

A worker in a yellow hard hat and safety glasses is using a power tool on a large industrial structure. The worker is wearing a blue jacket and is standing on a metal platform. The background shows a complex industrial facility with various pipes, scaffolding, and structures. A large blue arrow graphic points from the top right towards the worker.

TYROLIT INDUSTRIAL ABRASIVES

COATED AND BONDED PRODUCT CATALOGUE

CUTTING • GRINDING • FINISHING

A Company of the SWAROVSKI Group

TYROLIT



TYROLIT

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TYROLIT ABRASIVES NORTH AMERICA

TYROLIT Abrasives has been providing the North American industry with high quality cutting, grinding and finishing products at ultra competitive prices for over 28 years. Building on our over quarter century commitment to the marketplace, TYROLIT Abrasives is devoted to providing continuous product improvements through our unyielding pursuit of the latest technological innovations.

With annual global sales over €500 million, 28 production facilities in 13 countries and a worldwide team of over 4,000 members, we are confident that TYROLIT Abrasives will exceed your expectations as your strategic abrasives provider.

TYROLIT IS GLOBAL

As the second largest manufacturer of abrasive in the world, TYROLIT will continue to forge ahead with our ambitious expansion plans. Our goal is to increase the level of service & support in the markets we operate in now while we build a stronger presence in the markets or regions that we are not strong in.

With our wide range of products (80,000), our numerous global locations, our commitment to the manufacturing of environmentally friendly products and our unyielding focus on quality & safety TYROLIT will exceed your expectations as your strategic abrasives partner.

Please contact us to find out how TYROLIT can tailor our abrasive products to your suit your company's application through the work of our highly skilled product engineers.





PRINCIPLES

CUSTOMER RELATIONS

We view our customers as partners with the aim of achieving a long lasting mutually beneficial relationship.

The success of our customers lies in the quality of our products, our knowledge of application technology and the provision of customer-specific on-site solutions.

This close cooperation with our customers leads to remarkable strategic developments and ensures long-term success for both parties.

Our global network of production centres, sales operations and our carefully selected local distribution partners means that TYROLIT is the only global supplier of abrasives for our internationally active customers all over the world.

INNOVATION

The development and implementation of our visions and ideas for the future has always been and remains a key factor in the success of our company.

The creative potential of our employees is constantly looking out for new technology, developing new materials or continuously optimising the entire production process, this is helping to gain a competitive edge over our competitors.



TYROLIT = SAFETY

Our constant goal is to make our products to the highest safety standards for our customers:

- Through our work as the founder member of the "Organisation for the Safety of Abrasives (oSa),"
- Through close cooperation with the safety authorities like ANSI,
- Through practical communication with our users all over the world.



The Symbol of Safety.

**If you see the OSA logo, you
can assure the product was
manufactured to the highest
safety standards.**

AIM OF OSA

The main aim of oSa is defined in terms of absolute protection for the users of grinding tools. Members undertake to:

- Provide a consistently high level of quality,
- Adopt a rigorous approach towards quality assurance,
- Strive to develop new, improved standards of safety.

QUALITY

Our strength remains as an unbeatable combination of tradition, innovation and quality.

Our quality level is characterised by our constant desire to improve quality, an attribute that is embedded in the strategic orientation of the company. It is this characteristic that guarantees our customers the usual high quality standards they expect of TYROLIT.

The TYROLIT quality management system has been certified to ISO 9001:2000 by an external authorised body for the entire production area. Production is carried out in accordance with European Standards:

- EN12413 for grinding wheels made of bonded abrasives
- EN13236 for grinding wheels made of diamond or boron nitride
- EN13743 for special abrasives on an underlay such as
 - Vulcanised fibre grinding wheels
 - Flap grinding wheels
 - Flap Discs
 - Mounted points



QUALITY LINES - NORTH AMERICA

Two product levels for ease of selection:

PREMIUM★★★

Quality products for maximum performance:

TYROLIT PREMIUM products are highest performers in the category, offering outstanding life and efficiency for optimum performance

BASIC★

Quality products for universal use:

TYROLIT BASIC products offer an excellent price to performance ratio, whilst still maintaining good performance and service life with assured total safety





GENERAL INFORMATION

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TYROLIT

EXPLANATION OF LABELS

RESIN-BONDED

LABEL



SPECIFICATION

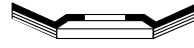
Abrasive designation	Grit size in mesh			Designation of hardness			Type of bond
A = regular aluminium oxide (long-chipping materials/metals)	24	46	80	N	Q	T	B = bond/bonding agent (resin)
C = silicon carbide (short-chipping materials/stone)	30	46		O	R	S	F = fibre-reinforced – with fibre glass (for safety, lateral load and max. operating speed)
ZA = zirconium aluminium oxide (cast materials or for flap discs)	30	60	120	P	S		

EXPLANATION OF LABELS

RESIN-BONDED

SHAPES

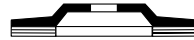
Type 1
Cut-off wheel
(straight design)



Type 29
Flap disc (conical design)



Type 27
Cut-off wheel
(depressed-centre design)



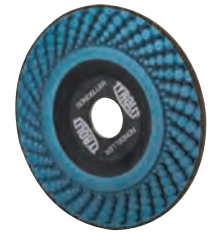
Type 27
Flap disc (flat design)



Type 27
Rough grinding wheels
(depressed-centre design)



Type 29
Rondeller
(semi-flexible grinding wheel)



Type 28
Rough grinding wheels



COLOUR CODES

						
Label	Steel	2in1 / 3in1	INOX	Stone	NF metals	Cast iron
Colour codes	Blue	Blue	Red	Green	Orange	Purple
Materials	Steel	2in1 (steel/ stainless steel) or 3in1 (cast iron/steel/ stainless steel)	Rust and acid resistant steels	Stone	Aluminium, copper, zinc, brass, bronze, stone	Cast materials

EXPLANATION OF LABELS

DIAMOND

LABEL



SPECIFICATION

Example: DCAB***-FC / DCABP-FC

Position 1-2	Program	DC	Dry cutting
Position 3-4	Application	AB	Abrasive materials
		U	Universal (gen. building materials)
		C	Concrete
		H	Hard stone, granite
		A	Asphalt
		M	Marble, soft stone
		T	Tiles
Position 5-7	Quality line		PREMIUM ***
			STANDARD **
			BASIC *
Position 8-9	Special quality	FC	Fast cut
		S	Silent
		LL	Long life

EXPLANATION OF LABELS

DIAMOND

SHAPES



1A1R Continuous cutting rim



C3 Close spacing, narrow slots with slot hole



C6 Close spacing, narrow slots with slot hole



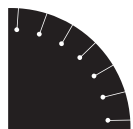
C3S Close spacing, narrow slots with hole slot. Protected with a drop wear segment to guard against the undercutting effect



C6R Turbo layer, close spacing, narrow slots with slot hole



C1 Wide spacing, wide slots



C3R Turbo layer, close spacing, narrow slots with slot hole



C1S Wide spacing, wide slots. Protected with a drop wear segment to guard against the undercutting effect



COLOUR CODES

Label	Universal	Concrete	Hard stone	Tiles	Marble	Abrasive materials	Asphalt
Colour codes	Yellow	Red	Blue	Green	Green	Grey	Grey
Materials	4 in 1	Concrete	Hard stone	Tiles	Marble	Abrasive materials	Asphalt

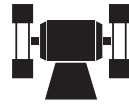
PICTOGRAMS

MACHINES

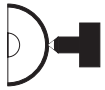
ICONS



Hand guided dressing



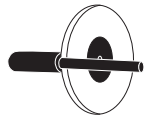
Floorstand grinder



Dressing with diamond



Pedestal and Swing frame grinding



External cylindrical grinding



Stationary cutting-off machine



Surface grinding



Cut-off grinder



Straight grinders



Tool grinding



Hand guided tool



Angle grinder



Internal cylindrical grinding



Angle grinder with brush



Saw sharpening



Angle grinder with cup wheel



Hand and Orbital Sander



0-5° Grinding, brushing, drilling

























20-30° Roughing



90° Cutting-off

ICONS

	Steel		Rails		Asphalt
	Stainless steel		Plastics, lacquers, paints		Concrete
	Steel/stainless steel		Abrasive materials		Soft stone
	Cast iron		Hard stone, granite		Composites
	Cast iron, steel, INOX		Ceramics, tiles		Gel coat
	Nonferrous metals		HSS: tool steel		Wood
	Stone and nonferrous metals		HM-TC: tungsten carbide		
			Stone, universal building materials		

SAFETY INFORMATION

	Pay attention to the safety recommendations		Personal safety
	Use dust mask		Not permitted for side grinding
	Use eye protection		Dry grinding
	Use ear protection		Wet grinding
	Use gloves		No freehand work
	Do not use damaged wheels		

SAFE OPERATION

DOS & DON'TS

DO

- Handle and store grinding tools carefully; use the oldest tools first.
- Prior to mounting or use, grinding wheels must be cleaned and undergo a visual check for cracks or possible damage.
- Ceramic bonded grinding tools must undergo a sound check before mounting.
- Make sure that the speed of the machine (RPM) does not exceed the maximum operating speed specified on the packaging or on the abrasive.
- Ensure that the bore of the grinding tool – with or without thread – fits the shaft of the machine perfectly; and that the wheel flanges are clean, flat, the same size and suitable for the grinding tool to be clamped.
- As intended or supplied, use the intermediate layers between the grinding wheel and wheel flanges.
- Only use machines with protection/guards and ensure their proper condition and fixture before the machine is switched on.
- After each mounting, carry out a test run for at least one minute at the operating speed and ensure machine guard is mounted correctly. In doing so, ensure that any fragments would not be able to hit you or someone else in the event of a possible breakage.
- Eye protection is always recommended for all grinding processes. For off-hand grinding, protective goggles or a safety mask is recommended.
- When working with cut-off or roughing wheels, ensure that the air supply and protective measures sufficiently correspond with the material to be processed. Suitable extraction systems should be fitted for all dry grinding processes.
- Only use machines that are also suitable for grinding tools with hub.
- Before stopping the machine, cut off the supply of cooling lubricant and remove the excess cooling lubricant from the grinding wheel.

DON'T

- Do not use abrasives that are exposed to particularly humid/wet conditions or high temperatures prior to mounting.
- Never use abrasives that have been dropped, damaged or that look like they would not be fit for purpose.
- Never exceed the maximum permissible operating speed specified.
- Do not use wheel flanges with surfaces that are not free of foreign bodies (e. g. grinding swarf), flat or burr-free.
- Do not tighten the clamping device or wheel flange too much.
- Do not use recessed wheel flanges or flanges with recesses for grinding discs or cones.
- Never use force when clamping and do not make any changes to the grinding tool.
- Only use one-way adapters (hubs) once.
- Only switch on the machine when the protection cover is correctly and securely fixed (machine guards or covers should be set in such a way that they divert sparks and grinding particles away from the body).
- Only start the machine if there is no contact between the workpiece and the grinding tool.
- Never work with grinding tools without sufficient air supply (never without breathing apparatus and ear protection, particularly in enclosed spaces) and without personal safety equipment (see pictogram).
- Use a suitable grinding tool – an unsuitable product can create excessive grinding particles and dust.
- Avoid mechanical damage to the grinding wheel as a result of force effects, jolting or heating.
- Never use grinding machines in an improper condition or that contain faulty components.
- Do not use cut-off wheels for grinding work (do not exert a lateral load on any cut-off wheels of shape 41 or 42).
- Never mount more than one grinding tool on one shaft.



CUTTING

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CUTTING


The innovative and economic advantages of our ultra-thin cut-off wheels can be seen especially when cutting thin metal sheets and thin-walled profiles. These are shown particularly by maximum performance, lifetime, clean cutting areas, the lowest burr formation and the low thermal load on the workpiece. Cut-off wheels in standard widths offer not only the most economical solution but also ultimate safety due to the maximum lifetime and stability. For cutting solid materials, pipes, and profiles made from steel and stainless steel, including cast iron. A thorough colour coding system enables you to always find the right product for your material or application.



PREMIUM★★★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL

Certified FeSCLFREE - no contamination


	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	20020204	1	2 x .035 x 1/4	A60	100
	20020206	1	2 x .035 x 3/8	A60	100
	20020207	1	2 x 1/16 x 1/4	A36	50
	20020208	1	2 x 1/16 x 3/8	A36	50
	20020209	1	2 x 1/8 x 1/4	A36	25
	20020210	1	2 x 1/8 x 3/8	A36	25
	20020211	1	2 1/2 x .035 x 1/4	A60	100
	20020212	1	2 1/2 x .035 x 3/8	A60	100
	20020213	1	2 1/2 x 1/16 x 1/4	A36	50
	20020214	1	2 1/2 x 1/16 x 3/8	A36	50
	20020215	1	2 1/2 x 1/8 x 1/4	A36	25
	20020216	1	2 1/2 x 1/8 x 3/8	A36	25
	20020217	1	3 x .035 x 1/4	A60	100
	20020218	1	3 x .035 x 3/8	A60	100
	20020219	1	3 x 1/16 x 1/4	A36	50
	20020220	1	3 x 1/16 x 3/8	A36	50
	20020221	1	3 x 1/8 x 1/4	A36	25
	20020222	1	3 x 1/8 x 3/8	A36	25
	20020223	1	4 x .035 x 1/4	A60	100
	20020224	1	4 x .035 x 3/8	A60	100
	20020225	1	4 x 1/16x1/4	A36	50
	20020226	1	4 x 1/16 x 3/8	A36	50
	20020227	1	4 x 1/8 x 1/4	A36	25
	20020228	1	4 x 1/8 x 3/8	A36	25





ACCESSORIES

Flush-Mount mandrel for mounting small diameter cutoff wheels on all straight shaft grinders

	PART NO.	DESCRIPTION	STANDARD PKG
	20021895	Flush-Mount Mandrel for wheels with either 1/4 or 3/8 arbour holes	1






THINCUT CUT-OFF WHEELS FOR ANGLE GRINDERS

TYROLIT Thin Cut-Off wheels are available in two types, "Long Life" for steel only and our most popular "2 in 1" for both steel and stainless steel. Both types offer fast, free and cool cutting featuring industry leading cutting speed and overall life.



PREMIUM★★★

LONG LIFE - FOR USE ON STEEL ONLY

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	
	913181	1	4 ^{1/2} x .040 x 7/8	A60S-BFXA	25	
	867822	1	4 ^{1/2} x 1/16 x 7/8	A46S-BFXA	25	
	913182	1	5 x .040 x 7/8	A60S-BFXA	25	
	836979	1	5 x 1/16 x 7/8	A46S-BFXA	25	
	183114	1	7 x 1/16 x 7/8	A46S-BFXA	25	
	637069	1	7 x 3/32 x 7/8	A30S-BFXA	25	
	183113	1	9 x 5/64 x 7/8	A46S-BFXA	25	
	785333	1	9 x 5/64 x 7/8	A30S-BFXA	25	
	637070	1	9 x 3/32 x 7/8	A30S-BFXA	25	
	637071	27	4 ^{1/2} x 3/32 x 7/8	A30S-BFXA	25	
	637072	27	5 x 3/32 x 7/8	A30S-BFXA	25	
	 1					
	 27					



THINCUT CUT-OFF WHEELS

OUR MOST POPULAR



PREMIUM★★★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL

Certified **FeSCLFREE** - no contamination



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
77965	1	4 ^{1/2} x .040 x 7/8	A60Q-BFXA	25
384142	1	4 ^{1/2} x .045 (3/64) x 7/8	TA60P-BFXA	50
77963	1	4 ^{1/2} x 1/16 x 7/8	A46Q-BFXA	25
872338	1	4 ^{1/2} x 3/32 x 7/8	A30Q-BFXA	25
77966	1	5 x .040 x 7/8	A60Q-BFXA	25
384143	1	5 x .045 (3/64) x 7/8	TA60P-BFXA	50
77964	1	5 x 1/16 x 7/8	A46Q-BFXA	25
872339	1	5 x 3/32 x 7/8	A30Q-BFXA	25
401205	1	6 x .045 (3/64) x 7/8	TA60P-BFXA	50
920351	1	6 x 1/16 x 7/8	A46Q-BFXA	25
872340	1	6 x 3/32 x 7/8	A30Q-BFXA	25
920352	1	7 x 1/16 x 7/8	A46Q-BFXA	25
872341	1	7 x 3/32 x 7/8	A30Q-BFXA	25
872342	1	7 x 1/8 x 7/8	A30Q-BFXA	25
920353	1	9 x 5/64 x 7/8	A46Q-BFXA	25
872343	1	9 x 3/32 x 7/8	A30Q-BFXA	25
872344	1	9 x 1/8 x 7/8	A30Q-BFXA	25
87215	27	4 ^{1/2} x .040 x 7/8	A60Q-BFXA	25
472863	27	4 ^{1/2} x .045 (3/64) x 7/8	TA60P-BFXA	25
238987	27	4 ^{1/2} x 1/16 x 7/8	A60Q-BFXA	25
872346	27	4 ^{1/2} x 3/32 x 7/8	A30Q-BFXA	25
87216	27	5 x .040 x 7/8	A60Q-BFXA	25
458870	27	5 x .045 (3/64) x 7/8	TA60P-BFXA	25
238988	27	5 x 1/16 x 7/8	A60Q-BFXA	25
872347	27	5 x 3/32 x 7/8	A30Q-BFXA	25
458871	27	6 x .045 (3/64) x 7/8	TA60P-BFXA	25
291587	27	6 x 1/16 x 7/8	A46R-BFXA	25
872352	27	9 x 9/64 x 7/8	A30Q-BFXA	25

"CUT & GRIND" WHEELS FOR HIGH PERFORMANCE CUTTING, GRINDING, DEBURRING WITH 1 WHEEL

757090	27	4 ^{1/2} x 1/16 x 7/8	A30Q-BFXA	25
743945	27	5 x 3/32 x 7/8	A30Q-BFXA	25
743946	27	6 x 7/64 x 7/8	A30Q-BFXA	25
743947	27	7 x 9/64 x 7/8	A30Q-BFXA	25

