



TYROLIT GROUP 2

The TYROLIT Group

TYROLIT is one of the world's leading manufacturers of grinding and dressing tools and is also a system provider for the construction industry.

Since 1919, our innovative tools have been making an important contribution to technological development in numerous industries. TYROLIT offers tailored grinding solutions for a varied range of applications and a comprehensive assortment of standard tools for customers all over the world.

The family-owned company based in Schwaz, Austria, combines the dynamic strengths of the Swarovski Group with over a hundred years of commercial and technological experience.



Bibielle S.p.A.: The Italian-based company was founded in 1965 and currently has 90 employees. Bibielle is well known for its high-quality three-dimensional abrasive materials for Surface Conditioning Wheels and Belts, Unitized and Convolute Wheels as well as Rough Cleaning Wheels. In 2020 Bibielle became a company of the TYROLIT Group.

Facts & figures



80,000+ products



29 production locations



4,500+ employees worldwide



37 sales locations



500+
international patents

Sales companies in Argentina, Australia, Austria, Belgium, Brazil, Canada, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, India, Indonesia, Italy, Netherlands, Norway, Poland, Portugal, Russia, Spain, South Africa, South Korea, Sweden, Switzerland, Thailand, UAE, UK and the US. Sales partners in 65 other countries.

PRODUCT RANGE 3

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Piktograms







Straight grinder







Stainless Steel





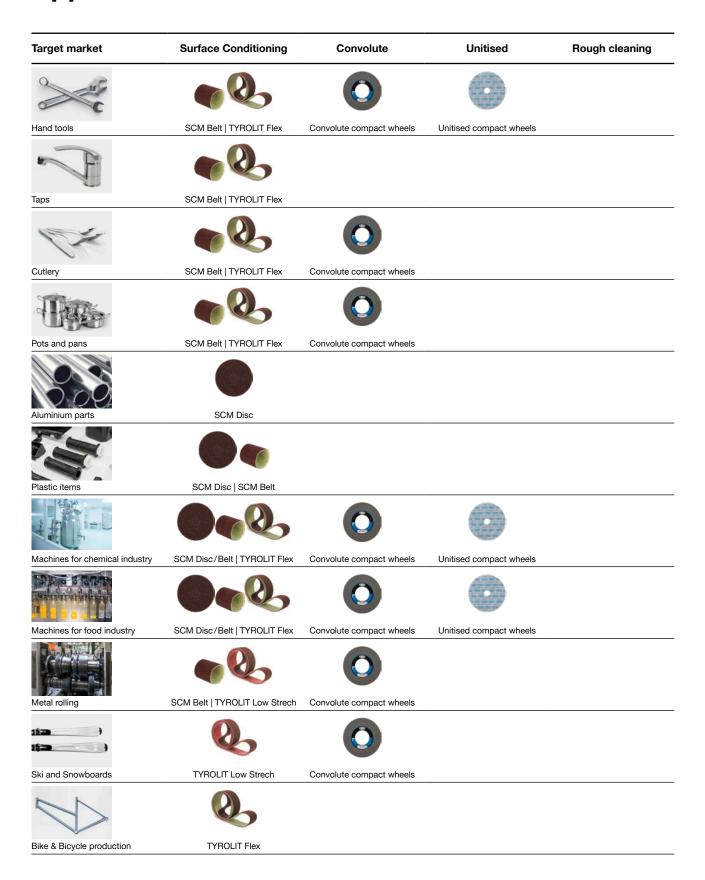
Nonferrous metals

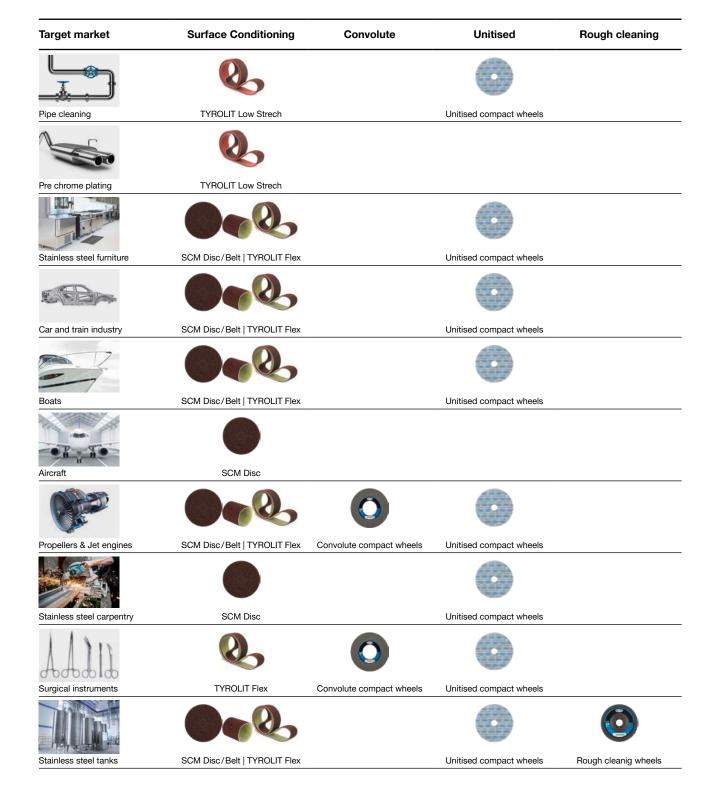


All in One

APPLICATION MATRIX 4

Application Matrix





RA CHART 6

RA CHART (on Stainless Steel AISI 304)

The following table shows how the coarseness of abrasive products effect the surface results of the workpiece. The lower the RA value the finer the surface result is.

Rough cleaning

Rough Cleaning wheels	Ra (µm)
GR rough cleaning	2,30
GR rough cleaning (blue)	2,10



Light deburring - Finishing - Blending

Surface Conditioning	Ra (µm)
HD COARSE	1,60
HD MEDIUM	1,10
A COARSE	1,00
A MEDIUM	0,60
A FINE	0,50
A VERY FINE	0,40
C ULTRA FINE	0,30
OCHIATINE	



Light deburring - Finishing - Polishing

UW - Unitised	Ra (µm)
8 A COARSE	0,70
8 A MEDIUM	0,40
6 C FINE	0,30
2 A MEDIUM	0,25
3 C FINE	0,20
2 C FINE	0,15



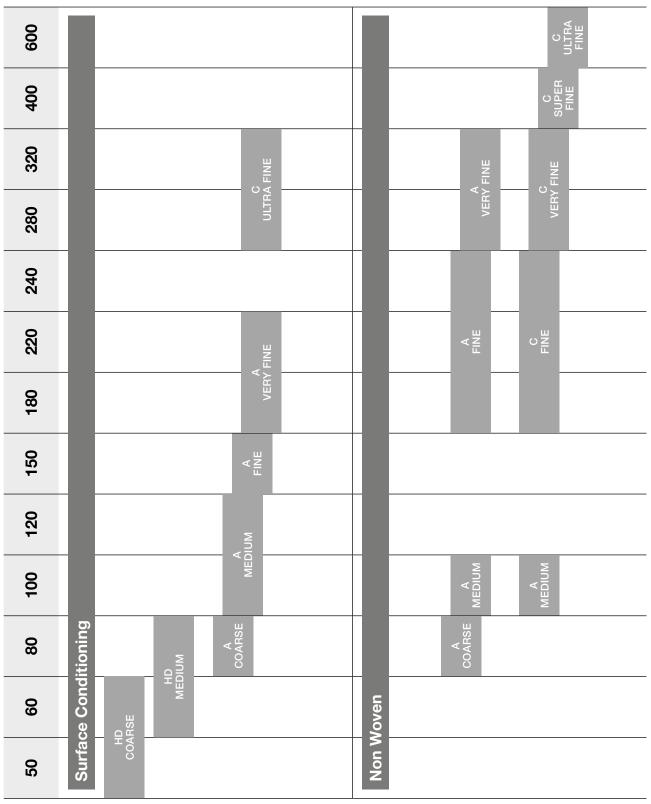
Deburring - Finishing - Polishing

CW - Convolute	Ra (µm)
CW MMF	
2 C COARSE (Satin Finishing / Blending)	0,24
2 C MEDIUM (Satin Finishing / Blending)	0,20
5 A MEDIUM (Finishing / Blending)	0,20
CW DB (Light Deburring / Finishing)	
8 A MEDIUM	0,22
9 C FINE H (HARD)	0,20
9 C FINE	0,19
8 C FINE H (HARD)	0,18
8 C FINE	0,17
7 C FINE	0,15



Correspondance Grit Chart

This chart shows how TYROLIT SCM and non-woven products correspond to FEPA grain sizes.





