					SURFACE
	08C 060 G10 VJ P3 					SURFACE
400	08C 060 H10 V11 P1 	400	08C 060 H10 V11 P1 			SURFACE
	08C 060 G10 VJ P3 		08C 060 G10 VJ P3 			SURFACE
		450	08C 060 H10 V11 P1 	450	08C 060 G10 V11 P1 	SURFACE
			08C 060 G10 VJ P3 		08C 060 FG10 VJ P3 	SURFACE

EXAMPLE OF ORDER

SHAPE	DIMENSIONS (mm)	NOTE	SPEED	SPECIFICATION	The coloured dot shows the actual colour of the wheel
T5	500x80x203,2	P=280 F=15	35 m/sec	09A 046 FG12 V34 P3 ●	



SHAPES AND DIMENSIONS			
Shape	D	T	H
T2	175	80	135
	200	100	160
	250	100	200

MILD, QUENCHED AND TEMPERED AND HARDENED STEEL ≤ 52 HRC				
T2	T = 80	T2	T = 100	application
175	09A 036 G08 V86	○		SURFACE
	09A 046 G08 V86	○		SURFACE
200			09A 036 G08 V86	○ SURFACE
			09A 046 G08 V86	○ SURFACE
250			09A 036 G08 V86	○ SURFACE
			09A 046 G08 V86	○ SURFACE

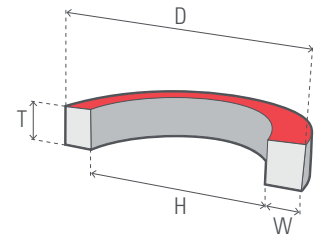
HARDENED STEELS AND SINTERED METAL PARTS ≥ 58 HRC				
T2	T = 80	T2	T = 100	application
175	09A 036 F12 V34P3	●		SURFACE
	09A 046 F12 V34P3	●		SURFACE
200			09A 036 F12 V34P3	● SURFACE
			09A 046 F12 V34P3	● SURFACE
250			09A 036 F12 V34P3	● SURFACE
			09A 046 F12 V34P3	● SURFACE

SHAPES AND DIMENSIONS					
Shape	D	T	H	W	E
T6	178	78	78	19	19
	200	80	78	22	22

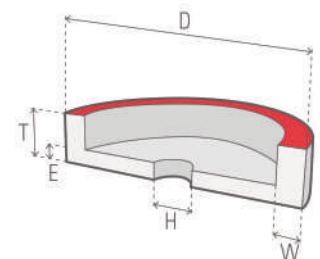
MILD, QUENCHED AND TEMPERED AND HARDENED STEEL ≤ 58 HRC				
T6	T = 78	T6	T = 80	application
178	09A 30 H08 V86	○		SURFACE
	09A 36 H08 V86	○		SURFACE
200			09A 30 H08 V20	○ SURFACE
			09A 36 H08 V20	○ SURFACE

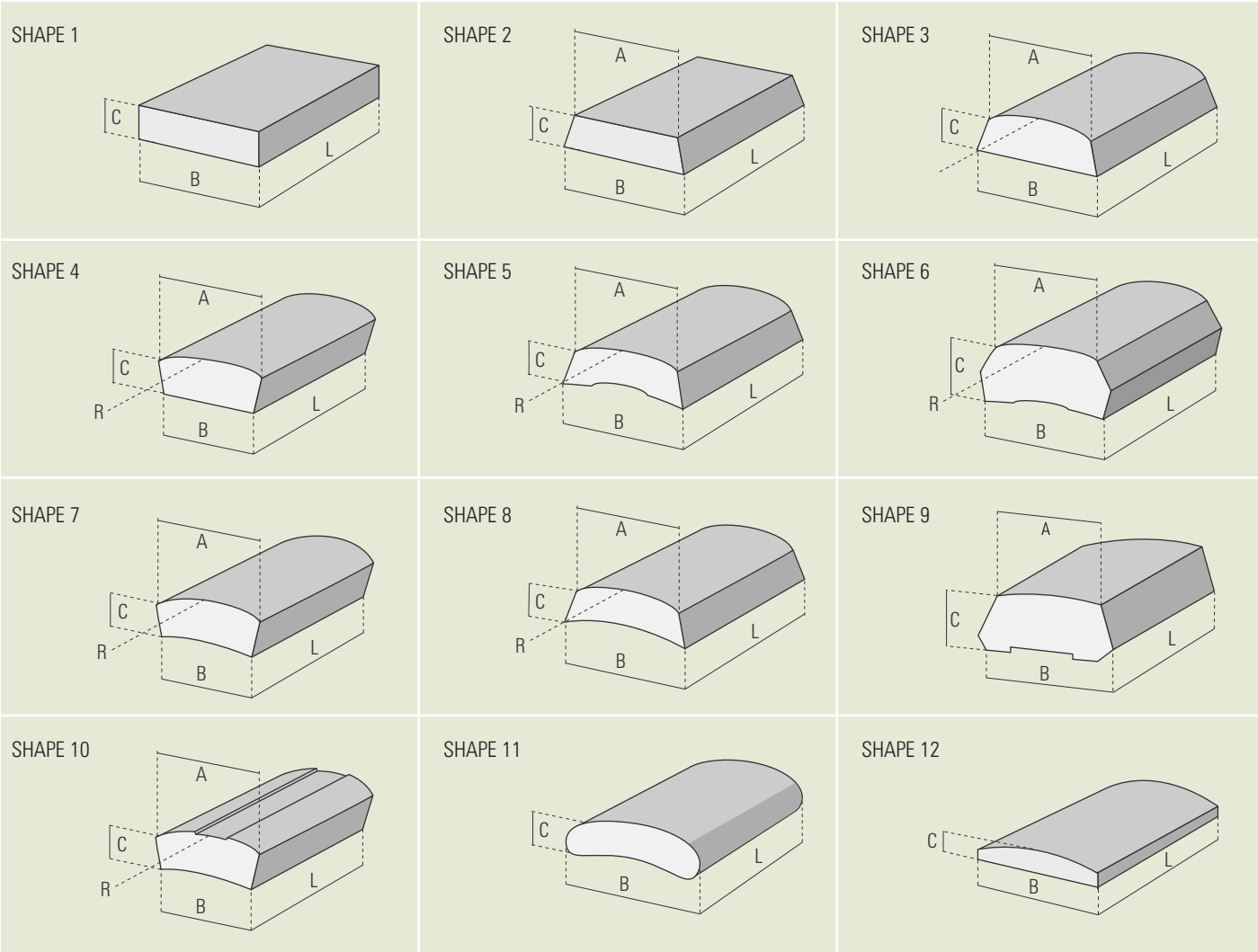
HARDENED STEELS AND SINTERED METAL PARTS ≥ 58 HRC				
T6	T = 78	T6	T = 80	application
178	09A 36 G10 V34P	●		SURFACE
200			09A 36 G10 V34P	● SURFACE

SHAPE T2

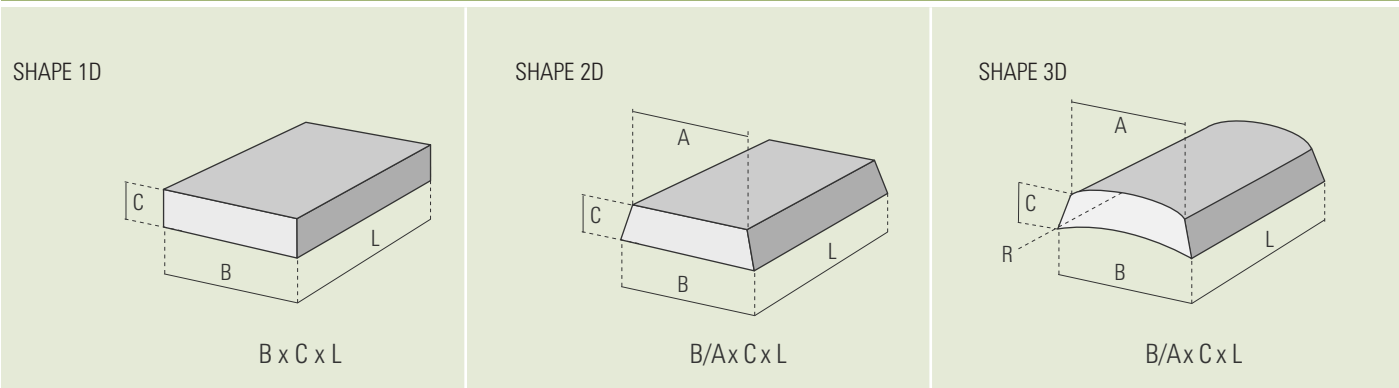


SHAPE T6





HOW TO IDENTIFY SIZES



Surface grinding segments

The following tables list the most common abrasive segment shapes and sizes. Other specifications and shapes are available upon request



SPECIFICATIONS					
MATERIAL	TYPE	CONTINUOUS CUTTING		DISCONTINUOUS CUTTING	
		SPECIFICATION		SPECIFICATION	
Steel	Mild steel	09A036H08V86		11A024I08V86	
	Low/medium hardness steel			11A030H09V86	
	Hardened steel	09A036G10V20P		11A036G08V86	
	Alloy steel	09A030G10V92			
	Hardness ≤ 58 HRC				
High alloy steels	Tools steel	09A036F12V34P		3SA046F12V114P	
	HSS Hardness ≥ 58 HRC			3AZ046F10VG4P13	
Stainless steel	Unhardened stainless steel	09A024H09V86		11A024I08V86	
	Hardened and alloyed steel	09A036G09V86		11A036G09V86	
Cast iron	Steel cast iron, Grey cast iron	09A024H09V86		11A024I08V86	
	Engine head cast iron	06C036I07V11			
	Annealed and ductile iron				
Cemented carbide	Tungstene carbide	08C060G08V01			
Non ferrous metals	Aluminium, bronze, copper, non-ferrous alloys	08C046G05V01			
		08C046H05V11			



EXAMPLE OF ORDER

SHAPE	DIMENSIONS (mm)	SPECIFICATION		The coloured dot shows the actual colour of the grinding wheel
8	50/45 x 16 x 90	09A 036 G10 V34P	●	

The background of the page is a dark, monochromatic photograph of a grinding wheel. The wheel is shown in a close-up, angled view, highlighting its curved surface and the fine texture of the grinding grains. The lighting creates a gradient from dark grey to a lighter, almost white highlight on the right side of the wheel's rim.

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THROUGH-FEED EXTERNAL
GRINDING WHEELS SHAPES
T1 - T5 - T7 - T20 - T21 - T23
T25 - T26

41

SHELLAC SUPERFINISHING
AND LAPPING WHEELS

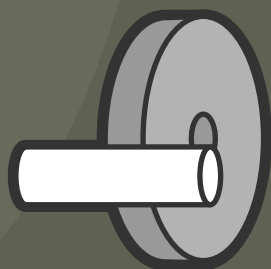
42

PLUNGE GRINDING WHEELS
WITH STANDARD PROFILE

44

CAM AND CRANKSHAFT
GRINDING WHEELS
SHAPES T21 - T26 - T39A

External grinding



Cylindrical round grinding wheels

Cylindrical grinding wheels are available with diameters ranging from 300 to 1200 mm and bores from 76,2 to 508 mm



SHAPES AND DIMENSIONS		
Shape	D	H
T1	300	76,2 - 127
	350	127
	400	127 - 203,2
	450	127 - 203,2
	508	203,2 - 304,8
	610	203,2 - 304,8
	760	304,8
	800	304,8
	915	304,8 - 508
	1060	304,8
	1200	

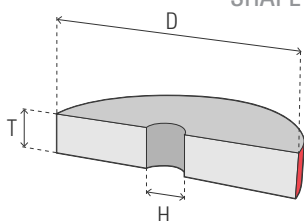
SHAPES AND DIMENSIONS					
Shape	D	H	P/K	F	N
T1	300	127	210		
	350	127	210		
	400	203,2	290		
	450	203,2	290		
	508	304,8	390		
	610	203,2	290		
	760	304,8	390		
	800	304,8	410		
	915	304,8	410		
	1060				
	1200				

RECESS AND TAPER SIZE UPON REQUEST

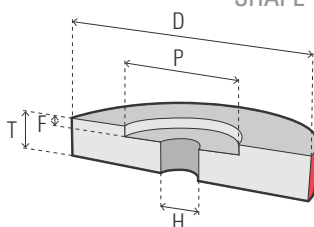
SHAPES AND DIMENSIONS						
Shape	D	H	P/K	F	G	N
T1	300	127	210			
	350	127	210			
	400	203,2	290			
	450	203,2	290			
	508	304,8	390			
	610	203,2	290			
	760	304,8	390			
	800	304,8	410			
	915	304,8	410			
	1060					
	1200					

RECESS AND TAPER SIZE UPON REQUEST

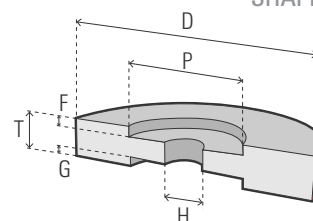
SHAPE T1



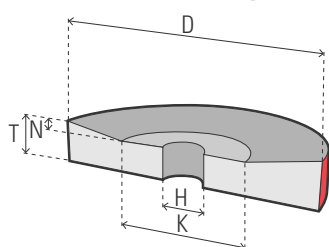
SHAPE T5



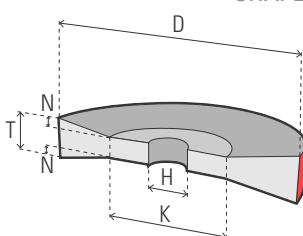
SHAPE T7



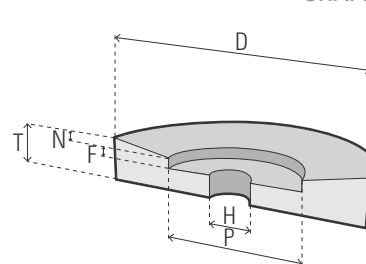
SHAPE T20



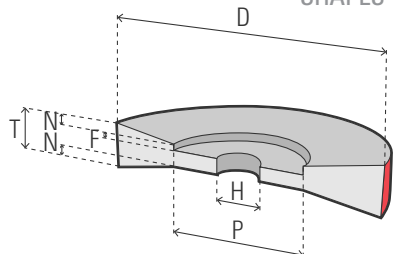
SHAPE T21



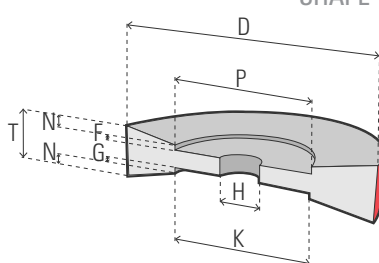
SHAPE T23



SHAPES T25



SHAPE T26





MILD, ANNEALED QUENCHED AND TEMPERED STEEL < 35 HRC										
T1-T5	thickness 25 to 45		T1-T5	thickness 50 to 80		T1-T5-T7	thickness from 85 to 12		application	
350	15A 060 K08 V92	🔴							THROUGH-FEED	
	14A 060 K08 V85	🟤							THROUGH-FEED	
400	15A 060 K08 V92	🔴	400	15A 060 K08 V92	🔴					THROUGH-FEED
	14A 060 K08 V85	🟤		14A 060 K08 V85	🟤					THROUGH-FEED
	11A 060 K08 VK	🔴		11A 060 K08 VK	🔴					THROUGH-FEED
	11A 070 J09 VK PP	🔴		11A 070 J09 VK PP	🔴					THROUGH-FEED
450	15A 060 K08 V92	🔴	450	15A 060 K08 V92	🔴					THROUGH-FEED
	14A 060 K08 V85	🟤		14A 060 K08 V85	🟤					THROUGH-FEED
	11A 060 K08 VK	🔴		11A 060 K08 VK	🔴					THROUGH-FEED
	11A 070 J09 VK PP	🔴		11A 070 J09 VK PP	🔴					THROUGH-FEED
500	15A 060 K08 V92	🔴	500	15A 060 K08 V92	🔴	500	15A 060 J08 V92	🔴	THROUGH-FEED	
	14A 060 K08 V85	🟤		14A 060 K08 V85	🟤		14A 060 J08 V85	🟤	THROUGH-FEED	
	11A 060 K08 VK	🔴		11A 060 K08 VK	🔴		11A 060 JK08 VK	🔴	THROUGH-FEED	
	11A 070 J09 VK PP	🔴		11A 070 J09 VK PP	🔴		11A 070 IJ9 VK PP	🔴	THROUGH-FEED	
610	14A 060 K08 V85	🟤	610	14A 060 K08 V85	🟤	610	14A 060 J08 V85	🟤	THROUGH-FEED	
	11A 060 K08 VK	🔴		11A 060 K08 VK	🔴		11A 060 JK08 VK	🔴	THROUGH-FEED	
	11A 070 J09 VK PP	🔴		11A 070 J09 VK PP	🔴		11A 070 IJ9 VK PP	🔴	THROUGH-FEED	

