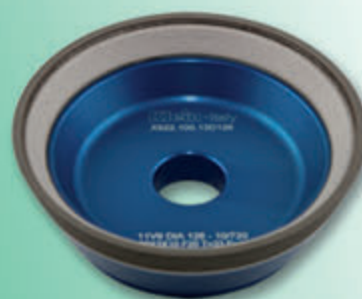


Lubricants, diamond grinding wheels, diamond stones

14



KLEIN TOPUP
Pag. 14.03



KLEIN DRYUP
Pag. 14.03



KLEIN PROTECT
Pag. 14.03



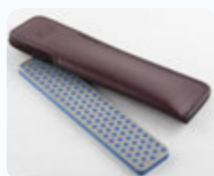
KLEIN CLEANUP
Pag. 14.03



KLEIN WASHER
Pag. 14.03



KLEIN CLEANER
Pag. 14.03



4" DIAMOND WHETSTONE
Pag. 14.04



4" DIAMOND WHETSTONE
Pag. 14.04



MACHINIST POCKET WHETSTONE
Pag. 14.04



MACHINIST POCKET WHETSTONE
Pag. 14.04



MACHINIST POCKET WHETSTONE
Pag. 14.05



DIAFOLD DIAMOND WHETSTONE
Pag. 14.05



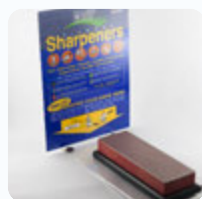
DIAFOLD DIAMOND FLAT FILE
Pag. 14.05



DIAFOLD SERRATED KNIFE SHARPENER
Pag. 14.05



6"/8"/12" DIAMOND WHETSTONE
Pag. 14.06



DEMO-STAND
Pag. 14.06



**DIAMOND WAVE SHARPENERS FOR
RADIUS CUTTERS**
Pag. 14.07



**8" DIAMOND WHETSTONE
WITH BASE**
Pag. 14.07

Klein®



DIAMOND WHETSTONE
Pag. 14.07



DIAMOND WHETSTONE
Pag. 14.07



GRINDING WHEEL FOR ROUNDED
SPURS DOWEL DRILLS
Pag. 14.08



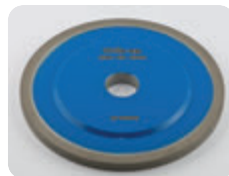
GRINDING WHEEL
FOR DOWEL DRILLS
Pag. 14.08



HIGH PERFORMANCE CUTTING DISC
Pag. 14.09



GRINDING WHEEL FOR HOLLOW
PARTS AND HOLES
Pag. 14.09



GENERAL PURPOSE STRAIGHT WHEEL
Pag. 14.09



GENERAL PURPOSE
STRAIGHT WHEEL
Pag. 14.09



GRINDING WHEEL
FOR HW TIPPED CUTTERS
Pag. 14.09



GRINDING WHEEL
FOR PLANER KNIVES
Pag. 14.09



GRINDING WHEEL
FOR ROUTER CUTTERS
Pag. 14.10



GRINDING WHEEL
FOR ROUTER CUTTERS
Pag. 14.10



GRINDING WHEEL FOR HW TIPPED
SAWBLADES
Pag. 14.10



GRINDING WHEEL FOR HW TIPPED
SAWBLADES
Pag. 14.10



GRINDING WHEEL FOR BAND SAWBLADES
Pag. 14.10

The best for a proper maintenance

KleinTOPUP

Table and tool surface sealant



- Eliminates "hang-ups" on sliding surfaces
- Protects all tools and equipment from rust.
- Up to 30% slicker than paste wax.
- Prevents rust 5 times longer than paste wax or silicone.
- Easier and quicker to apply
- Contains no silicone or petroleum oil.
- Will not stain wood or interfere with glues or finishes.
- Perfect for table saws, drill presses, lathes, planers, band saws, mitres, panel saws and all hand tools.
- Environment-friendly, doesn't contain CFCs or any other ODS.

Item	Description
KLEINTOPUP.400 NEW	Spray Can 400 ml.

