

**MIRKA**

Precision Industries  
**Tooling**

[mirka.com/cafro](http://mirka.com/cafro)

# ABOUT MIRKA

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Mirka Ltd is a world leader in surface finishing technology and offers a broad range of groundbreaking sanding solutions for the surface finishing and precision industry business. The Mirka slogan, Dedicated to the finish, means that we are fully engaged in all details of a solution. We are in constant motion and we strive for a better way. We are the sustainable industry shaper within the segments where we operate. Leadership means that, through insights and proactivity, we offer customers high-quality systems, tools and services.

Mirka's journey began in 1943 and since then we are constantly developing solutions for the surface finishing business. In 2009 we started to invest in the precision industry business

and our vision is to provide customers with products and solutions from start to finish.

This philosophy formed a strategy to gain competence through the acquisition of companies that fit the Mirka brand. To become a part of Mirka we need to share common values – Responsible, Innovative, Respectful and Committed. Added to that they should open up new markets and opportunities. In 2017 this led to the acquisition of Cafro – a reputable family-owned company with a perfect portfolio match. Together we will become a strong and competitive player in the precision industry field.

We have now made the first move into a new market – and the journey has only begun.



The Mirka headquarter and production units are located in Finland. The company has more than 1500 employees and subsidiaries located in Europe, Middle East, North and South America as well as Asia. More than 97% of Mirka's production is exported, with products being sold in over 100 countries.

All Mirka® Cafro products are manufactured at the plant in Fino Mornasco, Italy.

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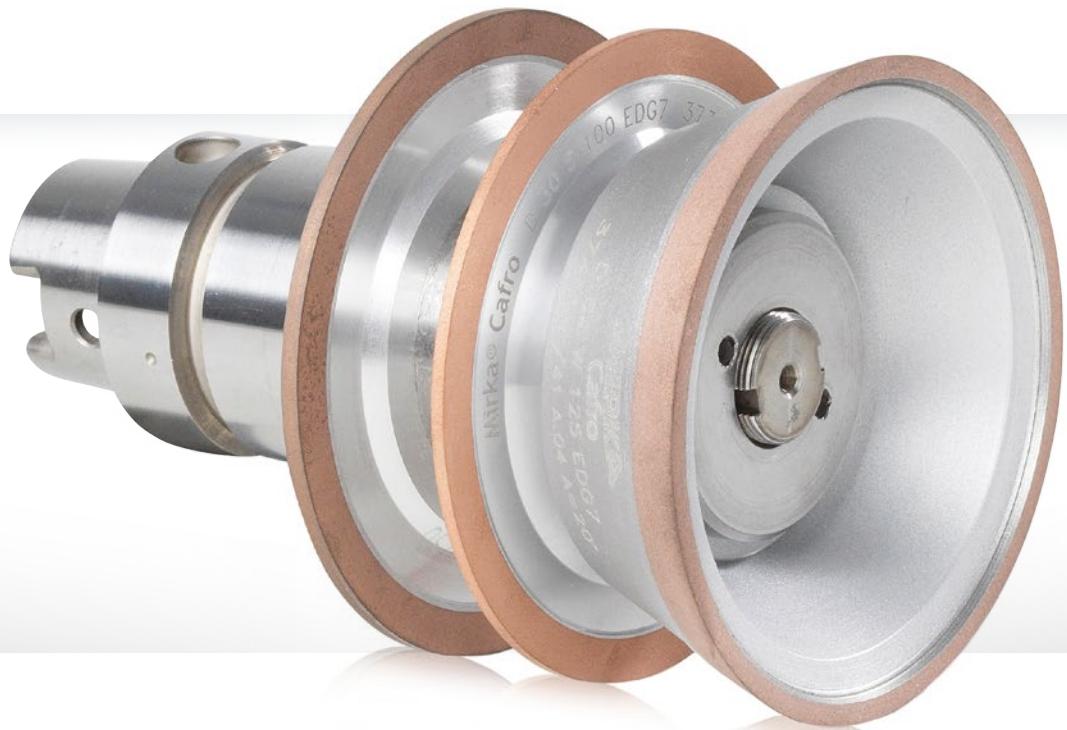
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## PRODUCT RANGE

Mirka's Cafro product line is an innovative, quality-based brand which gives our customers a wide choice of both off-the-shelf and custom-made solutions to fit their individual needs. They are backed with the excellent and proven Mirka customer service, offered to businesses ranging from large multinational corporations to smaller scale manufacturers. We strive to create the suitable professional solution for every one of our customers.

### Resin bonded wheels

Resin bonded wheels are offered in a very broad product range in dimensions from 3mm to 750mm in diameter, with a wide choice of shapes and off-the-shelf products.

We offer diamond wheels for grinding carbides, cermets, ceramics, graphite, precious stones, sintered materials and many others. CBN wheels are designed for grinding hardened steels, cast iron, stellites, nickel alloys for high temperatures, piston rings for automotive engines, stainless steels and Ni-Ti alloys for medical use.

We offer a very large resin bond choice, with the Bond System enabling easy orientation and application. The Stock program helps optimize wheels for the most popular operations in tool manufacturing, sharpening, profiling, surface grinding and outer and inner diameter grinding.

CAFRO  
BOND  
SYSTEM

### Hybrid wheels

Hybrid wheels are the fastest growing bond family. With specific sintering machinery we develop high quality products with natural or artificial porosity, reaching very high removal rates at optimal conditions.

Dimensions range from 20mm to 220mm in diameter, available in all shapes and rim widths for manufacturing carbide and HSS tools with plunge grinding.

We offer diamond wheels for efficient grinding of carbide, cermets, optical glass and electronics manufacturing. CBN wheels are available for grinding HSS and stainless steel rotating tools.

We have a wide choice of off-the-shelf products, with the possibility of custom-made and reprofiled wheels to enable complex geometries.

THE FASTEST  
GROWING  
BOND FAMILY

MIRKA  
Cafro  
B 91 SA 125 HP4  
3742193/52 H4B

## Metal bonded wheels

Metal bonded wheels are the best option for high corner retention wheels for profiling. They are available in continuous rim diameter from 3mm to 350mm, and segmented, executed in continuous rim up to 750mm in diameter.

Metal bonded diamond wheels are for grinding ceramics, graphite, abrasive materials, carbide and dressing VIT wheels. CBN wheels are, for instance, intended for untreated stainless steels for medical use. Metal bonded wheels can be tailored to customer's needs, reprofiled for radii up to 0,08 mm, angles and complex geometries.

EXTREMELY  
SMALL  
TIP RADIUS



## Vitrified wheels

Vitrified wheels are a growing bond family, as machine development enables higher speeds and higher precision grinding. Grinding speeds can reach 140m/s, with very high material removal while maintaining profile stability.

All vitrified wheels can be dressed in the operating machine, in the way of conventional abrasives. The broad product range includes rim diameters from 10mm to 600mm, and segmented continuous rims up to 750mm in diameter. Vitrified wheels are mainly special products, with PCD and internal grinding wheels kept in stock.

Diamond wheels are manufactured for grinding PCD and PCBN, ceramics and carbide. CBN wheels are for manufacturing automotive engine parts, such as camshafts and crankshafts, for hard steel rolls, for jet engine maintenance, for manufacturing HSS tools, outer, inner and surface grinding. Replating service is offered for substituting rims on valuable steel bodies.

FOR HIGHER  
SPEED & PRECISION  
GRINDING



## Electroplated wheels

Electroplated wheels cover a very broad wheel range from 0,6mm to 650mm in diameter, in segmented or continuous rim, suitable for non-wheel products such as files, dressers, blocks, drivers, spindles and dermatology tools.

Grit sizes range from D 30 to D 1152 for diamond and B 46 to B 427 for CBN. We keep electroplated mandrels in DIA and CBN and pantograph chisel sharpening wheels in stock. We also offer plating and replating services, as well as designing special wheels and plated tools. Steel-bodied items can be replated.



## PCD and PCBN tools

PCD tool program is directed towards milling carbon fibres in the aircraft industry, aluminium in the automotive industry, and even turning Teflon and aluminium when manufacturing cookware. PCBN tools are used in oil well drilling, in turning drilling crowns made of hard steel, as well as hard stellite coatings and hardened cast iron in automotive applications. We also offer regrinding and reprofiling as well as special custom-made tools.



# Mirka® Cafro

## Bond System

**Choosing the ideal wheel for your application has never been so easy**

9 bond families for infinite applications.

HARDNESS

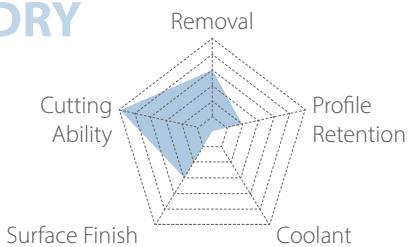
09	<b>METAL</b> Highest edge retention	Hardest bonds, ideal when excellent profile retention and minimum wear are required, even on abrasive materials.
08	<b>HYBRID</b> Top performance on CNC machines	Mirka® Cafro Hybrid bonds with natural or induced porosity ensure high performances in carbide tools' construction; they have been optimized both for the profile retention of 11V9 and 12V9 wheels that for high-removal, single-pass creep-feed grinding.
07	<b>EDG</b> Optimized for microtools	First developed for micro-tools, those bonds have a continuously expanding application range, thanks to their heat resistance characteristics.
06	<b>SUPERFIN</b> Mirror finish surfaces on CNC	One of Mirka® Cafro's success stories: specifically developed for tungsten carbide endmills' and drills' lapping, achieving surface roughness. $Ra < 0.05 \mu$ and $Rz < 0.4 \mu$ .
05	<b>TOP</b> The highest edge retention among the resin bonds	A new family in the Mirka® Cafro Bond System for the best heat transfer from the workpiece, in order to allow corner stability and a reduced cutting pressure.
04	<b>PRO</b> Profile holding and removal	This Mirka® Cafro Bond System family allows the best compromise between cutting ability and profile holding, together with a silent grinding.
03	<b>CNC</b> High removal on CNC machines	Optimized for applications on CNC machines where high removal rate coupled with profile retention and low absorption are required.
02	<b>UNI</b> Universal use on manual machines	A strong free cutting ability allows its use in a wide range of applications: ideal for example for large diameter wheels and centerless grinding.
01	<b>DRY</b> Free-cutting for dry grinding	Developed for dry grinding, thanks to its cold cutting ability it is suggested also for applications with large contact areas.

## Mirka® Cafro Bond System

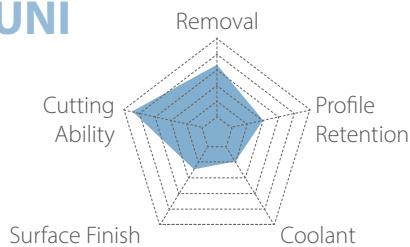
Mirka® Cafro BOND SYSTEM is the innovative managing method of Mirka® Cafro's resin bonds: 6 bond families dedicated to specific application fields, each divided in a numeric scale – odd numbers for Diamond and even numbers for CBN – which defines quickly, easily and intuitively the optimized solution to your specific grinding operation.

DIAMOND	OPERATION	CBN
EDG 7 EDG 5	Best edge retention	EDG 8 EDG 6
EDG 3 EDG 1		EDG 4 EDG 2
TOP 7 TOP 5	Edge Retention	TOP 8 TOP 6
TOP 3 TOP 1		TOP 4 TOP 2
PRO 7 PRO 5	Profiling	PRO 8 PRO 6
PRO 3 PRO 1		PRO 4 PRO 2
CNC 7 CNC 5	High removal	CNC 8 CNC 6
CNC 3 CNC 1	CNC grinding	CNC 4 CNC 2
UNI 7 UNI 5	Manual grinding	UNI 8 UNI 6
UNI 3 UNI 1	Surface grinding	UNI 4 UNI 2
DRY 7 DRY 5	Dry grinding	DRY 8 DRY 6
DRY 3 DRY 1	Large contact areas	DRY 4 DRY 2

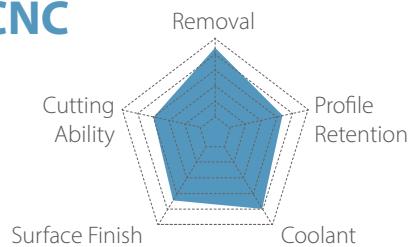
### DRY



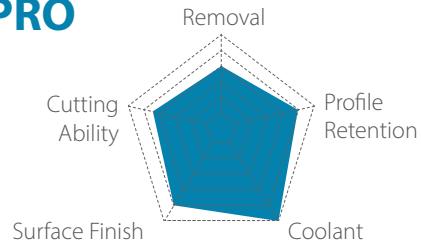
### UNI



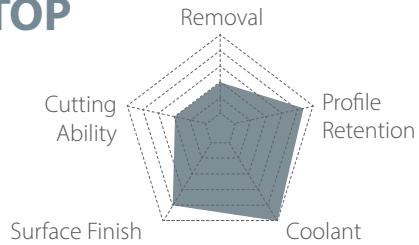
### CNC



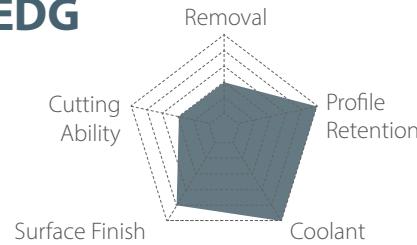
### PRO



### TOP



### EDG



A selection of wheels optimized with Mirka® Cafro Bond System are available at stock for immediate delivery. Ask your Mirka® contact for the Stocklist.