QUENCHED AND TEMPERED (HIGH RESISTANCE) AND HARDENED STEEL < 56 HRC									
T1-T5	thickness 25 to 45		T1-T5	thickness 50 to 80		T1-T5-T7	thickness 50 to 80		application
350	09A 060 K07 V86	🕒							THROUGH-FEED
	09A 080 JK8 VK	🕒							THROUGH-FEED
400	09A 060 K07 V86	🕒	400	09A 060 J07 V86	🕒				THROUGH-FEED
	09A 060 J08 VK	🕒		09A 060 J08 VK	🕒				THROUGH-FEED
	09A 080 J08 VK PF	🕒		09A 080 J08 VK PF	🕒				THROUGH-FEED
	09A 120 JK8 VK7 PF	🟢		09A 120 JK8 VK7 PF	🟢				THROUGH-FEED
	09A 120 I14 VG PF1	🕒		09A 120 HI14 VG PF1	🕒				THROUGH-FEED
	09A 180 I14 VG PF1	🕒		09A 180 I14 VG PF1	🕒				THROUGH-FEED
	45A 070 I10 VK PP	🕒		45A 070 I10 VK PP	🕒				THROUGH-FEED
	45A 080 J08 VK4 PF	🟡		45A 080 J08 VK4 PF	🟡				THROUGH-FEED
450	09A 060 K07 V86	🕒	450	09A 060 J07 V86	🕒				THROUGH-FEED
	09A 060 J08 VK	🕒		09A 060 J08 VK	🕒				THROUGH-FEED
	09A 080 J08 VK PF	🕒		09A 080 J08 VK PF	🕒				THROUGH-FEED
	09A 120 JK8 VK7 PF	🟢		09A 120 JK8 VK7 PF	🟢				THROUGH-FEED
	09A 120 I14 VG PF1	🕒		09A 120 HI14 VG PF1	🕒				THROUGH-FEED
	09A 180 I14 VG PF1	🕒		09A 180 I14 VG PF1	🕒				THROUGH-FEED
	45A 070 I10 VK PP	🕒		45A 070 I10 VK PP	🕒				THROUGH-FEED
	45A 080 J08 VK4 PF	🟡		45A 080 J08 VK4 PF	🟡				THROUGH-FEED

The coloured dot shows the actual colour of the wheel = ● (pink wheel)



QUENCHED AND TEMPERED (HIGH RESISTANCE) AND HARDENED STEEL < 56 HRC									
T1-T5	thickness 25 to 45		T1-T5	thickness 50 to 80		T1-T5-T7	thickness 85 to 120		application
500	09A 060 K07 V86	🕒	500	09A 060 J07 V86	🕒	500	09A 060 J07 V86	🕒	THROUGH-FEED
	09A 060 J08 VK	🕒		09A 060 J08 VK	🕒		09A 060 J08 VK	🕒	THROUGH-FEED
	09A 080 J08 VK PF	🕒		09A 080 J08 VK PF	🕒		09A 080 J08 VK PF	🕒	THROUGH-FEED
	09A 120 JK8 VK7 PF	🟢		09A 120 JK8 VK7 PF	🟢				THROUGH-FEED
	09A 120 I14 VG PF1	🕒		09A 120 HI14 VG PF1	🕒				THROUGH-FEED
	09A 180 I14 VG PF1	🕒		09A 180 I14 VG PF1	🕒				THROUGH-FEED
	45A 070 I10 VK PP	🕒		45A 070 I10 VK PP	🕒		45A 070 I10 VK PP	🕒	THROUGH-FEED
	45A 080 J08 VK4 PF	🟡		45A 080 J08 VK4 PF	🟡		45A 080 J08 VK4 PF	🟡	THROUGH-FEED
		610	09A 060 J07 V86	🕒	610	09A 060 J07 V86	🕒	THROUGH-FEED	
			09A 060 J08 VK	🕒		09A 060 J08 VK	🕒	THROUGH-FEED	
			09A 080 J08 VK PF	🕒		09A 080 J08 VK PF	🕒	THROUGH-FEED	
			45A 070 I10 VK PP	🕒		45A 070 I10 VK PP	🕒	THROUGH-FEED	
			45A 080 J08 VK4 PF	🟡		45A 080 J08 VK4 PF	🟡	THROUGH-FEED	

HARDENED STEELS AND SINTERED METAL PARTS < 60 HRC									
T1-T5	thickness 25 to 45		T1-T5	thickness 50 to 80		T1-T5-T7	thickness 85 to 120	application	
400	43A 070 J08 VK	○	400	43A 070 J08 VK	○			THROUGH-FEED	
	43A 080 I08 VK PF	○		43A 080 I08 VK PF	○			THROUGH-FEED	
	53A 100/2 J09 VK7	●		53A 100/2 J09 VK7	●			THROUGH-FEED	
	53A 100 JK8 VK4	⦿		53A 100 J08 VK	⦿			THROUGH-FEED	
500	43A 070 J08 VK	○	500	43A 070 J08 VK	○	500	43A 070 J08 VK	○	THROUGH-FEED
	43A 080 I08 VK PF	○		43A 080 I08 VK PF	○		43A 080 I08 VK PF	○	THROUGH-FEED
	53A 100/2 J09 VK7	●		53A 100/2 J09 VK7	●		53A 100/2 J09 VK7	●	THROUGH-FEED
	53A 100 JK8 VK4	⦿		53A 100 J08 VK4	⦿		53A 100 J08 VK4	⦿	THROUGH-FEED
			610	43A 070 J08 VK	○	610	43A 070 J08 VK	○	THROUGH-FEED
				43A 080 I08 VK PF	⦿		43A 080 I08 VK PF	⦿	THROUGH-FEED
				53A 100/2 J09 VK7	⦿		53A 100/2 J09 VK7	⦿	THROUGH-FEED



HARDENED STEELS AND SINTERED METAL PARTS < 68 HRC									
T1-T5	thickness 25 to 45		T1-T5	thickness 50 to 80		T1-T5-T7	thickness 85 to 120		application
400	1SA 070/1 IJ8 VK4	🔵	400	1SA 070/1 IJ8 VK4	🔵				THROUGH-FEED
	2AK 80 J08 VK4 PM0	🔵		2AK 80 J08 VK4 PM0	🔵				THROUGH-FEED
	3SA 070/1 J08 VK4	🔵		3SA 070/1 J08 VK4	🔵				THROUGH-FEED
	3SA 100 K09 VK4 PP	🔵		3SA 100 IJ9 VK4 PP	🔵				THROUGH-FEED
	3HA 080 H09 VX	🔵		3HA 080 H09 VX	🔵				THROUGH-FEED
450	1SA 070/1 IJ8 VK4	🔵	450	1SA 070/1 IJ8 VK4	🔵				THROUGH-FEED
	2AK 80 J08 VK4 PM0	🔵		2AK 80 J08 VK4 PM0	🔵				THROUGH-FEED
	3SA 070/1 J08 VK4	🔵		3SA 070/1 J08 VK4	🔵				THROUGH-FEED
	3SA 100 K09 VK4 PP	🔵		3SA 100 IJ9 VK4 PP	🔵				THROUGH-FEED
	3HA 080 H09 VX	🔵		3HA 080 H09 VX	🔵				THROUGH-FEED
500	1SA 070/1 IJ8 VK4	🔵	500	1SA 070/1 IJ8 VK4	🔵	500	1SA 070/1 I08 VK4	🔵	THROUGH-FEED
	2AK 80 J08 VK4 PM0	🔵		2AK 80 J08 VK4 PM0	🔵		2AK 80 J08 VK4 PM0	🔵	THROUGH-FEED
	3SA 070/1 J08 VK4	🔵		3SA 070/1 J08 VK4	🔵		3SA 070/1 IJ08 VK4	🔵	THROUGH-FEED
	3HA 080 H09 VX	🔵		3HA 080 H09 VX	🔵				THROUGH-FEED
			610	1SA 070/1 IJ8 VK4	🔵	610	1SA 070/1 IJ8 VK4	🔵	THROUGH-FEED
				2AK 80 J08 VK4 PM0	🔵		2AK 80 J08 VK4 PM0	🔵	THROUGH-FEED
				3SA 070/1 J08 VK4	🔵		3SA 070/1 IJ08 VK4	🔵	THROUGH-FEED
				3SA 100 J09 VK4 PP	🔵		3SA 100 J09 VK4 PP	🔵	THROUGH-FEED
				3HA 080 H09 VX	🔵				THROUGH-FEED

CHROME PLATED STEEL									
T1-T5	thickness 25 to 45		T1-T5	thickness 50 to 80		T1-T5-T7	thickness 85 to 120		application
350	09A 070 JK7 V84	●	350	09A 070 J08 V84	●				THROUGH-FEED
	09A 070 J08 VK	●		09A 070 J08 VK	●				THROUGH-FEED
400	09A 070 JK7 V84	●	400	09A 070 J08 V84	●				THROUGH-FEED
	09A 070 J08 VK	●		09A 070 J08 VK	●				THROUGH-FEED
450	09A 070 JK7 V84	●	450	09A 070 J08 V84	●	450	09A 070 J08 V84	●	THROUGH-FEED
	09A 070 J08 VK	●		09A 070 J08 VK	●		09A 070 J08 VK	●	THROUGH-FEED
500	09A 070 JK7 V84	●	500	09A 070 J08 V84	●	500	09A 070 J08 V84	●	THROUGH-FEED
	09A 070 J08 VK	●		09A 070 J08 VK	●		09A 070 J08 VK	●	THROUGH-FEED
			610	09A 070 J08 V84	●	610	09A 070 J08 V84	●	THROUGH-FEED
				09A 070 J08 VK	●		09A 070 J08 VK	●	THROUGH-FEED





FERRITIC STAINLESS STEEL, SERIES 400 AND INCONEL						
T1-T5	thickness 25 to 45	T1-T5	thickness 50 to 80	T1-T5-T7	thickness 85 to 120	application
350	09A 060 J08 V86	350	09A 060 J08 V86			THROUGH-FEED
	09A 070 JK8 VK		09A 070 JK8 VK			THROUGH-FEED
400	09A 060 J08 V86	400	09A 060 J08 V86			THROUGH-FEED
	09A 070 JK8 VK		09A 070 JK8 VK			THROUGH-FEED
450	09A 060 J08 V86	450	09A 060 J08 V86	450	09A 060 I08 V86	THROUGH-FEED
	09A 070 JK8 VK		09A 070 JK8 VK		09A 070 J08 VK	THROUGH-FEED
500	09A 060 J08 V86	500	09A 060 J08 V86	500	09A 060 I08 V86	THROUGH-FEED
	09A 070 JK8 VK		09A 070 JK8 VK		09A 070 J08 VK	THROUGH-FEED
		610	09A 060 J08 V86	610	09A 060 I08 V86	THROUGH-FEED
			09A 070 JK8 VK		09A 070 J08 VK	THROUGH-FEED

HARDENED STAINLESS STEEL						
T1-T5	thickness 25 to 45	T1-T5	thickness 50 to 80	T1-T5-T7	thickness 100 to 150	application
350	08C 070 K08 V11					THROUGH-FEED
400	08C 070 K08 V11	400	08C 070 J08 V11			THROUGH-FEED
450	08C 070 K08 V11	450	08C 070 J08 V11			THROUGH-FEED
500	08C 070 K08 V11	500	08C 070 J08 V11	500	08C 070 I08 V11	THROUGH-FEED
					08C 070 I08 V11	THROUGH-FEED

AUSTENITIC STAINLESS STEEL SERIES 300 AND NIMONIC						
T1-T5	thickness 25 to 45	T1-T5	thickness 50 to 80	T1-T5-T7	thickness 85 to 120	application
350	43A 060 K08 V86					THROUGH-FEED
	45A 070 JK8 VK					THROUGH-FEED
400	43A 060 K08 V86	400	43A 060 J08 V86			THROUGH-FEED
	45A 070 JK8 VK		45A 070 J08 VK			THROUGH-FEED
450	43A 060 K08 V86	450	43A 060 J08 V86	450	43A 060 J08 V86	THROUGH-FEED
	45A 070 JK8 VK		45A 070 J08 VK		45A 070 J08 VK	THROUGH-FEED
500		500	43A 060 J08 V86	500	43A 060 J08 V86	THROUGH-FEED
			45A 070 J08 VK		45A 070 J08 VK	THROUGH-FEED
				610	43A 060 J08 V86	THROUGH-FEED
					45A 070 J08 VK	THROUGH-FEED



FERRITIC, NODULAR PEARLITIC AND HARDENED CAST IRON									
T1-T5	thickness 25 to 45		T1-T5	thickness 50 to 80		T1-T5-T7	thickness 85 to 120		application
400	43A 060 K08 V86	●	400	43A 060 J08 V86	●				THROUGH-FEED
	43A 080 K08 V86	●		43A 080 J08 V86	●				THROUGH-FEED
450	43A 060 K08 V86	●	450	43A 060 J08 V86	●				THROUGH-FEED
	43A 080 K08 V86	●		43A 080 J08 V86	●				THROUGH-FEED
500	43A 060 K08 V86	●	500	43A 060 J08 V86	●	500	43A 060 J08 V86	●	THROUGH-FEED
	43A 080 K08 V86	●		43A 080 J08 V86	●		43A 080 J08 V86	●	THROUGH-FEED
						610	43A 060 J08 V86	●	THROUGH-FEED
							43A 080 J08 V86	●	THROUGH-FEED

GREY CAST IRON									
T1-T5	thickness 25 to 45		T1-T5	thickness 50 to 80		T1-T5-T7	thickness 85 to 120		application
400	06C 060J07 V11	●	400	06C 060 I07 V11	●				THROUGH-FEED
	06C 060 J07 V11	●		06C 060 I07 V11	●				THROUGH-FEED
450	06C 060J07 V11	●	450	06C 060 I07 V11	●				THROUGH-FEED
	06C 060 J07 V11	●		06C 060 I07 V11	●				THROUGH-FEED
500	06C 060J07 V11	●	500	06C 060 I07 V11	●	500	06C 060 I07 V11	●	THROUGH-FEED
	06C 060 J07 V11	●		06C 060 I07 V11	●		06C 060 I07 V11	●	THROUGH-FEED
						610	06C 060 I07 V11	●	THROUGH-FEED
							06C 060 I07 V11	●	THROUGH-FEED

NON FERROUS METALS: ALUMINIUM, BRONZE, COPPER AND NON FERROUS ALLOYS									
T1-T5	thickness 25 to 45		T1-T5	thickness 50 to 80		T1-T5-T7	thickness 85 to 120		application
400	08C 046 H10 V11 P1	●	400	08C 046 H10 V11 P1	●				THROUGH-FEED
	08C 080 H10 V11 P1	●		08C 080 H10 V11 P1	●				THROUGH-FEED
450	08C 046 H10 V11 P1	●	450	08C 046 H10 V11 P1	●				THROUGH-FEED
	08C 080 H10 V11 P1	●		08C 080 H10 V11 P1	●				THROUGH-FEED
500	08C 046 H10 V11 P1	●	500	08C 046 H10 V11 P1	●	500	08C 046 H10 V11 P1	●	THROUGH-FEED
	08C 080 H10 V11 P1	●		08C 080 H10 V11 P1	●		08C 080 H10 V11 P1	●	THROUGH-FEED
						610	08C 046 H10 V11 P1	●	THROUGH-FEED
							08C 080 H10 V11 P1	●	THROUGH-FEED

SHELLAC superfinishing wheels for cylindrical round grinding



HARDENED STEELS AND SINTERED METAL PARTS < 62 HRC								
T1	various diameters		T5	thickness 55 to 80		T7	thickness 85 to 120	application
	09A 120 E3E	●		09A 120 E3E	●		09A 120 E3E	● THROUGH-FEED
	09A 220 E3E	●		09A 220 E3E	●		09A 220 E3E	● THROUGH-FEED
	09A 320 E3E	●		09A 320 E3E	●		09A 320 E3E	● THROUGH-FEED
	09A 400 E3E	●		09A 400 E3E	●		09A 400 E3E	● THROUGH-FEED
	09A 500 E3E	●		09A 500 E3E	●		09A 500 E3E	● THROUGH-FEED