KleinDRYUP

Blade and bit cutting lubricant



- Prevents resin build-up.
- Reduces blade cleanings.
- Extends overall life of blades and bits by up to 3 times!
- More than doubles time between resharpenings.
- Contains NO silicone or petroleum oil. Will NOT stain wood or interfere with glues or finishes.
- Reduces cutting friction and heat by 30%.
- Prolongs equipments life by reducing saw or drill motor drag by up to 25%.
- Increases productivity by less downtime for saw blade changeovers.
- Works equally well on steel or carbide, stellite and diamond-tipped cutting blades.
- Environment-friendly, doesn't contain CFCs or any other ODS.

Item	Description
KLEINDRYUP.400 NEW	Spray Can 400 ml.

KleinPROTECT

Protective lubricant for cutting tools



- Removes easily and rapidly any residues of grease, coolants and synthetic compounds.
- If regularly used, protects and prevents from rust and corrosion
- Displaces moisture and condensation in case of difficult weather conditions.
- Extremely efficient on every metal surface
- Can be applied also on alloys containing copper, magnesium, nickel, steel, stainless steel, titanium and zinc, or polymers and elastomers.
- Can be used on all types of delicate machinery and mechanisms for weapons (according to U.S. Army specifications).

Item	Description
KLEINPROTECT.400 NEW	Spray Can 400 ml.
KLEINPROTECT.5000 NEW	Liquid – Tank 5 L

KleinCLEANUP

Detergent for cutting tools cleaning



- Water-based detergent for clearing tools
- Recommended for removing resin or sludge from tools
- No corrosive or dulling effect
- Not foaming
- Not flammable, doesn't contain solvents
- Non-toxic, not health-harming
- Biodegradable
- Suitable also for washers
- Can be used on any mechanical parts or tools also mounted on groups for windows

Item	Description
KLEINCLEANUP.1000 NEW	Liquid – Bottle 1 L
KLEINCLEANUP.10000 NEW	Liquid – Tank 10 L

KleinWASHER

Automatic Tool Washer

- Suitable for washing any metal parts
- For tools of various dimensions, also for tool groups for windows
- Heated biological operating mode

Includes:

- Stainless steel housing
- Rotating tank D=550 mm.
- Stainless steel upper, under and lateral washing arms
- Timer
- Thermal resistance
- Single-phase 1 hp pump
- Dimensions: 700x600 h 866mm.
- Dimensions packing: 785x780 h1000mm.
- Weight: 50 kg.



Item
KLEINWASHER NEW

See section 16 page 16.19

KleinCLEANER

Manual Tool Washer

- Can wash any type of tools or metal parts
 - Easy to be used with water and spray gun
 - Heated biological operating mode
- ##### Includes:
- Spray gun
 - Tool holding grid
 - Stainless steel tank with thermal resistance
 - Air-operated double diaphragm pump 5 L/min.
 - Tank dimensions: 600x500 h 250mm.
 - Tank capacity: 70L
 - Dimensions: 700x560 h1000mm.
 - Dimensions packing: 970x670 h1020.
 - Weight: 40 Kg.



Item
KLEINCLEANER NEW

See section 16 page 16.19

DIAMOND WHETSTONE



Grind and spare!

A complete range of diamond stones for any kind of application
JUST DIAMOND CAN GIVE YOU THE EDGE OF PERFECTION

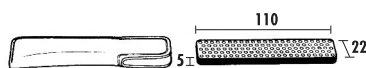
- FAST** - Hardest material; most efficient sharpening abrasive
- EASY** - Light pressure produces a sharp edge with just a few strokes
- CLEAN** - Use water for lubricant - No oil, no mess!
- VERSATILE** - Hones all hard materials: carbide, steel, etc.
- DURABLE** - Stays flat



- **X-Coarse** Most rapid stock removed for dressing nicked or damaged knives and chisels or sharpening heavy cutting tools such as axes and lawnmower blades.
- **Coarse** Rapidly restores a sharp edge on dull knives and tools. Perfect for honing garden tools, sport knives, scissors and general tools.
- **Fine** Ideal for honing a razor sharp edge on quality cutlery and woodworking tools that are regularly maintained.
- **Extra-Fine** the ultimate edge refinement for the finest quality knives and woodworking tools. Recommended after edge has been sharpened on the grit.