Surface Conditioning Material

Surface Conditioning Material combines excellent cutting ability with long tool life for continuous optimal surface results. Surface Condition Material is used for simple deburring

work without workpiece deformation, reducing surface roughness, removing paint residues, smoothing surfaces, cleaning of welding seams and general finishing and matting. Surface Conditioning Material can be used in a variety of applications. With a wide range of grain sizes from extra coarse to very fine, we offer products for many different applications.

SCM disc assembly

SCM discs are designed for use on an angle grinder and are available in the popular diameters 115–178 mm, from EXTRA COARSE to VERY FINE.

Cleverly designed: Thanks to the removable centre hole, each of these discs can be used on all three of the supporting discs in our range.



Main application areas:

- + Remove surface imperfections
- + Generate the required finish in one operation
- + Produce clean, smooth, burr-free surfaces
- + Provide a unique combination of aggression, finish and life
- + Give a consistent, repeatable finish



SCM XC discs

for universal use

 Open structure prevents clogging and reduces heat build-up



 Very low vibrations thanks to centering

+ Extremely long lifetime

+ Free of corrosive elements

Application:

- + For removing rust, paint, lacquer and repairing light damaged surfaces
- + For finishing, matting and blending with very low roughness
- + Especially suited for aluminium and lighter finishing on stainless steel

We recommend:

- + Use on adjustable angle grinder
- + "COARSE" grain for cleaning, for removing rust and coatings and for final finishing
- + "MEDIUM" grain for gentle cleaning, for removing burrs and for final finishing
- + "VERY FINE" grain for finishing, matting, and blending



SCM XC discs for universal use





	Shape		Type no.	Dimension	Design	Colour	Max. RPM	Rec. speed	PU
		Disc	34529696	115x22	COARSE	BROWN	13 000	8-9.000	20
			34529699	115x22	MEDIUM	RED	13 000	8-9.000	20
			34529701	115x22	VERY FINE	BLUE	13 000	8-9.000	20
			34529704	125x22	COARSE	BROWN	12 000	7-8.500	20
			34529706	125x22	MEDIUM	RED	12 000	7-8.500	20
			34529707	125x22	VERY FINE	BLUE	12 000	7-8.500	20



SCM discs for universal use





Application

+ For reducing surface roughness, removing paint residues, smoothing surfaces, cleaning welding seams and for deburring edges

Advantage

- + Versatile application options eliminate the need of 1-3 work steps
- + Best lifetime and high stock removal
- Very robust design for high pressure applications with enhanced edge stability.
- + Removable centre hole enables mounting on a wide range of back up pads

We recommend

- + Use on adjustable angle grinders
- "EXTRA COARSE/EXTRA MEDIUM" grain for cleaning, for removing rust and burrs and for minimal stock removal
- "COARSE" grain for cleaning, for removing rust and coatings and for final finishing
- + "MEDIUM" grain for gentle cleaning, for removing burrs and for final finishing
- "VERY FINE" grain as the final step

Shape		Type no.	Dimension	Grade	Colour	Max. RPM	Rec. speed	PU
		0.4000005	115.00	LID EVEDA COADOS	DADY DDOUGL / DLUE			
	Disc	34299305	115x22	HD EXTRA COARSE	DARK BROWN / BLUE	13 000	8-9 000	20
		34047715	115x22	COARSE	BROWN	13 000	8-9 000	20
		34299306	115x22	HD EXTRA MEDIUM	DARK RED / BLUE	13 000	8-9 000	20
		34047720	115x22	MEDIUM	RED	13 000	8-9 000	20
		34047722	115x22	VERY FINE	BLUE	13 000	8-9 000	20
		34299307	125x22	HD EXTRA COARSE	DARK BROWN / BLUE	12 000	7-8 500	20
		34047727	125x22	COARSE	BROWN	12 000	7-8 500	20
		34299308	125x22	HD EXTRA MEDIUM	DARK RED / BLUE	12 000	7-8 500	20
		34047732	125x22	MEDIUM	RED	12 000	7-8 500	20
		34047733	125x22	VERY FINE	BLUE	12 000	7-8 500	20