HARDENED STEELS AND SINTERED METAL PARTS								
T1	various diameters		T5	thickness 55 to 80		T7	thickness 85 to 120	application
	08C 120 E3E	●		08C 120 E3E	●		08C 120 E3E	● THROUGH-FEED
	08C 220 E3E	●		08C 220 E3E	●		08C 220 E3E	● THROUGH-FEED
	08C 320 E3E	●		08C 320 E3E	●		08C 320 E3E	● THROUGH-FEED
	08C 400 E3E	●		08C 400 E3E	●		08C 400 E3E	● THROUGH-FEED
	08C 500 E3E	●		08C 500 E3E	●		08C 500 E3E	● THROUGH-FEED

Cylindrical round grinding wheels with standard profile

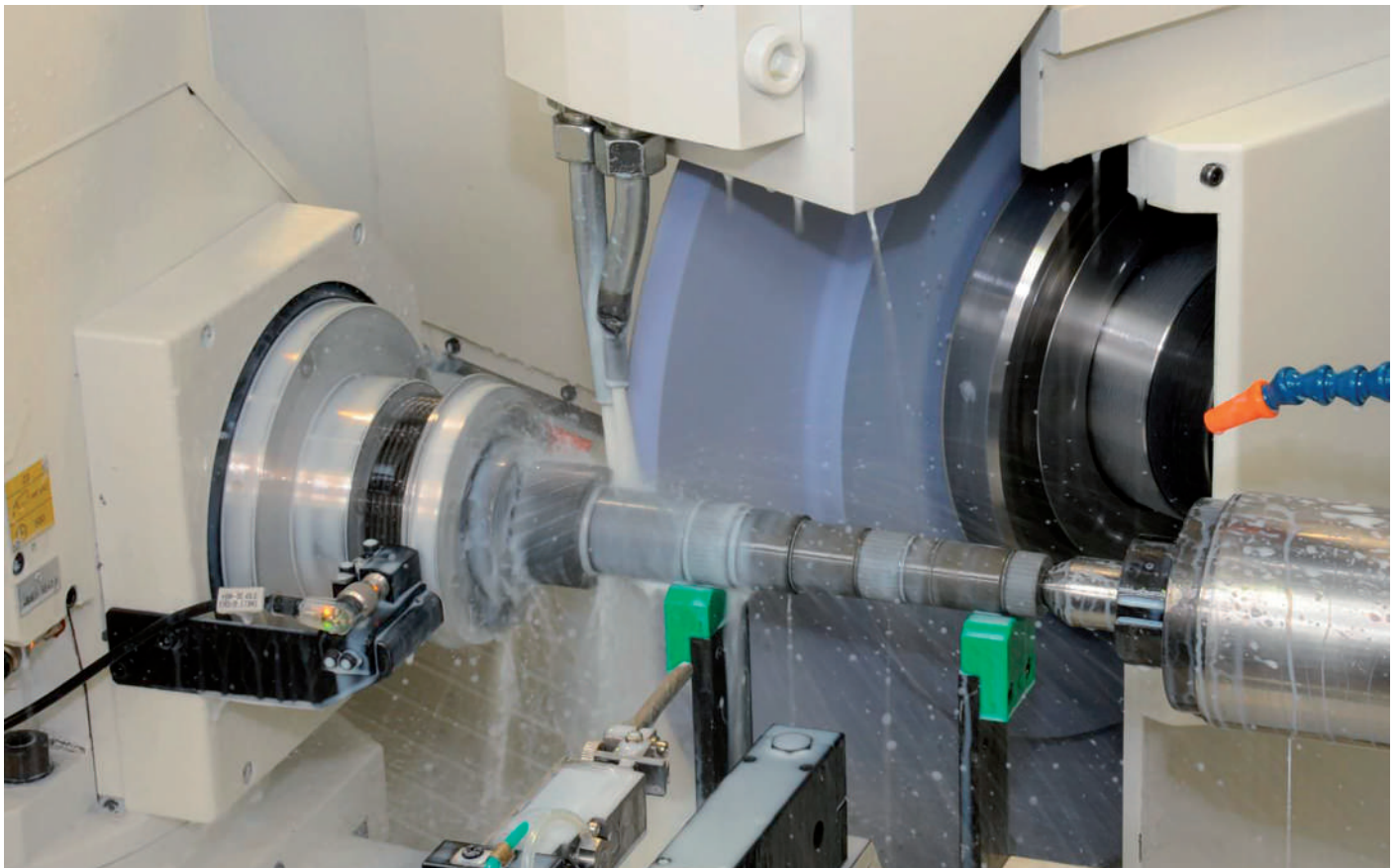


QUENCHED AND TEMPERED (HIGH RESISTANCE) AND HARDENED STEEL < 56 HRC										
T1-PS	thickness 15 to 30		T1-PS	thickness 35 to 50		T1-PS	thickness 60 to 80		application	
400	09A 080 J08 VK7	🟢	400	09A 080 J08 VK7	🟢				PLUNGE	
	09A 100 I14 VG7 PF1	🟢			09A 100 HI14 VG7 PF1	🟢			PLUNGE	
	09A 120 I14 VG7 PF1	🟢			09A 120 I14 VG7 PF1	🟢			PLUNGE	
	45A 070 K08 VK7	🟢			45A 070 K08 VK7	🟢			PLUNGE	
	45A 080 JK08 VK7	🟢			45A 080 JK08 VK7	🟢			PLUNGE	
450	09A 080 J08 VK7	🟢	450	09A 080 J08 VK7	🟢				PLUNGE	
	09A 100 I14 VG7 PF1	🟢			09A 100 I14 VG7 PF1	🟢			PLUNGE	
	09A 120 I14 VG7 PF1	🟢			09A 120 I14 VG7 PF1	🟢			PLUNGE	
	45A 070 K08 VK7	🟢			45A 070 K08 VK7	🟢			PLUNGE	
	45A 080 JK08 VK7	🟢			45A 080 JK08 VK7	🟢			PLUNGE	
500	09A 080 J08 VK7	🟢	500	09A 080 J08 VK7	🟢	500	09A 080 J08 VK7	🟢	PLUNGE	
	09A 100 I14 VG7 PF1	🟢			09A 100 I14 VG7 PF1		🟢	09A 100 HI14 VG7 PF1	🟢	PLUNGE
	09A 120 I14 VG7 PF1	🟢			09A 120 I14 VG7 PF1		🟢	09A 120 I14 VG7 PF1	🟢	PLUNGE
	45A 070 K08 VK7	🟢			45A 070 K08 VK7		🟢	45A 070 J08 VK7	🟢	PLUNGE
	45A 080 JK8 VK7	🟢			45A 080 JK8 VK7		🟢	45A 080 J08 VK7	🟢	PLUNGE

HARDENED AND POWDERED METAL STEEL < 60 HRC										
T1-PS	thickness 15 to 30		T1-PS	thickness 35 to 50		T1-PS	thickness 60 to 80		application	
400	43A 080 JK08 VK7	🟢	400	43A 080 J08 VK7	🟢				PLUNGE	
	43A 120 JK09 VK7 PF1	🟢			43A 120 J09 VK7 PF1	🟢			PLUNGE	
	43A 180 I12 VK7 PF1	🟢			43A 180 I12 VK7 PF1	🟢			PLUNGE	
450	43A 080 JK08 VK7	🟢	450	43A 080 J08 VK7	🟢				PLUNGE	
	43A 120 JK09 VK7 PF1	🟢			43A 120 J09 VK7 PF1	🟢			PLUNGE	
	43A 180 I12 VK7 PF1	🟢			43A 180 I12 VK7 PF1	🟢			PLUNGE	
500	43A 080 JK08 VK7	🟢	500	43A 080 J08 VK7	🟢	500	43A 080 J08 VK7	🟢	PLUNGE	
	43A 120 JK09 VK7 PF1	🟢			43A 120 J09 VK7 PF1		🟢	43A 120 J09 VK7 PF1	🟢	PLUNGE
	43A 180 I12 VK7 PF1	🟢			43A 180 I12 VK7 PF1		🟢			PLUNGE



HARDENED STEELS AND SINTERED METAL PARTS < 68 HRC									
T1-PS	thickness 15 to 30		T1-PS	thickness 35 to 50		T1-PS	thickness 60 to 80		application
400	1SA 070/1 IJ8 VK4	🔵	400	1SA 070/1 IJ8 VK4	🔵				PLUNGE
	1SA 150/1 K09 VK4 PP	🔵		1SA 150/1 K09 VK4 PP	🔵				PLUNGE
	3SA 070/1 J08 VK4	🔵		3SA 070/1 J08 VK4	🔵				PLUNGE
	3SA 100 K09 VK4 PP	🔵		3SA 100 K09 VK4 PP	🔵				PLUNGE
450	1SA 070/1 IJ08 VK4	🔵	450	1SA 070/1 IJ8 VK4	🔵				PLUNGE
	1SA 150/1 K09 VK4 PP	🔵		1SA 150/1 K09 VK4 PP	🔵				PLUNGE
	3SA 070/1 J08 VK4	🔵		3SA 070/1 J08 VK4	🔵				PLUNGE
	3SA 100 K09 VK4 PP	🔵		3SA 100 K09 VK4 PP	🔵				PLUNGE
500	1SA 070/1 IJ08 VK4	🔵	500	1SA 070/1 IJ8 VK4	🔵	500	1SA 070/1 I08 VK4	🔵	PLUNGE
	1SA 150/1 K09 VK4 PP	🔵		1SA 150/1 K09 VK4 PP	🔵		1SA 150/1 J09 VK4 PP	🔵	PLUNGE
	3SA 070/1 J08 VK4	🔵		3SA 070/1 J08 VK4	🔵		3SA 070/1 I08 VK4	🔵	PLUNGE
	3SA 100 K09 VK4 PP	🔵		3SA 100 K09 VK4 PP	🔵		3SA 100 J09 VK4 PP	🔵	PLUNGE



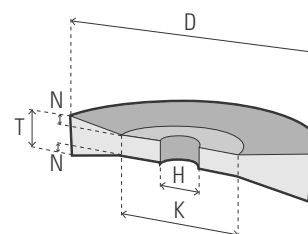
Crankshaft grinding wheels (reconditioning grinding)

Peripheral speed 35 m/sec

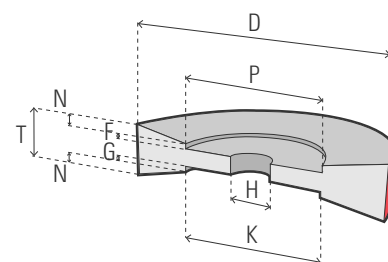


SHAPES AND DIMENSIONS								
Shape	D	T	U	H	J/K	F	G	N
T39A	660	25	19	203,2	320			1,5
T39A	660	25	22	203,2	320			2
T39A	660	25	25	203,2	320			2,5
T21	660	32	-	203,2	320			4
T39A	710	25	19	203,2	320			1,5
T39A	710	25	22	203,2	320			1,5
T39A	710	25	25	203,2	320			2,5
T39A	710	28	28	203,2	320			3
T21	710	32	-	203,2	320			4
T26	710	38	-	203,2	320	4	4	1,5
T39A	760	25	19	203,2	320			1,5
T39A	760	25	22	203,2	320			1,5
T39A	760	25	25	203,2	320			2,5
T39A	760	28	28	203,2	320			3
T21	760	32	-	203,2	320			4
T26	760	38	-	203,2	320	4	4	1,5
T39A	812	25	19	203,2	320			1,5
T39A	812	25	22	203,2	320			1,5
T39A	812	25	25	203,2	320			2,5
T39A	812	28	28	203,2	320			3
T21	812	32	-	203,2	320			4
T26	812	38	-	203,2	320	4	4	1,5
T39A	915	25	22	304,8	400			1,5
T39A	915	25	25	304,8	400			2,5
T39A	915	28	28	304,8	400			3
T21	915	32	-	304,8	400			4
T26	915	38	-	304,8	400	4	4	1,5
T26	915	45	-	304,8	400	6	6	3
T26	915	50	-	304,8	400	7	7	3
T21	1016	32	-	304,8	400			4
T26	1016	38	-	304,8	400	4	4	1,5
T26	1016	45	-	304,8	400	6	6	3
T26	1016	50	-	304,8	400	7	7	3
T26	1016	63	-	304,8	400	13	13	3

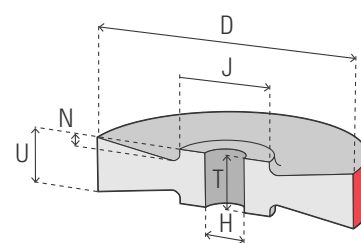
SHAPE T21



SHAPE T26



SHAPE T39A



EXAMPLE OF ORDER

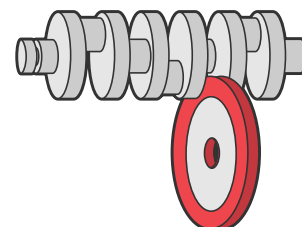
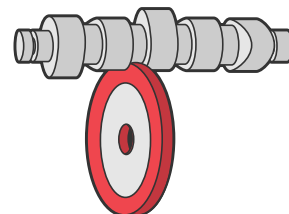
SHAPE	DIMENSIONS (mm)	NOTE	SPEED	SPECIFICATION	The coloured dot shows the actual colour of the wheel
T39A	760 x 25 x 203,2	J/K = 320 N = 2,5	35 m/sec	00A054LM06V86	

Crankshaft grinding wheels

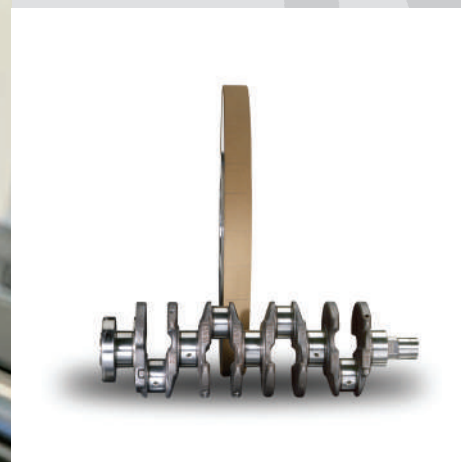
Peripheral speed 35 m/sec



SPECIFICATIONS			
materials	diameter ≤ 610 mm	diameter ≤ 610 mm	use
	specification	specification	
Hardened steel	15A054K07V86	00A054LM06V86	General use
Cast iron		09A046/2J07V86	High stock removal
Hardened steel		09A070/2J09V86	High stock removal
Chrome plated cast iron		09A080/1J08VK4P1	High stock removal

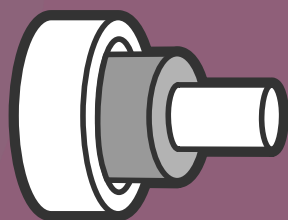


VIT CBN wheels for camshaft and crankshaft grinding



ON SPECIFIC REQUEST

Internal grinding





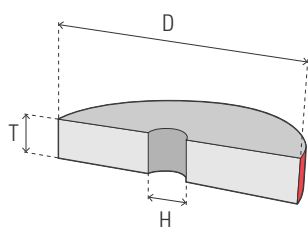
MILD, QUENCHED AND TEMPERED AND HARDENED STEEL ≤ 52 HRC

T1	Specification	T5	Inc.	Specification	Available
		16,0x16,0x6,00	10x6	31A 060 J08 V86	● STOCK
20,0x20,0x6,00	31A 060 J08 V86	20,0x20,0x6,00	13x10	31A 060 J08 V86	● STOCK
		20,0x20,0x8,00	13x10	31A 060 J08 V86	● STOCK
25,0x25,0x6,00	31A 060 J08 V86				STOCK
25,0x25,0x8,00	31A 060 J08 V86	25,0x25,0x8,00	13x10	31A 060 J08 V86	● STOCK
32,0x32,0x10,00	31A 060 J08 V86	32,0x32,0x10,00	16x16	31A 060 J08 V86	● STOCK
		40,0x25,0x10,00	20x16	31A 060 J08 V86	● STOCK
		40,0x40,0x10,00	20x16	31A 060 J08 V86	● STOCK
50,0x40,0x16,00	31A 060 J08 V86	50,0x40,0x16,00	25x16	31A 060 J08 V86	● STOCK
		60,0x40,0x20,00	32x20	31A 060 J08 V86	● STOCK

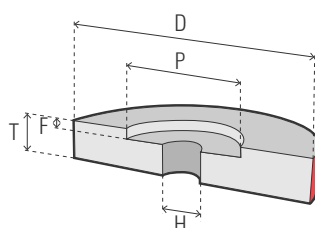
HARDENED STEELS AND SINTERED METAL PARTS ≤ 58 HRC AND STAINLESS