CUTOFF WHEELS FOR USE ON CIRCULAR SAWS


764722	1	7 x 1/16 x 5/8	A60Q-BFXA	25
660284	1	8 x 1/16 x 5/8	A30Q-BFXA	25



PREMIUM★★★

INOX - FOR USE ON STAINLESS STEEL ONLY


Certified Fe S,CL FREE - no contamination

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	
	610935	1	4 ^{1/2} x 1/32 x 7/8	A60R-BFXA	25	
	41502	1	4 ^{1/2} x .040 x 7/8	A60R-BFXA	25	
	35952	1	4 ^{1/2} x 1/16 x 7/8	A46R-BFXA	25	
	41489	1	4 ^{1/2} x 5/64 x 7/8	A30R-BFXA	25	
	41491	1	4 ^{1/2} x 3/32 x 7/8	A30R-BFXA	25	
	610937	1	5 x 1/32 x 7/8	A60R-BFXA	25	
	41503	1	5 x .040 x 7/8	A60R-BFXA	25	
	35954	1	5 x 1/16 x 7/8	A46R-BFXA	25	
	41492	1	5 x 5/64 x 7/8	A30R-BFXA	25	
	41493	1	5 x 3/32 x 7/8	A30R-BFXA	25	
	41494	1	5 x 1/8 x 7/8	A30R-BFXA	25	
	41495	1	6 x 5/64 x 7/8	A30R-BFXA	25	
	41499	1	7 x 5/64 x 7/8	A30R-BFXA	25	
	35946	1	7 x 3/32 x 7/8	A30R-BFXA	25	
	41500	1	9 x 5/64 x 7/8	A30R-BFXA	25	
	35950	1	9 x 3/32 x 7/8	A30R-BFXA	25	
	41501	1	9 x 1/8 x 7/8	A30R-BFXA	25	
	1					
	27					
		282149	27	4 ^{1/2} x 1/32 x 7/8	A60R-BFXA	25
	35937	27	4 ^{1/2} x 5/64 x 7/8	A30R-BFXA	25	
	41504	27	4 ^{1/2} x 3/32 x 7/8	A30R-BFXA	25	
	282150	27	5 x 1/32 x 7/8	A60R-BFXA	25	
	35944	27	5 x 5/64 x 7/8	A30R-BFXA	25	
	41505	27	5 x 3/32 x 7/8	A30R-BFXA	25	
	291587	27	6 x 1/16 x 7/8	A46R-BFXA	25	
	41507	27	6 x 5/64 x 7/8	A30R-BFXA	25	
	291588	27	7 x 1/16 x 7/8	A46R-BFXA	25	



PREMIUM★★★


FOCUB - FOR USE ON ALL CAST MATERIALS/FOUNDRY WORK

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	929886	27	5 x 3/32 x 7/8	ZA30R-BFXA	25
	929887	27	7 x 9/64 x 7/8	ZA30R-BFXA	25
	855818	27	9 x 9/64 x 7/8	ZA30P-BFXA	25
	929889	27	9 x 9/64 x 7/8	ZA30R-BFXA	25
27					



PREMIUM★★★


ALU - FOR USE ON ALUMINUM, NON-FERROUS ONLY

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	
	840247	1	4 1/2 x .040 x 7/8	A60N-BFXA	25	
	623553	1	4 1/2 x 1/16 x 7/8	A46N-BFXA	25	
	257533	1	5 x .040 x 7/8	A60N-BFXA	25	
	739982	1	5 x 1/16 x 7/8	A46N-BFXA	25	
	39624	1	4 1/2 x 3/32 x 7/8	A30N-BFXA	25	
	39321	1	5 x 3/32 x 7/8	A30N-BFXA	25	
	525355	1	7 x 5/64 x 7/8	A30N-BFXA	25	
	32141	1	7 x 3/32 x 7/8	A30N-BFXA	25	
	32142	1	9 x 3/32 x 7/8	A30N-BFXA	25	
		82646	27	4 1/2 x 3/32 x 7/8	A30N-BFXA	25
		366888	27	5 x 3/32 x 7/8	A30N-BFXA	25



BASIC★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	
	222996	1	4 x 3/32 x 5/8	A30-BF	25	
	222899	1	4 1/2 x 1/16 x 7/8	A46-BF	25	
	222997	1	4 1/2 x 3/32 x 7/8	A30-BF	25	
	222900	1	5 x 1/16 x 7/8	A46-BF	25	
	222998	1	5 x 3/32 x 7/8	A30-BF	25	
	222999	1	6 x 3/32 x 7/8	A30-BF	25	
	633506	1	7 x 1/16 x 7/8	A46-BF	25	
	223000	1	7 x 1/8 x 7/8	A30-BF	25	
	633509	1	9 x 5/64 x 7/8	A46-BF	25	
	223002	1	9 x 1/8 x 7/8	A30-BF	25	
		223021	27	4 1/2 x 3/32 x 7/8	A30-BF	25
		223022	27	5 x 3/32 x 7/8	A30-BF	25






CUT-OFF WHEELS

TYROLIT provides a wide range of large diameter cut-off wheels from 12" to 26" for portable, stationary, gas and electric saws. All wheels are designed and engineered to meet the unique requirements of both the specific machine being used and the material being cut. All wheels feature industry leading cutting performance and safety standards.



PREMIUM★★★

FOR USE ON FERROUS METALS

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	289240	1	12 x 1/8 x 1	A24R	10
	289335	1	12 x 1/8 x 20mm	A24R	10
	289464	1	14 x 1/8 x 1	A24R	10
	289475	1	14 x 1/8 x 20mm	A24R	10



FOR CUTTING RAIL

	20028819	1	14 x 1/8 x 1	ZA30-BFRAIL	10
	20028830	1	16 x 1/8 x 1	ZA30-BFRAIL	10



PREMIUM★★★



FOR USE ON DUCTILE AND CAST IRON

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
 	289442	1	12 x 1/8 x 1	AC24R	10
	289456	1	12 x 1/8 x 20mm	AC24R	10
	289472	1	14 x 1/8 x 1	AC24R	10
	289477	1	14 x 1/8 x 20mm	AC24R	10



PREMIUM★★★

FOR USE ON CONCRETE, STONE, MASONARY

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
 	289245	1	12 x 1/8 x 1	C24R	10
	289459	1	12 x 1/8 x 20mm	C24R	10
	289474	1	14 x 1/8 x 1	C24R	10
	289482	1	14 x 1/8 x 20mm	C24R	10



PREMIUM★★★



FOR USE ON FERROUS METALS

	PART NO.	TYPE	Dimensions	SPECIFICATION	STANDARD PKG
 	779426	1	12 x 3/32 x 1	A36N4BF71A2	10
	779428	1	14 x 3/32 x 1	A36N4BF71A2	10
	780938	1	16 x 9/64 x 1	A36N5BF71M	10
	406173	1	12 x 1/8 x 1	A30N-BF02M	10
	408229	1	14 x 9/64 x 1	A30N-BF02M	10
	408230	1	16 x 9/64 x 1	A30N-BF02M	10
	327104	1	12 x 3/32 x 1	A46O4BF43M	10
	460076	1	14 x 1/8 x 1	A46O4BF43M	10
	324794	1	16 x 1/8 x 1	A46O4BF43M	10
	33756	1	10 x 3/32 x 1	A30O4BF43A2	10
	16888	1	12 x 9/64 x 1	A30P4BF71M	10
	211037	1	14 x 5/32 x 1	A30P4BF71M	10
	750419	1	16 x 11/64 x 1	A24P4BF71M 100	10
	713973	1	16 x 11/64 x 1	A24R4BF71M 100	10
	1751	1	18 x 3/16 x 1	A24P5BF71M	10
	84407	1	20 x 3/16 x 1	A24P5BF71M	10
	211931	1	20 x 3/16 x 1	A24R5BF71M	10
	514402	1	20 x 3/16 x 40mm	A24P4BF71M	10
	227927	1	24 x 15/64 x 1 ^{3/4}	A24P4BF71M	10
	174505	1	26 x 9/32 x 1 ^{1/2}	MA24P5BF71M	10



PREMIUM★★★



ALU-FOCUR - FOR USE ON ALUMINUM AND CAST MATERIALS/FOUNDRY WORK

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
 	210238	1	16 x 11/64 x 1	M6AC24P4BF43M2 100	10
	210513	1	20 x 7/32 x 1	M6AC24P4BF43M2 100	10
	568455	1	20 x 3/16 x 1	MA30P48F91M	10



BASIC★

2 IN 1 - FOR USE ON ALL PORTABLE CHOPSAWS

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
 	FOR USE ON ALL MATERIALS LIGHT GAUGE AND SOLIDS our most popular				
	20041210	1	14 x 3/32 x 1	A46BF	10
	FOR USE ON LIGHT GAUGE TUBING AND EXTRUSIONS				
	223032	1	12 x 3/32 x 1	A46-BF	10
	223033	1	14 x 3/32 x 1	A46-BF	10




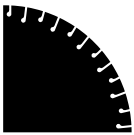
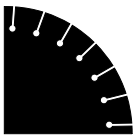
CUTTING | DIAMOND

TYROLIT provides laser welded and directly sintered dry-cutting saws that meet the highest standards of quality and safety. With TYROLIT dry-cutting saws, even plastics, fibreglass or bullet-proof glass can be machined in addition to countless standard materials such as hard stone, concrete or asphalt. Innovative products, such as ultra-thin and sound insulated dry cut-off saws, underline the continuous further development and optimisation of diamond products.



PREMIUM★★★


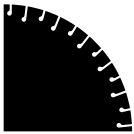
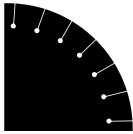
Construction/materials able to be machined: Universal building materials such as concrete, clay brick, natural stone, steel etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	CLASSIFICATION
	464537	C6W	4 ^{1/2} x 5/64 x 7/8	DCU★★★	1	
	464539	C6W	5 x 5/64 x 7/8	DCU★★★	1	
	464540	C6W	6 x 3/32 x 7/8	DCU★★★	1	
	464543	C6W	7 x 3/32 x 7/8	DCU★★★	1	
	464544	C6W	9 x 3/32 x 7/8	DCU★★★	1	
	474743	C6R	4 ^{1/2} x 5/64 x 7/8	DCU★★★-FC	1	4in1
	474746	C6R	5 x 5/64 x 7/8	DCU★★★-FC	1	4in1
	474751	C6R	6 x 3/32 x 7/8	DCU★★★-FC	1	4in1
	474752	C6R	7 x 3/32 x 7/8	DCU★★★-FC	1	4in1
	474753	C6R	9 x 3/32 x 7/8	DCU★★★-FC	1	4in1
 C6W / C6R  C3G	474771	C3G	9 x 3/32 x 7/8	DCU★★★-S	1	Silent



PREMIUM★★★


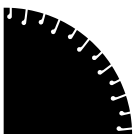
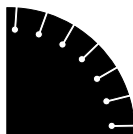
Construction/materials able to be machined: Concrete, reinforced concrete, reinforced steel, hard materials etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	CLASSIFICATION	
   <p>C6W C3R</p>	465488	C6W	4 ^{1/2} x 5/64 x 7/8	DCC★★★	1		
	465489	C6W	5 x 5/64 x 7/8	DCC★★★	1		
	465490	C6W	6 x 3/32 x 7/8	DCC★★★	1		
	465491	C6W	7 x 3/32 x 7/8	DCC★★★	1		
	465492	C6W	9 x 3/32 x 7/8	DCC★★★	1		
	598008	C3R	5 x 5/64 x 7/8	DCC★★★-FC	1	Wall slotter	
	598010	C3R	5 ^{1/2} x 3/32 x 7/8	DCC★★★-FC	1	Wall slotter	
	598011	C3R	6 x 3/32 x 7/8	DCC★★★-FC	1	Wall slotter	





PREMIUM★★★



Construction/materials able to be machined: Hard concrete, granite, gneiss, porphyry, paving slabs, hard limestone etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	CLASSIFICATION	
   <p>C6W C3 / C3W</p>	464697	C6W	4 ^{1/2} x 5/64 x 7/8	DCH★★★	1		
	464698	C6W	5 x 5/64 x 7/8	DCH★★★	1		
	464699	C6W	6 x 3/32 x 7/8	DCH★★★	1		
	464700	C6W	7 x 3/32 x 7/8	DCH★★★	1		
	464701	C6W	9 x 3/32 x 7/8	DCH★★★	1		
	475790	C3	4 ^{1/2} x 3/64 x 7/8	DCH★★★-FC	1	Ultra-thin	
	475793	C3	5 x 3/64 x 7/8	DCH★★★-FC	1	Ultra-thin	
	475797	C3W	7 x 5/64 x 7/8	DCH★★★-FC	1		
	475800	C3	9 x 5/64 x 7/8	DCH★★★-FC	1	Ultra-thin	

**PREMIUM**★★★**Construction/materials able to be machined:** ceramic tiles.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  1A1R	177670	1A1R	4 x 1/16 x 7/8	DCPT2★★★	1
	639559	1A1R	4 ^{1/2} x 3/64 x 7/8	DCPT2★★★	1
	639560	1A1R	5 x 3/64 x 7/8	DCPT2★★★	1
	639634	1A1R	7 x 1/16 x 7/8	DCPT2★★★	1
	639635	1A1R	9 x 1/16 x 7/8	DCPT2★★★	1


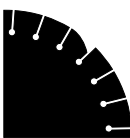

**PREMIUM**★★★**Construction/materials able to be machined:** Marble, fibreglass reinforced plastic, PVC, carbon fibre, composites, fibreglass, bulletproof glass etc.**Details:** DCM*** – with electroplated coating, also suitable for rescue operations.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  UC3	315968	UC3	4 ^{1/2} x 3/32 x 7/8	DCM★★★	1
	315967	UC3	5 x 3/32 x 7/8	DCM★★★	1
	547611	UC3	6 x 1/8 x 7/8	DCM★★★	1
	315966	UC3	7 x 1/8 x 7/8	DCM★★★	1
	315965	UC3	9 x 1/8 x 7/8	DCM★★★	1



PREMIUM★★★


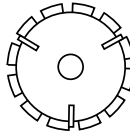
Construction/materials able to be machined: abrasive concrete, gas concrete, floor pavement, plaster, pumice stone etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  <p>C3SW</p>  <p>C3W</p>	465976	C3W	4 ¹ / ₂ x 5/64 x 7/8	DCAB★★★	1
	465977	C3W	5 x 5/64 x 7/8	DCAB★★★	1
	465979	C3W	6 x 5/64 x 7/8	DCAB★★★	1
	465980	C3SW	9 x 3/32 x 7/8	DCAB★★★	1



PREMIUM★★★


Construction/materials able to be machined: abrasive concrete, gas concrete, floor pavement, plaster, pumice stone etc.

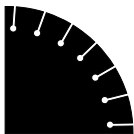
	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  <p>FRSU</p>	563873	FRSU	4 ¹ / ₂ x 9/32 x 7/8	DCAB★★★	1
	535829	FRSU	5 x 9/32 x 7/8	DCAB★★★	1



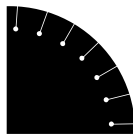
BASIC★

Construction/materials able to be machined: Universal building materials such as concrete, clay brick, natural stone, steel etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	CLASSIFICATION
	466082	C3	4 x 5/64 x 7/8	DCU★	1	
	466083	C3	4 1/2 x 5/64 x 7/8	DCU★	1	
	466084	C3	5 x 5/64 x 7/8	DCU★	1	
	466086	C3	6 x 3/32 x 7/8	DCU★	1	
	466087	C3	7 x 3/32 x 7/8	DCU★	1	
	466090	C3	9 x 3/32 x 7/8	DCU★	1	
	467267	C3R	4 1/2 x 5/64 x 7/8	DCU★-FC	1	Turbo
	467268	C3R	5 x 5/64 x 7/8	DCU★-FC	1	Turbo
	467271	C3R	6 x 3/32 x 7/8	DCU★-FC	1	Turbo
	467273	C3R	7 x 3/32 x 7/8	DCU★-FC	1	Turbo
467276	C3R	9 x 3/32 x 7/8	DCU★-FC	1	Turbo	



C3




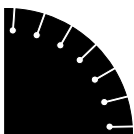
C3R



BASIC★

Construction/materials able to be machined: Hard concrete, granite, gneiss, porphyry, paving slabs, hard limestone etc.

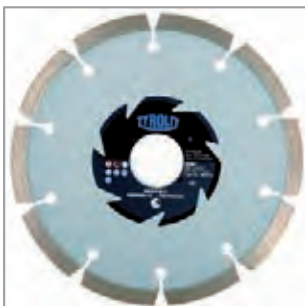

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	467386	C3	4 1/2 x 5/64 x 7/8	DCH★	1
	467387	C3	5 x 5/64 x 7/8	DCH★	1
	467388	C3	7 x 3/32 x 7/8	DCH★	1
	467389	C3	9 x 3/32 x 7/8	DCH★	1



C3


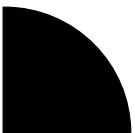


Construction/materials able to be machined: abrasive concrete, gas concrete, floor pavement, plaster, pumice stone etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  C3W	465672	C3W	4 1/2 x 5/64 x 7/8	DCAB ★	1
	465674	C3W	5 x 5/64 x 7/8	DCAB ★	1
	465677	C3W	6 x 5/64 x 7/8	DCAB ★	1
	465686	C3W	9 x 3/32 x 7/8	DCAB ★	1



Construction/materials able to be machined: ceramic tiles.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  1A1R	475975	1A1R	4 x 1/16 x 7/8	DCT ★	1
	475978	1A1R	4 1/2 x 1/16 x 7/8	DCT ★	1
	475980	1A1R	5 x 1/16 x 7/8	DCT ★	1
	475983	1A1R	7 x 5/64 x 7/8	DCT ★	1
	475986	1A1R	9 x 5/64 x 7/8	DCT ★	1




CUTTING | DIAMOND

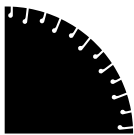
TYROLIT provides laser welded and directly sintered dry-cutting saws that meet the highest standards of quality and safety. With TYROLIT dry-cutting saws, even plastics, fibreglass or bullet-proof glass can be machined in addition to countless standard materials such as hard stone, concrete or asphalt. Innovative products, such as ultra-thin and sound insulated dry cut-off saw blades, underline the continuous further development and optimisation of diamond products.



PREMIUM★★★

Construction/materials able to be machined: Universal building materials such as concrete, clay brick, natural stone, steel etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	464545	C6W	12 x 3/32 x 20mm	DCU★★★	1
	464546	C6W	12 x 3/32 x 7/8	DCU★★★	1
	464549	C6W	12 x 3/32 x 1	DCU★★★	1
	464550	C6W	12 x 3/32 x 30mm	DCU★★★	1
	464551	C6W	14 x 1/8 x 20mm	DCU★★★	1
	464552	C6W	12 x 3/32 x 30mm	DCU★★★	1
	464553	C6W	14 x 1/8 x 7/8	DCU★★★	1
	464554	C6W	14 x 1/8 x 1	DCU★★★	1
	464555	C6W	16 x 1/8 x 20mm	DCU★★★	1
	464556	C6W	14 x 1/8 x 30mm	DCU★★★	1





C6W



PREMIUM ★★★


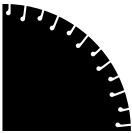
Construction/materials able to be machined: Concrete, reinforced concrete, reinforced steel, hard materials etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  C6W	465493	C6W	12 x 3/32 x 20mm	DCC ★★★	1
	465494	C6W	12 x 3/32 x 7/8	DCC ★★★	1
	465495	C6W	12 x 3/32 x 1	DCC ★★★	1
	465496	C6W	14 x 1/8 x 20mm	DCC ★★★	1
	465498	C6W	14 x 1/8 x 7/8	DCC ★★★	1
	465499	C6W	14 x 1/8 x 1	DCC ★★★	1
	465501	C6W	16 x 1/8 x 20mm	DCC ★★★	1



PREMIUM ★★★

Construction/materials able to be machined: Hard concrete, granite, gneiss, porphyry, paving slabs, hard limestone etc.