## FEPA Shapes

Standard shape	Some of the most common derived shapes		
6A2	6C2	6V5	6Y2
9A3	9A9		
4A2	4V2	1A2	1V2
13A2	13V2	13BH2	4V5
11A2	11C2	11V2	11V5
11V9	15V9	11V9P	
4BT9	4B9	4B2	4ET2
12V4	11V4		
14A1	14D1V	14A1Q	3A1
1A1 ≥75mm Ø	1D1V	1Q1	1M1
14F1Q	1F1R	14F1	1P1
14FF1	1FF1	1GG1	1DD1
1A1W	1U1W	1DD1W	
1A1 <75mm Ø	1A8	6A9P	

Standard shape	Some of the most common derived shapes		
6A9	6V9	11A9	6A2P
11VV2	3AA1	14AA1	6AA2
10A2		10BH2	10V2
12A2			12V2
12V9		12V9P	10V9
13V9		SHARK	4V9
1A1R	1A1X	3A1R	14A1R
14EE1	14EF1	1E1	14E1
1V1	1VL1	1V1P	3V1
1VF1	1S1	1VF1P	3VF1
L			LG10
PL		PMR	1PL
1U1W		1EE1W	1R1W

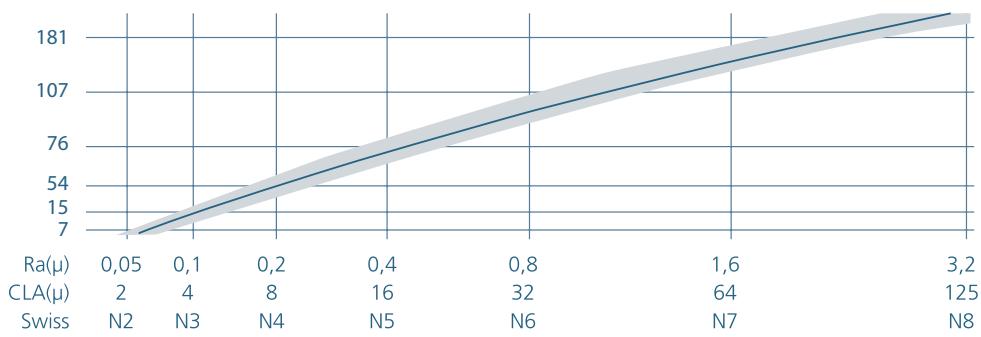
Designation according to the standard ISO 6106-2005 and FEPA 2005

## Grit Size

A comparative table for the measurement of diamond and CBN grit size distribution. The columns refer to the international standards for super-abrasive grit size definition.

FEPA	U.S.	MESH	DIN	GRIT SIZE CLASS	
7	2500	-	7		FEPA
10	2000	-			ISO 6106-2005 standard, issued according to FEPA (Federation of European Producers of Abrasives) recommendations
12	1500	-			
15	1200	-	15	MICRON	
20	1000	-			
25	800	-			
30	600	500/600	30		MESH
35	500	400/500	35	VERY FINE	ANSI B74.16-2002 American standard
46	400	325/400			
54	325	270/325	45		DIN
64	280	230/270	55		DIN 848-65 German standard
76	220	200/230	60	FINE	
91	180	170/200	70		
91	180	170/200	85		
107	150	140/170	90		GRIT SIZE CLASS
126	120	120/140	100		an indicative description referred to precision grinding
151	100	100/120	120		
181	80	80/100	150		
252	60	60/80	200	MEDIUM	
301	50	50/60	250		
427	40	40/50	280	VERY LARGE	
602	30	30/40	350		
852	20	20/30		SPECIAL USE	
1182	16	16/20			

## Grain - Roughness Ratio



Just as an indication, you can find right here a table of the various types of roughness that can be reached on carbide surface grinding (cutting speed approx. 24 m/sec - table speed 15 m/min) coolant: water based emulsion

## Abrasive Concentration

The abrasive concentration is expressed in carats / cc, and it stands for the ratio between its weight and the volume of the abrasive conglomerate; the weight of the grit cladding, if present, is not taken into account.

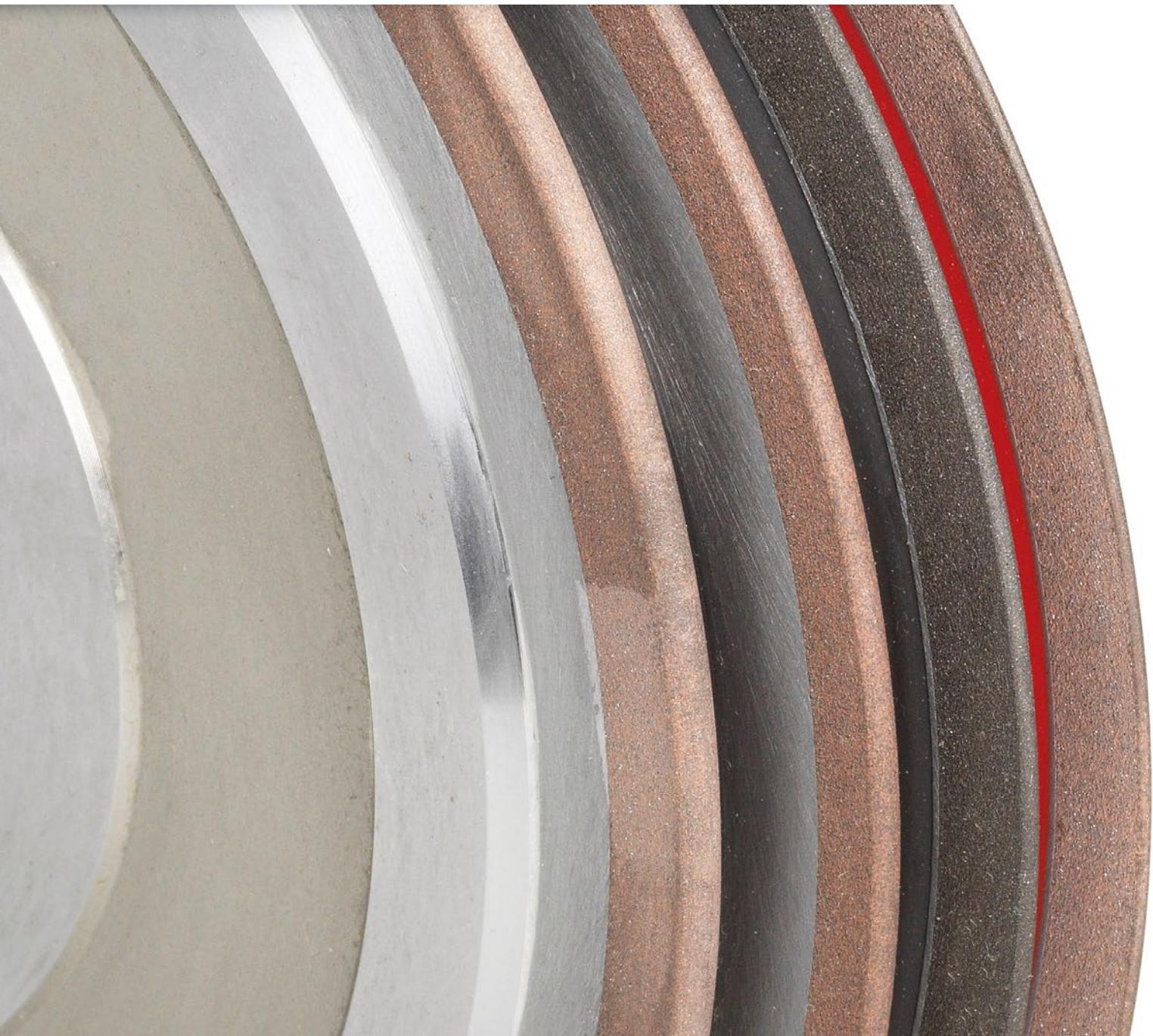
Concentration	35	45	50	68	75	90	100	125	150
Ct/cm <sup>3</sup>	1,5	2,0	2,2	3,0	3,3	4,0	4,4	5,5	6,6

# Precision Industries





# STOCKLIST 2020



# Mirka® Cafro

## Wheel Decoding

Always focusing on simplification and on customers' needs, Mirka® Cafro presents here the decoding of its wheels' description, allowing to define univocally shape, dimensions and abrasive rim specifications of its wheels. It is now possible to identify quickly the wheel necessary for your application, to verify its availability at stock or to simplify the request for custom-made wheels.



Wheel dimensions							Superabrasive rim specifications			
11V9G	20°	100	10	3	35	20	D 64	SR	125	M414
F (Shape)	α (Angle)	ØD	W	X	T	ØH	G (Grit)	Q (Quality)	C (Conc.)	L (Bond)

**F** Shape according to FEPA norm  
(See pages 8-9)

**α** Eventually rim angle or hub material

**ØD** Outside Diameter

**W** Width of superabrasive rim

**X** Depth of superabrasive rim

**T** Total wheel height

**ØH** Bore or shaft diameter

**G** Superabrasive grit size dimension.  
(D=Diamond, B=CBN)

**Q** Superabrasive Quality  
(CAFRO code)

**C** Superabrasive concentration

**L** Bond (CAFRO code)

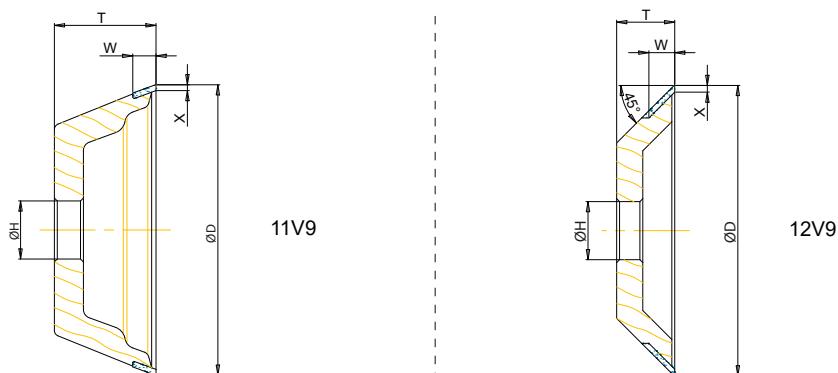


## "EDG" DIAMOND WHEELS FOR CARBIDE TOOLS

"EDG" cup wheels with higher corner holding ability and finishing – preferably on CNC machines

### Products in polyimide bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
A.01	11V9G/AP	70°	75	10	2	35	20	D 64	W	125	EDG7	E913600211628ED7.16
A.03	11V9G/AP	70°	100	10	2	35	20	D 46	W	125	EDG7	E949800191628ED7.16
A.02	11V9G/AP	70°	100	10	2	35	20	D 64	W	125	EDG7	E949800211628ED7.16
A.04	11V9G/AP	70°	100	10	3	35	20	D 64	W	125	EDG7	E877500211628ED7.16
A.05	12V9P/AP	45°	100	10	2	20	20	D 64	W	125	EDG7	E913700211628ED7.16
A.06	12V9P/AP	45°	125	10	2	25	20	D 64	W	125	EDG7	E913800211628ED7.16



# TOOL MANUFACT. ON CNC MACHINE – HIGH PERFORMANCE

Narrow rim peripheral wheels – small Ø endmill fluting

## Products in hybrid bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
H.07	3A1	-	100	4	10	8	20	D 64	SQ	125	M413	E57590121J328413.16
H.36	3A1	-	100	6	10	10	20	D 64	SY	125	M405	E5759001L8D28405.16

Peripheral wheels – rotating tools fluting – high performance CNC machines

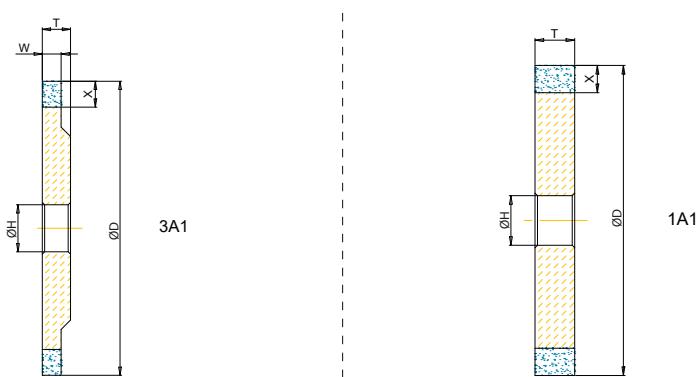
## Products in hybrid bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
H.PA	1A1	-	100	10	10	10	20	D 64	SQ	125	HP3	E59730021J328H3P.16
H.PB	1A1	-	100	12	10	12	20	D 64	SQ	125	HP3	E50950021J328H3P.16
H.PC	1A1	-	100	15	10	15	20	D 64	SQ	125	HP3	E18880021J328H3P.16
H.PH	1A1	-	125	10	10	10	20	D 64	SQ	125	HP3	E60720021J328H3P.16
H.PJ	1A1	-	125	12	10	12	20	D 64	SQ	125	HP3	E63690021J328H3P.16
H.PK	1A1	-	125	15	10	15	20	D 64	SQ	125	HP3	E62190021J328H3P.16
H.PO	1A1	-	150	12	10	12	20	D 64	SQ	125	HP3	E74570021J328H3P.16

Peripheral wheels – rotating tools fluting – low power / up to 8 bar coolant pressure

## Products in hybrid bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
H.20	1A1	-	75	10	10	10	20	D 64	SQ	125	M405	E51710021J328405.16
H.09	1A1	-	100	8	10	8	20	D 64	SQ	125	M405	E59720021J328405.16
H.37	1A1	-	100	10	10	10	20	D 64	SQ	125	M404	E59730021J328404.16
H.38	1A1	-	100	12	10	12	20	D 64	SQ	125	M404	E50950021J328404.16
H.39	1A1	-	100	15	10	15	20	D 64	SQ	125	M404	E18880021J328404.16
H.40	1A1	-	125	10	10	10	20	D 64	SQ	125	M404	E60720021J328404.16
H.41	1A1	-	125	12	10	12	20	D 64	SQ	125	M404	E63690021J328404.16
H.42	1A1	-	125	15	10	15	20	D 64	SQ	125	M404	E62190021J328404.16
H.43	1A1	-	150	12	10	12	20	D 64	SQ	125	M404	E74570021J328404.16