T1	Specification	T5	Inc.	Specification	Available
		16,0x16,0x6,00	10x6	43A 060 J14 VK2PF	● STOCK
20,0 x 20,0 x 6,00	43A 060 J14 VK2PF	20,0x20,0x6,00	13x10	43A 060 J14 VK2PF	● STOCK
		20,0x20,0x8,00	13x10	43A 060 J14 VK2PF	● STOCK
		25,0x25,0x8,00	13x10	43A 060 J14 VK2PF	● STOCK
		32,0x32,0x8,00	16x16	43A 060 J14 VK2PF	● STOCK
		32,0x32,0x10,00	16x16	43A 060 J14 VK2PF	● STOCK
		40,0x25,0x10,00	20x16	43A 060 J14 VK2PF	● STOCK
		40,0x40,0x10,00	20x16	43A 060 J14 VK2PF	● STOCK
		50,0x40,0x16,00	25x16	43A 060 J14 VK2PF	● STOCK
		60,0x32,0x20,00	32x16	43A 060 J14 VK2PF	● STOCK
		60,0x40,0x20,00	32x20	43A 060 J14 VK2PF	● STOCK
		80,0x40,0x20,00	40x20	43A 060 J14 VK2PF	● STOCK
		100,0x40,0x32,00	70x20	43A 060 J14 VK2PF	● STOCK

SHAPE T1



SHAPE T5

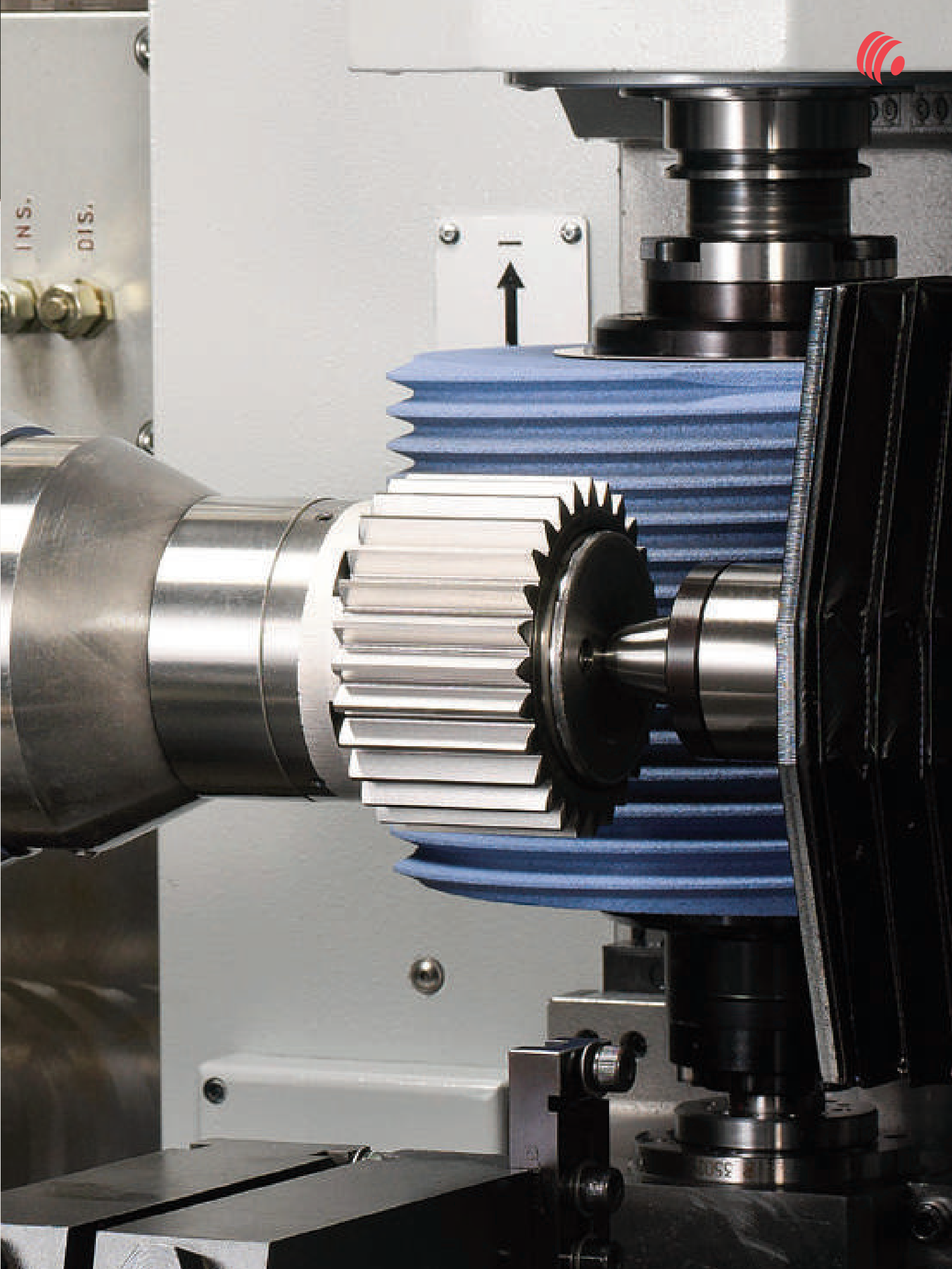




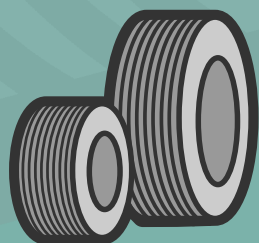
HARDENED STEELS AND SINTERED METAL PARTS ≤ 62 HRC						
T1	Specification		T5	Inc.	Specification	Available
			16,0x16,0x6,00	10x6	1SA 060 J08 VK4	 STOCK
20,0x 20,0x 6,00	1SA 060 J8 VK4		20,0x20,0x6,00	13x10	1SA 060 J08 VK4	 STOCK
			20,0x20,0x8,00	13x10	1SA 060 J08 VK4	 STOCK
			25,0x25,0x8,00	13x10	1SA 060 J08 VK4	 STOCK
			32,0x32,0x8,00	16x16	1SA 060 J08 VK4	 STOCK
			32,0x32,0x10,00	16x16	1SA 060 J08 VK4	 STOCK
			40,0x25,0x10,00	20x16	1SA 060 J08 VK4	 STOCK
			40,0x40,0x10,00	20x16	1SA 060 J08 VK4	 STOCK
			50,0x40,0x16,00	25x16	1SA 060 J08 VK4	 STOCK
			60,0x32,0x20,00	32x16	1SA 060 J08 VK4	 STOCK
			60,0x40,0x20,00	32x20	1SA 060 J08 VK4	 STOCK
			80,0x40,0x20,00	40x20	1SA 060 I08 VK4	 STOCK
			100,0x40,0x32,00	70x20	1SA 060 I08 VK4	 STOCK
CAST IRON AND NON FERROUS METALS						
T1	Specification		T5	Inc.	Specification	Available
			16,0x16,0x6,00	10x6	06C 046 J06 V01	 TO BE ORDERED
20,0x20,0x6,00	06C 046 J06 V01		20,0x20,0x6,00	13x10	06C 046 J06 V01	 TO BE ORDERED
			20,0x20,0x8,00	13x10	06C 046 J06 V01	 TO BE ORDERED
25,0x25,0x6,00	06C 046 J06 V01					TO BE ORDERED
25,0x25,0x8,00	06C 046 J06 V01		25,0x25,0x8,00	13x10	06C 046 J06 V01	 TO BE ORDERED
32,0x32,0x10,00	06C 046 J06 V01		32,0x32,0x10,00	16x16	06C 046 J06 V01	 TO BE ORDERED
			40,0x25,0x10,00	20x16	06C 046 J06 V01	 TO BE ORDERED
			40,0x40,0x10,00	20x16	06C 046 J06 V01	 TO BE ORDERED
50,0x40,0x16,00	06C 046 J06 V01		50,0x40,0x16,00	25x16	06C 046 J06 V01	 TO BE ORDERED
			60,0x40,0x20,00	32x20	06C 046 J06 V01	 TO BE ORDERED





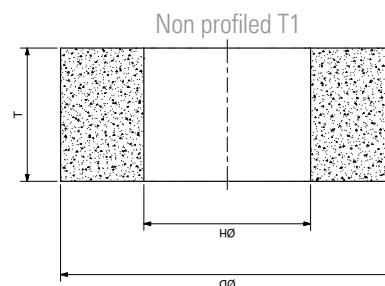
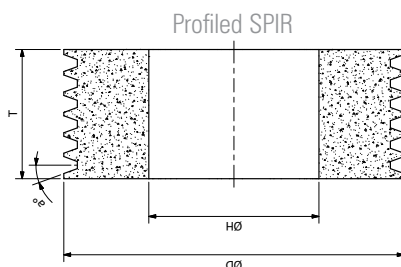


Gear grinding





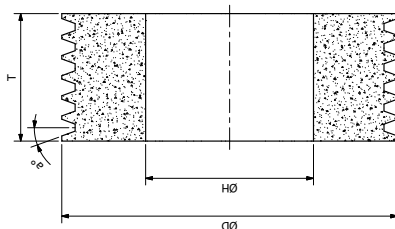
WORM WHEEL						
T1 - T7	Dimensions	Specification		Module Angle Principles	Machine	speed
SPIR	220x180x90	11A 080 I V45 PF	🔴	>1,5 V= > 20° 1:7	Gleason	63 m/sec
T1	220x180x90	11A 080 I V45 PF	🔴		Gleason	63 m/sec
SPIR	220x180x90	21A 120/1 I V40 PF	🟡	<1,5 V= > 20° 1:7	Gleason	63 m/sec
T1	220x180x90	21A 120/1 I V40 PF	🟡		Gleason	63 m/sec
SPIR	240x125x120	11A 080 I V45 PF	🔴	>1,5 V= > 20° 1:7	Gleason	63 m/sec
T1	240x125x120	11A 080 I V45 PF	🔴		Gleason	63 m/sec
SPIR	240x125x120	21A 120/1 I V40 PF	🟡	<1,5 V= > 20° 1:7	Gleason	63 m/sec
T1	240x125x120	21A 120/1 I V40 PF	🟡		Gleason	63 m/sec
SPIR	275x125x160	11A 080 I V45 PF	🔴	>1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	275x125x160	11A 080 I V45 PF	🔴		Reishauer	80 m/sec
SPIR	275x125x160	21A 120/1 I V40 PF	🟡	<1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	275x125x160	21A 120/1 I V40 PF	🟡		Reishauer	80 m/sec
SPIR	275x160x160	11A 080 I V45 PF	🔴	>1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	275x160x160	11A 080 I V45 PF	🔴		Reishauer	80 m/sec
SPIR	275x160x160	21A 120/1 I V40 PF	🟡	<1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	275x160x160	21A 120/1 I V40 PF	🟡		Reishauer	80 m/sec
SPIR	300x125x160	11A 080 I V45 PF	🔴	>1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	300x125x160	11A 080 I V45 PF	🔴		Reishauer	80 m/sec
SPIR	300x125x160	21A 120/1 I V40 PF	🟡	<1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	300x125x160	21A 120/1 I V40 PF	🟡		Reishauer	80 m/sec
SPIR	300x145x160	11A 080 I V45 PF	🔴	>1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	300x145x160	11A 080 I V45 PF	🔴		Reishauer	80 m/sec
SPIR	300x145x160	21A 120/1 I V40 PF	🟡	<1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	300x145x160	21A 120/1 I V40 PF	🟡		Reishauer	80 m/sec
SPIR	350x104x160	11A 080 I V45 PF	🔴	>1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	350x104x160	11A 080 I V45 PF	🔴		Reishauer	80 m/sec
SPIR	350x104x160	21A 120/1 I V40 PF	🟡	<1,5 V= > 20° 1:7	Reishauer	80 m/sec
T1	350x104x160	21A 120/1 I V40 PF	🟡		Reishauer	80 m/sec



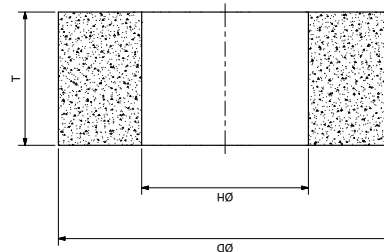


WORM WHEEL						
T1 - T7	Dimensions	Specification		Module Angle Principles	Machine	speed
SPIR	195x200x90	11A 080 I V45 PF	⦿	>1,5 V=> 20° 1:7	Liebherr	63 m/sec
T1	195x200x90	11A 080 I V45 PF	⦿		Liebherr	63 m/sec
SPIR	195x200x90	21A 120/1 I V40 PF	⦿	<1,5 V=> 20° 1:7	Liebherr	63 m/sec
T1	195x200x90	21A 120/1 I V40 PF	⦿		Liebherr	63 m/sec
SPIR	240x230x110	11A 080 I V45 PF	⦿	>1,5 V=> 20° 1:7	Liebherr	63 m/sec
T1	240x230x110	11A 080 I V45 PF	⦿		Liebherr	63 m/sec
SPIR	240x230x110	21A 120/1 I V40 PF	⦿	<1,5 V=> 20° 1:7	Liebherr	63 m/sec
T1	240x230x110	21A 120/1 I V40 PF	⦿		Liebherr	63 m/sec
SPIR	280x160x115	11A 080 I V45 PF	⦿	>1,5 V=> 20° 1:7	Kapp KX300P	63 m/sec
T1	280x160x115	11A 080 I V45 PF	⦿		Kapp KX300P	63 m/sec
SPIR	280x160x115	21A 120/1 I V40 PF	⦿	<1,5 V=> 20° 1:7	Kapp KX300P	63 m/sec
T1	280x160x115	21A 120/1 I V40 PF	⦿		Kapp KX300P	63 m/sec
SPIR	320x125x115	11A 080 I V45 PF	⦿	>1,5 V=> 20° 1:7	Kapp KX300P	63 m/sec
T1	320x125x115	11A 080 I V45 PF	⦿		Kapp KX300P	63 m/sec
SPIR	320x125x115	21A 120/1 I V40 PF	⦿	<1,5 V=> 20° 1:7	Kapp KX300P	63 m/sec
T1	320x125x115	21A 120/1 I V40 PF	⦿		Kapp KX300P	63 m/sec
SPIR	220x104x76,2 - 2inc. 117x10,5	11A 080 I V45 PF	⦿	>1,5 V=> 20° 1:7	Samputensili	63 m/sec
T7	220x104x76,2 - 2inc. 117x10,5	11A 080 I V45 PF	⦿		Samputensili	63 m/sec
SPIR	220x104x76,2 - 2inc. 117x10,5	21A 120/1 IJ V40 PF	⦿	<1,5 V=> 20° 1:7	Samputensili	63 m/sec
T7	220x104x76,2 - 2inc. 117x10,5	21A 120/1 IJ V40 PF	⦿		Samputensili	63 m/sec
SPIR	240x104x76,2 - 2inc. 117x10,5	11A 080 I V45 PF	⦿	>1,5 V=> 20° 1:7	Samputensili	63 m/sec
T7	240x104x76,2 - 2inc. 117x10,5	11A 080 I V45 PF	⦿		Samputensili	63 m/sec
SPIR	240x104x76,2 - 2inc. 117x10,5	21A 120/1 IJ V40 PF	⦿	<1,5 V=> 20° 1:7	Samputensili	63 m/sec
T7	240x104x76,2 - 2inc. 117x10,5	21A 120/1 IJ V40 PF	⦿		Samputensili	63 m/sec
SPIR	240x140x76,2	11A 080 I V45 PF	⦿	>1,5 V=> 20° 1:7	Samputensili	63 m/sec
T1	240x140x76,2	11A 080 I V45 PF	⦿		Samputensili	63 m/sec
SPIR	240x140x76,2	21A 120/1 IJ V40 PF	⦿	<1,5 V=> 20° 1:7	Samputensili	63 m/sec
T1	240x140x76,2	21A 120/1 IJ V40 PF	⦿		Samputensili	63 m/sec