SCM QUICK-CHANGE DISCS

for steel, stainless steel, nonferrous metals, plastic and wood













Application

- For reducing surface roughness, smoothing surfaces as well as cleaning welding seams on a wide range of materials
- + Ideal for hard-to-reach places

We recommend

- "COARSE" grain for cleaning, for removing rust and coatings and for final finishing
- + "MEDIUM" grain for gentle cleaning, for removing burrs and for final finishing
- + "VERY FINE" grain as the final step

	Shape	Type no.	Diameter	Grade	Colour	Max. RPM	Rec. speed	PU
	QDisc-R	112543	50	COARSE	BROWN	25 000	16 000	50
		112546	50	MEDIUM	RED	25 000	16 000	50
		112550	50	VERY FINE	BLUE	25 000	16 000	50
		112551	75	COARSE	BROWN	20 000	13 000	25
		112581	75	MEDIUM	RED	20 000	13 000	25
		112588	75	VERY FINE	BLUE	20 000	13 000	25



CONDITIONING discs

for steel, stainless steel and nonferrous metals









Application

+ For removing the final scratches in preparation for polishing

Advantage

- + No discolouration thanks to low thermal load (heat build-up)
- Specially developed to achieve the best results even on non-adjustable angle grinders
- + Three-dimensional flap design eliminates clogging of the disc

	Shape		Type no.	Dimension	Grade	Colour	Max. RPM	PU
TROLD		28PCA	742155	115x22,23	COARSE	BROWN	12 000	5
			742157	115x22,23	MEDIUM	RED	12 000	5
			742158	115x22,23	VERY FINE	BLUE	12 000	5
			742148	125x22,23	COARSE	BROWN	11 000	5
			742153	125x22,23	MEDIUM	RED	11 000	5
			742154	125x22,23	VERY FINE	BLUE	11 000	5



SCM BELTS 12

SCM belts

TYROLIT SCM belts are available in all dimensions between 6 mm and 300 mm widths. Please inform us about your application and we will advise you about the best choice for your job.



SCM belts

for universal use

 Outstanding economic efficiency thanks to maximum stock removal combined with short workpiece machining time



+ Comprehensive assortment

+ Robust belt design guarantees maximum lifetime

Application:

+ For reducing surface roughness, smoothing surfaces as well as cleaning and removing welding seams using portable belt grinders

We recommend:

- + "COARSE" grain for cleaning, for removing rust and coatings and for final finishing
- + "MEDIUM" grain for gentle cleaning, for removing burrs and for final finishing
- + "VERY FINE" grain as the final step

SCM BELTS 13

TYROLIT Low Stretch

Specifically designed to work in a belt form and to prevent elongation during application.

The special design ensures exceptional durability.



TYROLIT Flex

This material is unique in the market. Its particular structure makes it very flexible and prevents delamination. Ideal to work in narrow belts form and easy to fit on very compact machinery.



TYROLIT XC (Extra Cushion)

An extraordinary evolution in the panorama of three-dimensional abrasives: The new TYROLIT XC surface conditioning belt. The first material capable of combining the highest levels of finishing, flexibility and durability.

The best performance ever imagined in the world of modern abrasives!

Especially suited for aluminium and lighter finishing on stainless steel.





Compact Wheels

Convolute and unitized compact wheels are mainly used for deburring, blending and finishing of a variety of materials such as all kinds of metals, plastic and composite materials.

Application fields include: design objects, surgical instruments, aircraft engines, components of turbines, boat stainless steel and metal parts, chemical and food processing tools and tanks, cutlery and jewellery, hand tools, threaded parts, jet blades and vanes.