	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  C6W	464702	C6W	12 x 3/32 x 20mm	DCH ★★★	1
	464703	C6W	12 x 3/32 x 7/8	DCH ★★★	1
	464706	C6W	12 x 3/32 x 1	DCH ★★★	1
	464707	C6W	14 x 1/8 x 20mm	DCH ★★★	1
	464710	C6W	14 x 1/8 x 7/8	DCH ★★★	1
	464711	C6W	14 x 1/8 x 1	DCH ★★★	1
	464712	C6W	16 x 1/8 x 20mm	DCH ★★★	1



PREMIUM★★★

Construction/materials able to be machined: Asphalt, sandstone, extremely abrasive materials.



Details: DCA*** - laser-welded, protective segments to guard against the undercutting effect.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	
  C7SW	465982	C7SW	12 x 3/32 x 20mm	DCA★★★	1	
	465983	C7SW	12 x 3/32 x 7/8	DCA★★★	1	
	465984	C7SW	12 x 3/32 x 1	DCA★★★	1	
	465985	C7SW	14 x 1/8 x 20mm	DCA★★★	1	
	465987	C7SW	14 x 1/8 x 1	DCA★★★	1	
	465640	C73SW	12 x 3/32 x 20mm	DCA+C★★★	1	
	465642	C73SW	14 x 1/8 x 1	DCA+C★★★	1	



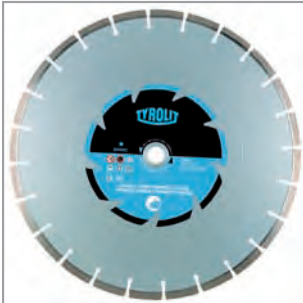

BASIC★

Construction/materials able to be machined: Universal building materials such as concrete, clay brick, natural stone, steel etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	CLASSIFICATION
  C3W	466093	C3W	12 x 1/8 x 20mm	DCU★	1	
	466094	C3W	12 x 1/8 x 7/8	DCU★	1	
	466095	C3W	12 x 1/8 x 1	DCU★	1	
	466096	C3W	14 x 1/8 x 20mm	DCU★	1	
	466098	C3W	14 x 1/8 x 7/8	DCU★	1	
	466099	C3W	14 x 1/8 x 1	DCU★	1	
	529399	C3W	16 x 1/8 x 1	DCU★	1	
	529401	C3W	18 x 1/8 x 1	DCU★	1	
	467280	C3R	12 x 1/8 x 20mm	DCU★-FC	1	Turbo
	467281	C3R	12 x 1/8 x 7/8	DCU★-FC	1	Turbo
	467282	C3R	12 x 1/8 x 1	DCU★-FC	1	Turbo
	467285	C3R	14 x 1/8 x 20mm	DCU★-FC	1	Turbo
	467288	C3R	14 x 1/8 x 7/8	DCU★-FC	1	Turbo
	467289	C3R	14 x 1/8 x 1	DCU★-FC	1	Turbo





Construction/materials able to be machined: Hard concrete, granite, gneiss, porphyry, paving slabs, hard limestone etc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  C3W	467391	C3W	12 x 1/8 x 20mm	DCH★	1
	467392	C3W	12 x 1/8 x 7/8	DCH★	1
	467394	C3W	12 x 1/8 x 1	DCH★	1
	467395	C3W	14 x 1/8 x 20mm	DCH★	1
	467396	C3W	14 x 1/8 x 7/8	DCH★	1
	467400	C3W	14 x 1/8 x 1	DCH★	1



Construction/materials able to be machined: Asphalt, sandstone, extremely abrasive materials.

Details: DCA** - protective segments to guard against the undercutting effect.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  C1SW	465649	C1SW	12 x 3/32 x 20mm	DCA★	1
	465656	C1SW	12 x 3/32 x 7/8	DCA★	1
	465650	C1SW	12 x 3/32 x 1	DCA★	1
	465651	C1SW	14 x 1/8 x 20mm	DCA★	1
	465652	C1SW	14 x 1/8 x 1	DCA★	1
	529402	C1SW	16 x 1/8 x 1	DCA★	1
	529403	C1SW	18 x 1/8 x 1	DCA★	1





GRINDING

— ANGLE GRINDERS	40
— CUP STONES/DIAMOND	45
— STRAIGHT SHAFT GRINDERS	47
— CARBIDE BURRS	49
— PLUGS & CONES	53



GRINDING

In order to carry out work without any vibrations and health risks, TYROLIT manufactures and tests all rough grinding wheels according to the requirements set out in EN12413. A thorough colour guidance system ensures that when it comes to rough grinding wheels too, users can always find the right product for the material to be machined. The range meets the present demands of cost-effective working, high stock removal performance, simple system handling and above-average wheel life.



PREMIUM★★★

LONG LIFE - FOR HEAVY DUTY APPLICATIONS IN STEEL ONLY

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	5281	27	4 x 9/32 x 3/8	A30S-BFX	10
	5279	27	4 x 9/32 x 5/8	A30S-BFX	10
	5294	27	4 1/2 x 9/32 x 7/8	A30S-BFX	10
	20041671	27	4 1/2 x 9/32 x 5/8-11	A30S-BFX	10
	5314	27	5 x 9/32 x 7/8	A30S-BFX	10
	20041673	27	5 x 9/32 x 5/8-11	A30S-BFX	10
	5331	27	6 x 9/32 x 7/8	A30S-BFX	10
	20041675	27	6 x 9/32 x 5/8-11	A30S-BFX	10
	5363	27	7 x 9/32 x 7/8	A30S-BFX	10
	20041677	27	7 x 9/32 x 5/8-11	A30S-BFX	10
	5413	27	9 x 9/32 x 7/8	A30S-BFX	10
	20041679	27	9 x 9/32 x 5/8-11	A30S-BFX	10



27

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK

5288	27	4 1/2 x 5/32 x 7/8	A3W0S-BFX	10
20041670	27	4 1/2 x 5/32 x 5/8-11	A30S-BFX	10
5306	27	5 x 5/32 x 7/8	A30S-BFX	10
20041672	27	5 x 5/32 x 5/8-11	A30S-BFX	10
843037	27	6 x 5/32 x 7/8	A30S-BFX	10
20041674	27	6 x 5/32 x 5/8-11	A30S-BFX	10
5350	27	7 x 5/32 x 7/8	A30S-BFX	10
20041676	27	7 x 5/32 x 5/8-11	A30S-BFX	10
5407	27	9 x 5/32 x 7/8	A30S-BFX	10
20041678	27	9 x 5/32 x 5/8-11	A30S-BFX	10
637073	27	7 x 1/8 x 7/8	A30S-BFXA	25
637074	27	9 x 1/8 x 7/8	A30S-BFXA	25



PREMIUM★★★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL

Certified **FeSCLFREE** - no contamination



27



28CON

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
5270	27	3 x 1/4 x 3/8	A30Q-BFX	10
5278	27	4 x 9/32 x 5/8	A30Q-BFX	10
5293	27	4 1/2 x 9/32 x 7/8	A30Q-BFX	10
20041661	27	4 1/2 x 9/32 x 5/8-11	A30Q-BFX	10
5313	27	5 x 9/32 x 7/8	A30Q-BFX	10
20041663	27	5 x 9/32 x 5/8-11	A30Q-BFX	10
5330	27	6 x 9/32 x 7/8	A30Q-BFX	10
20041665	27	6 x 9/32 x 5/8-11	A30Q-BFX	10
1421	27	7 x 9/32 x 7/8	A30Q-BFX	10
20041667	27	7 x 9/32 x 5/8-11	A30Q-BFX	10
5412	27	9 x 9/32 x 7/8	A30Q-BFX	10
20041669	27	9 x 9/32 x 5/8-11	A30Q-BFX	10
5267	28CON	7 x 9/32 x 7/8	A30Q-BFX	10
20041700	28CON	7 x 9/32 x 5/8-11	A30Q-BFX	10

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK

23875	27	4 x 5/32 x 5/8	A30Q-BFX	10
5287	27	4 1/2 x 5/32 x 7/8	A30Q-BFX	10
20041660	27	4 1/2 x 5/32 x 5/8-11	A30Q-BFX	10
5308	27	5 x 5/32 x 7/8	A30Q-BFX	10
20041662	27	5 x 5/32 x 5/8-11	A30Q-BFX	10
734378	27	6 x 5/32 x 7/8	A30Q-BFX	10
20041664	27	6 x 5/32 x 5/8-11	A30Q-BFX	10
5349	27	7 x 5/32 x 7/8	A30Q-BFX	10
20041666	27	7 x 5/32 x 5/8-11	A30Q-BFX	10
5406	27	9 x 5/32 x 7/8	A30Q-BFX	10
20041668	27	9 x 5/32 x 5/8-11	A30Q-BFX	10
458874	27	5 x 1/8 x 7/8	TA30P-BFXA	25
458876	27	6 x 1/8 x 7/8	TA30P-BFXA	25
458878	27	7 x 1/8 x 7/8	TA30P-BFXA	25

**PREMIUM★★★**

ALU - FOR USE ON ALUMINUM AND NON-FERROS METALS



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
45919	27	4 x 9/32 x 5/8	A36N-BFX	10
5295	27	4 ^{1/2} x 9/32 x 7/8	A36N-BFX	10
20041689	27	4 ^{1/2} x 9/32 x 5/8-11	A36N-BFX	10
5316	27	5 x 9/32 x 7/8	A36N-BFX	10
20041690	27	5 x 9/32 x 5/8-11	A36N-BFX	10
5365	27	7 x 9/32 x 7/8	A36N-BFX	10
20041691	27	7 x 9/32 x 5/8-11	A36N-BFX	10
5416	27	9 x 9/32 x 7/8	A36N-BFX	10
20041693	27	9 x 9/32 x 5/8-11	A36N-BFX	10

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK



27

5289	27	4 ^{1/2} x 5/32 x 7/8	A36N-BFX	10
20041688	27	4 ^{1/2} x 5/32 x 5/8-11	A36N-BFX	10
46586	27	9 x 5/32 x 7/8	A36N-BFX	10
20041692	27	9 x 5/32 x 5/8-11	A36N-BFX	10

**PREMIUM★★★**

FOCUR - FOR USE ON ALL CAST MATERIALS/FOUNDRY WORK



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
290707	27	4 ^{1/2} x 9/32 x 7/8	ZA24R-BFX	10
20041694	27	4 ^{1/2} x 9/32 x 5/8-11	ZA24R-BFX	10
233756	27	5 x 9/32 x 7/8	ZA24N-BFX	10
233765	27	5 x 9/32 x 7/8	ZA24P-BFX	10
233773	27	5 x 9/32 x 7/8	ZZA24R-BFX	10
20041695	27	5 x 9/32 x 5/8-11	ZZA24R-BFX	10
233759	27	7 x 9/32 x 7/8	ZA24N-BFX	10
233768	27	7 x 9/32 x 7/8	ZA24P-BFX	10
233776	27	7 x 9/32 x 7/8	ZZA24R-BFX	10
20041696	27	7 x 9/32 x 5/8-11	ZZA24R-BFX	10
929018	27	7 x 9/32 x 7/8	ZZA24S-BFX	10
20041698	27	7 x 9/32 x 5/8-11	ZZA24S-BFX	10
233762	27	9 x 9/32 x 7/8	ZA24N-BFX	10
233771	27	9 x 9/32 x 7/8	ZA24P-BFX	10
233778	27	9 x 9/32 x 7/8	ZZA24R-BFX	10
20041697	27	9 x 9/32 x 5/8-11	ZZA24R-BFX	10
929020	27	9 x 9/32 x 7/8	ZZA24S-BFX	10
20041699	27	9 x 9/32 x 5/8-11	ZZA24S-BFX	10



27

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK

233774	27	7 x 5/32 x 7/8	ZZA24R-BFX	10
233760	27	9 x 5/32 x 7/8	ZA24N-BFX	10
233777	27	9 x 5/32 x 7/8	ZZA24R-BFX	10

**PREMIUM★★★**

INOX - FOR USE ON STAINLESS STEEL

Certified **FeSCLFREE** - no contamination

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	117058	27	4 x 9/32 x 5/8	A30R-BFX	10
	117065	27	4 1/2 x 9/32 x 7/8	A30R-BFX	10
	20041681	27	4 1/2 x 9/32 x 5/8-11	A30R-BFX	10
	117070	27	5 x 9/32 x 7/8	A30R-BFX	10
	20041683	27	5 x 9/32 x 5/8-11	A30R-BFX	10
	117072	27	7 x 9/32 x 7/8	A30R-BFX	10
	20041685	27	7 x 9/32 x 5/8-11	A30R-BFX	10
	117074	27	9 x 9/32 x 7/8	A30R-BFX	10
	20041687	27	9 x 9/32 x 5/8-11	A30R-BFX	10
		13616	28CON	9 x 9/32 x 7/8	A30R-BFX



27



28CON

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK

117064	27	4 1/2 x 5/32 x 7/8	A30R-BFX	10
20041680	27	4 1/2 x 5/32 x 5/8-11	A30R-BFX	10
117068	27	5 x 5/32 x 7/8	A30R-BFX	10
20041682	27	5 x 5/32 x 5/8-11	A30R-BFX	10
117071	27	7 x 5/32 x 7/8	A30R-BFX	10
20041684	27	7 x 5/32 x 5/8-11	A30R-BFX	10
117073	27	9 x 5/32 x 7/8	A30R-BFX	10
20041686	27	9 x 5/32 x 5/8-11	A30R-BFX	10

**PREMIUM★★★**

3 IN 1 - FOR USE ON STEEL, STAINLESS STEEL AND CAST MATERIALS



Certified **FeSCLFREE** - no contamination

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	466749	27	5 x 9/32 x 7/8	ZA30Q-BFR	10
	466754	27	7 x 9/32 x 7/8	ZA30Q-BFR	10
	466762	27	9 x 9/32 x 7/8	ZA30Q-BFR	10
27					



BASIC★



2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  27	20008290	27	3 x 1/4 x 3/8	A30-BF	10
	20006651	27	4 x 1/4 x 3/8	A30-BF	10
	222854	27	4 x 1/4 x 5/8	A30-BF	10
	222858	27	4 1/2 x 1/4 x 7/8	A30-BF	10
	20006655	27	4 1/2 x 1/4 x 5/8-11	A30-BF	10
	222860	27	5 x 1/4 x 7/8	A30-BF	10
	20010581	27	5 x 1/4 x 5/8-11	A30-BF	10
	222861	27	6 x 1/4 x 7/8	A30-BF	10
	20016036	27	6 x 1/4 x 5/8-11	A30-BF	10
	222863	27	7 x 1/4 x 7/8	A30-BF	10
	20006661	27	7 x 1/4 x 5/8-11	A30-BF	10
	222865	27	9 x 1/4 x 7/8	A30-BF	10
	20006665	27	9 x 1/4 x 5/8-11	A30-BF	10



BASIC★

STONE - FOR USE ON STONE, CONCRETE, MASONRY AND BUILDING MATERIALS

	TYPE NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  27	222872	27	4 x 1/4 x 5/8	C30-BF	10
	222873	27	4 1/2 x 1/4 x 7/8	C30-BF	10
	20006656	27	4 1/2 x 1/4 x 5/8-11	C30-BF	10
	222889	27	5 x 1/4 x 7/8	C30-BF	10
	20010584	27	5 x 1/4 x 5/8-11	C30-BF	10
	222892	27	6 x 1/4 x 7/8	C30-BF	10
	222043	27	7 x 1/4 x 7/8	C30-BF	10
	20006662	27	7 x 1/4 x 5/8-11	C30-BF	10
	222898	27	9 x 1/4 x 7/8	C30-BF	10
	20006666	27	9 x 1/4 x 5/8-11	C30-BF	10





CUP WHEELS



PREMIUM ★★★ FOR USE ON STEEL



Construction/materials able to be machined: Maximum stock removal performance and tool life for grinding jobs on large areas, heavy workpieces, edge grinding, bevelling and grinding welding seams.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  11ZB	20039228	11ZB	4 x 2 x 5/8 - 11	A20	2
	20039229	11ZB	5 x 2 x 5/8 - 11	A16	2
	20039230	11ZB	6 x 2 x 5/8 - 11	A16	2



PREMIUM ★★★ FOR USE ON STAINLESS STEEL



Construction/materials able to be machined: Maximum stock removal performance and tool life for grinding jobs on large areas, heavy workpieces, edge grinding, bevelling and grinding welding seams.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  11ZB	20039237	11ZB	4 x 2 x 5/8 - 11	52A16	2
	20039238	11ZB	5 x 2 x 5/8 - 11	52A16	2
	20039239	11ZB	6 x 2 x 5/8 - 11	52A16	2

**CUP WHEELS****PREMIUM★★★**



FOR USE ON CONCRETE, STONE AND BUILDING MATERIALS

Construction/materials able to be machined: Maximum stock removal rates and lifetime for grinding tasks on large areas. Grinding imperfections on concrete surfaces, bevelling and pre-grinding artificial stone and patio flags, surface grinding on marble, slate and granite.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  11ZB	20039234	11ZB	4 x 2 x 5/8 - 11	C20	2
	20039235	11ZB	5 x 2 x 5/8 - 11	C20	2
	20039236	11ZB	6 x 2 x 5/8 - 11	C20	2

**PREMIUM★★★**

FOR USE ON ALL CAST MATERIALS/FOUNDRY WORK

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  11ZB	20039231	11ZB	4 x 2 x 5/8 - 11	ZA16	2
	20039232	11ZB	5 x 2 x 5/8 - 11	ZA16	2
	20039233	11ZB	6 x 2 x 5/8 - 11	ZA16	2





GRINDING | DIAMOND

Cost-effective work combined with high stock removal performance and long lifetime are at the forefront of TYROLIT dry grinding plates, as is its universal range of application. In addition to these two points, a thorough colour coding system helps you to find the right product for the material to be machined.