Profiled SPIR



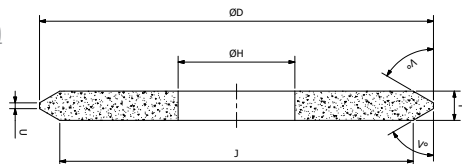
Non profiled T1





SINGLE PROFILE WHEELS						
T1	Dimensions	Specification		Table Angle	Machine	speed
PRQ	200x30x50,8	1SA 060 H11 VK4P1	⦿	U= V=	Samputensili	63 m/sec
T1	200x30x50,8	1SA 060 H11 VK4P1	⦿		Samputensili	63 m/sec
PRQ	240x25x76,2	1SA 060 H11 VK4P1	⦿	U= V=	Samputensili	63 m/sec
T1	240x25x76,2	1SA 060 H11 VK4P1	⦿		Samputensili	63 m/sec
PRQ	240x30x76,2	1SA 060 H11 VK4P1	⦿	U= V=	Samputensili	63 m/sec
T1	240x30x76,2	1SA 060 H11 VK4P1	⦿		Samputensili	63 m/sec
PRQ	300x20x50,8	1SA 060 H11 VK4P1	⦿	U= V=	Samputensili	63 m/sec
PRQ	300x20x50,8	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Samputensili	63 m/sec
PRQ	300x20x50,8	3AZ 080 J08 VK4 PF1	⦿	U= V=	Samputensili	63 m/sec
T1	300x20x50,8	1SA 060 H11 VK4P1	⦿		Samputensili	63 m/sec
T1	300x20x50,8	3AZ 060/1 H10 VK4 PF1	⦿		Samputensili	63 m/sec
T1	300x20x50,8	3AZ 080 J08 VK4 PF1	⦿		Samputensili	63 m/sec
PRQ	300x30x50,8	1SA 060 H11 VK4P1	⦿	U= V=	Samputensili	63 m/sec
PRQ	300x30x50,8	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Samputensili	63 m/sec
PRQ	300x30x50,8	3AZ 080 J08 VK4 PF1	⦿	U= V=	Samputensili	63 m/sec
T1	300x30x50,8	1SA 60 H11 VK4P1	⦿		Samputensili	63 m/sec
T1	300x30x50,8	3AZ 060/1 H10 VK4 PF1	⦿		Samputensili	63 m/sec
T1	300x30x50,8	3AZ 080 J08 VK4 PF1	⦿		Samputensili	63 m/sec
PRQ	250x32x80	1SA 060 H11 VK4P1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
T1	250x32x80	1SA 060 H11 VK4P1	⦿		Gleason/Höfler/Niles	63 m/sec
PRQ	300x25x100	1SA 060 H11 VK4P1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	300x25x100	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	300x25x100	3AZ 080 J08 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
T1	300x25x100	1SA 060 H11 VK4P1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	300x25x100	3AZ 060/1 H10 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	300x25x100	3AZ 080 J08 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
PRQ	300x30x100	1SA 60 H11 VK4P1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	300x30x100	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	300x30x100	3AZ 080 J08 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
T1	300x30x100	1SA 060 H11 VK4P1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	300x30x100	3AZ 060/1 H10 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	300x30x100	3AZ 080 J08 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
PRQ	350x32x127	1SA 060 H11 VK4P1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	350x32x127	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	350x32x127	3AZ 080 J08 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
T1	350x32x127	1SA 060 H11 VK4P1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	350x32x127	3AZ 060/1 H10 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	350x32x127	3AZ 080 J08 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec

Profiled PRQ



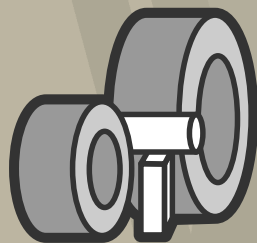


SINGLE PROFILE WHEELS						
T1	Dimensions	Specification		Table Angle	Machine	speed
PRQ	350x40x127	1SA 060 H11 VK4P1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	350x40x127	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	350x40x127	3AZ 080 J08 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
T1	350x40x127	1SA 060 H11 VK4P1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	350x40x127	3AZ 060/1 H10 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	350x40x127	3AZ 080 I08 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
PRQ	400x32x127	1SA 060 H11 VK4P1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	400x32x127	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	400x32x127	3AZ 080 J08 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
T1	400x32x127	1SA 060 H11 VK4P1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	400x32x127	3AZ 060/1 H10 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	400x32x127	3AZ 080 J08 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
PRQ	400x40x127	1SA 060 H11 VK4P1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	400x40x127	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	400x40x127	3AZ 080 J08 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
T1	400x40x127	1SA 060 H11 VK4P1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	400x40x127	3AZ 060/1 H10 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	400x40x127	3AZ 080 I08 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
PRQ	450x32x127	1SA 060 H11 VK4P1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	450x32x127	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	450x32x127	3AZ 080 J08 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
T1	450x32x127	1SA 060 H11 VK4P1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	450x32x127	3AZ 060/1 H10 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	450x32x127	3AZ 080 J08 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
PRQ	450x40x127	1SA 060 H11 VK4P1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	450x40x127	3AZ 060/1 H10 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
PRQ	450x40x127	3AZ 080 J08 VK4 PF1	⦿	U= V=	Gleason/Höfler/Niles	63 m/sec
T1	450x40x127	1SA 060 H11 VK4P1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	450x40x127	3AZ 060/1 H10 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
T1	450x40x127	3AZ 080 I08 VK4 PF1	⦿		Gleason/Höfler/Niles	63 m/sec
Variant with finer grit (better finishing)		3AZ 080 J08 VK4 PF1	⦿			
Variant for modules with important dimensions		3AZ 060/1 H10 VK4 PF1	⦿			

Cylindrical gear grinding for pumps and hydraulic motors

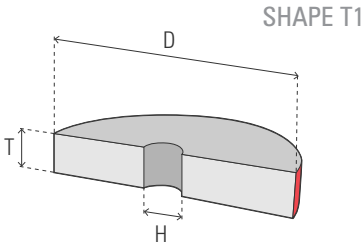
PROFILE N WHEELS								
T1 - PRN	thickness 20 to 30		thickness 35 to 60		thickness 65 to 100		Angle 1 / Angle 2	
450	43A 080 JK8 VK7		43A 080 J08 VK7				V ¹	V ²
	43A 120 K06 VK7		43A 120 K06 VK7				V ¹	V ²
508	43A 080 JK8 VK7		43A 080 J08 VK7		43A 080 IJ08 VK7		V ¹	V ²
	43A 120 K06 VK7		43A 120 JK9 VK7		43A 120 J10 VK7		V ¹	V ²
610			43A 080 J08 VK7		43A 080 IJ08 VK7		V ¹	V ²
			43A 120 K06 VK7		43A 120 J10 VK7		V ¹	V ²

Centreless grinding

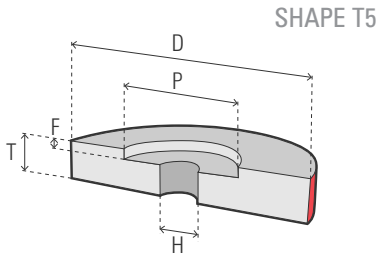




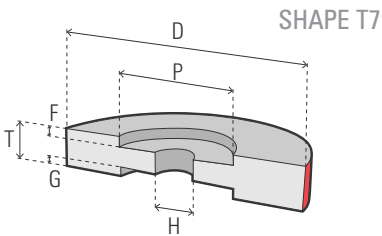
SHAPES AND DIMENSIONS		
Shape	D	H
T1	300	127
	350	127
	400	203,2 - 152,4
	508	254 - 304,8
	610	304,8



Shape	D	H	P	F
T5	300	127	190	To be specified $F_{max} = 1/2T$
	350	127	215	
	400	203,2	270	
	508	304,8	390	
	610	304,8	390	



Shape	D	H	P	F
T7	300	127	190	To be specified $F+G_{max} = 1/2T$
	350	127	215	
	400	203,2	270	
	508	304,8	390	
	610	304,8	390	



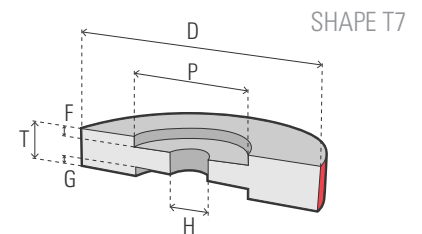
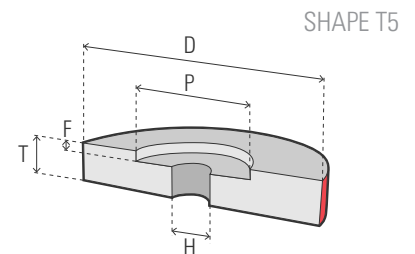
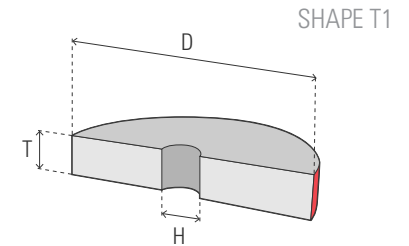
WHEEL THICKNESS UPON REQUEST
For thickness 400, 508 and 610, we supply wheels combined into 2 or 3 pieces, thickness 1/2T or 1/3T



SHAPES AND DIMENSIONS		
Shape	D	H
T1	200	76,2
	250	127
	300	127
	350	127 - 203,2

Shape	D	H	P	F
T5	200	76,2	115	To specify
	250	127	190	
	300	127	190	
	350	127	215	
	350	203,2	270	

Shape	D	H	P	F
T7	200	76,2	115	To specify
	250	127	190	
	300	127	190	
	350	127	215	
	350	203,2	270	



SPECIFICATIONS		
Grinding type	Specification	Use
Through-feed Centerless Plunge Centerless	00A080 RR Rubber bond	General
	00A120 RR	Finishing
	00A180 SR	Superfinishing
	00A080 SV Vitrified bond	Only for specific production of pieces with diameter ≤ 16 mm

WHEEL THICKNESS UPON REQUEST



MILD, ANNEALED AND QUENCHED AND TEMPERED STEEL < 35 HRC								
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500	application
300	15A 060 K8 V86	●						THROUGH-FEED
300	11A 060 K8 V86	●						THROUGH-FEED
350	15A 060 K8 V86	●	350	15A 060 K8 V86	●			THROUGH-FEED
350	11A 060 K8 V86	●	350	11A 060 K8 V86	●			THROUGH-FEED
400	15A 060 K8 V86	●	400	15A 060 K8 V86	●			THROUGH-FEED
400	11A 060 K8 V86	●	400	11A 060 K8 V86	●			THROUGH-FEED
508	15A 060 K8 V86	●	508	15A 060 K8 V86	●	508	15A 060 K8 V86	● THROUGH-FEED
508	11A 060 K8 V86	●	508	11A 060 K8 V86	●	508	11A 060 K8 V86	● THROUGH-FEED
610	15A 060 K8 V86	●	610	15A 060 K8 V86	●	610	15A 060 K8 V86	● THROUGH-FEED
610	11A 060 K8 V86	●	610	11A 060 K8 V86	●	610	11A 060 K8 V86	● THROUGH-FEED

QUENCHED AND TEMPERED (HIGH RESISTANCE) AND HARDENED STEEL < 56 HRC								
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500	application
300	09A 080 J08 V86	●						THROUGH-FEED
300	45A 070/2 JK9 V85	●						THROUGH-FEED
350	09A 080 J08 V86	●	350	09A 080 J08 V86	●			THROUGH-FEED
350	45A 070/2 JK9 V85	●	350	45A 070/2 JK9 V85	●			THROUGH-FEED
400	09A 080 J08 V86	●	400	09A 080 J08 V86	●			THROUGH-FEED
400	45A 070/2 JK9 V85	●	400	45A 070/2 JK9 V85	●			THROUGH-FEED
508	09A 080 J08 V86	●	508	09A 080 J08 V86	●	508	09A 080 J08 V86	● THROUGH-FEED
508	45A 070/2 JK9 V85	●	508	45A 070/2 JK9 V85	●	508	45A 070/2 JK9 V85	● THROUGH-FEED
610	09A 080 J08 V86	●	610	09A 080 J08 V86	●	610	09A 080 J08 V86	● THROUGH-FEED
610	45A 070/2 JK9 V85	●	610	45A 070/2 JK9 V85	●	610	45A 070/2 JK9 V85	● THROUGH-FEED

HARDENED STEELS AND SINTERED METAL PARTS < 60 HRC								
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500	application
300	43A 080 J08 V86	●						THROUGH-FEED
350	43A 080 J08 V86	●	350	43A 080 J08 V86	●			THROUGH-FEED
400	43A 080 J08 V86	●	400	43A 080 J08 V86	●			THROUGH-FEED
508	43A 080 J08 V86	●	508	43A 080 J08 V86	●	508	43A 080 J08 V86	● THROUGH-FEED
610	43A 080 J08 V86	●	610	43A 080 J08 V86	●	610	43A 080 J08 V86	● THROUGH-FEED



CHROME PLATED STEEL									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	11A 060 J08 V30	●							THROUGH-FEED
350	11A 060 J08 V30	●	350	11A 060 J08 V30	●				THROUGH-FEED
400	11A 060 J08 V30	●	400	11A 060 J08 V30	●				THROUGH-FEED
508	11A 060 J08 V30	●	508	11A 060 J08 V30	●	508	11A 060 J08 V30	●	THROUGH-FEED
610	11A 060 J08 V30	●	610	11A 060 J08 V30	●	610	11A 060 J08 V30	●	THROUGH-FEED

FERRITIC STAINLESS STEEL, SERIES 400 AND INCONEL									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	45A 070/2 JK9 V85	●							THROUGH-FEED
350	45A 070/2 JK9 V85	●	350	45A 070/2 JK9 V85	●				THROUGH-FEED
400	45A 070/2 JK9 V85	●	400	45A 070/2 JK9 V85	●				THROUGH-FEED
508	45A 070/2 JK9 V85	●	508	45A 070/2 JK9 V85	●	508	45A 070/2 JK9 V85	●	THROUGH-FEED
610	45A 070/2 JK9 V85	●	610	45A 070/2 JK9 V85	●	610	45A 070/2 JK9 V85	●	THROUGH-FEED

AUSTENITIC STAINLESS STEEL SERIES 300 AND NIMONIC									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	43A 080 K08 V86	●							THROUGH-FEED
350	43A 060 K08 V86	●	350	43A 060 K08 V86	●				THROUGH-FEED
400	43A 060 K08 V86	●	400	43A 060 K08 V86	●				THROUGH-FEED
508	43A 060 K08 V86	●	508	43A 060 K08 V86	●	508	43A 060 K08 V86	●	THROUGH-FEED
610	43A 060 K08 V86	●	610	43A 060 K08 V86	●	610	43A 060 K08 V86	●	THROUGH-FEED





FERRITIC, NODULAR PEARLITIC AND HARDENED CAST IRON									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	15A 060 K07 V86	●							THROUGH-FEED
350	15A 060 K07 V86	●	350	15A 060 K07 V86	●				THROUGH-FEED
400	15A 060 K07 V86	●	400	15A 060 K07 V86	●				THROUGH-FEED
508	15A 060 K07 V86	●	508	15A 060 K07 V86	●	508	15A 060 K07 V86	●	THROUGH-FEED
610	15A 060 K07 V86	●	610	15A 060 K07 V86	●	610	15A 060 K07 V86	●	THROUGH-FEED

GREY CAST IRON											
T1-T5	thickness 100 to 150			T1-T5	thickness 200 to 250			T1-T5-T7	thickness 300 to 500		application
300	08C 080 K07 V11 										THROUGH-FEED
350	08C 060 K07 V11 			350	08C 060 K07 V11 						THROUGH-FEED
400	08C 060 K07 V11 			400	08C 060 K07 V11 						THROUGH-FEED
508	08C 060 K07 V11 			508	08C 060 K07 V11 			508	08C 060 K07 V11 		THROUGH-FEED
610	08C 060 K07 V11 			610	08C 060 K07 V11 			610	08C 060 K07 V11 		THROUGH-FEED

TITANIUM									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	08C 080 K07 V11	🟢							THROUGH-FEED
350	08C 080 K07 V11	🟢	350	08C 080 K07 V11	🟢				THROUGH-FEED
400	08C 080 K07 V11	🟢	400	08C 080 K07 V11	🟢				THROUGH-FEED
508	08C 080 K07 V11	🟢	508	08C 080 K07 V11	🟢	508	08C 080 K07 V11	🟢	THROUGH-FEED
610	08C 080 K07 V11	🟢	610	08C 080 K07 V11	🟢	610	08C 080 K07 V11	🟢	THROUGH-FEED

NON FERROUS METALS: ALUMINIUM, BRONZE, COPPER, RUBBER AND NON FERROUS ALLOYS									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	08C 080 H10 V11P	🟢							THROUGH-FEED
350	08C 080 H10 V11P	🟢	350	08C 080 H10 V11P	🟢				THROUGH-FEED
400	08C 080 H10 V11P	🟢	400	08C 080 H10 V11P	🟢				THROUGH-FEED
508	08C 080 H10 V11P	🟢	508	08C 080 H10 V11P	🟢	508	08C 080 H10 V11P	🟢	THROUGH-FEED
610	08C 080 H10 V11P	🟢	610	08C 080 H10 V11P	🟢	610	08C 080 H10 V11P	🟢	THROUGH-FEED

CEMENTED CARBIDE AND INDUSTRIAL CERAMICS									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	08C 060 H08 V11	🟢							THROUGH-FEED
350	08C 060 H08 V11	🟢	350	08C 060 H08 V11	🟢				THROUGH-FEED
400	08C 060 H08 V11	🟢	400	08C 060 H08 V11	🟢				THROUGH-FEED
508	08C 060 H08 V11	🟢	508	08C 060 H08 V11	🟢	508	08C 060 H08 V11	🟢	THROUGH-FEED
610	08C 060 H08 V11	🟢	610	08C 060 H08 V11	🟢	610	08C 060 H08 V11	🟢	THROUGH-FEED