# TOOL MANUFACT. ON CNC MACHINE – HIGH PERFORMANCE

1V1 peripheral wheels with inclined rim for gashing and fluting – high performance CNC machines

## Products in hybrid bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
H.53	1V1/	10°	100	10	10	10	20	D 64	SY	125	HP3	E7521031L8D28H3P.16
H.74	1V1/	15°	100	10	10	10	20	D 64	SY	125	HP3	E7521011L8D28H3P.16
H.54	1V1/	20°	100	10	10	10	20	D 64	SY	125	HP3	E7521021L8D28H3P.16
H.55	1V1/	30°	100	10	10	10	20	D 64	SY	125	HP3	E7521041L8D28H3P.16
H.76	1V1/	10°	100	12	10	12	20	D 64	SY	125	HP3	E7547011L8D28H3P.16
H.57	1V1/	15°	100	12	10	12	20	D 64	SY	125	HP3	E7547021L8D28H3P.16
H.77	1V1/	20°	100	12	10	12	20	D 64	SY	125	HP3	E7547031L8D28H3P.16
H.78	1V1/	30°	100	12	10	12	20	D 64	SY	125	HP3	E7547051L8D28H3P.16
H.79	1V1/	10°	100	15	10	12	20	D 64	SY	125	HP3	E6867041L8D28H3P.16
H.59	1V1/	15°	100	15	10	12	20	D 64	SY	125	HP3	E6867001L8D28H3P.16
H.80	1V1/	20°	100	15	10	12	20	D 64	SY	125	HP3	E6867011L8D28H3P.16
H.81	1V1/	30°	100	15	10	12	20	D 64	SY	125	HP3	E6867031L8D28H3P.16
H.63	1V1/	10°	125	10	10	10	20	D 64	SY	125	HP3	E7551011L8D28H3P.16
H.75	1V1/	15°	125	10	10	10	20	D 64	SY	125	HP3	E7551021L8D28H3P.16
H.64	1V1/	20°	125	10	10	10	20	D 64	SY	125	HP3	E7551031L8D28H3P.16
H.65	1V1/	30°	125	10	10	10	20	D 64	SY	125	HP3	E7551051L8D28H3P.16
H.82	1V1/	10°	125	12	10	12	20	D 64	SY	125	HP3	E7552011L8D28H3P.16
H.68	1V1/	15°	125	12	10	12	20	D 64	SY	125	HP3	E7552021L8D28H3P.16
H.69	1V1/	20°	125	12	10	12	20	D 64	SY	125	HP3	E7552031L8D28H3P.16
H.83	1V1/	30°	125	12	10	12	20	D 64	SY	125	HP3	E7552051L8D28H3P.16
H.71	1V1/	10°	125	15	10	15	20	D 64	SY	125	HP3	E7553011L8D28H3P.16
H.84	1V1/	15°	125	15	10	15	20	D 64	SY	125	HP3	E7553021L8D28H3P.16
H.85	1V1/	20°	125	15	10	15	20	D 64	SY	125	HP3	E7553031L8D28H3P.16
H.86	1V1/	30°	125	15	10	15	20	D 64	SY	125	HP3	E7553041L8D28H3P.16

1V1 peripheral wheels with inclined rim for gashing and fluting – low power / up to 8 bar coolant pressure

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
H.50	1V1/	10°	100	10	10	10	20	D 64	SY	125	M404	E7521031L8D28404.16
H.72	1V1/	15°	100	10	10	10	20	D 64	SY	125	M404	E7521011L8D28404.16
H.51	1V1/	20°	100	10	10	10	20	D 64	SY	125	M404	E7521021L8D28404.16
H.52	1V1/	30°	100	10	10	10	20	D 64	SY	125	M404	E7521041L8D28404.16
H.56	1V1/	15°	100	12	10	12	20	D 64	SY	125	M404	E7547021L8D28404.16
H.58	1V1/	15°	100	15	10	12	20	D 64	SY	125	M404	E6867001L8D28404.16
H.60	1V1/	10°	125	10	10	10	20	D 64	SY	125	M404	E7551011L8D28404.16
H.73	1V1/	15°	125	10	10	10	20	D 64	SY	125	M404	E7551021L8D28404.16
H.61	1V1/	20°	125	10	10	10	20	D 64	SY	125	M404	E7551031L8D28404.16
H.62	1V1/	30°	125	10	10	10	20	D 64	SY	125	M404	E7552011L8D28404.16
H.66	1V1/	15°	125	12	10	12	20	D 64	SY	125	M404	E7552021L8D28404.16
H.67	1V1/	20°	125	12	10	12	20	D 64	SY	125	M404	E7552031L8D28404.16
H.70	1V1/	10°	125	15	10	15	20	D 64	SY	125	M404	E7553011L8D28404.16
H.06	1V1/	45°	125	10	10	10	20	D 64	SQ	125	M413	E57140021J328413.16

# TOOL MANUFACT. ON CNC MACHINE – HIGH PERFORMANCE

Peripheral wheels with trapezoidal rim for getting 1V1 < 30° shapes – high performance CNC machines

## Products in hybrid bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
* H.PE	1B1V	-	100	10	10/15	10	20	D 64	SY	125	HP3	E7521001L8D28H3P.16
* H.PF	1B1V	-	100	12	10/15	12	20	D 64	SY	125	HP3	E7547001L8D28H3P.16
* H.PG	1B1V	-	100	15	10/15	15	20	D 64	SY	125	HP3	E7549001L8D28H3P.16
* H.PL	1B1V	-	125	10	10/15	10	20	D 64	SY	125	HP3	E7551001L8D28H3P.16
* H.PM	1B1V	-	125	12	10/15	12	20	D 64	SY	125	HP3	E7552001L8D28H3P.16
* H.PN	1B1V	-	125	15	10/15	15	20	D 64	SY	125	HP3	E7553001L8D28H3P.16

Peripheral wheels with trapezoidal rim for getting 1V1 < 30° shapes – low power / up to 8 bar coolant pressure

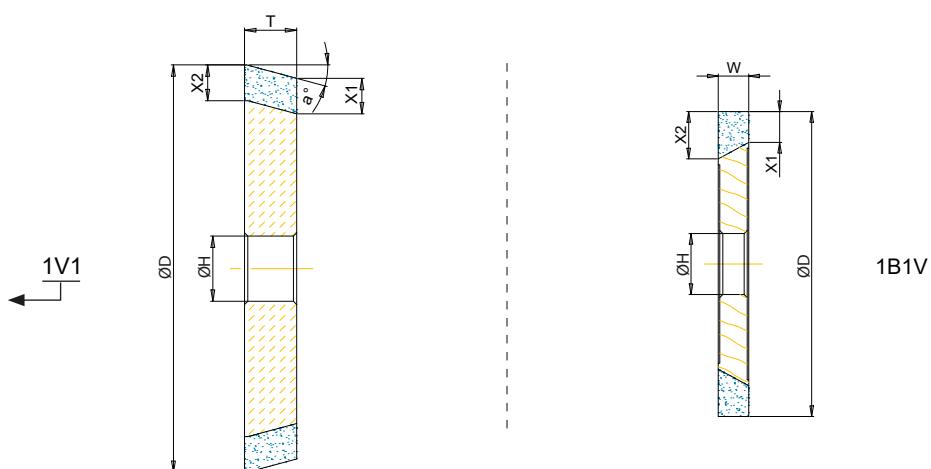
StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
* H.44	1B1V	-	100	10	10/15	10	20	D 64	SY	125	M404	E7521001L8D28404.16
* H.45	1B1V	-	100	12	10/15	12	20	D 64	SY	125	M404	E7547001L8D28404.16
* H.46	1B1V	-	100	15	10/15	15	20	D 64	SY	125	M404	E7549001L8D28404.16
* H.47	1B1V	-	125	10	10/15	10	20	D 64	SY	125	M404	E7551001L8D28404.16
* H.48	1B1V	-	125	12	10/15	12	20	D 64	SY	125	M404	E7552001L8D28404.16
* H.49	1B1V	-	125	15	10/15	15	20	D 64	SY	125	M404	E7553001L8D28404.16

\*) ex. 10/15 :  $X_1 = 10 / X_2 = 15$

CBN peripheral wheels with trapezoidal rim for getting 1V1 < 30° shapes / natural porosity HYB bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
* H.1B	1B1V	-	100	10	10/15	10	20	B 76	SA	125	HP4	E75210022Z628H4P.16
* H.2B	1B1V	-	100	15	10/15	15	20	B 91	SA	125	HP4	E75490023Z628H4P.16
* H.3B	1B1V	-	125	10	10/15	10	20	B 76	SA	125	HP4	E75510022Z628H4P.16
* H.4B	1B1V	-	125	15	10/15	15	20	B 91	SA	125	HP4	E75530023Z628H4P.16

\*) ex. 10/15 :  $X_1 = 10 / X_2 = 15$



## Cup wheels for CNC machines – rotating tools, outer & clearance rake grinding

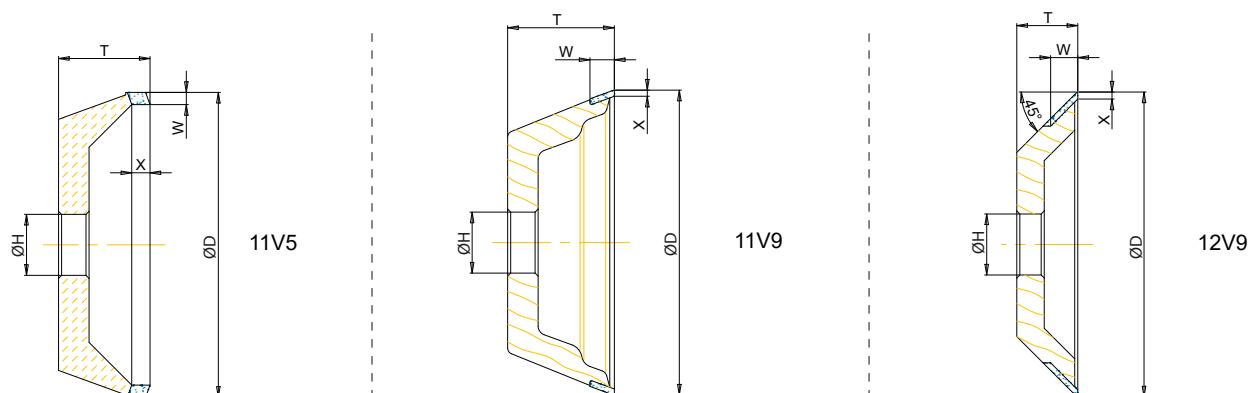
StCode	Shape	Angle	$\varnothing D$	W	X	T	$\varnothing H$	Grit	Qual.	Conc.	Bond	Code
H.03	11V9G	70°	75	8	2	35	20	D 64	SR	125	M414	E40880021Z128414.16
H.01	11V9G	70°	100	10	3	35	20	D 46	SR	100	M414	E39820019Z125414.16
H.02	11V9G	70°	100	10	3	35	20	D 64	SR	125	M414	E39820021Z128414.16

## Cup wheels for CNC machines – gashing

StCode	Shape	Angle	$\varnothing D$	W	X	T	$\varnothing H$	Grit	Qual.	Conc.	Bond	Code
H.04	12V9	45°	100	10	2	20	20	D 64	SR	125	M413	E40890021Z128413.16
H.05	12V9	45°	125	10	2	20	20	D 64	SR	125	M413	E41640021Z128413.16

## Inclined rim cup wheels for CNC machines – rotating tools, spherical clearance grinding

StCode	Shape	Angle	$\varnothing D$	W	X	T	$\varnothing H$	Grit	Qual.	Conc.	Bond	Code
H.22	11V5/	20°	100	4	6	30	20	D 64	SR	125	M414	E73750021Z128414.16



# DIAMOND WHEELS FOR CNC POLISHING CARBIDE TOOLS

SUPERFIN rotating tools mirror finishing wheels for CNC machines

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
S.14	14A1		100	6	6	10	20	SUPERFIN1				0389040SUPERFIN1.16
S.18	1V1/	20°	100	10	6	10	20	SUPERFIN1				0040204SUPERFIN1.16
S.19	1V1/	15°	100	10	6	10	20	SUPERFIN1				0069908SUPERFIN1.16
S.20	1V1/	20°	125	10	6	10	20	SUPERFIN1				0345005SUPERFIN1.16
* S.15	1B1V		100	10	6/8	9	20	SUPERFIN1				E4097005SUPERFIN1.16
* S.16	1B1V		125	10	6/8	9	20	SUPERFIN1				E4099005SUPERFIN1.16
S.11	11V9G	70°	100	10	2	35	20	SUPERFIN1				0339807SUPERFIN1.16
S.12	12V9P	45°	100	10	2	20	20	SUPERFIN1				0800503SUPERFIN1.16
S.13	12V9P	45°	125	10	2	25	20	SUPERFIN1				0800603SUPERFIN1.16

\*) ex. '6/8 :  $X_1 = 6 / X_2 = 8$

# DIAMOND & CBN WHEELS FOR CARBIDE PROFILING

V-profile wheels for CNC machines – profile grinding

## Products in metal bond – Premium Quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
M.02	14EE1/	20°	125	2	8	10	20	D 35	S	125	M8	E40320017U828052.16
M.01	14EE1/	30°	125	3	8	8	20	D 46	S	125	M8	E468700191028052.16