Grinding Cup – With PU foam coated inserts for abrasive materials

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  STHD	356569	STHD	4 x 3/4 x 7/8	DGU★★★	1
	350694	STHD	4 ^{1/2} x 3/4 x 7/8	DGU★★★	1
	367833	STHD	4 ^{1/2} x 3/4 x M14	DGU★★★	1
	348387	STHD	5 x 3/4 x 7/8	DGU★★★	1
	828013	STHD	7 x 3/4 x 7/8	DGU★★★	1





SMALL DIAMETER GRINDING WHEELS

For all straight shaft grinders and applications with difficult access



PREMIUM★★★
FOR STEEL ONLY

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  1F80	20039199	1F80	2 x 1/4 x 3/8	A24RBF	100
	20039200	1F80	2 x 1/2 x 3/8	A24RBF	100
	20039201	1F80	2 1/2 x 1/4 x 3/8	A24RBF	100
	20039202	1F80	2 1/2 x 1/2 x 3/8	A24RBF	100
	20039203	1F80	3 x 1/4 x 3/8	A24RBF	100
	20039204	1F80	3 x 1/2 x 3/8	A24RBF	100
	20039205	1F80	4 x 1/4 x 3/8	A24RBF	100
	20039206	1F80	4 x 1/2 x 3/8	A24RBF	100


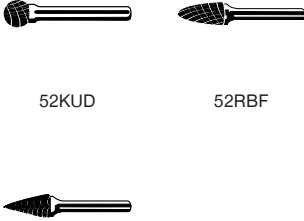


CARBIDE BURRS

TYROLIT cemented carbide burrs are made from tried and tested types of cemented carbide corresponding to the latest technology. Production is performed on ultra-modern CNC automated grinding machines. The result is a highly efficient precision tool for every machining situation. In order to achieve the best grinding results and longest service life, it is important to choose the right machine and the right speed, cutter and tooth profile for the workpiece material being machined.





Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	USCTI	
	20019789	52KUD	1/8" x 1/8" x 1/8"	BALL	1		
	20019726	52KUD	1/4" x 1/4" x 1/4"	BALL	1	SD-1	
	20019727	52KUD	3/8" x 3/8" x 1/4"	BALL	1	SD-3	
	20019729	52KUD	1/2" x 1/2" x 1/4"	BALL	1	SD-5	
	20019791	52RBF	1/8" x 1/2" x 1/8"	RND NOSE TREE	1		
	20019753	52RBF	1/4" x 5/8" x 1/4"	RND NOSE TREE	1	SF-1	
	20019754	52RBF	3/8" x 3/4" x 1/4"	RND NOSE TREE	1	SF-3	
	20019756	52RBF	1/2" x 1" x 1/4"	RND NOSE TREE	1	SF-5	
	20019794	52SKM	1/8" x 3/8" x 1/8"	POINTED CONE	1		
	20019784	52SKM	1/4" x 1/2" x 1/4"	POINTED CONE	1	SM-1	
	20019785	52SKM	3/8" x 5/8" x 1/4"	POINTED CONE	1	SM-4	
	20019786	52SKM	1/2" x 7/8" x 1/4"	POINTED CONE	1	SM-5	






Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	PU	USCTI
  52KEL	20019793	52KEL	1/8" x 5/16" x 1/8"	BALL NOSE CONE	1	
	20019781	52KEL	1/4" x 5/8" x 1/4"	BALL NOSE CONE	1	SL-1
	20019782	52KEL	3/8" x 1" x 1/4"	BALL NOSE CONE	1	SL-3
	20019783	52KEL	1/2" x 1 ^{3/16} " x 1/4"	BALL NOSE CONE	1	SL-4





Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	USCTI
   52SPG 52TRE	20019792	52SPG	1/8" x 1/2" x 1/8"	POINTED TREE		
	20019758	52SPG	1/4" x 5/8" x 1/4"	POINTED TREE	1	SG-1
	20019759	52SPG	3/8" x 3/4" x 1/4"	POINTED TREE	1	SG-3
	20019780	52SPG	1/2" x 1" x 1/4"	POINTED TREE	1	SG-5
	20019790	52TRE	1/8" x 1/4" x 1/8"	OVAL	1	
	20019741	52TRE	1/4" x 3/8" x 1/4"	OVAL	1	SE-1
	20019742	52TRE	3/8" x 5/8" x 1/4"	OVAL	1	SE-3
	20019743	52TRE	1/2" x 7/8" x 1/4"	OVAL		SE-5
	20019788	52WRC	1/8" x 1/2" x 1/8"	BALL NOSE CYL.	1	
	20019710	52WRC	1/4" x 3/4" x 1/4"	BALL NOSE CYL.	1	SC-1
	20019711	52WRC	3/8" x 3/4" x 1/4"	BALL NOSE CYL.	1	SC-3
	20019713	52WRC	1/2" x 1" x 1/4"	BALL NOSE CYL.	1	SC-5





Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	USCTI	
  52ZYA 52ZYA-S	20019787	52ZYA	1/8" x 1/2" x 1/8"	CYLINDER	1		
	20019701	52ZYA	1/4" x 3/4" x 1/4"	CYLINDER	1	SA-1	
	20019702	52ZYA	3/8" x 3/4" x 1/4"	CYLINDER	1	SA-3	
	20019705	52ZYA	1/2" x 1" x 1/4"	CYLINDER	1	SA-5	
	20019707	52ZYAS	1/4" x 3/4" x 1/4"	CYL-END CUT	1	SB-1	
	20019708	52ZYAS	3/8" x 3/4" x 1/4"	CYL-END CUT	1	SB-3	
	20019709	52ZYAS	1/2" x 1" x 1/4"	CYL-END CUT	1	SB-5	


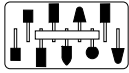


Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	USCTI	
  52RBF 52WRC	20019755	52RBF	3/8" x 3/4" x 1/4"	RND NOSE TREE	1	SF-3NF	
	20019757	52RBF	1/2" x 1" x 1/4"	RND NOSE TREE	1	SF-5NF	
	20019712	52WRC	3/8" x 3/4" x 1/4"	BALL NOSE CYL.	1	SC-3NF	
	20019714	52WRC	1/2" x 1" x 1/4"	BALL NOSE CYL.		SC-5NF	
	20019728	52KUD	3/8" x 3/8" x 1/4"	BALL	1	SD-3NF	
	20019740	52KUD	1/2" x 1/2" x 1/4"	BALL	1	SD-5NF	
	20019704	52ZYA	3/8" x 3/4" x 1/4"	CYLINDER	1	SA-3NF	
	20019706	52ZYA	1/2" x 1" x 1/4"	CYLINDER		SA-5NF	


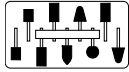


Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).

	TYPE NO.	DIMENSIONS	STANDARD PKG	COMMENTS
  SETK	20039144	5pc BURR KIT	1	Cemented carbide milling point set: 5 parts with shaft S 1/4" x 1 1/2" CONTENTS: TYPE Dimens. 52ZYA 1/2" x 1" 52WRC 1/2" x 1" 52KUD 1/2" x 1/2" 52RBF 1/2" x 1" 52SKM 1/2" x 7/8"




Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).

	PART NO.	DIMENSIONS	STANDARD PKG	COMMENTS
  SETK	20039145	10pc BURR KIT	1	Cemented carbide milling point set: 10 parts with shaft S 1/4"x1 1/2" CONTENTS: TYPE Dimens. 52ZYASL 3/8" x 1" 52ZYAS 1/2" x 1" 52WRC 3/8" x 3/4" 52WRC 1/2" x 1" 52KEL 1/2" x 1 2/16" 52TRE 3/8" x 5/8" 52SPG 1/4" x 1/2" 52SPG 1/2" x 1/2" 52KUD 1/2" x 1/2" 52RBF 1/2" x 1"

PLUGS & CONES

Construction/materials able to be machined: Aluminum oxide for economical performance. Premium Zirconia for heavy duty grinding

Details: One of the most widely used forms of metal removal, portable grinding removes excess weld bead; notches, gates and risers; grinds off fins and parting line; cleans metal before welding, painting or plating; smooths rough surfaces.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	20039207	16	1 ^{1/2} x 3 x 5/8-11	A20	10
	20039208	16	2 x 3 x 5/8-11	A20	10
	20039209	16	2 ^{3/4} x 3 ^{1/2} x 5/8-11	A20	10
	20039240	16	1 ^{1/2} x 3 x 5/8-11	ZA20	10
	20039210	16	1 ^{1/2} x 3 x 5/8-11	ZA20	10
	20039211	16	2 ^{3/4} x 3 ^{1/2} x 5/8-11	ZA20	10
	20039212	17	1 ^{1/2} x 3 x 5/8-11	A20	10
	20039213	17	2 x 3 x 5/8-11	A20	10
	20039214	17	1 ^{1/2} x 3 x 5/8-11	ZA20	10
	20039215	18	1 ^{1/2} x 3 x 5/8-11	A20	10
	20039216	18	1 ^{1/2} x 4 x 5/8-11	A20	10
	20039217	18	2 x 3 x 5/8-11	A20	10
	20039218	18	1 ^{1/2} x 3 x 5/8-11	ZA20	10
	20039219	18	1 ^{1/2} x 4 x 5/8-11	ZA20	10
	20039220	18	2 x 3 x 5/8-11	ZA20	10
	20039221	18R	1 ^{1/2} x 3 x 5/8-11	A20	10
	20039222	18R	1 ^{1/2} x 4 x 5/8-11	A20	10
	20039223	18R	2 x 3 x 5/8-11	A20	10
	20039224	18R	1 ^{1/2} x 3 x 5/8-11	ZA20	10
	20039225	18R	1 ^{1/2} x 4 x 5/8-11	ZA20	10
	20039226	18R	2 x 3 x 5/8-11	ZA20	10



Type 16



Type 17



Type 18



Type 18R



FINISHING

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MOUNTED FLAP WHEELS

The flexibility of these tools allows them to adapt to any workpiece contour. With Flap Wheels the abrasive grain flaps are arranged radially around the tool's axis in the shape of a fan. Flap Wheels by TYROLIT are manufactured and tested in accordance with EN.

All TYROLIT mounted flap wheels can be used on steel, stainless steel, aluminum and non-ferrous metals



PREMIUM ★★★

Construction/materials able to be machined: powerful rough cleaning wheel.

Details: Rust, paint, lacquer and underbody sealant easily removed. Surfaces prepared for welding, soldering or anodising. No clogging and smearing for an open structure.

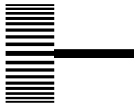
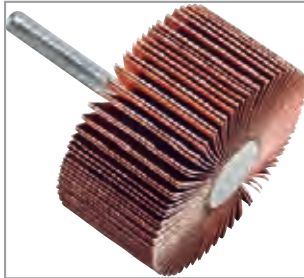
	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  52LA	20019928	52LA	1 x 1/2 - 1/4	40AO	10
	20019929	52LA	1 x 1/2 - 1/4	60AO	10
	20019930	52LA	1 x 1/2 - 1/4	80AO	10
	20019931	52LA	1 x 1/2 - 1/4	120AO	10
	20019932	52LA	1 x 1/2 - 1/4	180AO	10
	20019933	52LA	1x1/2 - 1/4	240AO	10
	20019934	52LA	1 x 1 - 1/4	40AO	10
	20019935	52LA	1 x 1 - 1/4	60AO	10
	20019936	52LA	1 x 1 - 1/4	80AO	10
	20019937	52LA	1 x 1 - 1/4	120AO	10
	20019938	52LA	1 x 1 - 1/4	180AO	10
	20019939	52LA	1 x 1 - 1/4	240AO	10
	20019940	52LA	1 1/2 x 1/2 - 1/4	40AO	10
	20019941	52LA	1 1/2 x 1/2 - 1/4	60AO	10
	20019942	52LA	1 1/2 x 1/2 - 1/4	80AO	10
	20019943	52LA	1 1/2 x 1/2 - 1/4	120AO	10
	20019944	52LA	1 1/2 x 1/2 - 1/4	180AO	10
	20019945	52LA	1 1/2 x 1/2 - 1/4	240AO	10
	20019948	52LA	1 1/2 x 1 - 1/4	40AO	10
	20019949	52LA	1 1/2 x 1 - 1/4	60AO	10
	20019950	52LA	1 1/2 x 1 - 1/4	80AO	10
	20019951	52LA	1 1/2 x 1 - 1/4	120AO	10
	20019952	52LA	1 1/2 x 1 - 1/4	180AO	10
	20019953	52LA	1 1/2 x 1 - 1/4	240AO	10



PREMIUM ★★★

Construction/materials able to be machined: powerful rough cleaning wheel.

Details: Rust, paint, lacquer and underbody sealant easily removed. Surfaces prepared for welding, soldering or anodising. No clogging and smearing for an open structure.



52LA

	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	20019954	52LA	2 x 1/2 - 1/4	40AO	10
	20019955	52LA	2 x 1/2 - 1/4	60AO	10
	20019956	52LA	2 x 1/2 - 1/4	80AO	10
	20019957	52LA	2 x 1/2 - 1/4	120AO	10
	20019958	52LA	2 x 1/2 - 1/4	180AO	10
	20019959	52LA	2 x 1/2 - 1/4	240AO	10
	20019960	52LA	2 x 3/4 - 1/4	40AO	10
	20019961	52LA	2 x 3/4 - 1/4	60AO	10
	20019962	52LA	2 x 3/4 - 1/4	80AO	10
	20019963	52LA	2 x 3/4 - 1/4	120AO	10
	20019964	52LA	2 x 3/4 - 1/4	180AO	10
	20019965	52LA	2 x 3/4 - 1/4	240AO	10
	20019966	52LA	2 x 1 - 1/4	40AO	10
	20019967	52LA	2 x 1 - 1/4	60AO	10
	20019968	52LA	2 x 1 - 1/4	80AO	10
	20019969	52LA	2 x 1 - 1/4	120AO	10
	20019970	52LA	2 x 1 - 1/4	180AO	10
	20019971	52LA	2 x 1 - 1/4	240AO	10
	20019972	52LA	2 ^{1/2} x 1/2 - 1/4	40AO	10
	20019973	52LA	2 ^{1/2} x 1/2 - 1/4	60AO	10
	20019974	52LA	2 ^{1/2} x 1/2 - 1/4	80AO	10
	20019975	52LA	2 ^{1/2} x 1/2 - 1/4	120AO	10
	20019976	52LA	2 ^{1/2} x 1/2 - 1/4	180AO	10
	20019977	52LA	2 ^{1/2} x 1/2 - 1/4	240AO	10
	20019978	52LA	2 ^{1/2} x 1 - 1/4	40AO	10
	20019979	52LA	2 ^{1/2} x 1 - 1/4	60AO	10
	20019980	52LA	2 ^{1/2} x 1 - 1/4	80AO	10
	20019981	52LA	2 ^{1/2} x 1 - 1/4	120AO	10
	20019982	52LA	2 ^{1/2} x 1 - 1/4	180AO	10
	20019983	52LA	2 ^{1/2} x 1 - 1/4	240AO	10
	20019984	52LA	3 x 1/2 - 1/4	40AO	10
	20019985	52LA	3 x 1/2 - 1/4	60AO	10
	20019986	52LA	3 x 1/2 - 1/4	80AO	10
	20019987	52LA	3 x 1/2 - 1/4	120AO	10
	20019988	52LA	3 x 1/2 - 1/4	180AO	10
	20019989	52LA	3 x 1/2 - 1/4	240AO	10
	20019991	52LA	3 x 3/4 - 1/4	60AO	10
	20019992	52LA	3 x 3/4 - 1/4	80AO	10
	20019993	52LA	3 x 3/4 - 1/4	120AO	10
	20019994	52LA	3 x 3/4 - 1/4	180AO	10



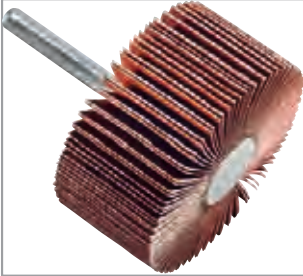

FINISHING | MOUNTED FLAP WHEELS



PREMIUM★★★

Construction/materials able to be machined: powerful rough cleaning wheel.

Details: Rust, paint, lacquer and underbody sealant easily removed. Surfaces prepared for welding, soldering or anodising. No clogging and smearing for an open structure.

	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  52LA	20019996	52LA	3 x 1 - 1/4	40AO	10
	20019997	52LA	3 x 1 - 1/4	60AO	10
	20019998	52LA	3 x 1 - 1/4	80AO	10
	20019999	52LA	3 x 1 - 1/4	120AO	10
	20020000	52LA	3 x 1 - 1/4	180AO	10
	20020001	52LA	3 x 1 - 1/4	240AO	10
	20020002	52LA	3 x 2 - 1/4	40AO	10
	20020003	52LA	3 x 2 - 1/4	60AO	10
	20020004	52LA	3 x 2 - 1/4	80AO	10
	20020005	52LA	3 x 2 - 1/4	120AO	0
	20020006	52LA	3 x 2 - 1/4	180AO	10

RONDELLER - SEMI-FLEXIBLE GRINDING WHEELS

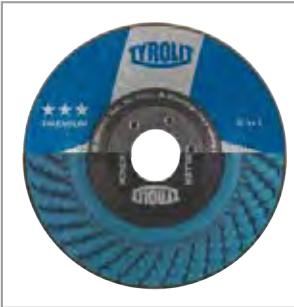




PREMIUM★★★

FOR USE ON ALUMINUM, STEEL AND STAINLESS STEEL

Certified FeSCLFREE - no contamination

NEW - the new reformulated Rondeller has a newly - optimized knob shape and arrangement improving chip removal, cooling and enhancing overall removal rates and life by 50%. Grind and finish all metals in 1 step with the original semi-flexible grinding wheel. Ideal for curved and uneven surfaces.

	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	
	57004	29RON	4 ^{1/2} x 7/8	A24-BF	25	
	20041702	29RON	4 ^{1/2} x 5/8-11	A24-BF	25	
	908225	29RON	4 ^{1/2} x 7/8	A36-BF	25	
	20041703	29RON	4 ^{1/2} x 5/8-11	A36-BF	25	
	908226	29RON	4 ^{1/2} x 7/8	A60-BF	25	
	20041704	29RON	4 ^{1/2} x 5/8-11	A60-BF	25	
	57005	29RON	5 x 7/8	A24-BF	25	
	20041705	29RON	5 x 5/8-11	A24-BF	25	
	908227	29RON	5 x 7/8	A36-BF	25	
	20041706	29RON	5 x 5/8-11	A36-BF	25	
	908229	29RON	5 x 7/8	A60-BF	25	
	20041707	29RON	5 x 5/8-11	A60-BF	25	
	57006	29RON	7 x 7/8	A24-BF	25	
	20041708	29RON	7 x 5/8-11	A24-BF	25	
	908230	29RON	7 x 7/8	A36-BF	25	
	20041709	29RON	7 x 5/8-11	A36-BF	25	
	908231	29RON	7 x 7/8	A60-BF	25	
	20041710	29RON	7 x 5/8-11	A60-BF	25	
	 <p>29RON</p>					



LONG LIFE FLAP DISCS (plastic-backed, trimmable)


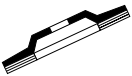


PREMIUM ★★★

FOR USE ON STEEL AND STAINLESS STEEL

Certified **FeSCLFREE** - no contamination

OUR MOST POPULAR flap disc uses high performance zirconium grain and outlasts all competitive flap discs by a wide margin. Trimmable plastic backing maximizes life and removal and allows operator to work in difficult corners for the duration of the flap disc.