Unitized and convolute wheels are similar types of product, but with important differences: Unitized wheels tend to be smaller in diameter, usually 150mm or less, making them ideal for use on portable power tools or for working on intricate shapes.

Convolute wheels, being larger in diameter, usually 150mm or over, are ideal for stationary or robotic machines.

Main application areas of convolute wheels:

- + Remove medium to heavy burrs
- + Remove parting lines from casting and forging
- + Deburr Stainless Steel pipe threads and punched holes
- + Smooth radius on stamped metal parts
- + Polish welds
- + Generate decorative satin, brushed and antique finishes
- + Blend scratches
- Light deburring applications
- + General purpose cleaning

Main application areas of unitized wheels:

- Polish mechanical parts (jet blades, threads, welds, casted parts)
- + Smoothing edges
- + Cleaning rust, discoloration, coatings
- + Blending marks or scratches
- + Deburring or reduction edges
- + Blending marks or scratches
- + Cleaning scales or oxidation



Convolute compact wheels

for universal use

 No alteration of the surface geometry and no chamfering at the edges



+ Outstanding lifetime

+ Very fine finish

Application:

+ For reducing surface roughness, removing paint residues, smoothing surfaces, cleaning and removing welding seams and for deburring edges

Other sizes and grades are available on request. **Now available in grade Fine-H (extra hard)**



Convolute compact wheels for universal use





	Shape		Type no.	Dimension	Grade	Max. RPM	Rec. speed	PU
		1CW	34200559	152x25x25,4	7 C FINE	6 000	3 600	2
			34200611	152x25x25,4	8 A MEDIUM	6 000	3 600	2
			34200612	152x25x25,4	8 C FINE	6 000	3 600	2
			34529724	152x25x25,4	8 C FINE-H	6 000	3 600	2
		34200614	152x25x25,4	9 C FINE	6 000	3 600	2	
			34529726	152x25x25,4	9 C FINE-H	6 000	3 600	2
			34200621	203x25x76,2	7 C FINE	4 500	2 700	2
			34200622	203x25x76,2	8 A MEDIUM	4 500	2 700	2

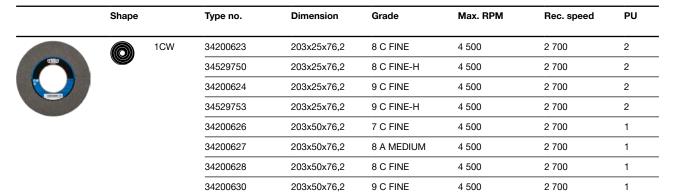


Convolute compact wheels











Unitised compact wheels





for universal use

ApplicationFor removing rust, burrs and scratches as well as for fadir

For removing rust, burrs and scratches as well as for fading, glazing, finishing and grinding welding seams

We recommend

- + 2/3 C FINE for deburring and polishing
- + 6 C FINE / 6 A MEDIUM for deburring, rounding sharp edges and for transitions

Advantage

- Ideally suited to hard-to-reach places thanks to their flexibility
- Universal tool with maximum brush life
- + Cool grinding and low clogging of the wheel for the best surface results

	Shape	Type no.	Dimension	Grade	Max. RPM	Rec. speed	PU
	_	34190123	127x6x22,2	3 C FINE	10 000	6 000	8
		34190124	127x6x22,2	6 A MEDIUM	10 000	6 000	8
		34190206	152x3x25,4	2 C FINE	7 500	4 500	16
THE CHARLE WHEN		34190207	152x3x25,4	3 C FINE	7 500	4 500	16
		34190210	152x3x25,4	6 C FINE	7 500	4 500	16
		34190275	152x6x25,4	2 C FINE	5 000	3 000	8
		34190276	152x6x25,4	3 C FINE	5 000	3 000	8
		34190278	152x6x25,4	6 C FINE	5 000	3 000	8

Other sizes and grades are available on request



QUICK-CHANGE unitised compact wheels

for universal use





Application

+ For deburring, cleaning, fading, finishing and grinding welding seams on all materials

We recommend

- + 2/3 C FINE for deburring and polishing
- + 6 C FINE / 6 A MEDIUM for deburring, rounding sharp edges and for transitions