Peripheral wheel for Rollomatic NP5 – peel grinding : roughing operation

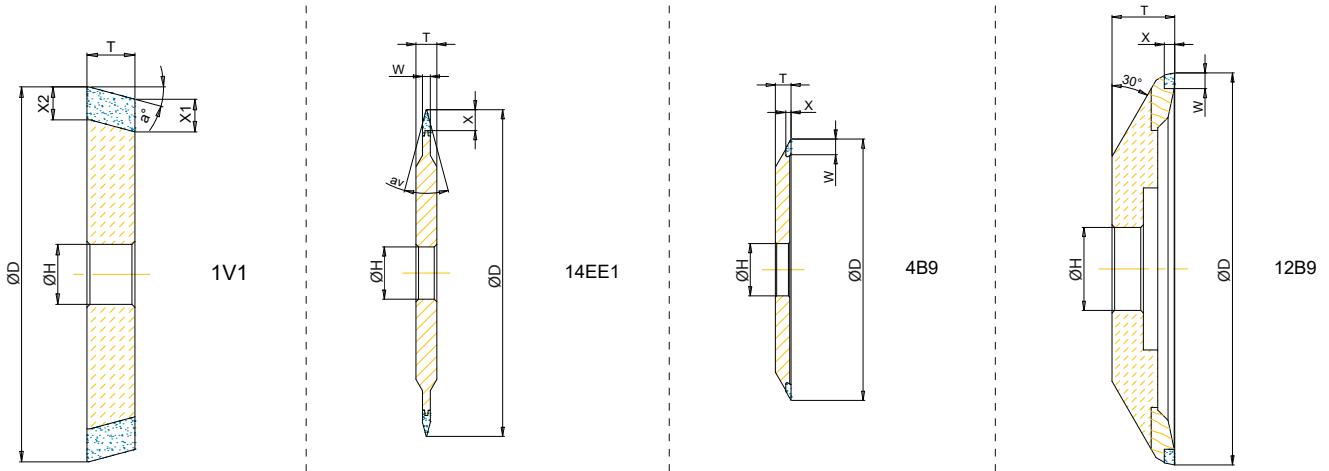
## Products in metal bond – Premium Quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
R.01	4B9/	11°	250	6	8	19,5	31,75	D 91	S	175	M11	E547500R5U832M11.24

Peripheral wheel for Rollomatic NP5 – peel grinding : finishing operation

## Products in resin bond – Premium Quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
R.02	12B9/	11°	150	6	4	24	31,75	D 25	SR	150	TOP7	E39320015J530TP7.24



# DIAMOND & CBN PERIPHERAL WHEELS

Peripheral wheels for o.d. and surface grinding

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
E.12	14A1	-	175	10	6	15	31,75	D 126	WN	75	UNI3	0053205254S19UN3.24
E.13	1A1	-	200	15	5	15	32	D 126	WN	75	UNI3	0701001254S19UN3.25
E.14	14A1	-	300	15	6	22	127	D 126	WN	100	DRY7	0189901254S25DR7.42
E.16	3A1	-	400	15	6	22	127	D 126	WN	75	DRY7	0628303254S18DR7.42
E.18	1A1	-	350	20	5	20	127	D 126	WN	75	UNI3	E881800254S19UN3.42

CBN peripheral wheels for o.d. and surface grinding

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
E.17	14A1/ASB	-	400	20	4	26	127	B 126	W	50	DRY8	0260301252212DR8.42

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
E.08	14A1	-	175	10	6	15	31,75	B 151	WD	75	UNI4	005320526X69UN4.24
E.09	1D1V/	-	300	20	4	20	76	B 126	WD	60	UNI4	092740025X614UN4.37
E.15	14A1	-	350	20	4	28	127	B 126	WD	75	DRY8	062280025X618DR8.42
E.10	1D1V/	-	400	30	6	30	127	B 126	WD	75	UNI4	E38800025X618UN4.42

Dry grinding – or Ø reduction on CNC machines

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
D.30	1A1	-	125	10	6	10	20	D 46	W	100	DRY5	0511707191624DR5.16
D.31	1A1	-	125	10	6	10	20	D 126	W	100	DRY5	0511707251624DR5.16

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
D.33	1A1	-	100	10	6	10	20	D 107	WN	100	DRY5	0465406244S25DR5.16
D.32	1A1	-	125	10	6	10	20	D 107	WN	100	DRY5	0511707244S25DR5.16

Peripheral wheels for general purpose

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
F.01	14A1	-	75	6	6	10	20	D 64	W	125	CNC3	0049804211628CN3.16
F.03	14A1	-	100	8	6	10	20	D 76	W	125	CNC3	0389050221628CN3.16
F.04	1A1	-	100	10	6	10	20	D 91	W	125	CNC3	0465406231628CN3.16
F.05	1A1	-	100	12	6	12	20	D 91	W	125	CNC3	0151303231628CN3.16

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
F.19	1A1	-	75	10	6	10	20	D 76	WN	125	CNC3	0463002224S28CN3.16
F.20	14A1	-	100	8	6	10	20	D 76	WN	125	CNC3	0389050224S28CN3.16
F.21	14A1	-	125	8	6	13	20	D 76	WN	125	CNC3	0338808224S28CN3.16

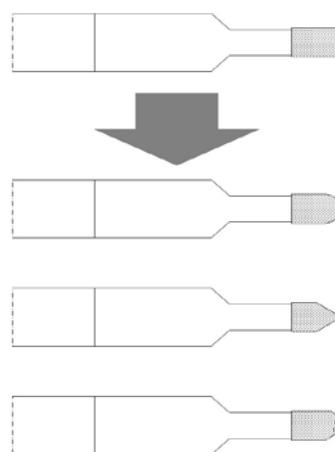


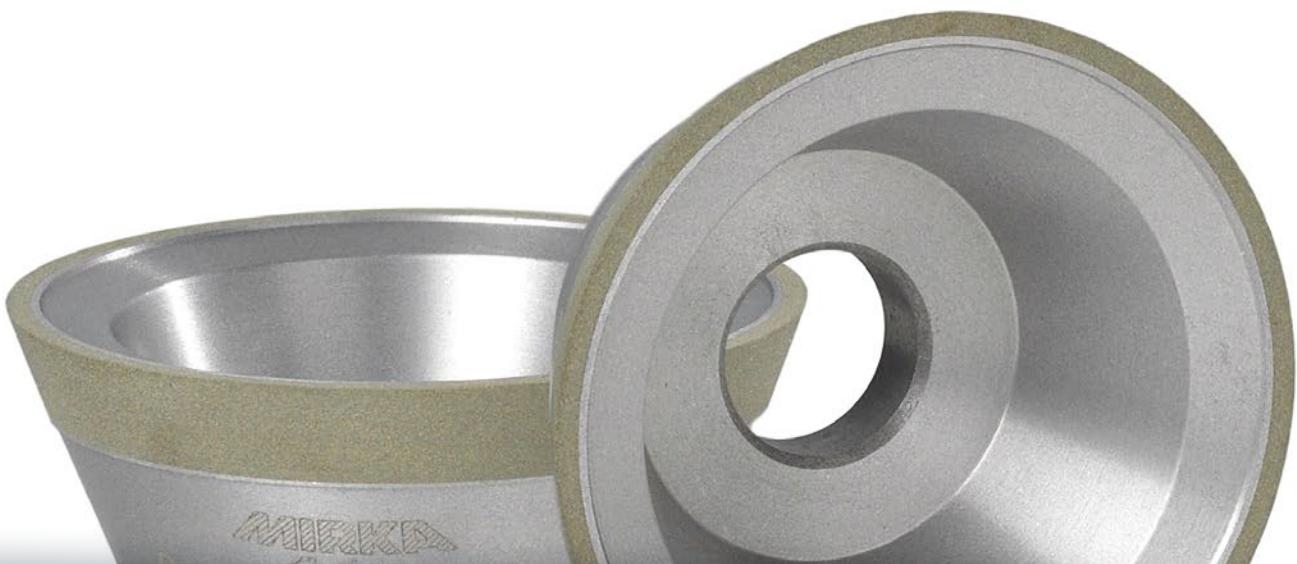
## DIAMOND WHEELS TO BE PROFILED

Peripheral wheels for general purpose – if requested, trued & dressed according to customer'S profile

### Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
P.01	3A1	-	75	4	5	6	20	D 64	W	125	RPK	0199709211628291.16
P.02	3A1	-	75	5	5	6	20	D 64	W	125	RPK	0199710211628291.16
P.13	14A1	-	100	3	6	8	20	D 64	W	125	PRO7	0389008211628PR7.16
P.03	14A1	-	100	3	6	8	20	D 64	W	125	RPK	0389008211628291.16
P.14	14A1	-	100	4	6	8	20	D 64	W	125	PRO7	0389006211628PR7.16
P.04	14A1	-	100	4	6	8	20	D 64	W	125	RPK	0389006211628291.16
P.15	14A1	-	100	6	6	10	20	D 76	W	125	PRO7	0389040221628PR7.16
P.05	14A1	-	100	6	6	10	20	D 76	W	125	RPK	0389040221628291.16
P.06	14A1	-	125	3	6	8	20	D 64	W	125	RFK	0338810211628253.16
P.07	14A1	-	125	4	6	8	20	D 64	W	125	RFK	0338820211628253.16
P.08	14A1	-	125	6	6	12	20	D 76	W	125	RFK	0338806221628253.16
P.09	14A1	-	150	3	6	6	20	D 64	W	125	RFK	0299405211628253.16
P.10	14A1	-	150	4	6	10	20	D 64	W	125	RFK	0299414211628253.16
P.11	14A1	-	150	6	6	10	20	D 76	W	125	RFK	0299430221628253.16





## DIAMOND & CBN WHEELS FOR REGRINDING ON CNC

Peripheral 1V1 wheels for fluting

### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
F.30	1V1/	20°	100	10	6	10	20	D 91	WN	125	CNC3	0040204234S28CN3.16
F.31	1V1/	20°	100	12	6	12	20	D 91	WN	125	CNC3	0040209234S28CN3.16
F.32	1V1/	20°	125	10	6	10	20	D 91	WN	125	CNC3	0345005234S28CN3.16

Peripheral wheels for CNC machines – rotating tools, gashing

### Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
C.12	1V1/	45°	125	10	6	10	20	D 76	W	100	PRO7	0758000221624PR7.16
C.40	1V1/	45°	125	10	6	10	20	D 76	W	100	TOP7	0758000221624TP7.16

### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
C.48	1V1/	45°	125	10	6	10	20	D 76	WN	100	PRO7	0758000224S25PR7.16
C.53	1V1/	45°	125	10	6	10	20	D 76	WN	100	TOP7	0758000224S25TP7.16

CBN peripheral wheels with inclined rim

### Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
B.01	1V1/	45°	125	10	6	10	20	B 107	W	100	PRO8	0758000242224PR8.16
B.28	1V1/	45°	125	10	6	10	20	B 107	W	100	TOP8	0758000242224TP8.16

### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
B.55	1V1/	20°	125	10	6	10	20	B 91	WD	125	CNC2	034500523X628CN2.16
B.40	1V1/	45°	125	10	6	10	20	B 107	WD	100	PRO8	075800024X625PR8.16

## Peripheral wheels for general purpose

### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
B.50	1A1	-	75	6	4	6	20	B 91	WD	100	CNC6	049420423X625CN6.16
B.51	1A1	-	75	8	4	8	20	B 91	WD	100	CNC6	049420523X625CN6.16
B.35	1A1	-	75	10	6	10	20	B 91	WD	125	CNC2	046300223X628CN2.16
B.52	3A1	-	100	4	6	8	20	B 91	WD	100	CNC6	076830123X625CN6.16
B.53	1A1	-	100	6	6	6	20	B 91	WD	100	CNC6	046540423X625CN6.16
B.54	1A1	-	100	8	6	8	20	B 91	WD	100	CNC6	046540523X625CN6.16
B.36	1A1	-	100	12	6	12	20	B 91	WD	125	CNC2	015130323X628CN2.16
B.37	1A1	-	125	12	6	12	20	B 91	WD	125	CNC2	051170823X628CN2.16

## Peripheral wheels with trapezoidal rim for getting 1V1 < 30° shapes

### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
* F.25	1B1V	-	100	10	6/8	9	20	D 91	WN	125	CNC3	E409700234S28CN3.16
* F.26	1B1V	-	100	12	6/10	11	20	D 91	WN	125	CNC3	E409800234S28CN3.16
* F.27	1B1V	-	125	10	6/8	9	20	D 91	WN	125	CNC3	E409900234S28CN3.16
* F.28	1B1V	-	125	12	6/10	11	20	D 91	WN	125	CNC3	E410000234S28CN3.16

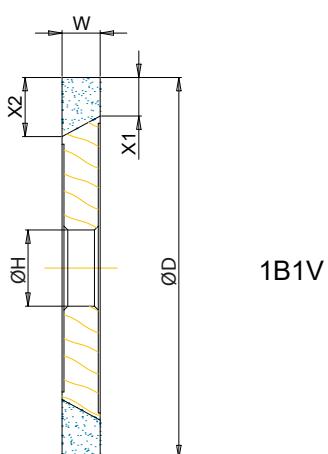
\*) ex. '6/8 :  $X_1 = 6 / X_2 = 8$

## Peripheral wheels with trapezoidal rim for getting 1V1 < 30° shapes

### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
* B.38	1B1V	-	100	10	6/8	9	20	B 91	WD	125	CNC2	E40970023X628CN2.16
* B.39	1B1V	-	125	10	6/8	9	29	B 91	WD	125	CNC2	E40990023X628CN2.16