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  27	680369	27	4 ^{1/2} x 7/8	ZA40-B	10
	20041711	27	4 ^{1/2} x 5/8-11	ZA40-B	10
	680373	27	4 ^{1/2} x 7/8	ZA60-B	10
	20041712	27	4 ^{1/2} x 5/8-11	ZA60-B	10
	680376	27	4 ^{1/2} x 7/8	ZA80-B	10
	20041713	27	4 ^{1/2} x 5/8-11	ZA80-B	10
	680377	27	4 ^{1/2} x 7/8	ZA120-B	10
	20041714	27	4 ^{1/2} x 5/8-11	ZA120-B	10
	680379	27	5 x 7/8	ZA40-B	10
	20041715	27	5 x 5/8-11	ZA40-B	10
	680380	27	5 x 7/8	ZA60-B	10
	20041716	27	5 x 5/8-11	ZA60-B	10
	680383	27	5 x 7/8	ZA80-B	10
	20041717	27	5 x 5/8-11	ZA80-B	10
	680386	27	5 x 7/8	ZA120-B	10
	20041718	27	5 x 5/8-11	ZA120-B	10
	680387	27	7 x 7/8	ZA40-B	10
	20041719	27	7 x 5/8-11	ZA40-B	10
	680388	27	7 x 7/8	ZA60-B	10
	20041720	27	7 x 5/8-11	ZA60-B	10
	680389	27	7 x 7/8	ZA80-B	10
	20041721	27	7 x 5/8-11	ZA80-B	10
	680390	27	7 x 7/8	ZA120-B	10
	20041722	27	7 x 5/8-11	ZA120-B	10



CERAMIC FLAP DISCS (fibre-backed)


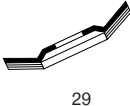


PREMIUM★★★

FOR USE ON STAINLESS STEEL AND OTHER HIGH ALLOYED STEELS

Certified **Fe S CL FREE** - no contamination

High performance ceramic grain is self sharpening and dissipates heat rapidly producing a consistent finish with no discolouration. Our best flap disc for stainless steel and other high-alloyed steels.


	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	
	645130	29	4 ^{1/2} x 7/8	CA40-B	10	
	20041732	29	4 ^{1/2} x 5/8-11	CA40-B	10	
	645132	29	4 ^{1/2} x 7/8	CA60-B	10	
	20041733	29	4 ^{1/2} x 5/8-11	CA60-B	10	
	645135	29	5 x 7/8	CA40-B	10	
	20041734	29	5 x 5/8-11	CA40-B	10	
	645137	29	5 x 7/8	CA60-B	10	
	20041735	29	5 x 5/8-11	CA60-B	10	
						

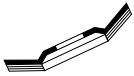
**FAST CUT FLAP DISCS (fibre-backed)****PREMIUM ★★★**

FOR USE ON STEEL AND STAINLESS STEEL

Certified **FeS CLFREE** - no contamination

High performance zirconium grain gives the operator industry-leading removal rate to SAVE TIME


	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	528580	29	4 x 5/8	ZA40-B	10
	643845	29	4 x 5/8	ZA60-B	10
	643846	29	4 x 5/8	ZA80-B	10
	160229	29	4 ^{1/2} x 7/8	ZA40-B	10
	20041723	29	4 ^{1/2} x 5/8-11	ZA40-B	10
	160230	29	4 ^{1/2} x 7/8	ZA60-B	10
	20041724	29	4 ^{1/2} x 5/8-11	ZA60-B	10
	160235	29	4 ^{1/2} x 7/8	ZA80-B	10
	20041725	29	4 ^{1/2} x 5/8-11	ZA80-B	10
	160240	29	5 x 7/8	ZA40-B	10
	20041726	29	5 x 5/8-11	ZA40-B	10
	160242	29	5 x 7/8	ZA60-B	10
	20041727	29	5 x 5/8-11	ZA60-B	10
	160244	29	5 x 7/8	ZA80-B	10
	20041728	29	5 x 5/8-11	ZA80-B	10
	160245	29	7 x 7/8	ZA40-B	10
	20041729	29	7 x 5/8-11	ZA40-B	10
	160246	29	7 x 7/8	ZA60-B	10
	20041730	29	7 x 5/8-11	ZA60-B	10
	160247	29	7 x 7/8	ZA80-B	10
20041731	29	7 x 5/8-11	ZA80-B	10	



29

ECONOMY FLAP DISCS (fibre-backed)**BASIC ★**

FOR USE ON STEEL AND STAINLESS STEEL

	PART NO.	TYPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	474872	29	4 x 5/8	ZA40-B	10
	474874	29	4 x 5/8	ZA60-B	10
	474875	29	4 x 5/8	ZA80-B	10
	273884	29	4 ^{1/2} x 7/8	ZA40-B	10
	20041736	29	4 ^{1/2} x 5/8-11	ZA40-B	10
	273810	29	4 ^{1/2} x 7/8	ZA60-B	10
	20041737	29	4 ^{1/2} x 5/8-11	ZA60-B	10
	273871	29	4 ^{1/2} x 7/8	ZA80-B	10
	20041739	29	4 ^{1/2} x 5/8-11	ZA80-B	10
	273872	29	5 x 7/8	ZA40-B	10
	20041740	29	5 x 5/8-11	ZA40-B	10
	273873	29	5 x 7/8	ZA60-B	10
	20041741	29	5 x 5/8-11	ZA60-B	10
	273874	29	5 x 7/8	ZA80-B	10
	20041742	29	5 x 5/8-11	ZA80-B	10



29



TYROLIT PIONEER - NATURAL FIBRE DISC


A NEW UNIQUE DISC COMBINING GRINDING AGGRESSIVENESS WITH A HIGH LEVEL OF WORKING COMFORT

TYROLIT PIONEER offers you not only complete operator comfort but removal rates up to 3 times faster than flap discs, grinding wheels and sanding discs. No backing pad is needed, as it is an integral part of the disc. The structure of the TYROLIT PIONEER is made from natural hemp fibres - in addition to preserving our natural resources this product is resistant to humidity and provides a strong but flexible structure which maximizes operator comfort and handling on all metal surfaces. Make the switch from flap discs, grinding wheels or sanding discs to the TYROLIT PIONEER and SAVE TIME and MONEY!!



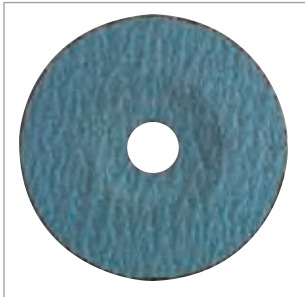
PREMIUM ★★★

ZIRCONIUM - FOR USE ON STEEL AND ALUMINUM

	PART NO.	DIMENSIONS	GRIT SIZE	SPECIFICATION	STANDARD PKG
	706125	4 ^{1/2} x 7/8	36	ZA-P43	10
	706126	5 x 7/8	36	ZA-P43	10
	706127	7 x 7/8	36	ZA-P43	10


**PIONEER - NATURAL FIBRE DISCS****PREMIUM★★★**

ZIRCONIUM PLUS - FOR USE ON STEEL AND STAINLESS STEEL

	PART NO.	DIMENSIONS	GRIT SIZE	SPECIFICATION	STANDARD PKG
	706128	4 ^{1/2} x 7/8	36	ZA-P48	10
	706129	5 x 7/8	36	ZA-P48	10
	706130	7 x 7/8	36	ZA-P48	10

**PREMIUM★★★**

CERAMIC - FOR USE ON STAINLESS STEEL AND OTHER HIGH ALLOYED STEELS

	PART NO.	DIMENSIONS	GRIT SIZE	SPECIFICATION	STANDARD PKG
	712259	4 ^{1/2} x 7/8	36	ZA-P93	10
	712268	5 x 7/8	36	ZA-P93	10
	712269	7 x 7/8	36	ZA-P93	10



RESIN FIBRE SANDING DISCS



PREMIUM ★★★

ALUMINUM OXIDE - FOR STEEL AND ALUMINUM

	PART NO.	DIMENSIONS	SPECIFICATION	STANDARD PKG	
	20908262	4 ^{1/2} x 7/8	A-16	25	
	706049	4 ^{1/2} x 7/8	A-24	25	
	706050	4 ^{1/2} x 7/8	A-36	25	
	706051	4 ^{1/2} x 7/8	A-50	25	
	706052	4 ^{1/2} x 7/8	A-60	25	
	706053	4 ^{1/2} x 7/8	A-80	25	
	20908256	4 ^{1/2} x 7/8	A-100	25	
	706054	4 ^{1/2} x 7/8	A-120	25	
	20908270	5 x 7/8	A-16	25	
	706055	5 x 7/8	A-24	25	
	706056	5 x 7/8	A-36	25	
	706057	5 x 7/8	A-50	25	
	706058	5 x 7/8	A-60	25	
	706059	5 x 7/8	A-80	25	
	20908264	5 x 7/8	A-100	25	
	706060	5 x 7/8	A-120	25	
	20908278	7 x 7/8	A-16	25	
	706061	7 x 7/8	A-24	25	
706063	7 x 7/8	A-36	25		
706064	7 x 7/8	A-50	25		
706065	7 x 7/8	A-60	25		
706066	7 x 7/8	A-80	25		
20908272	7 x 7/8	A-100	25		
706067	7 x 7/8	A-120	25		

**RESIN FIBRE SANDING DISCS****PREMIUM ★★★**

ZIRCONIUM - FOR HEAVY DUTY USE ON STEEL AND ALUMINUM

	PART NO.	DIMENSIONS	SPECIFICATION	STANDARD PKG
	706068	4 ^{1/2} x 7/8	ZA-24	25
	706069	4 ^{1/2} x 7/8	ZA-36	25
	706071	4 ^{1/2} x 7/8	ZA-40	25
	706072	4 ^{1/2} x 7/8	ZA-60	25
	706073	4 ^{1/2} x 7/8	ZA-80	25
	706074	4 ^{1/2} x 7/8	ZA-120	25
	706075	5 x 7/8	ZA-24	25
	706076	5 x 7/8	ZA-36	25
	706077	5 x 7/8	ZA-40	25
	706078	5 x 7/8	ZA-60	25
	706079	5 x 7/8	ZA-80	25
	706082	5 x 7/8	ZA-120	25
	706084	7 x 7/8	ZA-24	25
	706088	7 x 7/8	ZA-36	25
	706089	7 x 7/8	ZA-40	25
	706090	7 x 7/8	ZA-60	25
	706091	7 x 7/8	ZA-80	25
	706092	7 x 7/8	ZA-120	25

**PREMIUM ★★★**

CERAMIC - FOR USE ON STAINLESS STEEL AND HIGH-ALLOYED STEELS

	PART NO.	DIMENSIONS	SPECIFICATION	STANDARD PKG
	706107	4 ^{1/2} x 7/8	CA-36	25
	706108	4 ^{1/2} x 7/8	CA-60	25
	706109	4 ^{1/2} x 7/8	CA-80	25
	706110	4 ^{1/2} x 7/8	CA-120	25
	706111	5 x 7/8	CA-36	25
	706114	5 x 7/8	CA-60	25
	706116	5 x 7/8	CA-80	25
	706117	5 x 7/8	CA-120	25
	706119	7 x 7/8	CA-36	25
	706120	7 x 7/8	CA-60	25
	706123	7 x 7/8	CA-80	25
	706124	7 x 7/8	CA-120	25





NYLON BACKING PADS

FOR RESIN FIBRE SANDING DISCS



BASIC★

UNIVERSAL BACKING PAD WITH IMPACT RESISTANT PLASTIC FOR LONG LIFE

	PART NO.	DIAMETER/THREAD	STANDARD PKG
  Pad BASIC	709999	4 ^{1/2} x 5/8-11	1
	710002	5 x 5/8-11	1
	710005	7 x 5/8-11	1

PREMIUM★★★

UNIVERSAL PREMIUM BACKING PAD WITH SPECIAL AIR FLOW DESIGN FOR COOL OPERATION AND EXTRA DISC LIFE

	PART NO.	DIAMETER/THREAD	STANDARD PKG
  Pad UNI	20010	4 ^{1/2} x 5/8-11	1
	20006	5 x 5/8-11	1





SHOP ROLLS

Aluminum oxide grain for polishing, finishing, sanding and deburring of all materials including steel, stainless steel, aluminum, brass, plastics, paint, lacquers, composites, gel coats, wood and stone. High quality flexible cloth backing allows for easy and clean tearing to desired length. Also ideal for contour work and for use on turning parts in lathes. Every roll comes in an easy to use cardboard dispenser.

**Note - all TYROLIT rolls are in extra long 54 yard lengths for better value versus industry standard 50 yard rolls.



BASIC★
A-BO1C JX

	PART NO.	DESCRIPTION	GRIT	BACKING
	705824	1" x 54 yards	40	C JX
	705825	1" x 54 yards	60	C JX
	705826	1" x 54 yards	80	C JX
	705828	1" x 54 yards	100	C JX
	705830	1" x 54 yards	120	C JX
	705831	1" x 54 yards	150	C JX
	705832	1" x 54 yards	180	C JX
	705833	1" x 54 yards	220	C JX
	705834	1" x 54 yards	240	C JX
	705836	1" x 54 yards	320	C JX
	705837	1" x 54 yards	400	C JX
 <p>Roll</p>	705854	1 ^{1/2} " x 54 yards	40	C JX
	705855	1 ^{1/2} " x 54 yards	60	C JX
	705856	1 ^{1/2} " x 54 yards	80	C JX
	705857	1 ^{1/2} " x 54 yards	100	C JX
	705858	1 ^{1/2} " x 54 yards	120	C JX
	705859	1 ^{1/2} " x 54 yards	150	C JX
	705860	1 ^{1/2} " x 54 yards	180	C JX
	705861	1 ^{1/2} " x 54 yards	220	C JX
	705862	1 ^{1/2} " x 54 yards	240	C JX
	705863	1 ^{1/2} " x 54 yards	320	C JX
	705864	1 ^{1/2} " x 54 yards	400	C JX
	705885	2" x 54 yards	40	C JX
	705886	2" x 54 yards	60	C JX
	705887	2" x 54 yards	80	C JX
	705888	2" x 54 yards	100	C JX
	705889	2" x 54 yards	120	C JX
	705891	2" x 54 yards	150	C JX
	705892	2" x 54 yards	180	C JX
	705894	2" x 54 yards	220	C JX
	705895	2" x 54 yards	240	C JX
	705896	2" x 54 yards	320	C JX
	705898	2" x 54 yards	400	C JX



WIRE CUP BRUSHES

Construction/materials able to be machined: Steel wire for light duty work in steel, INOX/STAINLESS WIRE for light duty work in stainless and aluminum.

Details: Brass Coated Steel wire For weld preparation and rust removal. Crimped wire cups for medium stock removal of larger areas.

	PART NO.	DIMENSIONS	SPECIFICATION	WIRE	STANDARD PKG	CLASSIFICATION	
	20040086	3" x 5/8-11	Steel	.012	6	Crimped	
	20020102	4" x 5/8-11	Steel	.020	1	Crimped	
	20020103	5" x 5/8-11	Steel	.020	1	Crimped	
	20020104	6" x 5/8-11	Steel	.020	1	Crimped	
	20040087	3" x 5/8-11	Stainless Steel	.012	6	Crimped	

Construction/materials able to be machined: Steel wire For heavy duty applications in steel fabrication. INOX/STAINLESS WIRE For fabrication work using stainless steel and aluminum.

Details: Twist Knot cup brushes now come with a KNOCK-OFF RING on 4 - 6" sizes for greater strength and longer life. Great for heavy duty stock removal.

	PART NO.	DIMENSIONS	SPECIFICATION	WIRE	STANDARD PKG	CLASSIFICATION
	20040083	2 ³ / ₄ " x 5/8-11	Steel	.020	6	Twist Knot
	20040084	2 ³ / ₄ " x 5/8-11	Steel	.015	6	Twist Knot
	20040120	4" x 5/8-11	Steel	.020	12	Knot with Bridle
	20040099	5" x 5/8-11	Steel	.020	12	Knot with Bridle
	20040081	6" x 5/8-11	Steel	.020	10	Knot with Bridle
	20040082	6" x 5/8-11	Steel	.032	10	Knot with Bridle
	20040085	2 ³ / ₄ " x 5/8-11	Stainless Steel	.020	6	Twist Knot
	20020110	5" x 5/8-11	Stainless Steel	.020	1	Knot with Bridle
	20020113	6" x 5/8-11	Stainless Steel	.020	1	Knot with Bridle

SPECIAL GUARDED CUP BRUSHES FOR OPERATOR SAFETY

Construction/materials able to be machined: Brass Coated Steel wire For weld preparation and rust removal. Crimped wire cups for medium stock removal of larger areas.

Details: Our patented NEW GUARDED CUPS come with a see through shield designed so you can see the work piece and be protected against wire projections.


	PART NO.	DIMENSIONS	SPECIFICATION	WIRE	STANDARD PKG	CLASSIFICATION
	20020127	2 ³ / ₄ " x 5/8-11	Steel	.020	1	Knot with Guard
	20020129	3" x 5/8-11	Steel	12x.009	1	Cable Crimped with Guard
	20020128	3" x 5/8-11	Steel	.012	1	Crimped with Guard




WIRE WHEEL SAUCER

Construction/materials able to be machined: Steel wire For heavy duty applications in steel fabrication. INOX/STAINLESS WIRE For fabrication work using stainless steel and aluminum.

Details: For hard to reach spots, angles and corners.

	PART NO.	DIMENSIONS	SPECIFICATION	WIRE	STANDARD PKG	CLASSIFICATION
	20020988	4" x 5/8-11	Steel	.020	1	Twist Knot
	20021810	5" x 5/8-11	Steel	.020	1	Twist Knot
	20020989	4" x 5/8-11	Stainless Steel	.020	1	Twist Knot
	20021811	5" x 5/8-11	Stainless Steel	.020	1	Twist Knot

ADAPTORS

	PART NO.	DIMENSIONS	STANDARD PKG
	20020133	5/8-11 to 3/8-24	10
	20020132	5/8-11 to M10 x 1.25, 1.5	10




WIRE WHEELS

STRINGER BEAD BRUSHES FOR PIPE WORK

Construction/materials able to be machined: Steel wire For heavy duty applications in steel fabrication. INOX/STAINLESS WIRE For fabrication work using stainless steel and aluminum.

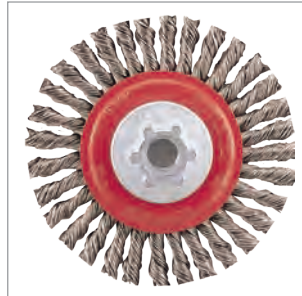
Details: 1/4" face wide for removal of welding and forge Scale, weld cleaning at tube Joints.