MILD, ANNEALED AND QUENCHED AND TEMPERED STEEL < 35 HRC

T1-T5	thickness 100 to 150	T1-T5	thickness 200 to 250	T1-T5-T7	thickness 300 to 500	application
300	15A 120 L07 V86					PLUNGE
350	15A 120 L07 V86	350	15A 120 k07 V86			PLUNGE
400	15A 120 L07 V86	400	15A 120 k07 V86			PLUNGE
508	15A 080 L07 V86	508	15A 080 K07 V86	508	15A 080 K07 V86	PLUNGE
610	15A 080 L07 V86	610	15A 080 K07 V86	610	15A 080 K07 V86	PLUNGE

QUENCHED AND TEMPERED (HIGH RESISTANCE) AND HARDENED STEEL < 56 HRC

T1-T5	thickness 100 to 150	T1-T5	thickness 200 to 250	T1-T5-T7	thickness 300 to 500	application
300	09A 120 L07 V86					PLUNGE
300	45A 120 K8 V85					PLUNGE
350	09A 100 L07 V86	350	09A 100 K07 V86			PLUNGE
350	45A 120 K8 V85	350	45A 120 K8 V85			PLUNGE
400	09A 100 L07 V86	400	09A 100 K07 V86			PLUNGE
400	45A 120 K8 V85	400	45A 120 K8 V85			PLUNGE
508	09A 100 L07 V86	508	09A 100 K07 V86	508	09A 100 K07 V86	PLUNGE
508	45A 100 K8 V85	508	45A 100 K8 V85	508	45A 100 K8 V85	PLUNGE
610	09A 100 L07 V86	610	09A 100 K07 V86	610	09A 100 K07 V86	PLUNGE
610	45A 100 K8 V85	610	45A 100 K8 V85	610	45A 100 K8 V85	PLUNGE

HARDENED STEELS AND SINTERED METAL PARTS < 60 HRC

T1-T5	thickness 100 to 150	T1-T5	thickness 200 to 250	T1-T5-T7	thickness 300 to 500	application
300	43A 120 K08 V86					PLUNGE
350	43A 120 K08 V86	350	43A 120 J08 V86			PLUNGE
400	43A 120 K08 V86	400	43A 120 J08 V86			PLUNGE
508	43A 080 K08 V86	508	43A 080 J08 V86	508	43A 080 J08 V86	PLUNGE
610	43A 080 K08 V86	610	43A 080 J08 V86	610	43A 080 J08 V86	PLUNGE

CHROME PLATED STEEL

T1-T5	thickness 100 to 150	T1-T5	thickness 200 to 250	T1-T5-T7	thickness 300 to 500	application
300	11A 120 K08 V11					PLUNGE
350	11A 120 K08 V11	350	11A 120 J08 V11			PLUNGE
400	11A 080 K08 V11	400	11A 080 J08 V11			PLUNGE
508	11A 080 K08 V11	508	11A 080 J08 V11	508	11A 080 J08 V11	PLUNGE
610	11A 080 K08 V11	610	11A 080 J08 V11	610	11A 080 J08 V11	PLUNGE



FERRITIC STAINLESS STEEL, SERIES 400 AND INCONEL

T1-T5	thickness 100 to 150	T1-T5	thickness 200 to 250	T1-T5-T7	thickness 300 to 500	application
300	45A 120 JK8 V85					PLUNGE
350	45A 120 JK8 V85	350	45A 100 J8 V85			PLUNGE
400	45A 100 K8 V85	400	45A 100 J8 V85			PLUNGE
508	45A 100 K8 V85	508	45A 100 J8 V85	508	45A 100 J8 V85	PLUNGE
610	45A 100 K8 V85	610	45A 100 J8 V85	610	45A 100 J8 V85	PLUNGE

AUSTENITIC STAINLESS STEEL SERIES 300 AND NIMONIC

T1-T5	thickness 100 to 150	T1-T5	thickness 200 to 250	T1-T5-T7	thickness 300 to 500	application
300	43A 120 K08 V86					PLUNGE
350	43A 120 K08 V86	350	43A 120 JK08 V86			PLUNGE
400	43A 080 K08 V86	400	43A 080 J08 V86			PLUNGE
508	43A 080 K08 V86	508	43A 080 J08 V86	508	43A 080 J08 V86	PLUNGE
610	43A 080 K08 V86	610	43A 080 J08 V86	610	43A 080 J08 V86	PLUNGE

FERRITIC, NODULAR PEARLITIC AND HARDENED CAST IRON

T1-T5	thickness 100 to 150	T1-T5	thickness 200 to 250	T1-T5-T7	thickness 300 to 500	application
300	15A 120 JK07 V86					PLUNGE
350	15A 120 JK07 V86	350	15A 120 J07 V86			PLUNGE
400	15A 080 K07 V86	400	15A 080 J07 V86			PLUNGE
508	15A 080 K07 V86	508	15A 080 J07 V86	508	15A 080 J07 V86	PLUNGE
610	15A 080 K07 V86	610	15A 080 J07 V86	610	15A 080 J07 V86	PLUNGE

GREY CAST IRON

T1-T5	thickness 100 to 150	T1-T5	thickness 200 to 250	T1-T5-T7	thickness 300 to 500	application
300	08C 120 J07 V11					PLUNGE
350	08C 120 J07 V11	350	08C 120 J07 V11			PLUNGE
400	08C 080 K07 V11	400	08C 080 J07 V11			PLUNGE
508	08C 080 K07 V11	508	08C 080 J07 V11	508	08C 080 J07 V11	PLUNGE
610	08C 080 K07 V11	610	08C 080 J07 V11	610	08C 080 J07 V11	PLUNGE



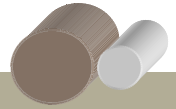
TITANIUM BOLTS AND RIVETS									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	08C 120 N07 V11	●							PLUNGE
350	08C 120 N07 V11	●	350	08C 120 N07 V11	●				PLUNGE
400	08C 120 N07 V11	●	400	08C 120 N07 V11	●				PLUNGE
508	08C 120 N07 V11	●	508	08C 120 N07 V11	●	508	08C 120 N07 V11	●	PLUNGE
610	08C 120 N07 V11	●	610	08C 120 N07 V11	●	610	08C 120 N07 V11	●	PLUNGE

NON FERROUS METALS: ALUMINIUM, BRONZE, COPPER, RUBBER AND NON FERROUS ALLOYS									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	08C 120 H10 V11P	🟢							PLUNGE
350	08C 120 H10 V11P	🟢	350	08C 120 H10 V11P	🟢				PLUNGE
400	08C 080 H10 V11P	🟢	400	08C 080 H10 V11P	🟢				PLUNGE
508	08C 080 H10 V11P	🟢	508	08C 080 H10 V11P	🟢	508	08C 080 H10 V11P	🟢	PLUNGE
610	08C 080 H10 V11P	🟢	610	08C 080 H10 V11P	🟢	610	08C 080 H10 V11P	🟢	PLUNGE

CEMENTED CARBIDE AND INDUSTRIAL CERAMICS									
T1-T5	thickness 100 to 150		T1-T5	thickness 200 to 250		T1-T5-T7	thickness 300 to 500		application
300	08C 080 H08 V11	🟢							PLUNGE
350	08C 080 H08 V11	🟢	350	08C 080 H08 V11	🟢				PLUNGE
400	08C 060 H08 V11	🟢	400	08C 060 H08 V11	🟢				PLUNGE
508	08C 060 H08 V11	🟢	508	08C 060 H08 V11	🟢	508	08C 060 H08 V11	🟢	PLUNGE
610	08C 060 H08 V11	🟢	610	08C 060 H08 V11	🟢	610	08C 060 H08 V11	🟢	PLUNGE



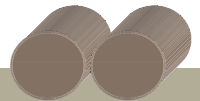
Grinding wheels resinoid bonded for centerless grinding of pipes Perfecta line



FOR CENTERLESS GRINDING MACHINES WITH WORKING WHEEL AND REGULATING WHEEL

Tipo: Bocca & Malandrone, Cincinnati, Giustina, Ghiringhelli, Lidkoping, Mikrosa, Monzesi, Schumag ecc.

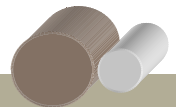
Low alloyed carbon steels	Roughing and finishing	08C 80/2 08 BGT	Ø 406, 508, 610, 660
		08C 80/2 P8 BGT	T= 204, 254, 305, 355, 508
Hardened carbon steels	Roughing and finishing	08C 80/2 08 BGT	Ø 406, 508, 610, 660
		08C 80/2 P8 BGT	T= 204, 254, 305, 355, 508
Stainless steels and special alloys	Roughing and finishing	MVC 080 OP6 BGT	Ø 406, 508, 610, 660
			T= 204, 254, 305, 355, 508
Austenitic and martensitic stainless steels for automotive valves	Roughing and finishing	07C 060 Q8 BGT	Ø 406, 508, 610, 660
		MVC 080 OP6 BGT	T= 204, 254, 305, 355, 508



FOR CENTERLESS GRINDING MACHINES WITH 2 WORKING WHEELS (OPPOSED WHEELS)

Tipo: Landgraf, Mair, Schumag

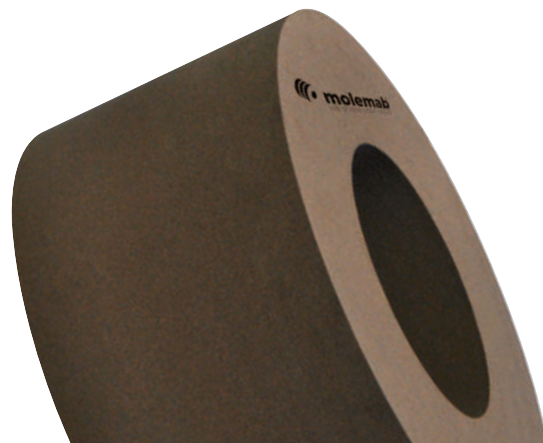
Low alloyed carbon steels	Roughing and finishing	1SC 080 P6 B4S	Ø 350, 508, 600, 660
			T= 150, 305, 355
Hardened carbon steels	Roughing and finishing	1SC 080 P6 B4S	Ø 350, 508, 600, 660
			T= 150, 305, 355
Stainless steels and special alloys	Roughing and finishing	MVC 080 P6 BGT	Ø 350, 508, 600, 660
			T= 150, 305, 355
Austenitic and martensitic stainless steels for automotive valves	Finishing	MVC 080 P6 BGT	Ø 350, 508, 600, 660
		MVC 100 P6 BGT	T= 150, 305, 355



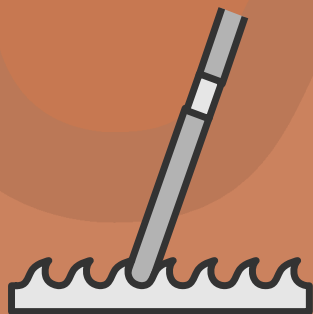
FOR CENTERLESS GRINDING MACHINES WITH WORKING WHEEL AND REGULATING WHEEL

Tipo: Bocca & Malandrone, Cincinnati, Giustina, Ghiringhelli, Lidkoping, Mikrosa, Monzesi, Schumag ecc.

Din steels 2391-2 (St52)	Roughing	79A 054 OP8 BW	Ø 406, 508, 610, 660
			T= 204, 254, 305, 355, 508



Tool and cutter grinding

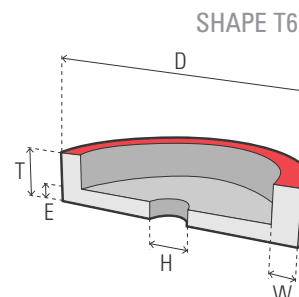


Flaring and cylindrical cup wheels

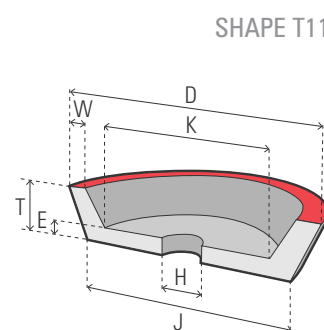
Peripheral speed 35 m/sec



SHAPES AND DIMENSIONS					
Shape	D	T	H	W	E
T6	80	40	20	10	10
	100	50	20 - 32	10	10
	125	50	32	10	10
	150	50	32	10	16
	150	63	32	16	16
	200	40	76,2	40	13



SHAPES AND DIMENSIONS							
Shape	D	T	H	W	E	J	K
T11	80	32	20	8	10	57	46
	100	40	20 - 32	8	10	75	65
	125	45	32	8	10	96	78
	150	50	32	10	13	114	95



SPECIFICATIONS				
Material	Type	Specification	Use	Remarks
Steel	HSS Alloy steels	09A046K06V86	Roughing General use	
		09A060K06V86	Finishing General use	
		3HA060K07V114	General use Cool grinding without deformation	
		11A080K06V92	General use	Only for wheels T6 - D100
		31A070J07V86	General use	Only for wheels T6 - D100
Cemented carbide	Tungsten carbide tools	08C060J08V01	Roughing	
		08C080J08V01	Finishing	

EXAMPLE OF ORDER

SHAPE	DIMENSIONS (mm)	NOTE	SPEED	SPECIFICATION	
T6	100 x 50 x20	W=10 E=10	35 m/sec	31A070J07V86	The coloured dot shows the actual colour of the wheel

Tapered and dish wheels for dry applications

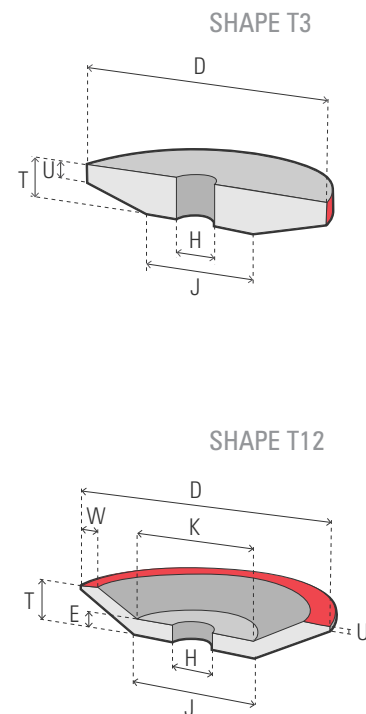
Peripheral speed 35 m/sec



SHAPES AND DIMENSIONS					
Shape	D	T	H	U	J
T3	125	8	20 - 32	2	63
	150	8	20 - 32	2	75

SHAPES AND DIMENSIONS							
Shape	D	T	H	W	U	E	J=K
T12	80	10	13	4	2	6	31
	100	13	20	5	3	7	36
	125	14	20 - 32	6	3	7	61
	150	16	20 - 32	8	3	9	66
	200	19	32	10	3	12	90
	200	32	32	10	3	12	90

SPECIFICATIONS			
Material	Type	Specification	application
Steel	HSS and alloy steels	09A046K06V86	● General use
		3HA060K07V114	● General use
Cemented carbide	Carbide Tungsten carbide tools	08C060J08V01	● General use



Grinding wheels for circular saw sharpening

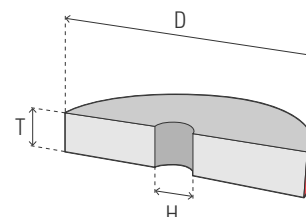
Speed 35 and 60 m/sec



SHAPES AND DIMENSIONS			
Shape	D	T	H
T1	150	1,0 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 4,5 - 5 - 6	32
	175	2 - 3 - 4 - 6 - 8	51
	200	1,0 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 4,5 - 5 - 6 - 8 - 10	32
	250	6 - 8 - 10 - 13	32

SPECIFICATIONS			
Material	Type	Specification	application
Circular saws	HSS and Stellite	11A080N05V86	For very narrow toothed saws wheel thickness $\leq 3,5$ mm
		11A080M06V86	For medium toothed saws wheel thickness $4 \div 5$ mm
		11A054M06V86	For wide narrow toothed saws wheel thickness ≥ 6 mm
		09A080K08V20	General use high-speed grinding wheels

SHAPE T1



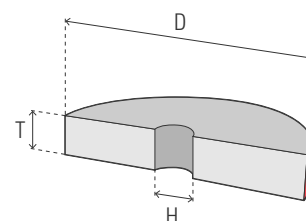
Grinding wheels for band saw sharpening

Peripheral speed 35 m/sec

SHAPES AND DIMENSIONS			
Shape	D	T	H
T1	150	6 - 8 - 10	20 - 32
	200	6 - 8 - 10 - 13	32
	225	8 - 10 - 13	32
	250	8 - 10 - 13	32
	300	16 - 20	32