\*) ex. '6/10 :  $X_1 = 6 / X_2 = 10$



Cup wheels for CNC machines – rotating tools, clearance & outer rake grinding

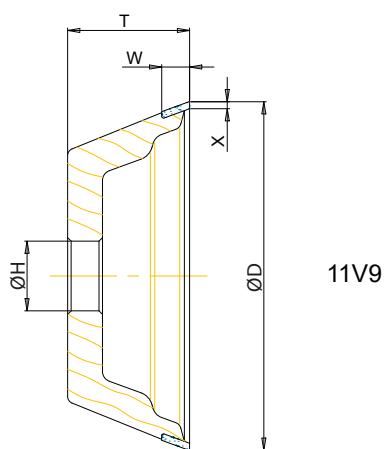
### Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
C.01	11V9G	70°	75	10	2	35	20	D 64	W	125	PRO7	0845403211628PR7.16
C.15	11V9G	70°	75	10	2	35	20	D 64	W	125	TOP7	0845403211628TP7.16
C.02	11V9G	70°	100	10	2	35	20	D 46	W	125	PRO7	0339807191628PR7.16
C.37	11V9G	70°	100	10	2	35	20	D 46	W	125	TOP7	0339807191628TP7.16
C.03	11V9G	70°	100	10	2	35	20	D 64	W	125	PRO7	0339807211628PR7.16
C.16	11V9G	70°	100	10	2	35	20	D 64	W	125	TOP7	0339807211628TP7.16
C.04	11V9G	70°	100	10	2	35	20	D 126	W	125	PRO7	0339807251628PR7.16
C.38	11V9G	70°	100	10	2	35	20	D 126	W	125	TOP7	0339807251628TP7.16
C.05	11V9G	70°	100	10	3	35	20	D 64	W	125	PRO7	0339811211628PR7.16
C.17	11V9G	70°	100	10	3	35	20	D 64	W	125	TOP7	0339811211628TP7.16
C.06	11V9G	70°	100	10	3	35	20	D 91	W	125	PRO7	0339811231628PR7.16
C.39	11V9G	70°	100	10	3	35	20	D 91	W	125	TOP7	0339811231628TP7.16

Cup wheels for CNC machines – rotating tools, clearance & outer rake grinding

### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
C.43	11V9G	70°	75	10	2	35	20	D 64	WN	125	PRO7	0845403214S29PR7.16
C.50	11V9G	70°	75	10	2	35	20	D 64	WN	125	TOP7	0845403214S29TP7.16
C.44	11V9G	70°	100	10	2	35	20	D 64	WN	125	PRO7	0339807214S29PR7.16
C.51	11V9G	70°	100	10	2	35	20	D 64	WN	125	TOP7	0339807214S29TP7.16
C.45	11V9G	70°	100	10	3	35	20	D 64	WN	125	PRO7	0339811214S29PR7.16
C.52	11V9G	70°	100	10	3	35	20	D 64	WN	125	TOP7	0339811214S29TP7.16



Cup wheels for CNC machines – rotating tools, gashing

#### Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
C.09	12V9P	45°	100	10	2	20	20	D 64	W	125	PRO7	0800503211628PR7.16
C.07	12V9P	45°	100	10	2	20	20	D 64	W	125	TOP7	0800503211628TP7.16
C.10	12V9P	45°	125	10	2	25	20	D 64	W	125	PRO7	0800603211628PR7.16
C.08	12V9P	45°	125	10	2	25	20	D 64	W	125	TOP7	0800603211628TP7.16

#### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
C.46	12V9P	45°	100	10	2	20	20	D 64	WN	125	PRO7	0800503214S29PR7.16
C.55	12V9P	45°	100	10	2	20	20	D 64	WN	125	TOP7	0800503214S29TP7.16
C.47	12V9P	45°	125	10	2	25	20	D 64	WN	125	PRO7	0800603214S29PR7.16
C.56	12V9P	45°	125	10	2	25	20	D 64	WN	125	TOP7	0800603214S29TP7.16

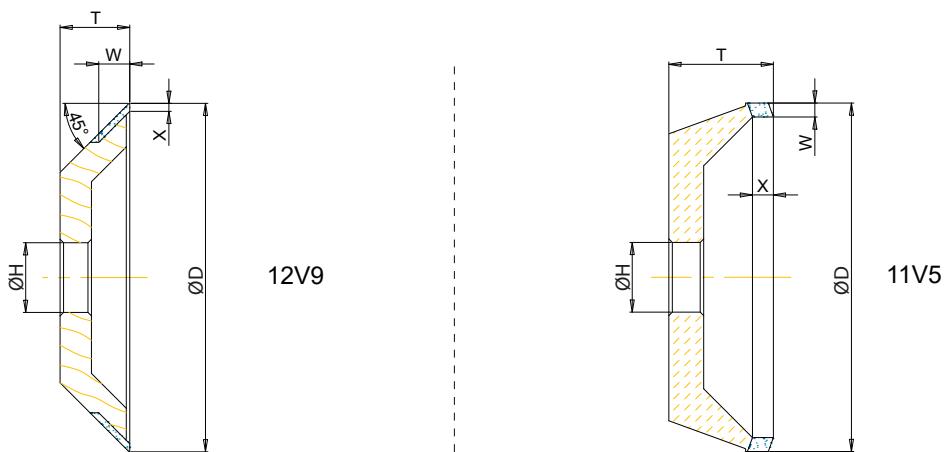
Inclined rim cup wheels for CNC machines – rotating tools, spherical clearance grinding

#### Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
C.41	11V5/	20°	100	4	6	30	20	D 46	W	125	TOP7	E194700191628TP7.16
C.14	11V5/	20°	100	4	6	30	20	D 46	W	125	PRO7	E194700191628PR7.16

#### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
C.49	11V5/	20°	100	4	6	30	20	D 64	WN	125	PRO7	E194700214S29PR7.16
C.54	11V5/	20°	100	4	6	30	20	D 64	WN	125	TOP7	E194700214S29TP7.16



# DIAMOND & CBN WHEELS FOR REGRINDING ON MANUAL MACHINES

Conical cup wheels 70° for dry grinding (suggested speed : 3.000 rpm)

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
D.03	11V9	70°	100	10	2	35	20	D 91	W	75	DRY5	0170670231618DR5.16
D.04	11V9	70°	100	10	2	35	20	D 126	W	75	DRY5	0170670251618DR5.16
D.05	11V9	70°	100	10	3	35	20	D 91	W	75	DRY5	0175550231618DR5.16
D.06	11V9	70°	100	10	3	35	20	D 126	W	75	DRY5	0175550251618DR5.16
D.07	11V9	70°	100	10	3	35	20	D 126	W	75	UNI3	0175550251618UN3.16
D.26	11V9	70°	125	10	3	35	20	D 181	W	75	DRY7	0312608271618DR7.16

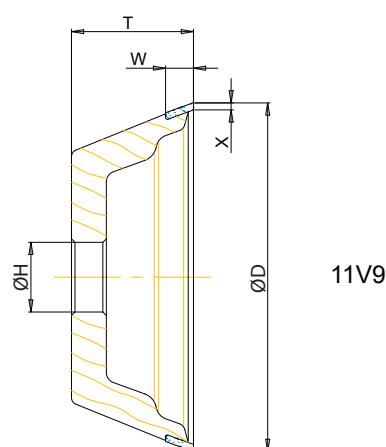
## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
D.40	11V9	70°	100	10	2	35	20	D 91	WN	100	DRY5	0170670234S25DR5.16
D.41	11V9	70°	100	10	2	35	20	D 126	WN	100	DRY5	0170670254S25DR5.16
D.42	11V9	70°	100	10	3	35	20	D 91	WN	100	DRY5	0175550234S25DR5.16
D.43	11V9	70°	100	10	3	35	20	D 126	WN	100	DRY5	0175550254S25DR5.16

CBN wheels for dry grinding of HSS steel (suggested speed : 6.000 rpm)

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
D.23	11V9	70°	100	10	2	35	20	B 126	WD	75	KS7	017067025X621KS7.16
D.24	11V9	70°	100	10	2	35	20	B 181	WD	75	KS7	017067027X621KS7.16



Conical cup wheels 45° for dry grinding (suggested speed 3.000 rpm)

#### Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
D.08	12V9P	45°	100	8	2	20	20	D 91	W	100	DRY5	0800501231624DR5.16
D.09	12V9P	45°	100	8	2	20	20	D 126	W	100	DRY5	0800501251624DR5.16

#### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
D.44	12V9P	45°	100	8	2	20	20	D 91	WN	100	DRY5	0800501234S25DR5.16
D.45	12V9P	45°	100	8	2	20	20	D 126	WN	100	DRY5	0800501254S25DR5.16

CBN wheels for dry grinding of HSS steel (suggested speed : 6.000 rpm)

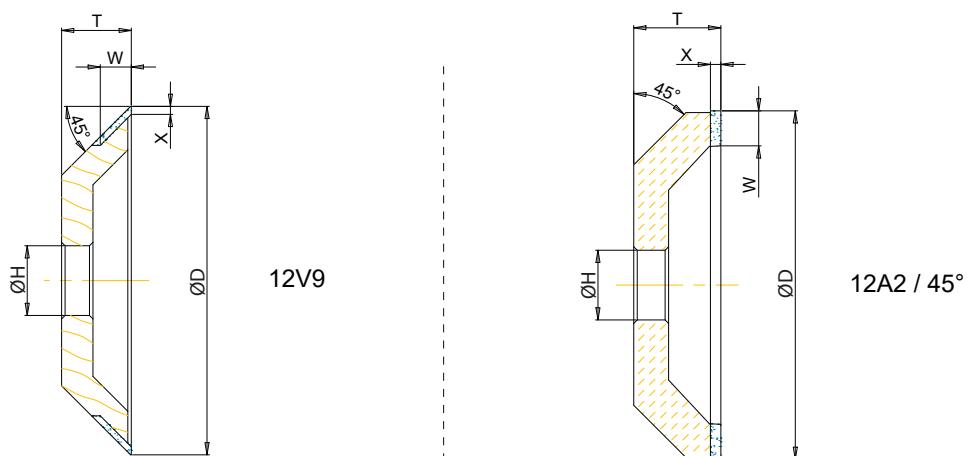
#### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
D.25	12V9P	45°	100	8	2	20	20	B 126	WD	100	DRY6	080050125X624DR6.16

Cup wheels for dry & wet sharpening on manual machines

#### Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.01	12A2/	45°	100	6	3	25	20	D 107	W	75	UNI3	0017140241618UN3.16
U.20	12A2/	45°	100	10	3	25	20	D 126	W	75	UNI3	0017160251618UN3.16



# CBN WHEELS FOR HSS STEEL REGRINDING ON CNC MACHINES

CBN cup wheels for CNC machines – rotating tools, clearance & outer rake grinding

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
B.03	11V9G	70°	100	10	2	35	20	B 91	W	125	PRO8	0339807232228PR8.16
B.29	11V9G	70°	100	10	2	35	20	B 91	W	125	TOP8	0339807232228TP8.16
B.04	11V9G	70°	100	10	2	35	20	B 126	W	125	PRO8	0339807252228PR8.16
B.30	11V9G	70°	100	10	2	35	20	B 126	W	125	TOP8	0339807252228TP8.16
B.05	11V9G	70°	100	10	3	35	20	B 91	W	125	PRO8	0339811232228PR8.16
B.31	11V9G	70°	100	10	3	35	20	B 91	W	125	TOP8	0339811232228TP8.16

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
B.48	11V9G	70°	75	10	2	35	20	B 91	WD	125	TOP8	084540323X629TP8.16
B.41	11V9G	70°	100	10	2	35	20	B 91	WD	125	TOP8	033980723X629TP8.16
B.42	11V9G	70°	100	10	2	35	20	B 126	WD	125	PRO8	033980725X629PR8.16
B.43	11V9G	70°	100	10	3	35	20	B 91	WD	125	TOP8	033981123X629TP8.16
B.44	11V9G	70°	100	10	3	35	20	B 126	WD	125	PRO8	033981125X629PR8.16

CBN cup wheels for CNC machines – rotating tools, gashing

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
B.08	12V9P	45°	100	10	2	20	20	B 91	W	100	PRO8	0800503232224PR8.16
B.33	12V9P	45°	100	10	2	20	20	B 91	W	100	TOP8	0800503232224TP8.16
B.07	12V9P	45°	125	10	2	25	20	B 91	W	100	PRO8	0800603232224PR8.16
B.32	12V9P	45°	125	10	2	25	20	B 91	W	100	TOP8	0800603232224TP8.16

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
B.46	12V9P	45°	100	10	2	20	20	B 91	WD	125	TOP8	080050323X629TP8.16
B.45	12V9P	45°	125	10	2	25	20	B 91	WD	125	TOP8	080060323X629TP8.16

CBN inclined rim cup wheels for CNC machines – rotating tools, spherical clearance grinding

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
B.09	11V5/	20°	100	4	6	30	20	B 91	W	125	PRO8	E194700232228PR8.16
B.34	11V5/	20°	100	4	6	30	20	B 91	W	125	TOP8	E194700232228TP8.16

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
B.47	11V5/	20°	100	4	6	30	20	B 91	WD	125	TOP8	E19470023X629TP8.16

# DIAMOND & CBN CUTOFF WHEELS

Cutoff discs for dry and wet grinding of carbide bars – bond DRY7 for dry cutoff grinding

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
T.01	1A1R	-	100	1,0	5,0	0,8	20	D 151	W	100	DRY7	0407810261624DR7.16
T.02	1A1R	-	125	1,1	5,0	0,9	20	D 151	W	100	DRY7	0432900261624DR7.16
T.04	1A1R	-	200	1,2	7,0	1,0	20	D 126	W	100	DRY7	0147006251624DR7.16
T.05	1A1R	-	200	1,2	7,0	1,0	22	D 126	W	100	DRY7	0147006251624DR7.18
T.06	1A1R	-	200	1,2	7,0	1,0	32	D 126	W	100	DRY7	0147006251624DR7.25
* T.08	1A1R	-	200	1,2	7,0	1,0	30+3	D 126	W	100	DRY7	0968202251624DR7.55

\*) 30+3; bore 30 + 3 dragging bores

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
T.21	1A1R	-	150	1,2	5,0	1,0	20	D 151	WN	100	DRY7	0436520264S24DR7.16
T.22	1A1R	-	150	1,2	7,0	1,0	20	D 151	WN	100	PRO5	0622005264S24PR5.16
T.23	1A1R	-	150	1,2	7,0	1,0	20	D 151	WN	100	DRY7	0622005264S24DR7.16

Cutoff discs for dry and wet grinding of carbide bars – bond PRO5 for wet cutoff grinding