	PART NO.	DIMENSIONS	SPECIFICATION	WIRE	STANDARD PKG	CLASSIFICATION	
	20020057	4" x 5/8-11	Steel	.020	1	Stringer Bead	
	20040436	4 ^{1/2} " x 5/8-11	Steel	.020	6	Stringer Bead	
	20025272	5" x 5/8-11	Steel	.020	10	Stringer Bead	
	20040090	6" x 5/8-11	Steel	.020	10	Stringer Bead	
	20040080	7" x 5/8-11	Steel	.020	10	Stringer Bead	
	20020059	4" x 5/8-11	Stainless Steel	.020	10	Stringer Bead	
	20041052	4 ^{1/2} " x 5/8-11	Stainless Steel	.020	6	Stringer Bead	
	20022438	5" x 5/8-11	Stainless Steel	.020	10	Stringer Bead	
	20020064	6" x 5/8-11	Stainless Steel	.020	10	Stringer Bead	

HEAVY DUTY TWIST KNOT WIRE WHEELS 1/2" FACE FOR SURFACE CLEANING

Construction/materials able to be machined: Steel wire For heavy duty applications in steel fabrication. INOX/STAINLESS WIRE For fabrication work using stainless steel and aluminum.


Details: 1/2" face width for longer working life and higher stock removal.

	PART NO.	DIMENSIONS	SPECIFICATION	WIRE	STANDARD PKG	CLASSIFICATION	
	20020095	4" x 5/8-11	Steel	.020	6	Twist Knot	
	20020091	4 ^{1/2} " x 5/8-11	Steel	.020	1	Twist Knot	
	20040088	5" x 5/8-11	Steel	.020	10	Twist Knot	
	20022027	6" x 5/8-11	Steel	.020	10	Twist Knot	
	20020096	4" x 5/8-11	Stainless Steel	.020	6	Twist Knot	
	20020092	4 ^{1/2} " x 5/8-11	Stainless Steel	.020	1	Twist Knot	
	20040089	5" x 5/8-11	Stainless Steel	.020	10	Twist Knot	
	20020098	6" x 5/8-11	Stainless Steel	.020	1	Twist Knot	



WIRE WHEELS

TWISTED WITH PLAIN ARBOR HOLES

	PART NO.	DIMENSIONS	SPECIFICATION	WIRE	STANDARD PKG
	20020040	3" x 1/2" A.H.	A.H. Knot	.015	10
	20020042	4" x 1/2" - 3/8" A.H.	A.H. Knot	.020	10
	20020043	6" x 1/2" - 5/8" A.H.	A.H. Knot	.020	10

Stainless Steel

20020041	3" x 1/2" A.H.	A.H. Knot	.015	10
20020044	6" x 1/2" - 5/8" A.H.	A.H. Knot	.020	10



1/4" SHANK TWISTED WIRE WHEELS

20020045	3" x 1/4" SHANK	Shank Knot	.015	10
20020046	3" x 1/4" SHANK	Shank Knot	.020	10
20020049	4" x 1/4" SHANK	Shank Knot	.015	10
20020050	4" x 1/4" SHANK	Shank Knot	.020	10

Stainless Steel

20020047	3" x 1/4" SHANK	Shank Knot	.015	10
20020048	3" x 1/4" SHANK	Shank Knot	.020	10
20020051	4" x 1/4" SHANK	Shank Knot	.015	10
20020052	4" x 1/4" SHANK	Shank Knot	.020	10

1/4" SHANK CRIMPED WIRE WHEEL

	PART NO.	DIMENSIONS	SPECIFICATION	WIRE	STANDARD PKG
	20020053	2 1/2" x 1/4" SHANK	Shank Crimped	.012	10

1/4" SHANK END BRUSHES - CRIMPED WIRE

	20020054	1" x 1/4" SHANK	Shank Crimped	.020	10
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1/4" SHANK END BRUSHES - TWISTED WIRE

	20020055	1" x 1/4" SHANK	Shank Knot	.020	10
	20020056	1 1/8" x 1/4" SHANK	Shank Knot	.020	10



CRIMPED WIRE WHEELS

FOR BENCH/PEDESTAL GRINDERS

Construction/materials able to be machined: For removal of rust, paint, scale edges, etc. Surface preparation on a variety of materials.

Details: Our line of wide faced crimped brushes are primarily suited for fixed grinders, but wheels up to 7" can also be used in portable applications. They come with a built in multi-bore adaptor to fit up to 8 different spindle diameters.

	PART NO.	DIMENSIONS	SPECIFICATION	WIRE	STANDARD PKG
	20020114	6" x 3/4" x 1/2" - 2" H	Crimped	.012	1
	20020115	6" x 1" x 1/2" - 2" H	Crimped	.012	1
	20020116	7" x 1 1/16" x 1/2" - 2" H	Crimped	.012	1
	20020117	8" x 1 1/16" x 1/2" - 2" H	Crimped	.012	1
	20020118	10" x 1 1/2" x 1/2" - 2" H	Crimped	.012	1

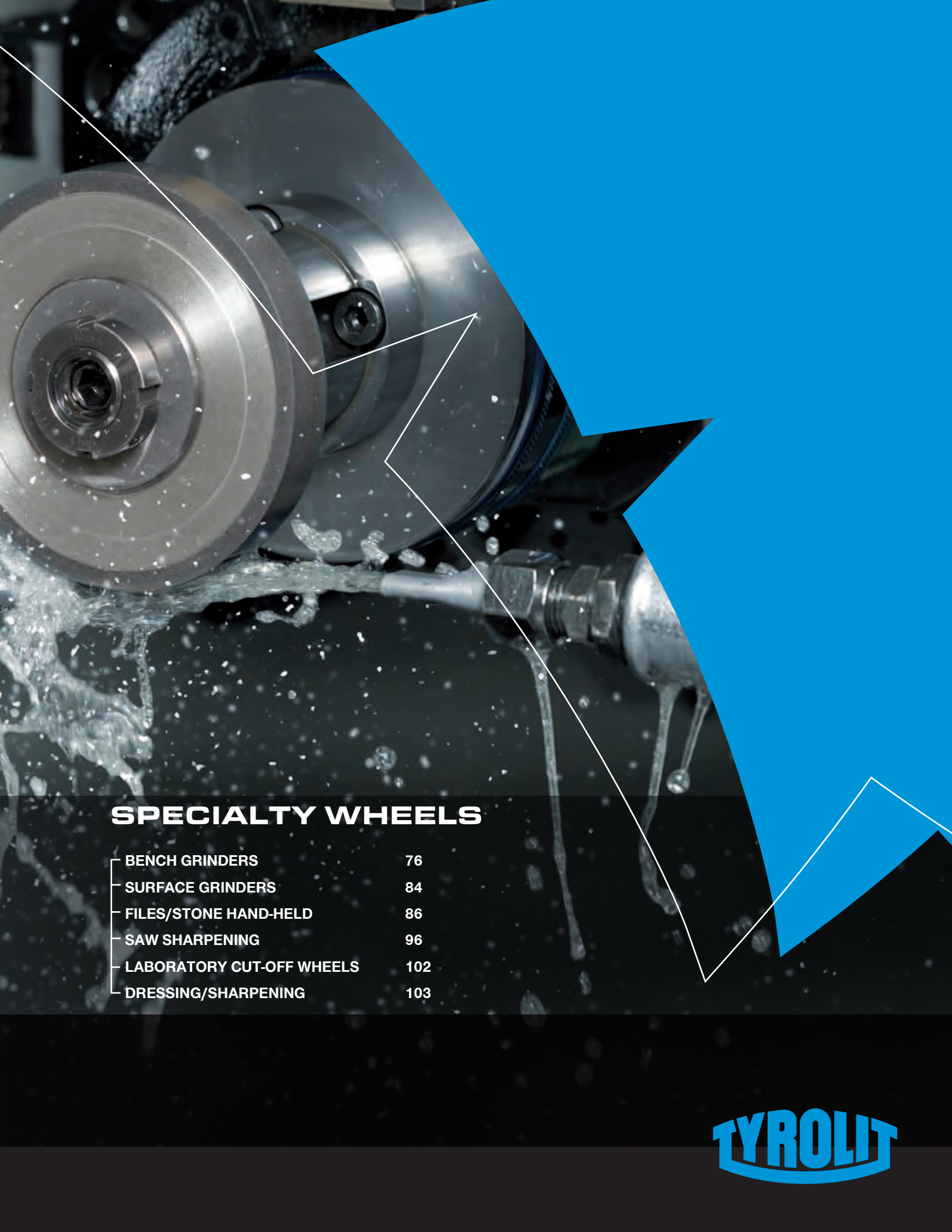
HAND BRUSHES

Construction/materials able to be machined: For ferrous and non ferrous applications

Details: VIP Hand Brushes - Plastic handles with high wire density and narrow face allow easy slot access, maximum removal and higher wire pressure. LONG and SHOE style wooden scratch brushes. Wooden TOOTH brush style scratch brush.

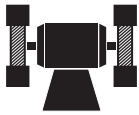
	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	COMMENTS
	20020122	MAL	14 3-ROWS	Coated Steel	24	LONG WOODEN HANDLE SCRATCH BRUSH
	20020123	MAL	14 3-ROWS	Stainless Steel	24	Narrow face Removal of welding scale and sand on forged pieces Removal of rust, paint and adherents.
	20020124	MS	11 - 3/8 3-ROWS	Coated Steel	24	SHOE WOODEN HANDLE SCRATCH BRUSH
	20020125	MS	11 - 3/8 3-ROWS	Stainless Steel	24	Wide face Removal of welding scale and sand on forged pieces Removal of rust, paint and adherents.
	20020126	MLB	5 - 5/16 x 5/8 3-ROWS	Stainless Steel	24	TOOTH BRUSH WOODEN HANDLE SCRATCH BRUSH
	20020130	VIP	10 x 5 x 5/8	Coated Steel	24	VIP SCRATCH BRUSH
	20020131	VIP	10 x 5 x 5/8	Stainless Steel	24	Welding: Cleaning and scale removal





SPECIALTY WHEELS

— BENCH GRINDERS	76
— SURFACE GRINDERS	84
— FILES/STONE HAND-HELD	86
— SAW SHARPENING	96
— LABORATORY CUT-OFF WHEELS	102
— DRESSING/SHARPENING	103



Specification designation and overview of specialty abrasives

Specification as short characterisation of grinding tool

Example

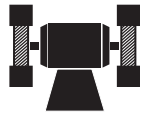
89A		60	M	5	V	217
Abrasive description		Grit sizes Description	Hardness	Structure	Bond	Bond designation
A/10A	Regular aluminium oxide	Grit size indication in mesh (sieve size per inch) 14 - 36 course 46 - 60 Medium 80 - 220 Fine 800 - 1200 Very fine	Hardness ascends alphabetically e.g. G = soft R = hard	The higher the number, the more open the wheel is.	V = Vitrified-bonded B = Resin-bonded E = Elastic-bonded G = Galvanic-bonded	Internal code, which defines bond type.
51A	Mixture of 88A and 10A					
80A	Mixture of 88A and special aluminium oxide					
92A	Mixture of 89A and special aluminium oxide					
97A	Special aluminium oxide					
454A	Mixture of sintered aluminium oxide and 89A					
C	Green silicon carbide					
1C	Black silicon carbide					
50C	Silicon carbide mixture Green/black					

Example of a vitrified-bonded TYROLIT grinding wheel with conventional abrasive grain 89A 60 M5 V217.

Materials table – an example

	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
89A		○	●	○	●	○						●
93A			●		●	●						●

- Extremely suitable
- Limited suitability

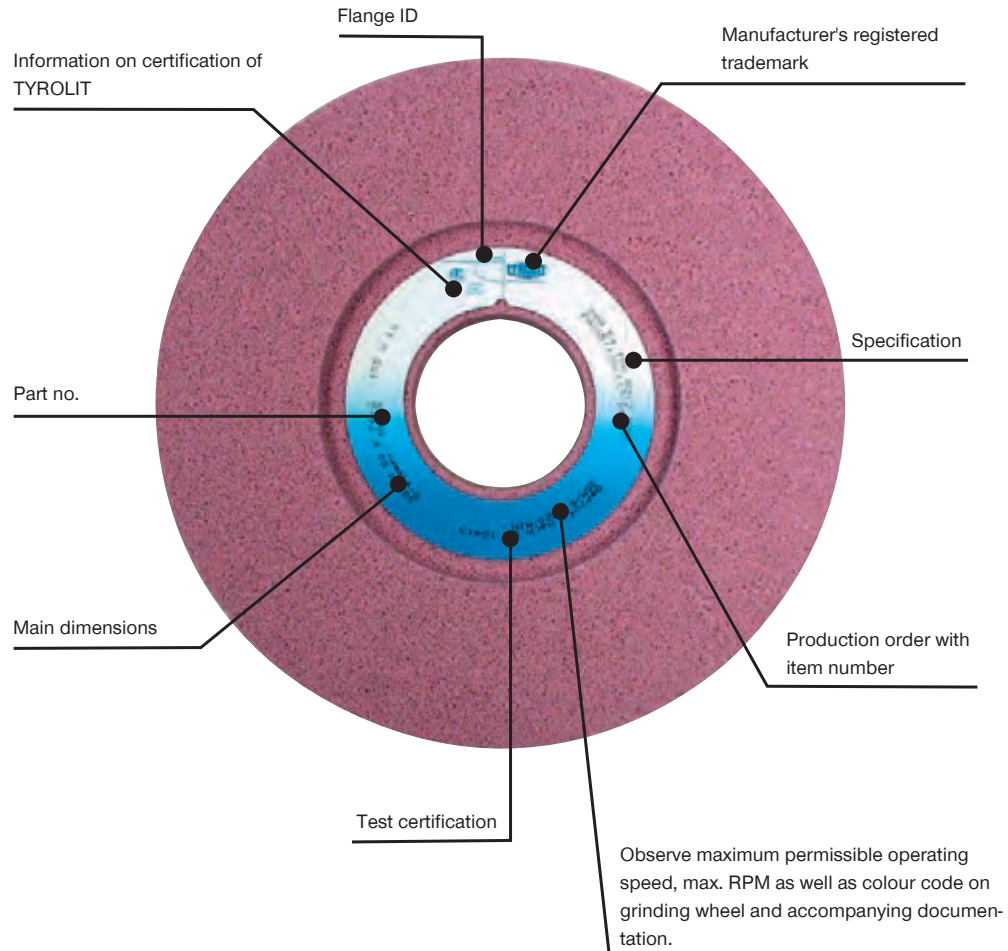


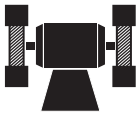
EXPLANATION OF LABELS

GRINDING WHEEL - BENCH/PEDESTAL GRINDER

DESIGNATION

Products from TYROLIT are labelled such that all important information can be directly read off right away.





CONVENTIONAL CERAMICS

Product advantages:

- Grinding wheel specification can be used universally
- Reducing ring set (universally suitable, for common machine shafts)
- Extremely smooth running
- Stackable individual packaging to suit racks

Application tips:

- Sharpening a cemented carbide tipped tool
- Regrinding a HSS tool

Safety information:

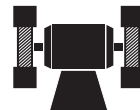
- Take note of the safety information, particularly in the case of maximum operating speed of 40 m/s



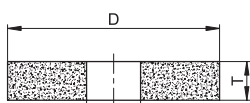
NON AND LOW-ALLOYED STEELS

A	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
		●	○							○	●	

	TYPE NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
	188807	1	6 x 3/4 x 1	A36-COA	1
	188804	1	6 x 3/4 x 1	A60-MED	1
	188805	1	6 x 3/4 x 1	A80-FINE	1
	188809	1	6 x 1 x 1	A36-COA	1
	830038	1	6 x 1 x 1	A46-COA	1
	188815	1	6 x 1 x 1	A60-MED	1
	188811	1	6 x 1 x 1	A80-FINE	1
	188837	1	7 x 3/4 x 1	A80-FINE	1
	188840	1	7 x 3/4 x 1	A36-COA	1
	188829	1	7 x 3/4 x 1	A60-MED	1
<p>Shape 1</p>	188826	1	7 x 1 x 1	A36-COA	1
	188834	1	7 x 1 x 1	A60-MED	1
	188825	1	7 x 1 x 1	A80-FINE	1
	188839	1	8 x 3/4 x 1	A36-COA	1
	188833	1	8 x 3/4 x 1	A60-MED	1
	188835	1	8 x 3/4 x 1	A80-FINE	1
	188820	1	8 x 1 x 1	A36-COA	1
	864749	1	8 x 1 x 1	A46-COA	1
	188810	1	8 x 1 x 1	A60-MED	1
	188817	1	8 x 1 x 1	A80-FINE	1

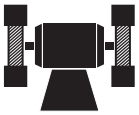


NON AND LOW-ALLOYED STEELS



Shape 1

PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
188818	1	10 x 1 x 1 ^{1/2}	A24-EX.COA	1
188838	1	10 x 1 x 1 ^{1/2}	A36-COA	1
188823	1	10 x 1 x 1 ^{1/2}	A60-MED	1
188821	1	10 x 1 x 1 ^{1/2}	A80-FINE	1
188822	1	10 x 1 ^{1/4} x 1 ^{1/2}	A24-EX.COA	
188824	1	10 x 1 ^{1/4} x 1 ^{1/2}	A36-COA	1
188819	1	10 x 1 ^{1/4} x 1 ^{1/2}	A60-MED	1
188832	1	10 x 1 ^{1/2} x 1 ^{1/2}	A24-EX.COA	1
188830	1	10 x 1 ^{1/2} x 1 ^{1/2}	A36-COA	1
188814	1	10 x 1 ^{1/2} x 1 ^{1/2}	A60-MED	1
85013	1	10 x 2 x 1 ^{1/2}	A24-EX.COA	1
130596	1	10 x 2 x 1 ^{1/2}	A36-COA	1
120387	1	10 x 2 x 1 ^{1/2}	A60-MED	1
150351	1	12 x 1 ^{1/2} x 1 ^{1/2}	A24-EX.COA	1
375828	1	12 x 1 ^{1/2} x 1 ^{1/2}	A36-COA	1
437137	1	12 x 1 ^{1/2} x 1 ^{1/2}	A60-MED	1
42966	1	12 x 2 x 1 ^{1/2}	A24-EX.COA	1
103399	1	12 x 2 x 1 ^{1/2}	A36-COA	1
89913	1	12 x 2 x 1 ^{1/2}	A60-MED	1
53851	1	14 x 2 x 1 ^{1/2}	A24-EX.COA	1
47457	1	14 x 2 x 1 ^{1/2}	A36-COA	1
124261	1	14 x 2 x 1 ^{1/2}	A60-MED	1
53852	1	16 x 2 x 1 ^{1/2}	A24-EX.COA	1
52187	1	16 x 2 x 1 ^{1/2}	A46-COA	1


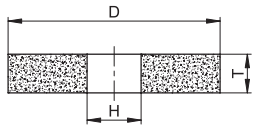


BENCH GRINDERS CONVENTIONAL CERAMICS



HIGH-ALLOYED STEELS AND HSS


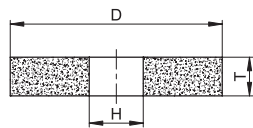
89A	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
			●	○	●	●				○	●	