4" DIAMOND WHETSTONE

ART. W4



In leather sheath

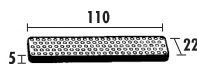


Item	Grit sizing
W4E	Extra-fine
W4F	Fine
W4C	Coarse
W4X	X-Coarse



4" DIAMOND WHETSTONE

ART. A4



In plastic package



Item	Grit sizing
A4E	Extra-fine
A4F	Fine
A4C	Coarse
A4X	X-Coarse

MACHINIST POCKET WHETSTONE

ART. WM



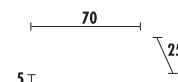
- In leather sheath
- Ideal for resharpening small size tools



Item	Grit sizing
WMF	Fine
WMC	Coarse

MACHINIST POCKET WHETSTONE

ART. WS7



In plastic package

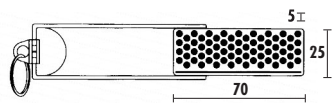


Item	Grit sizing
WS7E	Extra-fine
WS7F	Fine
WS7C	Coarse
WS7X	X-Coarse



MACHINIST POCKET WHETSTONE

ART. F70



In plastic package

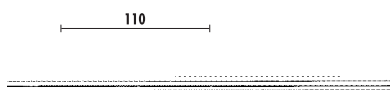


Item	Grit sizing
F70F	Fine
F70C	Coarse



DIAFOLD DIAMOND WHETSTONE

ART. FW



Diafold sharpeners with folding plastic handles



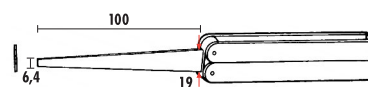
Item	Grit sizing
FWE	Extra-fine
FWF	Fine
FWC	Coarse
FWX	X-Coarse

FWEF	Ex.-fine/fine
FWFC	Fine/Coarse
FWCX	Coarse/X-Coarse



DIAFOLD DIAMOND FLAT FILE

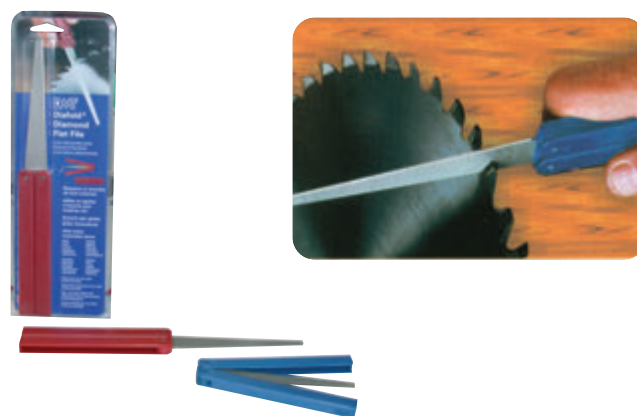
ART. FF



Pocket diafold diamond flat file

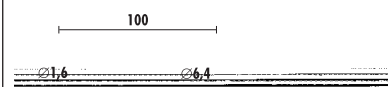


Item	Grit sizing
FFF	Fine
FFC	Coarse



DIAFOLD SERRATED KNIFE SHARPENER

ART. FSK



Pocket diafold conical diamond file

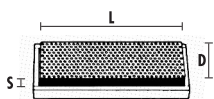


Item	Grit sizing
FSKF	Fine
FSKC	Coarse



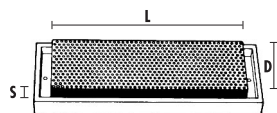
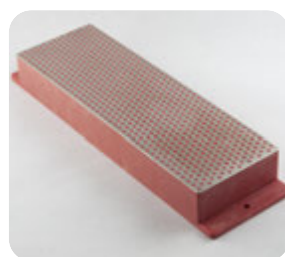
6"/8"/12" DIAMOND WHETSTONE