## Products in resin bond – premium quality

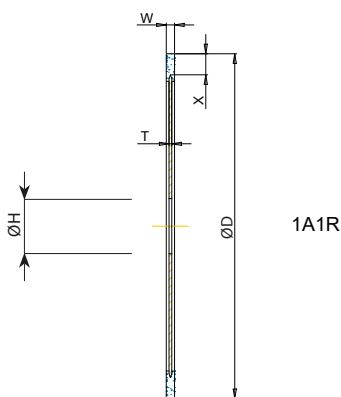
StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
T.10	1A1R	-	100	1,0	5,0	0,8	20	D 151	W	100	PRO5	0407810261624PR5.16
T.11	1A1R	-	125	1,1	5,0	0,9	20	D 151	W	100	PRO5	0432900261624PR5.16
T.13	1A1R	-	200	1,2	7,0	1,0	20	D 126	W	100	PRO5	0147006251624PR5.16
T.14	1A1R	-	200	1,2	7,0	1,0	22	D 126	W	100	PRO5	0147006251624PR5.18
T.15	1A1R	-	200	1,2	7,0	1,0	32	D 126	W	100	PRO5	0147006251624PR5.25
* T.16	1A1R	-	200	1,2	7,0	1,0	30+3	D 126	W	100	PRO5	0968202251624PR5.55

\*) 30+3; bore 30 + 3 dragging bores

CBN cutoff discs for dry and wet grinding of HSS bars

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
T.17	1A1R	-	150	1,2	7,0	1,0	20	B 151	WD	100	CNC2	062200526X624CN2.16
T.18	1A1R	-	200	1,2	7,0	1,0	20	B 151	WD	100	CNC2	014700626X625CN2.16
T.19	1A1R	-	100	1,1	5,0	0,8	20	B 151	WD	100	CNC2	040780626X625CN2.16
T.20	1A1R	-	125	1,3	5,0	1,0	20	B 151	WD	100	CNC2	043291126X625CN2.16



# DIAMOND WHEELS FOR CARBIDE SAWS

Dish wheels for face grinding – carbide tipped circular saws – fitted to Vollmer CHP-CX-CHC

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.24	4V2	35°	125	3,5	2	12	32	D 64	WN	100	CNC3	0532000214S25CN3.25

Dish wheels for face grinding – carbide tipped circular saws – fitted to Woodtronic or Akemat B

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.25	4V2	35°	160	3,5	2	12	32	D 64	WN	125	CNC3	0920400214S27CN3.25

Dish wheels for face grinding – carbide tipped circular saws – fitted to Vollmer CH or Woodtronic NC5

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.26	4V2	35°	200	3,5	2	12	32	D 54	WN	125	CNC3	0822000204S27CN3.25

Dish wheels for face grinding – narrow teeth circular saws – fitted to Vollmer CHP-CX-CHC

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.22	SHARK5	25°	125	17	1,3	13	32	D 64	W	125	PRO5	E734700211628PR5.25

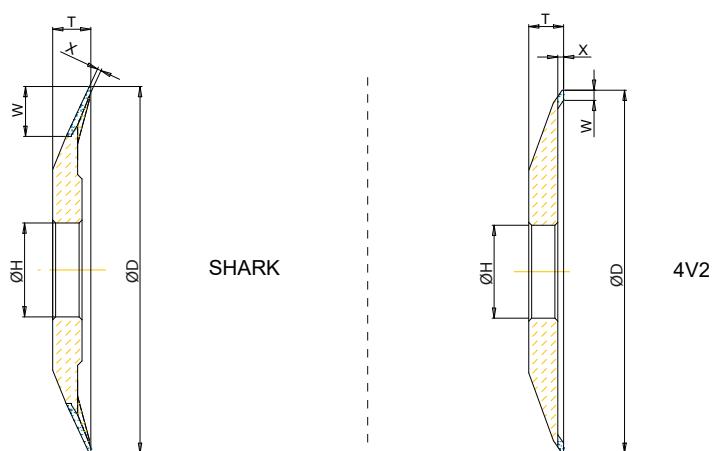
## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.27	SHARK5	25°	125	17	1,3	13	32	D 64	WN	125	PRO5	E734700214S28PR5.25
V.28	SHARK4	20°	125	17	1,5	12	32	D 64	WN	125	PRO5	E734400214S28PR5.25

Dish wheels for face grinding – narrow teeth circular saws – fitted to Vollmer CHD or Woodtronic NC5

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.29	SHARK4	20°	200	17	1,5	12	32	D 64	WN	125	CNC7	E736600214S27CN7.25
V.34	SHARK4	20°	200	17	1,5	12	32	D 46	WN	100	CNC5	E736600194S25CN5.25



Disc wheels for side grinding – carbide tipped circular saws – fitted to Vollmer Duo CHF

#### Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.32	3A1		100	4	6	10	32	D 76	WN	100	UNI3	0426100224S25UN3.25

Double rim cup wheels for back grinding – carbide tipped circular saws

#### Products in resin bond – standard quality

StCode	Shape	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.30	11VV9	125	5	6	20	32	D46/126	WN/WN	100/125	CNC3/CN3	E219800564S62588.25

Double rim cup wheels for circular saw back grinding – fitted to Vollmer CHD or ABN CNC 600

#### Products in resin bond – premium quality

StCode	Shape	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.18	11AA2/AS	125	5	8	20	32	D46/126	W/W	100/125	DRY7/DRY7	E474100561662586.25
V.19	11AA2/AS	125	5	8	20	32	D46/126	KR/KR	100/125	CNC3/UNI3	E47410056Z462565.25

Double rim cup wheels for circular saw back grinding – fitted to Vollmer CX

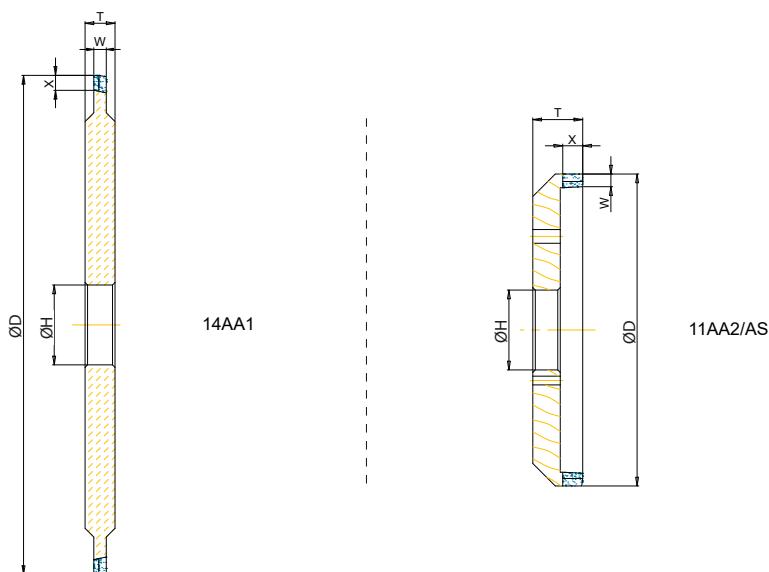
#### Products in resin bond – premium quality

StCode	Shape	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.20	11AA2/AS	125	5	6	18	32	D46/126	W/W	100/125	DRY7/DRY7	E274401561662586.25
V.21	11AA2/AS	125	5	6	18	32	D46/126	KR/KR	100/125	CNC3/UNI3	E27440156Z462565.25

Double rim disc wheels for circular saw back grinding – fitted to Woodtronic NC5

#### Products in resin bond – standard quality

StCode	Shape	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
V.31	14AA1	200	5	6	12	32	D46/126	WN/WN	100/125	CNC3/CNC3	0386801564S48588.25



# DIAMOND & CBN WHEELS FOR POLYCRYSTALLINE

Cylindrical cup wheels for PCD – PCBN tools sharpening on EWAG RS15 or Coborn machines

## Products in vitrified bond – Premium Quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
P.C5	11A2H		147	2	4	40	40+2	D 20	SP	125	V6DM	V071300G41UMF6DM.FD
P.C4	6A2H		148	3	4	40	40+2	D 20	SP	125	V6DM	V030400G41UMF6DM.FD
P.C3	6A2H		150	6	6	40	40+2	D 20	SP	125	V6DM	V009100G41UMF6DM.FD
P.C2	6A2H		150	10	8	40	40+2	D 20	SP	125	V6DM	V002202G41UMF6DM.FD
P.C6	6A2H		149	14	8	40	40+2	D 20	SP	125	V6DM	V028402G41UMF6DM.FD
P.C1	6A2H		150	20	9	40	40+2	D 20	SP	125	V6DM	V018703G41UMF6DM.FD

# DIAMOND & CBN WHEELS FOR KNIVES

Cylindrical cup wheels for dry & wet sharpening on manual machines

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.12	6A2	-	150	10	4	27	20	D 46	W	68	UNI3	0014360191616UN3.16

Cylindrical cup wheels for linear blades sharpening – bore for Göckel machines

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.23	6A2H	-	200	6	6	42	50	D 151	WN	100	DRY7	E321001264S25DR7.31

CBN cylindrical cup wheels for linear blades sharpening – fitted to Göckel machines

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.16	6A2H	-	200	6	6	42	50	B 151	WD	100	CNC4	E32100126X625CN4.51

Cylindrical cup wheels for linear blades sharpening – fitted to MVM machines

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.11	6A2	-	150	6	3	50	20	D 107	W	75	UNI3	0087502241618UN3.16

CBN cylindrical cup wheels for linear blades sharpening – fitted to MVM machines

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.02	6A2	-	125	5	3	45	20	B 151	W	75	UNI6	0235912262218UN6.16
U.06	6A2S	-	150	5	4	50	20	B 151	W	75	RCS	0706700262218311.16
U.18	6A2	-	150	5	4	50	20	B 151	W	75	RCS	0087505262218311.16

CBN cylindrical cup wheels for linear blades sharpening – fitted to MVM K250 machines

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.19	6A2H	-	250	6	6	34	127	B 151	W	75	R058	0130901262218058.42

# CBN WHEELS FOR CIRCULAR AND BAND SAWS

Radius wheels for teeth profiling – HSS circular saws – fitted to Businaro

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
L.41	14FF1/	R0,65	150	1,3	5	8	32	B 107	WD	125	TOP6	E97300324X628TP6.25
L.37	14FF1/	R0,8	150	1,6	5	8	32	B 107	WD	125	TOP6	E97300424X628TP6.25
L.38	14FF1/	R1,0	150	2	5	8	32	B 107	WD	125	TOP6	E97300124X628TP6.25
L.39	14FF1/	R1,25	150	2,5	5	8	32	B 107	WD	125	TOP6	E97300224X628TP6.25
L.40	14FF1/	R1,5	150	3	5	8	32	B 107	WD	125	TOP6	E97300024X628TP6.25

Radius wheels for teeth profiling – HSS circular saws – fitted to Loroch

## Products in resin bond

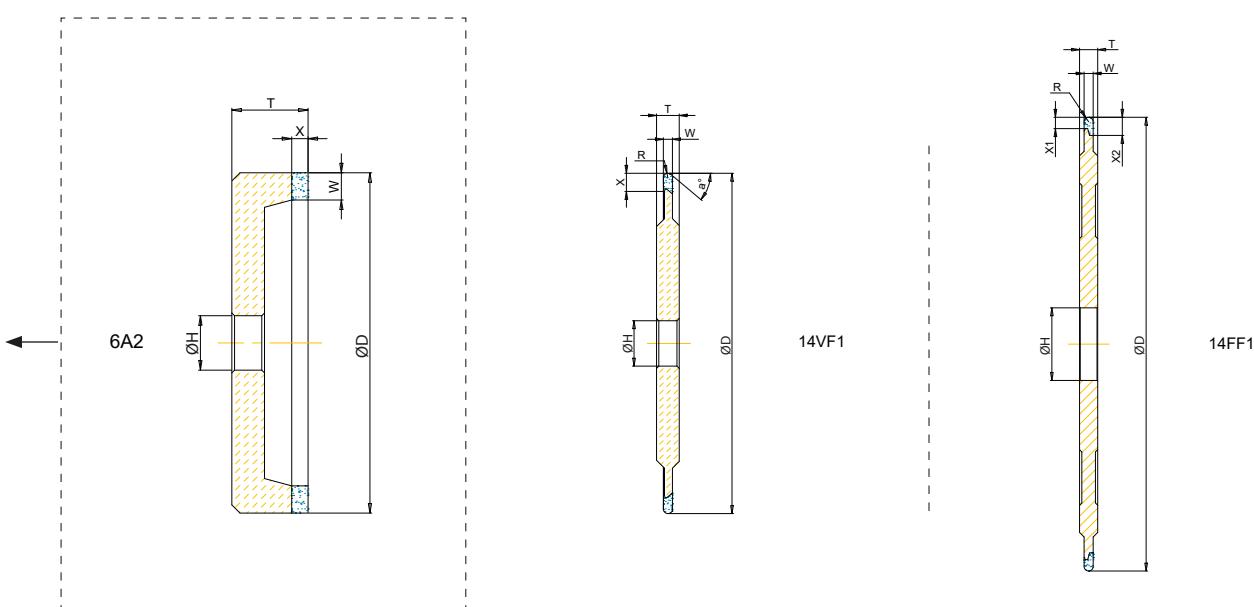
StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
L.42	14FF1/	R0,65	200	1,3	8	8	32	B 107	WD	125	TOP6	023690324X628TP6.25
* L.24	14FF1/	R1	200	2	5 / 8	8	32	B 107	WD	125	CNC6	E44920424X628CN6.25
* L.34	14FF1/	R2	200	4	5 / 8	8	32	B 107	WD	125	TOP6	E44920524X628TP6.25
* L.35	14FF1/	R1,5	200	3	5 / 8	8	32	B 107	WD	125	TOP6	E44920224X628TP6.25
* L.36	14FF1/	R1	200	2	5 / 8	8	32	B 107	WD	125	TOP8	E44920424X628TP8.25
* L.43	14FF1/	R0,65	200	1,3	5 / 8	8	32	B 91	WD	110	TOP6	E44921523X626TP6.25

\*) ex. '5 / 8 (X1 = 5 / X2 = 8)