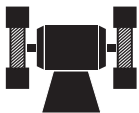
	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  Shape 1	281494	1	6 x 3/4 x 1	89A80-FINE	1
	281499	1	6 x 1 x 1	89A60-MED	1



CEMENTED CARBIDE

C	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
					○	○	○	●		●	●	

	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  Shape 1	281497	1	6 x 3/4 x 1	C60-COA	1
	281515	1	6 x 3/4 x 1	C80-MED	1
	281520	1	6 x 3/4 x 1	C100-FINE	1
	281512	1	6 x 1 x 1	C60-COA	1
	281507	1	6 x 1 x 1	C80-MED	1
	281526	1	6 x 1 x 1	C100-FINE	1
	281514	1	7 x 1 x 1	C60-COA	1
	281521	1	7 x 1 x 1	C80-MED	1
	281522	1	8 x 3/4 x 1	C80-MED	1
	281498	1	8 x 1 x 1	C60-COA	1
	281501	1	8 x 1 x 1	C80-MED	1
	281527	1	8 x 1 x 1	C100-FINE	1
	281510	1	10 x 1 x 1 ^{1/2}	C60-COA	1
	281511	1	10 x 1 x 1 ^{1/2}	C80-MED	1
	281524	1	10 x 1 x 1 ^{1/2}	C100-FINE	1
	274103	1	10 x 1 ^{1/4} x 1 ^{1/2}	C60-COA	1
	208369	1	10 x 1 ^{1/4} x 1 ^{1/2}	C80-MED	1
	213203	1	10 x 2 x 1 ^{1/2}	C80-MED	1
	150355	1	12 x 1 ^{1/2} x 1 ^{1/2}	C60-COA	1
	222640	1	12 x 1 ^{1/2} x 1 ^{1/2}	C80-MED	1
136344	1	12 x 2 x 1 ^{1/2}	C60-COA	1	

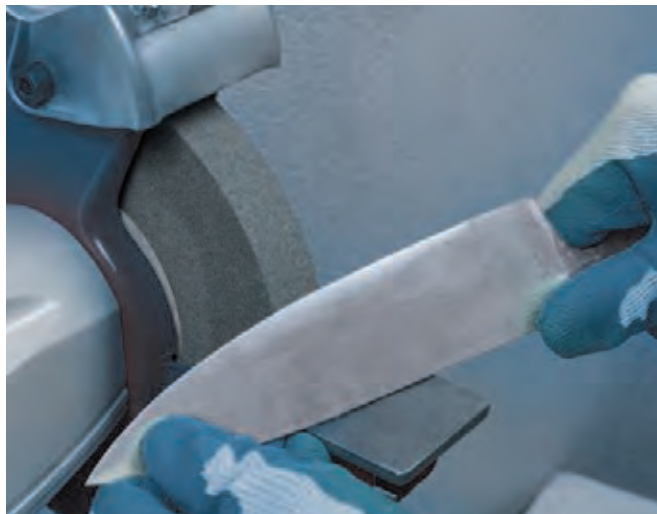


SHARPENING AND POLISHING WHEELS ELASTIC

ELASTIC

Product advantages:

- Particularly soft (in soft-elastic types)
- Easy profiling
- Ultra-fine surfaces achievable in the shortest possible time
- Long lifetime at recommended RPM
- Cooler grinding
- Also suitable for use on flexible shafts
- Improved cutting ability and lifetime of your cutting tools
- Easy handling, meaning sharp tool cutting right away (C400-BE15 and C800-BE11)

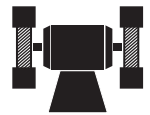


Application tips:

- Polishing steel, nonferrous heavy metal, precious metal and sintered metal or plastic (C240-BE15)
- Fine grinding of various precision mechanical components, like watches, glasses, medical technology (C150-BE13)
- Effect grinding (C46-BE16 und C46-BE19F)
- Deburring (C80-BE15)
- Whetting of all kinds of kitchen and pocket knives (C400-BE15)
- Not suitable for sharp edges, large burrs or high stock removal
- For whetting, deburring and sharpening knives, splitting tools and axes (C400-BE15)
- Dressing stone (ceramic bond) for elastic grinding wheels (see chapter "Dressing and sharpening")
- $V_s = 16 \text{ m/s} - 32 \text{ m/s}$ maximum operating speed for floorstand grinding


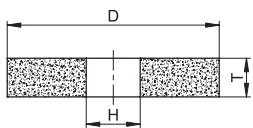
Safety information:

- $V_s = 16 \text{ m/s}$ for soft-elastic wheels
- $V_s = 32 \text{ m/s}$ for hard-elastic wheels
- Operating speed for elastic wheels is always linked to the wheel bond
- **Rotational direction for sharpening wheels away from tool bearing**
- Use of a 2/3 wheel flange



SHARPENING WHEELS FOR CUTTING TOOLS


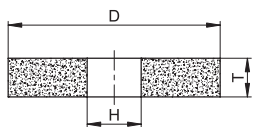
	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
c		●	●	●	●	●	●	●			●	

	TYPE NO.	SHAPE	D	T	H	SPECIFICATION	STANDARD PKG	COMMENTS
  <p style="text-align: center;">Shape 1</p>	7133	1	5	1	20mm	C800 - BE11	1	Knives
	10016	1	5	3/4	1 1/4	C800 - BE11	1	
	2540	1	5	1	1 1/4	C800 - BE11	1	
	7204	1	6	3/4	1 1/4	C800 - BE11	1	
	2512	1	5	3/4	20mm	C800 - BE11	1	
	2667	1	6	3/4	20mm	C800 - BE11	1	
	18380	1	7	3/4	1 1/4	C800 - BE11	1	



FINE GRINDING AND POLISHING WHEELS

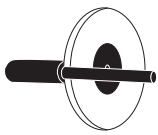
	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
c	○	●	●	●	●	●	●	●	○	●	●	

	PART NO.	SHAPE	D	T	H	SPECIFICATION	STANDARD PKG	COMMENTS
  <p style="text-align: center;">Shape 1</p>	19435	1	5	3/4	20mm	C400 - BE15	1	Surface improvement on pre-ground workpieces (lower stock removal possible)
	2652	1	6	3/4	20mm	C46 - BE15	1	
	7186	1	6	3/4	20mm	C80 - BE15	1	
	2661	1	6	3/4	20mm	C150 - BE15	1	
	71212	1	6	3/4	20mm	C400 - BE16	1	
	7203	1	6	3/4	1 1/4	C400 - BE15	1	
	60663	1	6	2	20mm	C16 - BE13	1	
	60662	1	6	2	20mm	C46 - BE13	1	
	7362	1	8	1	20mm	C80 - BE15	1	
	320369	1	8	1	20mm	C240 - BE15	1	
	22411	1	8	1	1 1/4	C400 - BE15	1	

BE11 = medium, v_{max}= 25m/s
BE13 = soft, v_{max}= 16m/s

BE15 = medium, v_{max}= 20m/s
BE16 = hard, v_{max}= 32m/s

Use 2/3 wheel flange



CONVENTIONAL CERAMICS

Product advantages:

- Less wear
- Cooler grinding
- High cutting ability

Application tips:

- Recommended operating speed: 20 – 30 m/s
- Table traverse speed: 10 – 20 m/min
- Infeed when roughing: 0.01 – 0.03 mm/stroke
- Infeed when smoothing: 0.002 – 0.004 mm/stroke
- Transverse stroke (contact width in%): 30 – 40% of wheel width
- Smoothing out: 1 – 3 strokes (without infeed)
- Ensure good coolant supply




Safety information:

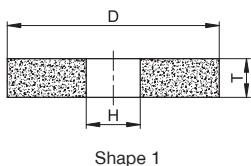
- Take note of the safety information, particularly in the case of maximum operating speed of 50 m/s

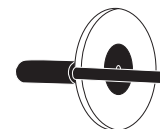


HIGH-ALLOYED STEELS AND HSS

	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
92A			○		●	●	○					●


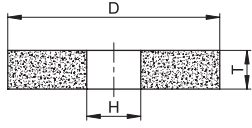
	PART NO.	SHAPE	D	T	H	SPECIFICATION	STANDARD PKG	COMMENTS
	235658	1	7	1/2	1 1/4	92A 46 I7 GV112	1	Maximum operating speed 50m/s Grit size 80 Ra approx. 0.20 – 0.35 µm
	342569	1	7	1/2	1 1/4	92A 60 J7 GV112	1	
	207612	1	8	1/2	1 1/4	92A 46 I6 V112	1	
	167918	1	8	1/2	1 1/4	92A 60 I6 V112	1	
	251114	1	8	1/2	1 1/4	92A 46 I7 GV112	1	
	258248	1	8	1/2	1 1/4	92A 60 I7 GV112	1	
	253286	1	8	3/4	2	92A 46 I7 GV112 40	1	
	208042	1	8	3/4	2	92A 60 I6 GV112 40	1	
	298647	1	10	1	3	92A 46 I7 GV112	1	
	256062	1	10	1	3	92A 60 I7 GV112	1	
	919613	1	12	1	3	92A 46 I7 GV112	1	
	919615	1	12	1	3	92A 60 J7 GV112	1	
	456293	1	12	1	5	92A 46 I7 GV112	1	
	446642	1	12	1	5	92A 60 J7 GV112	1	
	330267	1	14	1	5	92A 46 I7 GV112	1	
	421612	1	14	1	5	92A 60 J7 GV112	1	
	147591	1	14	1 1/2	5	92A 46 I8 AV217	1	





HIGH-ALLOYED STEELS AND HSS

89A	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
			●	○	●	●				○	●	

	PART NO.	SHAPE	D	T	H	SPECIFICATION	STANDARD PKG
  Shape 1	168994	1	7	1/2	1 ^{1/4}	89A 46 J7 AV217	1
	180891	1	7	1/2	1 ^{1/4}	89A 60 J8 AV217	1
	325059	1	8	1/2	1 ^{1/4}	89A 46 J7 AV217 50	1
	325058	1	8	1/2	1 ^{1/4}	89A 60 J8 AV217 50	1
	183670	1	8	1	2	89A 46 J7 AV217	1
	57967	1	8	1	2	89A 60 J8 AV217	1
	158422	1	8	3/4	1 ^{1/4}	89A 46 J7 AV217	1
	101095	1	8	3/4	1 ^{1/4}	89A 60 J8 AV217	1
	16810	1	8	3/4	2	89A 46 J7 AV217	1
	54976	1	8	3/4	2	89A 60 J7 AV217 40	1
	90012	1	10	3/4	3	89A 46 J7 AV217	1
	114803	1	10	3/4	3	89A 60 J8 AV217	1
	81122	1	10	1	3	89A 46 J7 AV217	1
	100211	1	10	1	3	89A 60 J8 AV217	1
	209902	1	12	1	3	89A 46 J7 AV217	1
	209903	1	12	1	3	89A 60 J8 AV217	1
	167684	1	14	1	5	89A 46 J8 AV217	1
	424624	1	14	1	5	89A 60 J7 AV217	1
	92933	1	14	1 ^{1/2}	5	89A 46 J7 AV217	1
	106219	1	14	1 ^{1/2}	5	89A 60 J7 V217	1



HAND HELD GRINDING

TYROLIT offers a wide choice of hand-operated tools, both in aluminium oxide and silicon carbide, depending on the application.

Information on specification

Files, bench stones, knife blade files and hollow chisel stones:

- COURSE = grit size 120
- MEDIUM = grit size 240
- FINE = grit size 400
- SUPER = grit size 1200 (shape 90B, 90HM)

Combination stones

- COMBI = grit size 120/400


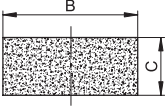
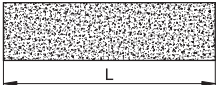
TYFIX Hand rubbing bricks

- For improving surface (removal of rust, colour, contamination)
- MEDIUM = grit size 100
- FINE = grit size 240



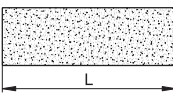




FLAT FILES, SHAPE 9010



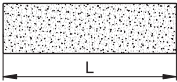
	PART NO.	SHAPE	L	C	B	SPECIFICATION	STANDARD PKG
  Shape 9010 	548	9010	4	1/8	1/4	89AMITTEL	10
	547	9010	4	1/8	1/4	89AFEIN	10
	556	9010	4	1/8	1/4	CGROB	10
	557	9010	4	1/8	1/4	CMITTEL	10
	555	9010	4	1/8	1/4	CFEIN	10
	550	9010	4	1/4	3/8	89AMITTEL	10
	549	9010	4	1/4	3/8	89AFEIN	10
	559	9010	4	1/4	3/8	CGROB	10
	560	9010	4	1/4	3/8	CMITTEL	10
	558	9010	4	1/4	3/8	CFEIN	10
	552	9010	6	1/4	1/2	89AMITTEL	10
	551	9010	6	1/4	1/2	89AFEIN	10
	562	9010	6	1/4	1/2	CGROB	10
	563	9010	6	1/4	1/2	CMITTEL	10
	561	9010	6	1/4	1/2	CFEIN	10
	554	9010	6	1/2	1/4	89AMITTEL	10
	566	9010	8	1/2	1/4	CMITTEL	10
	564	9010	8	1/2	1/4	CFEIN	10

SQUARE FILES, SHAPE 9011




	PART NO.	SHAPE	L	B	SPECIFICATION	STANDARD PKG
  Shape 9011 	729	9011	4	1/4	89AMITTEL	10
	728	9011	4	1/4	89AFEIN	10
	749	9011	4	1/4	CMITTEL	10
	747	9011	4	1/4	CFEIN	10
	732	9011	4	3/8	89AMITTEL	10
	733	9011	4	3/8	89AFEIN	10
	754	9011	4	3/8	CMITTEL	10
	752	9011	4	3/8	CFEIN	10
	739	9011	6	1/2	89AMITTEL	10
	738	9011	6	1/2	89AFEIN	10
	760	9011	6	1/2	CMITTEL	10
	758	9011	6	1/2	CFEIN	10
	742	9011	6	5/8	89AMITTEL	10
	741	9011	6	5/8	89AFEIN	10
	763	9011	6	5/8	CMITTEL	10
	761	9011	6	5/8	CFEIN	10
	746	9011	8	3/4	89AMITTEL	10
	6341	9011	8	3/4	89AFEIN	10
	768	9011	8	3/4	CGROB	10
	769	9011	8	3/4	CMITTEL	10
767	9011	8	3/4	CFEIN	10	



TRIANGULAR FILES, SHAPE 9020



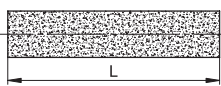
	PART NO.	SHAPE	L	B	SPECIFICATION	STANDARD PKG
  Shape 9020 	501	9020	4	1/4	89AMITTEL	10
	519	9020	4	1/4	CMITTEL	10
	518	9020	4	1/4	CFEIN	10
	504	9020	4	3/8	89AMITTEL	10
	505	9020	4	3/8	89AFEIN	10
	525	9020	4	3/8	CMITTEL	10
	523	9020	4	3/8	CFEIN	10
	510	9020	6	1/2	89AMITTEL	10
	511	9020	6	1/2	89AFEIN	10
	533	9020	6	1/2	CMITTEL	10
	531	9020	6	1/2	CFEIN	10
	512	9020	6	5/8	89AMITTEL	10
	8807	9020	6	5/8	89AFEIN	10
	536	9020	6	5/8	CMITTEL	10
	534	9020	6	5/8	CFEIN	10
	516	9020	8	3/4	89AMITTEL	10
	8808	9020	8	3/4	89AFEIN	10
	542	9020	8	3/4	CMITTEL	10
	540	9020	8	3/4	CFEIN	10

HALF ROUND FILES, SHAPE 9040


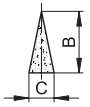
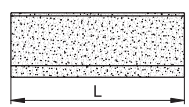
	PART NO.	SHAPE	L	D	SPECIFICATION	STANDARD PKG
  Shape 9040 	6313	9040	4	1/4	89AMITTEL	10
	603	9040	4	3/8	89AMITTEL	10
	607	9040	6	1/2	89AMITTEL	10
	629	9040	6	1/2	CFEIN	10
	610	9040	6	5/8	89AMITTEL	10
	633	9040	6	5/8	CMITTEL	10
	632	9040	6	5/8	CFEIN	10
	637	9040	8	3/4	CMITTEL	10



ROUND FILES, SHAPE 9030


	PART NO.	SHAPE	D	L	SPECIFICATION	STANDARD PKG
  <p>Shape 9030</p> 	660	9030	4	1/4	89AFEIN	10
	616	9030	4	1/4	CMITTEL	10
	614	9030	4	1/4	CFEIN	10
	666	9030	4	3/8	89AMITTEL	10
	664	9030	4	3/8	89AFEIN	10
	656	9030	4	3/8	CFEIN	10
	671	9030	6	1/2	89AMITTEL	10
	657	9030	6	1/2	89AFEIN	10
	693	9030	6	1/2	CMITTEL	10
	691	9030	6	1/2	CFEIN	10
	674	9030	6	5/8	89AMITTEL	10
	698	9030	6	5/8	CMITTEL	10
	696	9030	6	5/8	CFEIN	10

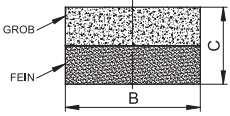
KNIFE BLADE FILES, SHAPE 90FMK

	PART NO.	SHAPE	B	C	L	SPECIFICATION	STANDARD PKG
  <p>Shape 90FMK</p> 	6322	90FMK	4	1/8	1/4	89AMITTEL	10
	6321	90FMK	4	1/8	1/4	89AFEIN	10
	6324	90FMK	4	1/8	1/4	CMITTEL	10

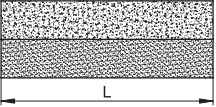


COMBINATION STONES, SHAPE 90K, 90SK


	PART NO.	SHAPE	L	C	B	SPECIFICATION	STANDARD PKG
	185988	90K	3	3/8	11/16	89AKOMBI	10
	186109	90K	3	3/8	11/16	CKOMBI	10
	6314	90K	4	1/2	1	89AKOMBI	10
	642	90K	4	1/2	1	CKOMBI	10
	6318	90K	4	3/4	25	CKOMBI	10
	640	90K	5	3/4	1 1/2	89AKOMBI	10
	6317	90K	5	3/4	1 1/2	CKOMBI	10
	6315	90K	6	1	2	89AKOMBI	10
	644	90K	6	1	2	CKOMBI	10
	6316	90K	8	1	2	89AKOMBI	10
	645	90K	8	1	2	CKOMBI	10