SPECIFICATIONS			
Material	Type	Specification	application
Band saws	High alloy steels HSS and Stellite	09A054M06V86	General use
		09A054L06V86 1 resin hardened edge	General use improved profile*
		11A054M06V86	General use good profile retention
		11A054L06V86 1 resin hardened edge	General use improved profile retention*

SHAPE T1



T1-BD = SHAPE T1 WITH RESIN HARD SIDE

* Best for stellite saws

Profiled wheels for conventional band saw sharpening

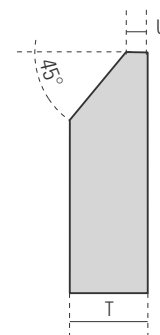
Peripheral speed 35 m/sec



SHAPES AND DIMENSIONS			
Shape	D	T	H
T1-PR Profile C - 45°	150	6 - 8	20 - 32
	200	6 - 8- 10	20 - 32
	250	10 - 13	32

SPECIFICATIONS			
Material	Type	Specification	application
Conventional band saws	Medium-low hardness steel	15A060N05V12	● General use
		09A054M06V86	○ General use Best removal
	High alloy steels HSS and Stellite	5SA080007 BGW	● For automatic machines type Vollmer and Iseli

SHAPE T1 PROFILE C - 45°



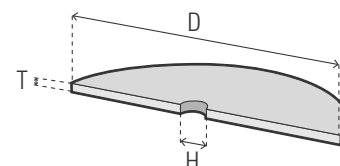
Thin wheels for circular saw sharpening

Speed 50 m/sec

SHAPES AND DIMENSIONS			
Shape	D	T	H
T1-PR	120	2	51
	150	1,5 - 2 - 3	20 - 32
	175	2 - 3	51
	200	1,5 - 2 - 3 - 4	32

SPECIFICATIONS			
Material	Type	Abrasive	application
Circular saws with narrow teeth	Hardened steel - HSS	17A060P05BA	● General use
		09A054M06V86	○ General use quick removal

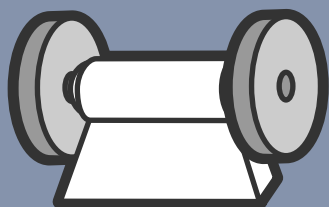
SHAPE T1



EXAMPLE OF ORDER

SHAPE	DIMENSIONS (mm)	NOTE	SPEED	SPECIFICATION	
T1 - PR	150 x 6 x 20	profile C-45°	35 m/sec	15A060N05V12	● The coloured dot shows the actual colour of the wheel

Bench grinding wheels



Wheels for bench and pedestal grinders

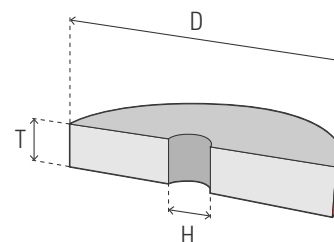
Peripheral speed 35 m/sec



BENCH GRINDERS - SHAPES AND DIMENSIONS

Shape	D	T	H
T1	125	16 - 20	13 - 20 - 32
	150	16 - 20 - 25	16 - 20 - 32
	178	20 - 25	20 - 32
	200	20 - 25 - 30	20 - 32 - 76,2
	250	25 - 30	25 - 32

SHAPE T1



PEDESTAL GRINDERS - SHAPES AND DIMENSIONS

Shape	D	T	H
T1	300	32 - 40	32 - 127
	300	50	127 - 150
	350	40	32 - 127
	350	50	127 - 150
	400	40 - 50 - 63	40 - 127
	500	50 - 63	50 - 203,2

Plastic bushing

SHAPES AND DIMENSIONS

Bore	Bushing	Thickness
16	13	6
20	13 - 16	6
25	13 - 16 - 20	6
30	20 - 25	6
31.75	12,7 - 13 - 15,87 - 16 - 20 - 25	6
32	10,05 - 12,75 - 13 - 16 - 19 - 20 - 23 - 25	6
35	31.75	6
38	20 - 32	6



EXAMPLE OF ORDER

SHAPE	DIMENSIONS (mm)	SPEED	SPECIFICATION	
T1	300 x 32 x 32	35 m/sec	00A036N05V86	 The coloured dot shows the actual colour of the wheel



MILD, ANNEALED QUENCHED AND TEMPERED STEEL ≤ 35 HRC

T1	Bench	T1	Pedestal	application
	00A 024 005 V86		00A 024 005 V86	Roughing
	00A 036 N05 V86		00A 036 N05 V86	Roughing
	00A 046 L06 V58		00A 046 L06 V58	Semi-finishing
	00A 060 L06 V58		00A 060 L06 V58	Finishing

HARDENED STEELS AND SINTERED METAL PARTS ≤ 60 HRC

T1	Bench	T1	Pedestal	application
	09A 046 K06 V86		09A 046 K06 V86	Roughing
	09A 060 K06 V86		09A 060 K06 V86	Finishing
	11A 046 K06 V86			Roughing
	11A 060 K06 V86			Finishing

CEMENTED CARBIDE

T1	Bench	T1	Pedestal	application
	08C 060 J08 V01		08C 046 J08 V01	Roughing
	08C 080 J08 V01		08C 060 K07 V01	Sharpening
	08C 120 I08 V01			Chip breaker



GENERAL
INFORMATION
ABOUT TRUEING
AND DRESSING





GENERAL CONSIDERATIONS

In all grinding operations a correct dressing is essential to obtain the maximum performance of the grinding wheel.

Dressing of conventional abrasive and microcrystalline Aluminium Oxide grinding wheels is carried out using:

- single point diamond dressers
- manually mounted multi point blade type diamond dressers
- PBP type multi point impregnated diamond dressers
- chisel type MCD monocrystalline diamond dressers
- diamond rotary truers

GENERAL TIPS FOR DRESSING

The dressing operation must always be carried out in the presence of an abundant flow of coolant. To avoid thermal shocks on the diamond, direct the coolant to the dressing area before starting the operation.

The tool carrier must be free from vibrations. Limit the protrusion of the dresser to less than twice the diameter of the shank. Ensure the correct positioning and the correct 10-15° angle of single point diamonds.

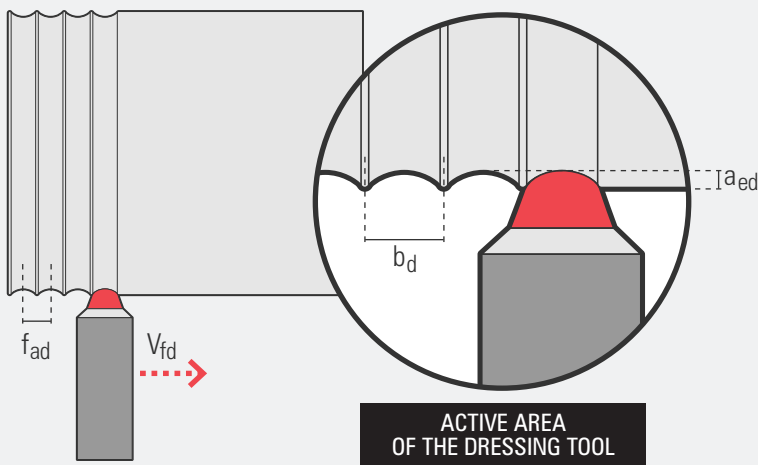
Choose the shape and size of the tool based on the size and specification of the grinding wheel and the type of grinding. The carat weight of the diamond must never be less than the recommended value.

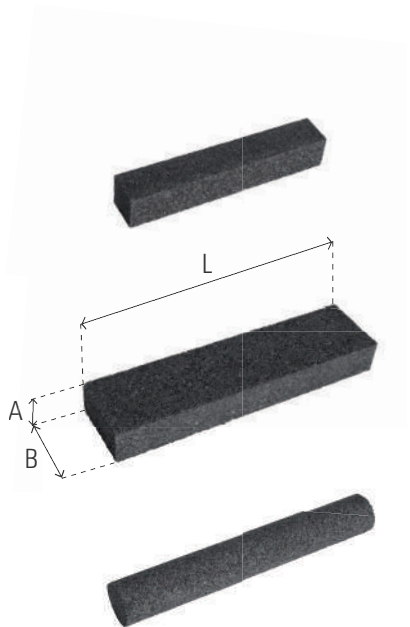
The diamond must always be well sharpened.

Single diamond tools have a more marked action on the abrasive

grain and are therefore more suitable for profile and roughing wheels.

Multiple diamond tools are preferable to single diamond tools for dressing straight grinding wheels since they are less susceptible to the risk of breakage and cheaper (at the same carat weight).





DRESSING STICKS - SHAPES AND DIMENSIONS

Shape	A	B	L	Specification
Square	15	15	150	04C020S05V55
	20	20	200	
	25	25	150-200	
	50	50	200	
Rectangular	13	25	150	04C020S05V55
	25	50	200	
Round	15		100-150	04C020S05V55
	20		150-200	
	25		150-200	
	30		200	

TREBEL DRESSERS - SHAPES AND DIMENSIONS

Shape	D	T	H	Specification
T1	90	40	22,2	04C020S05V55

ALUMINIUM OXIDE DRESSING STICKS FOR DIAMOND WHEELS - SHAPES AND DIMENSIONS



Code	A	B	L	Specification	Grit
A1RTA13251001	13	25	100	09A120G8V86	120
A1RTA13251005	13	25	100	09A240J8V86	240
A1RTA25502001	25	50	100	09A120J7V86	120



RESIN-BONDED SILICON CARBIDE DRESSING STONES FOR DIAMOND WHEELS SHAPES AND DIMENSIONS

Code	A	B	L	Specification	Grit
A1RTA50252001	50	25	200	08C150G07B	150



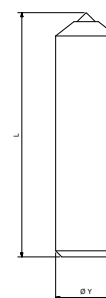
SINGLE POINT DRESSERS WITH CYLINDRICAL SHANK

	Code	Ø Y	L	Diamond
		mm	mm	ct
STANDARD	U1SST050G10	10	40	0.5
	U1SST100G10	10	40	1,0
	U1SST150G10	10	40	1.5
	U1SST200G10	10	40	2,0
	U1SST250G10	10	40	2,5
	U1SST300G10	10	40	3,0
HIGH QUALITY	U4SST025G10	10	40	0.25
	U4SST050G10	10	40	0.5
	U4SST100G10	10	40 square head	1,0
	U4SST150G10	10	40 square head	1,5
	U4SST200G10	10	40 square head	2,0

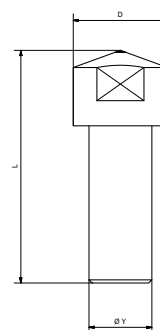
SINGLE POINT DRESSERS WITH MORSE TAPER 1 SHANK

	Code	Ø Y	L	Diamond
		gambo		ct
STANDARD	U1SST050CM1	CM1 x 40		0,5
	U1SST100CM1	CM1 x 40		1,0
	U1SST150CM1	CM1 x 40		1,5
	U1SST200CM1	CM1 x 40		2,0
	U1SST250CM1	CM1 x 40		2,5
HIGH QUALITY	U4SST025CM1	CM1 x 40		0,25
	U4SST050CM1	CM1 x 40		0,5
	U4SST100CM1	CM1 x 40		1,0
	U4SST150CM1	CM1 x 40		1,5
	U4SST200CM1	CM1 x 40		2,0

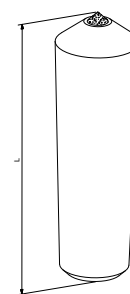
Cylindrical Shank



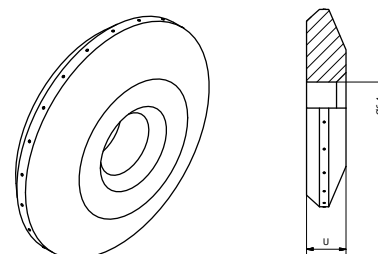
Square head



Morse Taper 1



Circular rotary dresser



CIRCULAR ROTARY DRESSER

Code	Ø D	u	Bore	Diamond ct	
U1MR04F20	20	9	6,1	2,0	STANDARD
U4MR04FD18	21	7	6,1	2,0	HIGH QUALITY



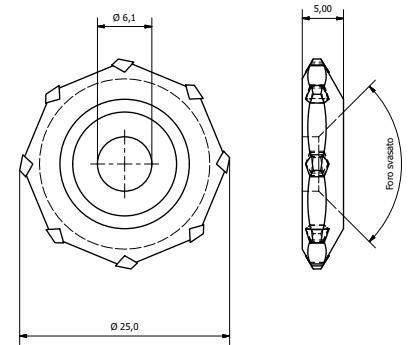
POINT ROTARY DRESSER $V=25^\circ$ (NATURAL STONES)

Code	$\varnothing D$	u	N° points	Bore	
U4MR08PPN2	25	5	8	6,1	HIGH QUALITY

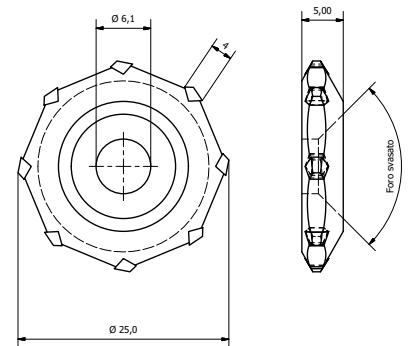
POINT ROTARY DRESSER $V=25^\circ$ (CVD)

Code	$\varnothing D$	u	N° points	Bore	
U4MR08PCVD2	25	5	8	6,1	HIGH QUALITY

8 point rotary dresser $v=25^\circ$
(natural stones)



8 point rotary dresser $v=25^\circ$
(synthetic diamond)



IMPREGNATED CIRCULAR ROTARY DRESSER

Code	$\varnothing D$	u	X	H		Diamond grit
U4-14-ROL1	22	7	x	6,1		600/800 20/30MESH

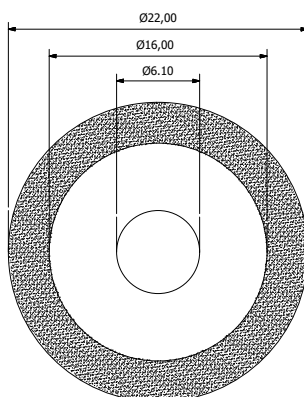
ROTARY DRESSER WITH CYLINDRICAL SHANK

Code	$\varnothing D$	u	X	$\varnothing Y$	L	Diamond grit
U4-14-ROL1G10	22	7	3	10	48	600/800 20/30MESH

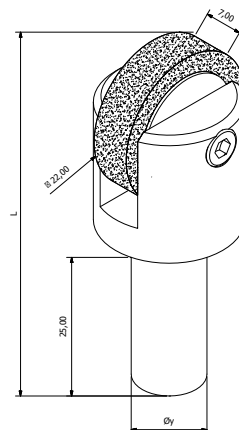
ROTARY DRESSER WITH MORSE TAPER 1 SHANK

Code	$\varnothing D$	u	X		Diamond grit
U4-14-ROL1CM1	22	7	3	CM1 x 48	600/800 20/30MESH

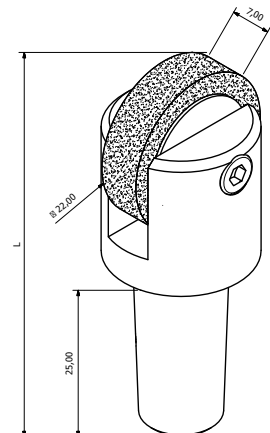
Impregnated circular rotary dresser



Rotary dresser with cylindrical shank



Rotary dresser with Morse taper 1 shank





HANDSET BLADE DIAMOND DRESSERS

STANDARD

Code	Y	X	L			Diamond Ct
U1MSC1015	10	15	33			1.5
U1MSC1020	10	15	33			2,0
U1MSC1025	10	15	33			2.5
U1MSC1030	10	15	33			3,0
U1MSC1515	15	15	33			1.5
U1MSC1520	15	15	33			2,0
U1MSC1525	15	15	33			2.5
U1MSC1530	15	15	33			3,0
U1MSC2015	20	15	33			1.5
U1MSC2020	20	15	33			2,0
U1MSC2025	20	15	33			2.5
U1MSC2030	20	15	33			3,0