Profiled disc wheels for teeth profiling – HSS band saws – fitted on MVM - PG

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
L.25	14VF1/	40°	150	4	8	10	32	B 181	WD	125	TOP6	E83500127X629TP6.25
L.26	14VF1/	40°	150	4	8	10	32	B 180	WD	125	CNC8	E8350012VX629CN8.25
L.33	14VF1/	R1,5	150	4	8	10	32	B 181	WD	125	TOP6	E83500427X629TP6.25



# DIAMOND & CBN CUP WHEELS FOR MANUAL GRINDING

Dish wheels for dry & wet sharpening on manual machines

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.10	13A2	20°	150	6	4	21	20	D 91	W	75	UNI3	0022640231620UN3.16

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.25	13A2	20°	150	5	2	19	20	D 91	WN	75	UNI3	0022230234S19UN3.16
U.28	13A2	20°	150	6	4	21	20	D 54	WN	75	UNI3	0022640204S19UN3.16
U.29	13A2	20°	150	6	4	21	20	D 91	WN	75	UNI3	0022640234S20UN3.16
U.27	13A2	20°	150	6	4	21	20	D 151	WN	75	UNI3	0022640264S19UN3.16

CBN dish wheels for dry & wet sharpening on manual machines

## Products in resin bond – premium quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.03	13A2	20°	150	4	3	20	20	B 151	W	75	UNI6	0022420262218UN6.16

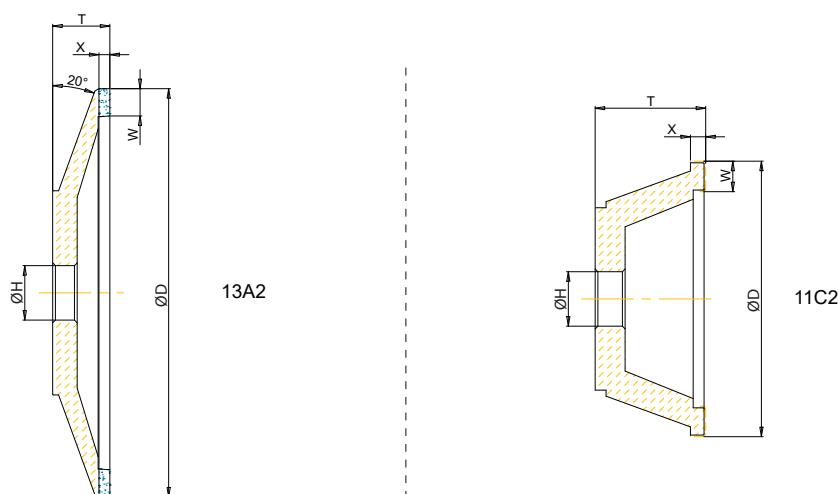
## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.15	13A2	-	150	4	3	20	20	B 151	WD	75	UNI6	002242026X618UN6.16

Cup wheels for pantograph chisel sharpening

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
U.30	11C2	-	100	10	5	40	20	D 151	S	200	GAL	8990016262634014.FD





## DIAMOND & CBN WHEELS FOR INTERNAL GRINDING

CBN cylindrical wheels for internal grinding

### Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
I.05	1A1	-	50	10	4	10	20	B 151	W	100	UNI4	0175104262224UN4.16

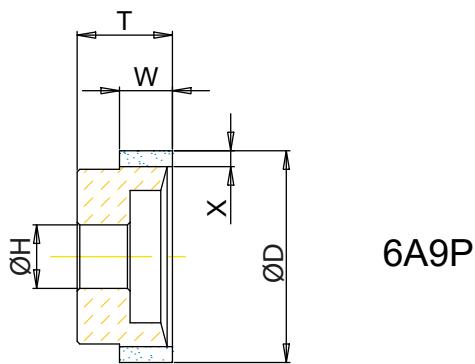
Diamond cylindrical wheels with side extension for internal grinding

### Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
I.06	6A9P		30	10	3	20	8	D 126	W	100	UNI3	0589602251624UN3.06
I.07	6A9P		35	10	3	18	8	D 126	W	100	UNI3	E749000251624UN3.06

### Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
I.01	6A9P	-	25	10	2	20	8	B 151	W	100	UNI4	0778700262224UN4.06
I.02	6A9P	-	30	10	3	20	8	B 151	W	100	UNI4	0589602262224UN4.06
I.03	6A9P	-	35	10	3	18	8	B 151	W	100	UNI4	E749000262224UN4.06
I.04	6A9P	-	40	10	3	30	10	B 151	W	100	UNI4	E854300262224UN4.07

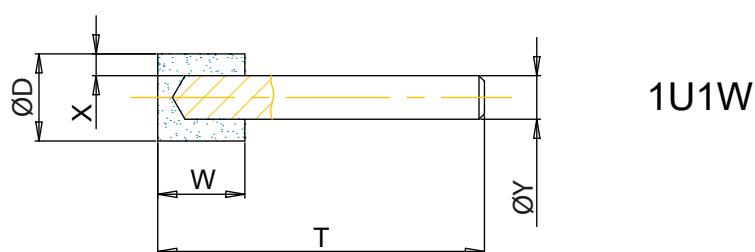


## Diamond cylindrical mounted points for internal and jig grinding

### Products in resin bond

StCode	Shape	Angle	$\varnothing D$	W	X	T	$\varnothing Y$	Grit	Qual.	Conc.	Bond	Code
I.08	1U1W	-	3	5	0,90	65	3	shank	D 15	S	100	RL2 *
I.09	1U1W	-	3	5	0,90	65	3	shank	D 126	W	100	RFK ***
I.10	1U1W	-	3	5	0,90	65	3	shank	D 126	W	100	RXR **
I.13	1U1W	-	4	6	0,75	66	3	shank	D 15	S	100	RL2 *
I.14	1U1W	-	4	6	0,75	66	3	shank	D 126	W	100	RFK ***
I.15	1U1W	-	4	6	0,75	66	3	shank	D 126	W	100	RXR **
I.18	1U1W	-	5	6	1,50	66	3	shank	D 15	S	100	RL2 *
I.19	1U1W	-	5	6	1,50	66	3	shank	D 126	W	100	RFK ***
I.20	1U1W	-	5	6	1,50	66	3	shank	D 126	W	100	RXR **
I.24	1U1W	-	6	8	1,50	68	6	shank	D 15	S	100	RL2 *
I.25	1U1W	-	6	8	1,50	68	6	shank	D 126	W	100	RFK ***
I.26	1U1W	-	6	8	1,50	68	6	shank	D 126	W	100	RXR **
I.23	1U1W	-	6	3,5	1,20	45	6	shank	D 76	W	125	RFK ***
I.29	1U1W	-	6,5	3,5	1,45	45	6	shank	D 76	W	125	RFK ***
I.30	1U1W	-	7	3,5	1,70	45	6	shank	D 76	W	125	RFK ***
I.31	1U1W	-	7	8	1,50	68	6	shank	D 15	S	100	RL2 *
I.32	1U1W	-	7	8	1,50	68	6	shank	D 126	W	100	RFK ***
I.33	1U1W	-	7	8	1,50	68	6	shank	D 126	W	100	RXR **
I.36	1U1W	-	8	10	2,00	70	6	shank	D 15	S	100	RL2 *
I.37	1U1W	-	8	10	2,00	70	6	shank	D 126	W	100	RFK ***
I.38	1U1W	-	8	10	2,00	70	6	shank	D 126	W	100	RXR **
I.41	1U1W	-	9	10	2,00	70	6	shank	D 15	S	100	RL2 *
I.42	1U1W	-	9	10	2,00	70	6	shank	D 126	W	100	RFK ***
I.43	1U1W	-	9	10	2,00	70	6	shank	D 126	W	100	RXR **
I.46	1U1W	-	10	11	2,00	71	6	shank	D 15	S	100	RL2 *
I.48	1U1W	-	10	11	2,00	71	6	shank	D 151	W	100	RFK ***
I.49	1U1W	-	10	11	2,00	71	6	shank	D 151	W	100	RXR **
I.52	1U1W	-	12	11	3,00	71	6	shank	D 15	S	100	RL2 *
I.53	1U1W	-	12	11	3,00	71	6	shank	D 151	W	100	RFK ***
I.54	1U1W	-	12	11	3,00	71	6	shank	D 151	W	100	RXR **

\*) soft bond for superfinishing, \*\*) medium bond, \*\*\*) hard bond

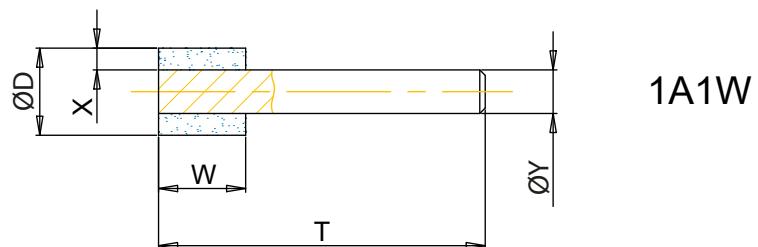
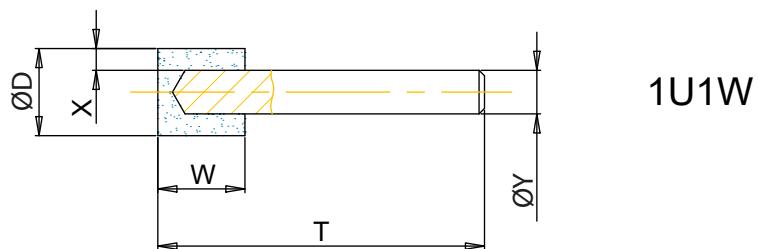


## CBN cylindrical mounted points for internal and jig grinding

### Products in resin bond

StCode	Shape	Angle	$\varnothing D$	W	X	T	$\varnothing Y$	Grit	Qual.	Conc.	Bond	Code
I.11	1U1W	-	3	5	0,90	65	3	shank	B 126	W	100	RCR
I.12	1U1W	-	3	5	0,90	65	3	shank	B 126	W	100	RFK
I.16	1U1W	-	4	6	0,75	66	3	shank	B 126	W	100	RCR
I.17	1U1W	-	4	6	0,75	66	3	shank	B 126	W	100	RFK
I.21	1U1W	-	5	6	1,50	66	3	shank	B 126	W	100	RCR
I.22	1U1W	-	5	6	1,50	66	3	shank	B 126	W	100	RFK
I.27	1U1W	-	6	8	1,50	68	6	shank	B 126	W	100	RCR
I.28	1U1W	-	6	8	1,50	68	6	shank	B 126	W	100	RFK
I.34	1U1W	-	7	8	1,50	68	6	shank	B 126	W	100	RCR
I.35	1U1W	-	7	8	1,50	68	6	shank	B 126	W	100	RFK
I.39	1U1W	-	8	10	2,00	70	6	shank	B 126	W	100	RCR
I.40	1U1W	-	8	10	2,00	70	6	shank	B 126	W	100	RFK
I.44	1U1W	-	9	10	2,00	70	6	shank	B 126	W	100	RCR
I.45	1U1W	-	9	10	2,00	70	6	shank	B 126	W	100	RFK
I.47	1U1W	-	10	11	2,00	71	6	shank	B 126	W	100	RCR
I.50	1U1W	-	10	11	2,00	71	6	shank	B 151	W	100	RCR
I.51	1U1W	-	10	11	2,00	71	6	shank	B 151	W	100	RFK
I.55	1U1W	-	12	11	3,00	71	6	shank	B 151	W	100	RCR
I.56	1U1W	-	12	11	3,00	71	6	shank	B 151	W	100	RFK

\*) soft bond for superfinishing, \*\*) medium bond, \*\*\*) hard bond



Diamond cylindrical mounted points for internal and jig grinding

### Products in electroplated bond

StCode	Shape	Angle	Ø D	W	X	T	Ø Y	Grit	Qual.	Conc.	Bond	Code
I.58	1U1W	-	1,5	5	0,2	55	3	shank	D 76	S	200	GAL
I.59	1U1W	-	1,5	5	0,2	55	3	shank	D 107	S	200	GAL
I.61	1U1W	-	2,0	5	0,2	55	3	shank	D 76	S	200	GAL
I.62	1U1W	-	2,0	5	0,2	55	3	shank	D 107	S	200	GAL
I.64	1U1W	-	2,5	5	0,2	55	3	shank	D 76	S	200	GAL
I.65	1U1W	-	2,5	5	0,2	55	3	shank	D 107	S	200	GAL
I.67	1U1W	-	3,0	5	0,2	60	3	shank	D 76	S	200	GAL
I.68	1U1W	-	3,0	5	0,2	60	3	shank	D 107	S	200	GAL
I.70	1U1W	-	3,5	5	0,2	60	3	shank	D 107	S	200	GAL
I.72	1U1W	-	4,0	5	0,2	60	3	shank	D 107	S	200	GAL
I.74	1U1W	-	4,5	6	0,2	60	3	shank	D 107	S	200	GAL
I.76	1U1W	-	5,0	6	0,2	60	3	shank	D 107	S	200	GAL
I.78	1U1W	-	6,0	8	0,2	80	6	shank	D 151	S	200	GAL
I.80	1U1W	-	5,0	8	0,2	80	6	shank	D 151	S	200	GAL
I.82	1U1W	-	7,0	10	0,2	80	6	shank	D 151	S	200	GAL
I.84	1U1W	-	8,0	10	0,2	80	6	shank	D 151	S	200	GAL
I.86	1U1W	-	9,0	10	0,2	80	6	shank	D 151	S	200	GAL
I.96	1A1W	-	10,0	10	0,2	70	8	shank	D 151	S	200	GAL
I.88	1U1W	-	10,0	10	0,2	80	6	shank	D 151	S	200	GAL
I.97	1A1W	-	12,0	10	0,2	70	8	shank	D 151	S	200	GAL
I.90	1U1W	-	12,0	10	0,2	90	6	shank	D 151	S	200	GAL
I.92	1U1W	-	14,0	10	0,2	90	6	shank	D 151	S	200	GAL
I.98	1A1W	-	15,0	10	0,2	70	8	shank	D 151	S	200	GAL
I.94	1U1W	-	15,0	10	0,2	90	6	shank	D 151	S	200	GAL
I.99	1A1W	-	18,0	10	0,2	100	8	shank	D 151	S	200	GAL
I.A0	1A1W	-	20,0	10	0,2	100	8	shank	D 151	S	200	GAL