Advantage

- + Cool grinding and low clogging of the wheel guarantee maximum lifetime
- + Soft wheel surface maintains the surface geometry of the workpiece
- + Compact deburring tools are perfect for grinding hard-to-reach places and edges

	Shape	Type no.	Diameter	Grade	Max. RPM	Rec. speed	PU
11800)	Quick UW	34190135	76	2 A MEDIUM	15 000	9 000	10
(1800 °000 ti		34190137	76	2 C FINE	15 000	9 000	10
ROLL D. TABOUT		34190138	76	3 C FINE	15 000	9 000	10
JOHN JOHN		34190139	76	6 A MEDIUM	15 000	9 000	10
		34190140	76	6 C FINE	15 000	9 000	10

Other sizes and grades are available on request



PRE-POLISH discs

for steel, stainless steel and nonferrous metals









Application

+ For preparing the surface for polishing

Advantage

- + Several layers of abrasive fabric for maximum lifetime and sturdiness
- + Can additionally be used for smaller deburring tasks
- + Specially developed to achieve the best results even on non-adjustable angle grinders

Shape		Type no.	Dimension	Grade	Max. RPM	PU
	28PUA	742381	115x22,23	2 C FINE	12 000	5
		742380	115x22,23	3 C FINE	12 000	5
		742379	115x22,23	6 A MEDIUM	12 000	5
		34529813	115x22,23	6 C FINE	12 000	5
		742385	125x22,23	2 C FINE	11 000	5
		742384	125x22,23	3 C FINE	11 000	5
		742382	125x22,23	6 A MEDIUM	11 000	5
		34529816	125x22,23	6 C FINE	11 000	5
	Shape		28PUA 742381 742380 742379 34529813 742385 742384 742382	28PUA 742381 115x22,23 742380 115x22,23 742379 115x22,23 34529813 115x22,23 742385 125x22,23 742384 125x22,23 742382 125x22,23	28PUA 742381 115x22,23 2 C FINE 742380 115x22,23 3 C FINE 742379 115x22,23 6 A MEDIUM 34529813 115x22,23 6 C FINE 742385 125x22,23 2 C FINE 742384 125x22,23 3 C FINE 742382 125x22,23 6 A MEDIUM	28PUA 742381 115x22,23 2 C FINE 12 000 742380 115x22,23 3 C FINE 12 000 742379 115x22,23 6 A MEDIUM 12 000 34529813 115x22,23 6 C FINE 12 000 742385 125x22,23 2 C FINE 11 000 742384 125x22,23 3 C FINE 11 000 742382 125x22,23 6 A MEDIUM 11 000

Other sizes and grades are available on request



Rough Cleaning Wheels

Rough cleaning wheels are ideal for clearing welds, removing corrosion, rust, scale and paints without an excessive stock removal thus leaving a clean surface to work on.

The open structure prevents the wheels from clogging and makes them ideal for numerous applications.

Main application areas:

- + Clearing welding seams
- + Removing corrosion, rust paints, etc.
- + Prepare surfaces for welding, soldering or anodizing



Rough cleaning wheels

for universal use

 Flexible nylon fibres treated with aggressive abrasive grain for universal use



+ Low heat generation

+ Design prevents clogging and loading of the wheel

Application:

 For removing rust, paint and lacquer and for preparing surfaces for welding, soldering or anodising

We recommend:

- + C COARSE design for fine work on surfaces
- + Two 1GR wheels can be clamped together when using a longer clamping spike for a larger area of contact
- + Use on adjustable straight grinders



Rough cleaning wheels for universal use





	Shape	Type no.	Dimension	Grade	Colour	Max. RPM	Rec. speed	PU
	1GR	898044	100x13x13	C COARSE	BLACK	8 000	6 000	5
•		898051	150x13x13	C COARSE	BLACK	5 300	4 100	5



QUICK-CHANGE rough cleaning wheels for steel, stainless steel and PVC









Application

+ For removing rust, paint, lacquer and underbody sealant using a mini angle grinder

We recommend

+ C COARSE design for fine work on surfaces

Advantage

- + Quiet and non-strenuous grinding with low generation of heat
- + Structure treated with nylon fibres guarantees aggressive grinding
- + No smearing or loading of the disc