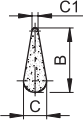


Shape 90K

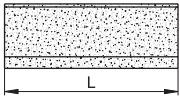


HOLLOW CHISEL STONES, SHAPE 90HM

	PART NO.	SHAPE	L	B	C	C1	SPECIFICATION	STANDARD PKG	
	577	90HM	4	1	1/4	0	89AMEDIUM	10	
	576	90HM	4	1	1/4	0	89AFINE	10	
	584	90HM	4	1	1/4	0	CMEDIUM	10	
	583	90HM	4	1	1/4	0	CFINE	10	
	579	90HM	4 1/2	1 3/4	1/4	1/8	89AMEDIUM	10	
	15885	90HM	4 1/2	1 3/4	1/4	1/8	89AFINE	10	
	587	90HM	4 1/2	1 3/4	1/4	1/8	CMEDIUM	10	
	9017	90HM	4 1/2	1 3/4	1/4	1/8	CFINE	10	
	28465	90HM	4	1 3/4	3/8	1/8	89ASUPER	10	
	6309	90HM	4	1 3/4	3/8	1/8	89AMEDIUM	10	
	578	90HM	4	1 3/4	3/8	1/8	89AFINE	10	
	586	90HM	4	1 3/4	3/8	1/8	CMEDIUM	10	
	6310	90HM	4	1 3/4	3/8	1/8	CFINE	10	
		20332	90HM	6	2	5/8	1/4	CFINE	10


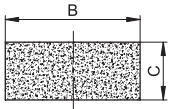
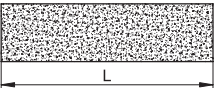


Shape 90HM


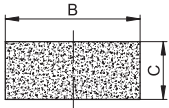
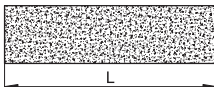




BENCH STONES, SHAPE 90B


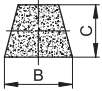
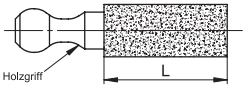
	PART NO.	SHAPE	L	C	B	SPECIFICATION	STANDARD PKG
  <p>Shape 90B</p> 	20311	90B	4	1/4	1	CFEIN	10
	8804	90B	4	1/2	1	89AMITTEL	10
	469	90B	4	1/2	1	CMITTEL	10
	20313	90B	4	1/2	1	CFEIN	10
	28466	90B	4	1/2	1 ^{1/4}	89ASUPER T3	10
	28467	90B	6	1	2	89ASUPER T3	10
	456	90B	6	1	2	89AMITTEL	10
	457	90B	6	1	2	89AFEIN	10
	481	90B	6	1	2	CMITTEL	10
	479	90B	6	1	2	CFEIN	10
	462	90B	8	1	2	89AMITTEL	10
	461	90B	8	1	2	89AFEIN	10
	485	90B	8	1	2	CMITTEL	10
	486	90B	8	1	2	CFEIN	10

COARSE BENCH STONES, SHAPE 90B


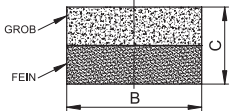
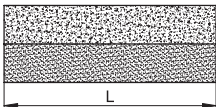
	PART NO.	SHAPE	L	C	B	SPECIFICATION	STANDARD PKG
  <p>Shape 90B</p> 	29382	90B	8	1	2	1 C24 M5 V15	10
	103622	90B	8	1	2	1 C36 L5 V15	10
	28869	90B	8	2	2	1 C24 M5 V15	10



FILES WITH HANDLE SHAPE 90FHG



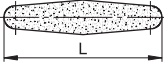
	TYPE NO.	SHAPE	B	C	L	SPECIFICATION	STANDARD PKG
  Shape 90FHG 	79664	90FHG	1 1/2	1 3/16	9	C70 O5 V18	1

COMBINED RUBBING BRICKS FOR TILES, SHAPE 90K

	TYPE NO.	SHAPE	B	C	L	SPECIFICATION	STANDARD PKG
  Shape 90K 	175220	90K	3	1 3/16	6	C24 M5 V15 / C70 L5 V15	1
	146640	90K	5	1 3/16	8	C24 M5 V15 / C70 L5 V15	1




WHETSTONES, SHAPE 90W

	PART NO.	SHAPE	L	C	B	SPECIFICATION	STANDARD PKG
  Shape 90W 	362775	90W	9	1/2	1 ^{3/8}	AC-V	1


HAND DRESSER


Single grit or dual grit machine stone for fine sharpening and deburring

	PART NO.	SHAPE	B	C	SPECIFICATION	STANDARD PKG
	630550	90RRU	4	1 ^{1/2}	50C400L4	1
	336265	90KR	4	1 ^{1/2}	1C100 / 1C180	1

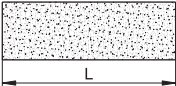


SQUARE FILES, SHAPE 9011


	PART NO.	SHAPE	L	B	SPECIFICATION	STANDARD PKG	COMMENTS
	35677	9011	4	5/8	C80 - BE15	10	Deburring (course)
	6335	9011	4	3/4	C400 - BE15	10	Polishing (fine)

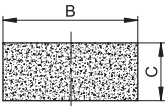


Shape 9011

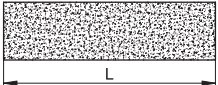


TYFIX HAND RUBBING BRICKS, SHAPE 90TY

	PART NO.	SHAPE	L	C	B	SPECIFICATION	STANDARD PKG	COMMENTS
	1872	90TY	3	3/4	2	C60 - BE5	1	Green Course
	1870	90TY	2	3/4	1 ^{1/2}	C100 - BE5	1	Green Medium
	1873	90TY	3	3/4	2	C100 - BE5	1	Green Medium
	1874	90TY	3	3/4	2	C240 BE5	1	Green Fine
	501861	90TY	3	3/4	1 ^{1/2}	CMITTEL	1	Grey
	502437	90TY	4 ^{1/2}	1 ^{1/8}	2 ^{5/32}	CMITTEL	1	Dark blue
	502457	90TY	4 ^{1/2}	1 ^{1/8}	2 ^{5/32}	CFEIN	1	Light blue




Shape 90TY







DIAMOND SAW SHARPENING

	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	COMMENTS
	484627	90PS	6 x 1 ^{1/4} x 13	SP1		SHARPENING PLATES
	484672	90PS	13 x 2 ^{1/8} x 13	SP1		
	497322	90PS	2 ^{1/8} x 1 x 13	SP1		

HAND-GUIDED LAPPER, SHAPE 90H

	PART NO.	SHAPE	L	L2 - W - X	SPECIFICATION	STANDARD PKG
	91963	90H	6	1 ^{1/2} - 3/8 - 5/64	D35 C50 B 52AL	1
	95717	90H	6	1 - 3/8 - 5/64	D35 C50 B 52AL	1

DIAMOND FILES, SHAPE 90N

	PART NO.	SHAPE	L	C	SPECIFICATION	STANDARD PKG	COMMENTS
	477283	90N	5 ^{1/2}	3 - 1/8	D126 GST	1	Square
	477430	90N	5 ^{1/2}	3 - 1/8	D126 GST	1	Half round
	477289	90N	5 ^{1/2}	3 - 1/8	D126 GST	1	Flat point



SAW SHARPENING

Product advantages:

Specially selected grain qualities and innovative bond systems with efficient grinding wheel design guarantee optimum quality on cutting edge


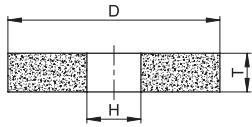
Application tips:

Operating speed: 25 – 40 m/s




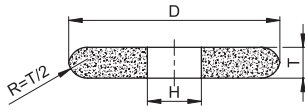
GRINDING TOOLS FOR AUTOMATIC SAW SHARPENING MACHINES

89A	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
			●	○	●	●				○	●	

	PART NO.	SHAPE	D	T	H	SPECIFICATION	STANDARD PKG
  Shape 1	804963	1	200	1.75	32	SA 80 L4 VN-MOD	10
	804957	1	200	3.5	32	SA 80 L5 VN-MOD	10
	804945	1	200	4	32	SA 80 L5 VN-MOD	10
	804993	1	200	5	32	SA 60 L5 VN-MOD	10
	805000	1	200	6	32	SA 60 L5 VN-MOD	10
	804976	1	200	8	32	SA 60 L5 VN-MOD	10
	901252	1	250	3	32	SA 80 L4 VN-MOD	10
	901258	1	250	6	32	SA 60 L5 VN-MOD	10


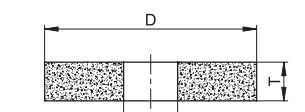


GRINDING TOOLS FOR AUTOMATIC SAW SHARPENING MACHINES

	PART NO.	SHAPE	D	T	H	SPECIFICATION	STANDARD PKG	COMMENTS
  Shape 1F	805007	1F	200	8	32	SA 60 K5 VN-MOD	10	Maximum operating speed 63m/s
	804986	1F	200	8	32	SA 60 L5 VN-MOD	10	
	805008	1F	200	10	32	SA 60 K5 VN-MOD	10	
	804983	1F	200	10	32	SA 60 L5 VN-MOD	10	
	805017	1F	250	8	32	SA 60 K5 VN-MOD	10	
	805018	1F	250	10	32	SA 60 K5 VN-MOD	10	
	805019	1F	250	12	32	SA 60 K5 VN-MOD	10	
	805015	1F	250	13	32	SA 60 K5 VN-MOD	10	





GRINDING TOOLS FOR AUTOMATIC SAW SHARPENING MACHINES

	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	COMMENTS	
  Shape 1	355447	1	225 x 5 x 31.75	89A54I5AV	10	Knife Moulding Wheels for planer heads, planer cutters, planer knives, moulding knives and profile knives.	
	415163	1	225 x 5 x 31.75	89A100H5V	10		
	603237	1	225 x 5 x 31.75	97A54I5AV	10		
	603238	1	225 x 5 x 31.75	97A100H5V	10		
	30806	1	225 x 5 x 60	89A54I5AV53	10		
	102804	1	225 x 5 x 60	89A100H5V111	10		
	514038	1	225 x 5 x 60	97A54I5AV	10		
	514037	1	225 x 5 x 60	97A100H5V	10		



GRINDING TOOLS FOR AUTOMATIC SAW SHARPENING MACHINES

	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	COMMENTS
  Shape 37ST	551306	37ST	8 x 2 ^{1/2} (U) x 1 RIM	M51A46J5B10L	2	Nut inserted Ring A nut inserted wheel used to sharpen chipper, hog, planer and Veneer knives.
	442200	37ST	8 x 3 ^{1/2} (U) x 1 RIM	M51A46J5B10L	2	
	437475	37ST	10 x 4(U) x 1 RIM	M51A46J5B10L 40	2	
	440638	37ST	12 x 4(U) x 1 ^{1/4} RIM	M51A46J5B10L	2	
	566769	37ST	14 x 4(U) x 1 ^{1/2} RIM	M51A46J5B10L	2	
	358276	37ST	8 x 3 ^{1/2} (U) x 1 RIM	454A46F8B22 40	2	
	269007	37ST	8 x 3 ^{1/2} (U) x 1 RIM	454A46G5B22	2	
	269010	37ST	10 x 4(U) x 1 RIM	454A46G5B22 40	2	
	357342	37ST	10 x 4(U) x 1 RIM	454A46F8B22 40	2	
	186009	37ST	10 x 4(U) x 1 RIM	455A60J15V3	2	



CONVENTIONAL CERAMICS

Product advantages:

- ┌ Grit sizes tailored to application (46 – 100) and qualities
- ┌ 89A white aluminium oxide suitable for universal use
- ┌ Cooler grinding


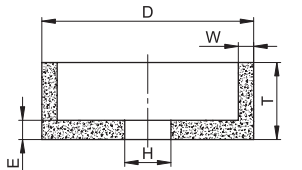
Application tips:

- ┌ Choice of grit size depends on the steel quality to be processed
- ┌ Low-alloyed steels = grit size 46 – 60
- ┌ HSS and special steels = grit size 60 – 80



DRY GRINDING

	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
80A					●	●					●	
92A												
97A						●					●	
454A								●			●	

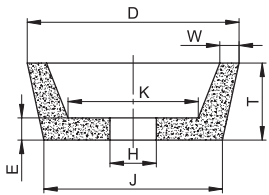
	PART NO.	SHAPE	D	T	H	SPECIFICATION	STANDARD PKG
  Shape 6	201857	6	80	40	20	80A 70 L5 V227	1
	8632	6	4	2	20	89A 60 J5 AV53	1
	165049	6	4	2	1 ^{1/4}	89A 46 J5 V53	1
	154089	6	4	2	1 ^{1/4}	89A 60 J5 V53	1
	213209	6	4	2	1 ^{1/4}	89A 80 J5 V53	1
	181669	6	5	2 ^{1/2}	1 ^{1/4}	89A 46 J5 V53	1
	184603	6	6	2	1 ^{1/4}	89A 60 J5 V53	1
	832242	6	7	3	1 ^{1/4}	92A54G10AV217 35	1
	152366	6	7	3	1 ^{1/4}	97A54G10AV217 28	1



UNIVERSAL TOOL GRINDING
CONVENTIONAL CERAMICS



DRY GRINDING



Shape 11

PART NO.	SHAPE	D	T	H	SPECIFICATION	STANDARD PKG
38361	11	80/57	32	20	89A 46 J5 V53	1
140978	11	80/57	32	20	89A 60 J5 V53	1
213212	11	100/71	40	20	89A 100 I5 V53	1
113342	11	100/71	40	20	89A 46 J5 V53	1
213213	11	100/71	40	32	89A 60 J5 V53	1
179402	11	100/80	50	32	89A 46 J5 V53	1
208367	11	125/96	40	20	89A 60 J5 V53	1
780021	11	125/96	40	32	454A 54 J7 GV3 50	1
261985	11	150/114	50	32	454A 54 I10 V3P2 50	1





CUTTING AND SAW SHARPENING



PREMIUM ★★★

Construction/materials able to be machined: High-performance cut-off wheels without reinforcement for stationary machines and automated saw sharpening machines.

Details: For use on stationary machines without reinforcement, so not suitable for hand held applications; workpiece must be fixed, do not expose to lateral load.



	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  41N	609262	41N	6 x 1/16 x 1 ^{1/4}	A54N4B43	10
	600857	41N	6 x 3/32 x 1 ^{1/4}	A54N4B43	10
	609744	41N	7 x 1/16 x 1 ^{1/4}	A54N4B43	10
	603944	41N	8 x 1/16 x 1 ^{1/4}	A54N4B43	10
	725371	41N	8 x 3/32 x 1 ^{1/4}	A54N4B43	10
	429676	41N	10 x 1/16 x 1 ^{1/4}	A60N4B2	10



PREMIUM ★★★

Construction/materials able to be machined: High-performance cut-off wheels without reinforcement for stationary machines and automated saw sharpening machines.

Details: For use on stationary machines without reinforcement, so not suitable for hand held applications; workpiece must be fixed, do not expose to lateral load.

	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG
  41N	435719	41F	7 x 3/64 x 1 ^{1/4}	A80P4BF38A2	10
	374321	41F	8 x 1/16 x 1 ^{1/4}	A80P4BF38A2	10
	429677	41F	10 x 1/16 x 1 ^{1/4}	A80P4BF38A2	10

* also suitable for saw sharpening



LABORATORY CUTTING-OFF



PREMIUM ★★★ LAB



Construction/materials able to be machined: High performance cut-off wheels without reinforcement for ferrous metals; *** laboratory cut-off wheel range offers the optimum cut-off wheel for a variety of materials, workpiece dimensions and hardnesses.

Details: For use on stationary machines without reinforcement, so not suitable for hand held applications; workpiece must be fixed, do not expose to lateral load.

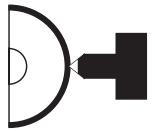
Specification soft for 60.5 – 72.3 HRC

Specification medium for 22.0 – 60.5 HRC

Specification hard up to 22.0 HRC

	PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	STANDARD PKG	CLASSIFICATION	
  41N	167215	41N	9 x 1/16 x 1 ^{1/4}	A80-BM50	10	Medium	
	167207	41N	10 x 1/16 x 1 ^{1/4}	A80-BH50	10	Hard	
	167205	41N	10 x 1/16 x 1 ^{1/4}	A80-BM50	10	Medium	
	165940	41N	10 x 1/16 x 1 ^{1/4}	A80-BS50	10	Soft	
	167226	41N	12 x 5/64 x 1 ^{1/4}	A80-BM50	10	Medium	
	167334	41N	14 x 3/32 x 1 ^{1/4}	A80-BM50	10	Medium	
	167339	41N	16 x 1/8 x 1 ^{1/4}	A80-BM50	10	Medium	
	167351	41N	17 x 1/8 x 1 ^{1/4}	A80-BM50	10	Medium	

* also suitable for saw sharpening



DRESSING AND SHARPENING

Product advantages:

- CSS dressing plates achieve constant dressing results for the entire service life by virtue of precisely defined diamond cross sections
- Multi-grain dressers achieve considerably shorter dressing times in comparison to single grain dressers

Application tips:

- Ensuring sufficient coolant supply while dressing increases lifetime (to avoid thermal overload of dressing diamonds)
- The active width (b_d) describes the effective diamond width of the dressing tools for a certain infeed depth when dressing
- With the overlap rate (U_d), surfaces and stock removal rates can be significantly affected
- The overlap rate (U_d) defines the number of grinding wheel rotations during which time the dressing tool has deployed to its active width
- An increased overlap rate will make the grinding wheel surface smoother and, as a consequence, the actual surface roughness smaller
- Standard values for the overlap rate:
 - Roughing 2 – 3
 - Standard grinding 4 – 6
 - Fine grinding ≥ 7

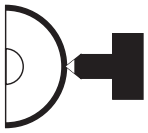


- The formulas specified only apply to dressers with defined effective widths b_d (single-grain dresser, dressing plate)


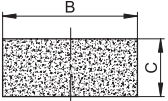
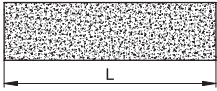
$$U_d = \frac{\text{Diamond effective width}}{\text{Tool feed}} = \frac{b_d \cdot n_s}{v_d}$$

$$v_d = \frac{n_s \cdot b_d}{U_d}$$


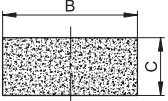
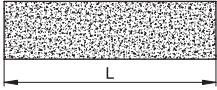
- b_d = Dressing tool effective width
- n_s = Wheel speed
- v_d = Traverse speed of dresser



RECOMMENDED DRESSING STONES FOR ALUMINIUM OXIDE AND SILICON CARBIDE GRINDING WHEELS, SHAPE 90AS

	PART NO.	SHAPE	L	C	B	SPECIFICATION	STANDARD PKG
   Shape 90AS	43311	90AS	6	1	1	CGROB	10
	239600	90AS	6	1	1	1C46P5V18	1
	9009	90AS	6	3/4	2	CGROB	1
	6216	90AS	8	1	2	CGROB	1

RECOMMENDED ROUGHING STONES FOR DIAMOND AND CBN GRINDING WHEELS, SHAPE 90AS

	PART NO.	SHAPE	L	C	B	SPECIFICATION	STANDARD PKG
   Shape 90AS	845595	90AS	4	1/2	1	89A 240 J7 AV17	10
	169539	90AS	6	1	1	89A 220	10



REFERENCE

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TYROLIT

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469	91	629	88	5279	40	10054	101
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