CBN cylindrical mounted points for internal and jig grinding

### Products in electroplated bond

StCode	Shape	Angle	Ø D	W	X	T	Ø Y	Grit	Qual.	Conc.	Bond	Code
I.60	1U1W	-	1,5	5	0,2	55	3	shank	B 107	S	200	GAL
I.63	1U1W	-	2,0	5	0,2	55	3	shank	B 107	S	200	GAL
I.66	1U1W	-	2,5	5	0,2	55	3	shank	B 107	S	200	GAL
I.69	1U1W	-	3,0	5	0,2	60	3	shank	B 107	S	200	GAL
I.71	1U1W	-	3,5	5	0,2	60	3	shank	B 107	S	200	GAL
I.73	1U1W	-	4,0	5	0,2	60	3	shank	B 107	S	200	GAL
I.75	1U1W	-	4,5	6	0,2	60	3	shank	B 107	S	200	GAL
I.77	1U1W	-	5,0	6	0,2	60	3	shank	B 107	S	200	GAL
I.79	1U1W	-	6,0	8	0,2	80	6	shank	B 181	S	200	GAL
I.81	1U1W	-	5,0	8	0,2	80	6	shank	B 181	S	200	GAL
I.83	1U1W	-	7,0	10	0,2	80	6	shank	B 181	S	200	GAL
I.85	1A1W	-	8,0	10	0,2	80	6	shank	B 181	S	200	GAL
I.87	1A1W	-	9,0	10	0,2	80	6	shank	B 181	S	200	GAL
I.89	1U1W	-	10,0	10	0,2	80	6	shank	B 181	S	200	GAL
I.91	1U1W	-	12,0	10	0,2	90	6	shank	B 181	S	200	GAL
I.93	1A1W	-	14,0	10	0,2	90	6	shank	B 181	S	200	GAL
I.95	1A1W	-	15,0	10	0,2	90	6	shank	B 181	S	200	GAL

## Diamond ball head mounted points

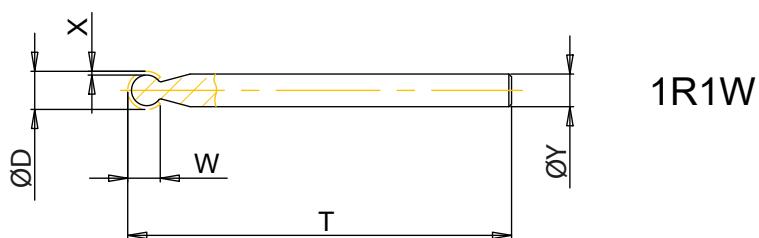
### Products in electroplated bond

StCode	Shape	Angle	$\varnothing D$	W	X	T	$\varnothing Y$	Grit	Qual.	Conc.	Bond	Code
I.R1	1R1W	R1	2,0	2,0	0,19	50	3	shank	D 151	S	200	GAL
I.R3	1R1W	R1,5	3,0	3,0	0,19	50	3	shank	D 151	S	200	GAL
I.R5	1R1W	R1,75	3,5	3,5	0,19	50	3	shank	D 151	S	200	GAL
I.R6	1R1W	R2	4,0	4,0	0,19	50	3	shank	D 151	S	200	GAL
I.R8	1R1W	R2,25	4,5	4,5	0,19	50	3	shank	D 151	S	200	GAL
I.0R	1R1W	R2,5	5,0	5,0	0,19	70	3	shank	D 151	S	200	GAL
I.2R	1R1W	R3	6,0	6,0	0,19	70	6	shank	D 151	S	200	GAL
I.4R	1R1W	R3,5	7,0	7,0	0,19	70	6	shank	D 151	S	200	GAL
I.6R	1R1W	R4	8,0	8,0	0,19	70	6	shank	D 151	S	200	GAL
I.8R	1R1W	R4,5	9,0	9,0	0,19	70	6	shank	D 151	S	200	GAL
I.AR	1R1W	R5	10,0	10,0	0,19	70	6	shank	D 151	S	200	GAL

## CBN ball head mounted points

### Products in electroplated bond

StCode	Shape	Angle	$\varnothing D$	W	X	T	$\varnothing Y$	Grit	Qual.	Conc.	Bond	Code
I.R0	1R1W	R1	2,0	2,0	0,19	50	3	shank	B 107	SB	200	GAL
I.R2	1R1W	R1,5	3,0	3,0	0,19	50	3	shank	B 107	SB	200	GAL
I.R4	1R1W	R1,75	3,5	3,5	0,19	50	3	shank	B 107	SB	200	GAL
I.R7	1R1W	R2	4,0	4,0	0,19	50	3	shank	B 181	SB	200	GAL
I.R9	1R1W	R2,25	4,5	4,5	0,19	50	3	shank	B 181	SB	200	GAL
I.1R	1R1W	R2,5	5,0	5,0	0,19	70	3	shank	B 181	S	200	GAL
I.3R	1R1W	R3	6,0	6,0	0,19	70	6	shank	B 181	SB	200	GAL
I.5R	1R1W	R3,5	7,0	7,0	0,19	70	6	shank	B 181	SB	200	GAL
I.7R	1R1W	R4	8,0	8,0	0,19	70	6	shank	B 181	SB	200	GAL
I.9R	1R1W	R4,5	9,0	9,0	0,19	70	6	shank	B 181	SB	200	GAL
I.BR	1R1W	R5	10,0	10,0	0,19	70	6	shank	B 181	S	200	GAL



Diamond conical head mounted points

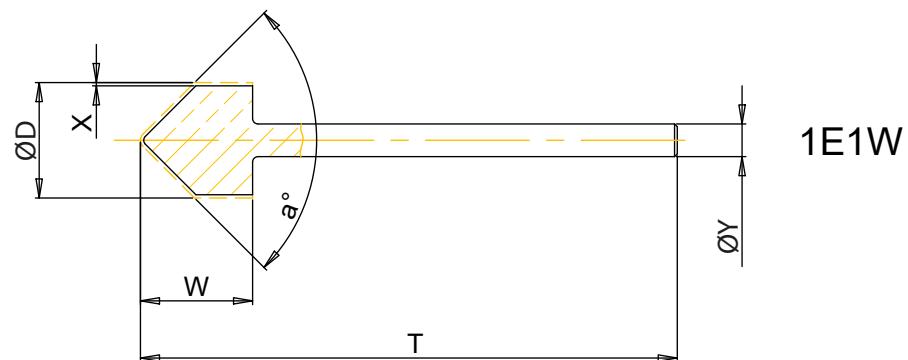
#### Products in electroplated bond

StCode	Shape	Angle	$\varnothing D$	W	X	T	$\varnothing Y$	Grit	Qual.	Conc.	Bond	Code
I.V0	1E1W/	60°	8,0	10,0	0,20	80	6	shank	D 151	S	200	GAL
I.V2	1E1W/	60°	10,0	10,0	0,20	80	6	shank	D 151	S	200	GAL
I.V4	1E1W/	60°	12,0	10,0	0,20	80	6	shank	D 151	S	200	GAL
I.V6	1E1W/	90°	8,0	10,0	0,20	80	6	shank	D 151	S	200	GAL
I.V8	1E1W/	90°	10,0	10,0	0,20	80	6	shank	D 151	S	200	GAL
I.V	1E1W/	90°	12,0	10,0	0,20	80	6	shank	D 151	S	200	GAL

CBN conical head mounted points

#### Products in electroplated bond

StCode	Shape	Angle	$\varnothing D$	W	X	T	$\varnothing Y$	Grit	Qual.	Conc.	Bond	Code
I.V1	1E1W/	60°	8,0	10,0	0,20	80	6	shank	B 181	S	200	GAL
I.V3	1E1W/	60°	10,0	10,0	0,20	80	6	shank	B 181	S	200	GAL
I.V5	1E1W/	60°	12,0	10,0	0,20	80	6	shank	B 181	S	200	GAL
I.V7	1E1W/	90°	8,0	10,0	0,20	80	6	shank	B 181	S	200	GAL
I.V9	1E1W/	90°	10,0	10,0	0,20	80	6	shank	B 181	S	200	GAL
I.2V	1E1W/	90°	12,0	10,0	0,20	80	6	shank	B 181	S	200	GAL



# DIAMOND FILES

Hand files for universal use – manual reprofiling of RES bonded wheels

## Products in metal bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
Z.06	LIMA		50	20	4	180		D 252	S	75	M1	E77640030U818012

Manual tool for radius wheels reprofiling

## Products in electroplated bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
Z.15	QUICK RADIUS		34	20	0,5	150		D 427	S	200	GAL	8020300016334018

Hand files for universal use – coarse grit size

## Products in electroplated bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
Z.G1	LIMA	LA01	6	80	1,5	160		D 151	S	200	GAL	8001501262634014
Z.G2	LIMA	LA02	6	80	2	160		D 151	S	200	GAL	8001502262634014
Z.G5	LIMA	LA05	6	80	1,5	160		D 151	S	200	GAL	8001505262634014
Z.G7	LIMA	LA07	4	80	4	160		D 151	S	200	GAL	8001507262634014
Z.G8	LIMA	LA08	4	80	4	160		D 151	S	200	GAL	8001508262634014
Z.G0	LIMA	LA10	3,5	80	3,5	160		D 151	S	200	GAL	8001510262634014

Hand files for universal use - fine grit size

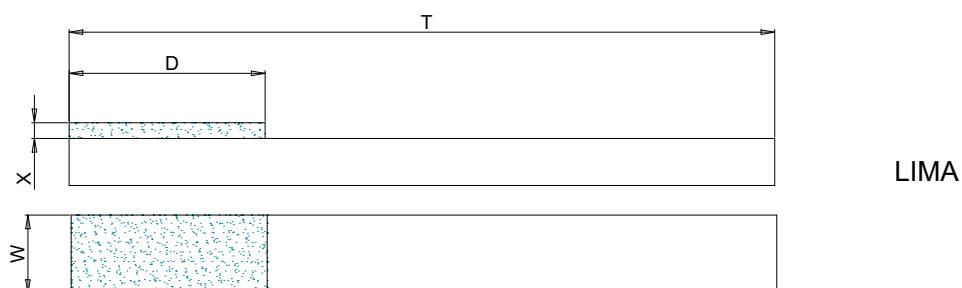
## Products in electroplated bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
Z.F1	LIMA	LA01	6	80	1,5	160		D 46	S	200	GAL	8001501192634014
Z.F2	LIMA	LA02	6	80	2	160		D 46	S	200	GAL	8001502192634014
Z.F5	LIMA	LA05	6	80	1,5	160		D 46	S	200	GAL	8001505192634014
Z.F7	LIMA	LA07	4	80	4	160		D 46	S	200	GAL	8001507192634014
Z.F8	LIMA	LA08	4	80	4	160		D 46	S	200	GAL	8001508192634014
Z.F0	LIMA	LA10	3,5	80	3,5	160		D 46	S	200	GAL	8001510192634014

Hand files for carbide cutting edge rounding

## Products in resin bond

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
Z.03	LIMA		35	10	3	130		D 76	S	75	RPR	0030400224118031
Z.04	LIMA		35	10	3	130		D 54	S	75	RPR	0030400204118031



# DIAMOND PELLETS

Pellets for spherical grinding bells – carbide coated ball valves

## Products in resin bond – standard quality

StCode	Shape	Angle	Ø D	W	X	T	Ø H	Grit	Qual.	Conc.	Bond	Code
Z.11	PASTIGLIA		8	8	6	10	32	D 252	T	100	DRY3	0898601301524DR3
Z.12	PASTIGLIA		12	12	9	15	32	D 252	T	100	DRY3	E014200301524DR3
Z.13	PASTIGLIA		18	18	9	15	32	D 252	T	100	RRG	E013900301524706

## COMPLEMENTARY PRODUCTS FOR DIA & CBN WHEELS

For dry cooling through a frozen air blast

StCode	Ø D	Code
Z.16	FREEZE BLAST	COD. 2BP 3208

For trueing and dressing DIA & CBN wheels in resin bond on the operating machine

StCode	Ø D	Code
Z.17	UNIDRESS	100

For minimal lubrication of the compressed air - in conjunction with the UNIDRESS device

StCode	Ø D	Code
Z.18	LUBRO-UNID	LUB-200 1/4"





## Corporate Responsibility

### **CONTINUOUS IMPROVEMENT TOWARDS SUSTAINABILITY.**

Changing conditions inspire us to improve and grow our business. We see that our customers are as interested in sustainability as we are. This is why our product development is focused on innovating the best sustainable products and systems, while continually improving our own environmental performance.

Our business is focused on providing the best surface finishing preparation tools and systems to customers. We also offer abrasives and solutions for challenging conditions within the precision industry. To be the most sustainable finishing systems provider, we are digging deep down to the core of our company to figure out what it really means to be

sustainable. We have accomplished a great deal already and have many more initiatives we will take on in the future.

For people working at Mirka, it has always been clear to not waste financial or material resources – of our own or those of our customers. We find it is equally clear to preserve the planet's resources. Sustainability is a natural extension of this approach. It means taking the economy, the earth, and people into consideration when we make business decisions – now and for future generations.

We are continuously looking for opportunities to reduce our environmental footprint – this aligns with our company values and also cuts costs. We have worked hard to conserve energy and raw materials, reduce waste, increase recycling, and

decrease the use of persistent chemicals. We are developing healthier, safer, and more efficient products and processes so that our customers and employees will benefit. For example, our dust-free sanding systems help protect the lungs of workers while giving a cleaner and better surface finish.



**Mirka Ltd**  
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