Shape	Type no.	Diameter	Grade	Colour	Max. RPM	Rec. speed	PU
QDisc-R	112602	50	C COARSE	BLACK	10 500	6 300	20
	112603	75	C COARSE	BLACK	7 000	4 200	10



Rough cleaning wheels for universal use





Application

+ For removing rust, paint and lacquer and for preparing surfaces for welding, soldering or anodising

We recommend

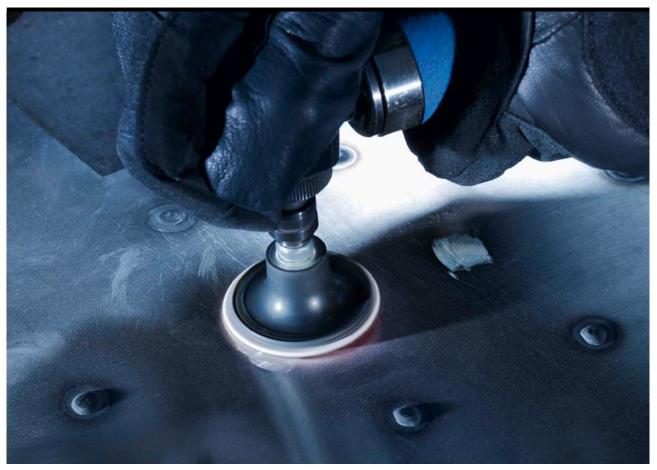
- + C COARSE design for fine work on surfaces
- + A EX. COARSE design for increased abrasiveness and use on edges

Advantage

- Flexible nylon fibres treated with aggressive abrasive grain for universal use and the best results
- + Design prevents clogging and loading of the wheel
- + Minimal generation of heat thanks to open structure

	Shape		Type no.	Dimension	Grade	Colour	Max. RPM	Rec. speed	PU
THOR	THE PAIR	28GR	898014	115x22,23	C COARSE	BLACK	11 000	8 600	5
		898017	125x22,23	C COARSE	BLACK	9 800	7 800	5	
			34206236	115x22,2	A EX. COARSE	BLUE	11'000	8'600	5
- AMOUNT			34206237	125x22,2	A EX. COARSE	BLUE	9'800	7'800	5

ACCESSORIES 21



Accessories

Premium accessories with maximum lifetime in different sizes for mounting different tools on your machine.

ACCESSORIES 22



Back up pads for SCM discs



Application

- + For using SCM discs on angle grinders
- + SCM back up pads available with or without centre hole mounting

Advantage

+ Back up pads with centre hole mountings for self-centring fitting of the disc on the back up pad

Shape		Type no.	Dimension	Mounting	Grade	Max. RPM	PU
	PAD SCM	34050524	115x22	M14	MEDIUM	13 000	1
		34050525	125x22	M14	MEDIUM	12 000	1

Adapters for QUICK CHANGE DISCS



Application

+ Accessory for QUICK-CHANGE DISCS for mounting on mini-angle grinders with diameter 50 mm and 70 mm

Shape		Type no.	Dimension	Mounting	Grade	Max. RPM	PU
<u> </u>	PAD Q-DISC	131783	75-6x40	R	MEDIUM	20 000	1
		34472191	50-6x40	R	HARD	20 000	1

Adapters for straight grinders





Application

+ Permits easy and secure clamping of the compact wheels on straight grinders

		Type no.	Dimension	Specification	PU
00	100SS	905336	S6/H13/L52	SS597	1
93		905337	S8/H13/L67	SS598	1

ACCESSORIES 23



Aluminium flange set for compact wheels



Application

+ Aluminium flange for mounting convolute compact wheels

Туре по.	Dimension	VE
34214174	76.2 FLANGE	1



Unitised compact wheel set





Application

+ For various finishing work on all metal surfaces

Advantage

- + Set includes compact wheels for angle grinders, QUICK CHANGE DISCs for mini-angle grinders, for straight grinders as well as for floorstand grinders
- + Set also includes the necessary accessories and adapters

Type no.	Dimension	Specification	Comments	VE
34270968	50–150	UW + CW	DEMOBOX	1

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