SA HANDSET BLADE NATURAL DIAMOND DRESSERS

HIGH QUALITY

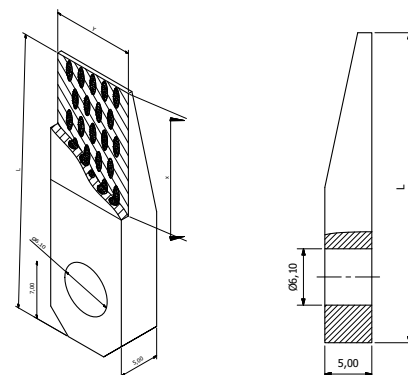
Code	Y	X	u	L	TIPO	Grit of conventional wheel
U4MSC1020F	10	10	5	30	F	80 and higher
U4MSC1020M	10	10	5	30	M	60 - 80
U4MSC1020G	10	10	5	30	G	54 and lower
U4MSC1520F	15	15	5	30	F	80 and higher
U4MSC1520M	15	15	5	30	M	60 - 80
U4MSC1520G	15	15	5	30	G	54 and lower
U4MSC2020F	20	15	5	30	F	80 and higher
U4MSC2020M	20	15	5	30	M	60 - 80
U4MSC2020G	20	15	5	30	G	54 and lower

BLADE DRESSERS WITH CVD BAR SYNTHETIC DIAMOND

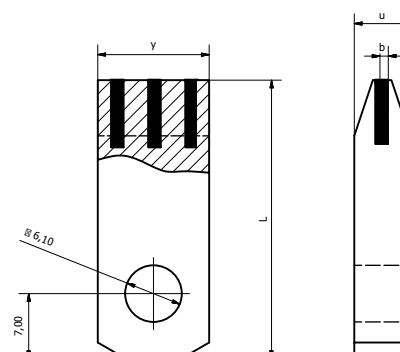
HIGH QUALITY

Code	Y	X	u	L	B	Grit of conventional wheel
U4MSC1006MDL	10	4	5	30	0,6	80 and higher
U4MSC1008MDL	10	4	5	30	0,8	60 and lower

Handset blade natural diamond dressers



Blade dressers with CVD bar synthetic diamond

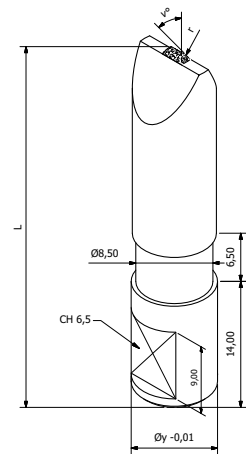




TOOLS FOR FORMING (DIAFORM)

				CYLINDRICAL SHANK		Type
	Code	V°	r	Ø Y	L	
STANDARD	U1D40R125	40°	0,125	9.52	45	Diaform
	U1D40R250	40°	0,250	9.52	45	Diaform
	U1D60R250	60°	0,250	9.52	45	Diaform
	U1D60R500	60°	0,500	9.52	45	Diaform
HIGH QUALITY	U4D40R125	40°	0,125	9.52	45	Diaform
	U4D40R250	40°	0,250	9.52	45	Diaform
	U4D40R500	40°	0,500	9.52	45	Diaform
	U4D60R125	60°	0,125	9.52	45	Diaform
	U4D60R250	60°	0,250	9.52	45	Diaform
	U4D60R500	60°	0,500	9.52	45	Diaform

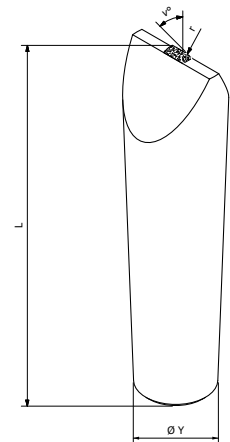
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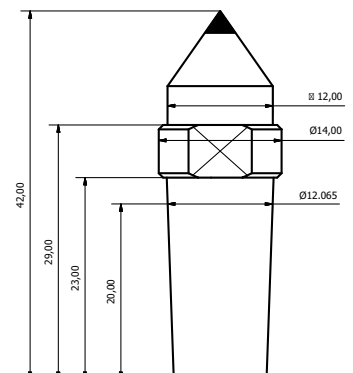
CHISEL TOOLS

				CYLINDRICAL SHANK		Machine
	Code	V°	r	Ø Y	L	
HIGH QUALITY	U4D40R125G850	40°	0,125	8	50	MORARA
	U4D40R250G850	40°	0,250	8	50	MORARA
	U4D40R500G850	40°	0,500	8	50	MORARA
	U4D60R125G850	60°	0,125	8	50	MORARA
	U4D60R250G850	60°	0,250	8	50	MORARA
	U4D60R500G850	60°	0,500	8	50	MORARA
	U4D40R125G1050	40°	0,125	10	50	TACCHELLA
	U4D40R250G1050	40°	0,250	10	50	TACCHELLA
	U4D40R500G1050	40°	0,500	10	50	TACCHELLA
	U4D60R125G1050	60°	0,125	10	50	TACCHELLA
	U4D60R250G1050	60°	0,250	10	50	TACCHELLA
	U4D60R500G1050	60°	0,500	10	50	TACCHELLA

Chisel Cylindrical Shank



Chisel Morse taper 1



CHISEL TOOLS

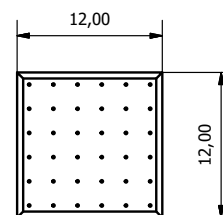
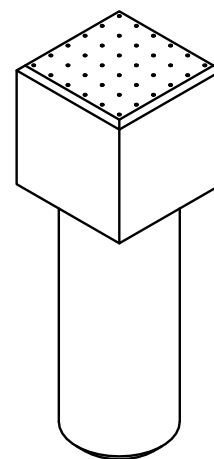
				MORSE TAPER 1	Machine
	Code	V°	r		
HIGH QUALITY	U4D40R125CM1	40°	0,125	CM1 x 23	STUDER
	U4D40R250CM1	40°	0,250	CM1 x 23	STUDER
	U4D40R500CM1	40°	0,500	CM1 x 23	STUDER
	U4D60R125CM1	60°	0,125	CM1 x 23	STUDER
	U4D60R250CM1	60°	0,250	CM1 x 23	STUDER
	U4D60R500CM1	60°	0,500	CM1 x 23	STUDER



SQUARE HEAD DRESSERS (HANDSET)

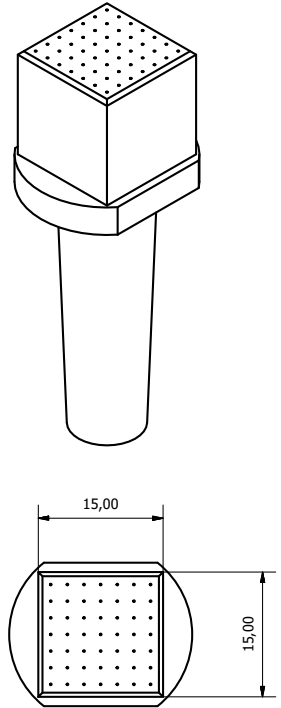
				CYLINDRICAL SHANK		
Code	Section		Grit wheel	Ø Y	L	Diamond Ct
STANDARD	U1MTQ4S20G10	15	15	10	50	2,0
	U1MTQ4S25G10	15	15	10	50	2,5
	U1MTQ4S30G10	15	15	10	50	3,0
	U1MTQ4S50G10	15	15	10	50	5,0
HIGH QUALITY	U4MTQ12Y46G1050	12	12	46	10	2,0
	U4MTQ12Y46G1250	12	12	46	12	2,0
	U4MTQ12Y60G1050	12	12	60	10	2,0
	U4MTQ12Y60G1250	12	12	60	12	2,0
	U4MTQ12Y80G1050	12	12	80	10	2,0
	U4MTQ12Y80G1250	12	12	80	12	2,0
	U4MTQ15Y4625G1050	15	15	46	10	2,5
	U4MTQ15Y4625G1250	15	15	46	12	2,5
	U4MTQ15Y6025G1050	15	15	60	10	2,5
	U4MTQ15Y6025G1250	15	15	60	12	2,5
	U4MTQ15Y8025G1050	15	15	80	10	2,5
	U4MTQ15Y8025G1250	15	15	80	12	2,5
	U4MTQ15Y4630G1050	15	15	46	10	3,0
	U4MTQ15Y4630G1250	15	15	46	12	3,0
	U4MTQ15Y6030G1050	15	15	60	10	3,0
	U4MTQ15Y6030G1250	15	15	60	12	3,0
	U4MTQ15Y8030G1050	15	15	80	10	3,0
	U4MTQ15Y8030G1250	15	15	80	12	3,0

Cylindrical shank





Morse taper 1



SQUARE HEAD DRESSERS (HANDSET)						
					MORSE TAPER 1	
	Code	Section		Grit wheel		Diamond Ct
STANDARD	U1MTQ4S20CM1	15	15		CM1 x 50mm	2,0
	U1MTQ4S25CM1	15	15		CM1 x 50mm	2,5
	U1MTQ4S30CM1	15	15		CM1 x 50mm	3,0
	U1MTQ4S50CM1	15	15		CM1 x 50mm	5,0
HIGH QUALITY	U4MTQ12Y46CM125	12	12	46	CM1 x 25mm	2,0
	U4MTQ12Y60CM125	12	12	60	CM1 x 25mm	2,0
	U4MTQ12Y80CM125	12	12	80	CM1 x 25mm	2,0
	U4MTQ12Y46CM1	12	12	46	CM1 x 50mm	2,0
	U4MTQ12Y60CM1	12	12	60	CM1 x 50mm	2,0
	U4MTQ12Y80CM1	12	12	80	CM1 x 50mm	2,0
	U4MTQ12Y46CM180	12	12	46	CM1 x 80mm	2,0
	U4MTQ12Y60CM180	12	12	60	CM1 x 80mm	2,0
	U4MTQ12Y80CM180	12	12	80	CM1 x 80mm	2,0
	U4MTQ1525Y46CM125	15	15	46	CM1 x 25mm	2,5
	U4MTQ1525Y60CM125	15	15	60	CM1 x 25mm	2,5
	U4MTQ1525Y80CM125	15	15	80	CM1 x 25mm	2,5
	U4MTQ1525Y46CM1	15	15	46	CM1 x 50mm	2,5
	U4MTQ1525Y60CM1	15	15	60	CM1 x 50mm	2,5
	U4MTQ1525Y80CM1	15	15	80	CM1 x 50mm	2,5
	U4MTQ1525Y46CM180	15	15	46	CM1 x 80mm	2,5
	U4MTQ1525Y60CM180	15	15	60	CM1 x 80mm	2,5
	U4MTQ1525Y80CM180	15	15	80	CM1 x 80mm	2,5
	U4MTQ1530Y46CM125	15	15	46	CM1 x 25mm	3,0
	U4MTQ1530Y60CM125	15	15	60	CM1 x 25mm	3,0
	U4MTQ1530Y80CM125	15	15	80	CM1 x 25mm	3,0
	U4MTQ1530Y46CM1	15	15	46	CM1 x 50mm	3,0
	U4MTQ1530Y60CM1	15	15	60	CM1 x 50mm	3,0
	U4MTQ1530Y80CM1	15	15	80	CM1 x 50mm	3,0
	U4MTQ1530Y46CM180	15	15	46	CM1 x 80mm	3,0
	U4MTQ1530Y60CM180	15	15	60	CM1 x 80mm	3,0
	U4MTQ1530Y80CM180	15	15	80	CM1 x 80mm	3,0

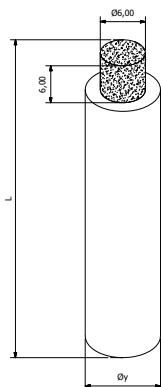


ROUND HEAD DRESSERS (CONCRETION)

			CYLINDRICAL SHANK			
Code	Ø D	X	Ø Y	L	Shape	Grit Diamond
U1820G10	10	10	10	40	PBP-8	600/800 20/30MESH STANDARD
U4720G10	6	6	10	45	PBP7	600/800 20/30MESH HIGH QUALITY
U4820G10	10	10	10	48	PBP8	600/800 20/30MESH
U48S20G10	10	10	10	48	PBP8S-15°	600/800 20/30MESH

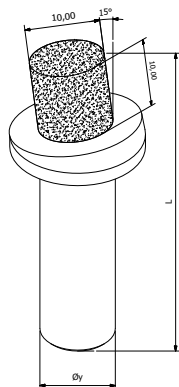
			MORSE TAPER 1			
Code	Ø D	X		Shape	Grit Diamond	
U1820CM1	10	10	CM1 x 40	PBP-8	600/800 20/30MESH	STANDARD
U4720CM1	6	6	CM1 x 48	PBP7	600/800 20/30MESH	HIGH QUALITY
U4820CM1	10	10	CM1 x 48	PBP8	600/800 20/30MESH	
U48S20CM1	10	10	CM1 x 48	PBP8S-15°	600/800 20/30MESH	

Cylindrical shank



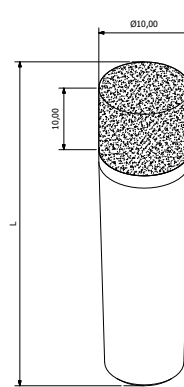
PBP7 - PBP8

Cylindrical shank 15°



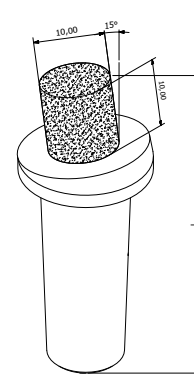
PBP8S-15°

Morse taper 1



PBP7 - PBP8

Morse taper 1 15°



PBP8S-15°

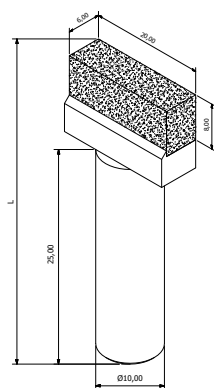


RECTANGULAR HEAD DRESSERS (CONCRETION)

			CYLINDRICAL SHANK			
Code	Section	X	Ø Y	L	Shape	Grit Diamond
U4320G10	6 x 12	10	10	40	PBP3	600/800 20/30MESH HIGH QUALITY
U43S20G10	6 x 12	10	10	40	PBP3S-15°	600/800 20/30MESH
U4120G10	6 x 20	10	10	40	PBP1	600/800 20/30MESH
U41S20G10	6 x 20	10	10	40	PBP1S-15°	600/800 20/30MESH

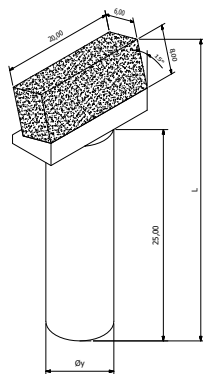
			MORSE TAPER 1			
Code	Section	X			V°	Grit Diamond
U4320CM1	6 x 12	10	CM1 x 40		PBP3	600/800 20/30MESH HIGH QUALITY
U43S20CM1	6 x 12	10	CM1 x 40		PBP3S-15°	600/800 20/30MESH
U4120CM1	6 x 20	10	CM1 x 40		PBP1	600/800 20/30MESH
U41S20CM1	6 x 20	10	CM1 x 40		PBP1S-15°	600/800 20/30MESH

Cylindrical shank



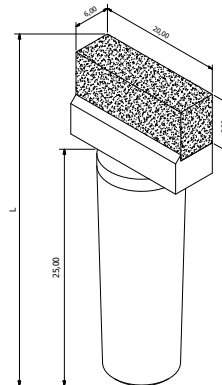
PBP1 - PBP3

Cylindrical shank 15°



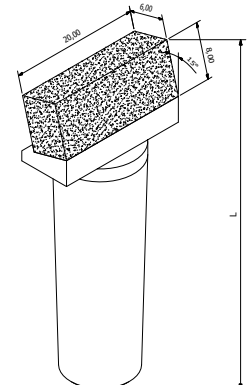
PBP1S-15° - PBP3S-15°

Morse taper 1

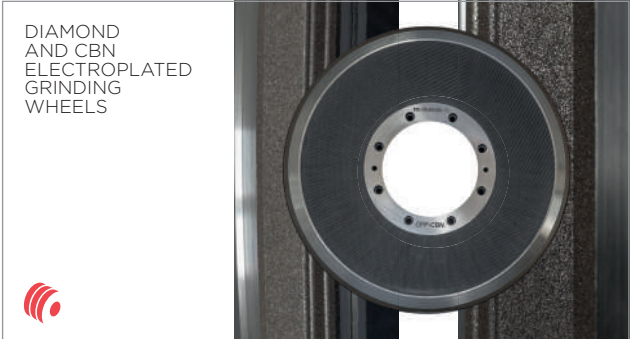


PBP1 - PBP3

Morse taper 1 15°



PBP1S-15° - PBP3S-15°





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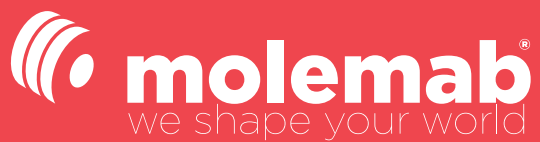
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