ART. W6 - W8 - WT



Bench model in hardwood case

Item	Grit sizing		L	D S
W6E	Extra-fine	152	51	19
W6F	Fine	152	51	19
W6C	Coarse	152	51	19
W6X	X-Coarse	152	51	19
W8E	Extra-fine	205	67	32
W8F	Fine	205	67	32
W8C	Coarse	205	67	32
W8X	X-Coarse	205	67	32
WTF	Fine	305	67	32
WTC	Coarse	305	67	32



Bench model in plastic case

Item	Grit sizing		L	D S
W6EP	Extra-fine	152	51	19
W6FP	Fine	152	51	19
W6CP	Coarse	152	51	19
W6XP	X-Coarse	152	51	19
W8ENB	Extra-fine	205	67	32
W8FNB	Fine	205	67	32
W8CNB	Coarse	205	67	32
W8XNB	X-Coarse	205	67	32



DEMO-STAND

ART. PDW6



- Demo stand including a diamond whetstone
- Supplied free of charge when ordering **two pieces** each of the following items

ART. F70F
ART. F70C



ART. W6F
ART. W6C



ART. W4F
ART. W4C



ART. FWF
ART. FWC



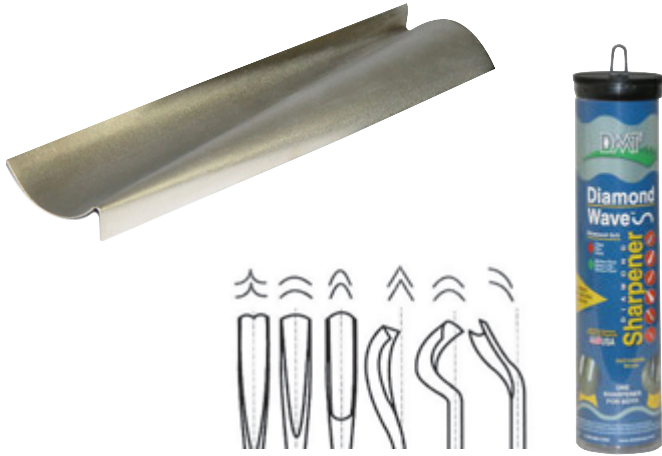
Item	Grit sizing	Dimension
PDW6F	Fine	152x51x19
PDW6C	Coarse	152x51x19

NEW DEALER STARTER KITS

Pcs	Item
1	PDW6C
2	W6FP
2	W6CP
2	F70F
2	F70C
2	FWE
2	FWF
2	FWC
2	FSKC

DIAMOND WAVE SHARPENERS FOR RADIUS CUTTERS

ART. WAVF



- DIAMOND WAVE

- Ideal for resharpening curved tools, like gouges, carving and wood turning tools
- Convex and concave diamond surface in one sharpening tool
- Resharpen tools with radius from min. 1,6 to max. 25 mm.
- Including anti-slippery pad for easier use
- No oil is needed – sharpen dry or with water



Item	Grit sizing	Dimension
WAVF	Fine	30x250x25

8" DIAMOND WHETSTONE WITH BASE

ART. WM8FC-WB



- DUOSHARP

- Double-sided stone:
- Coarse grit to quickly restore a neglected edge
- Fine grit for a razor sharp edge
- Ideal for all craftsmen who need to resharpen straight cutting edges
- Can resharpen a wide range of materials: carbide, steel, ceramic, glas, stone
- Supplied with plastic base



Item	Grit sizing	Dimension
WM8FC-WB	Coarse/Fine	203x66 mm

Spare parts

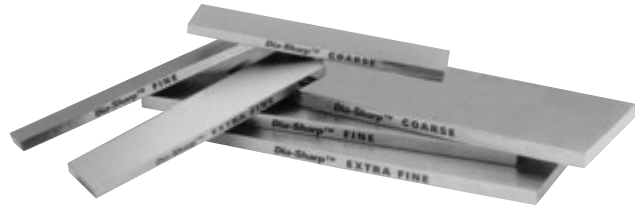
WM8FC	Coarse/Fine	203x66 mm
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NEW DIAMOND SHARPENERS "ECONOMY LINE"



Sharpens, hones & laps: knives, router bits, plane blades, ski edges, fish hooks, garden tools, chisels, scissors, sawblades, lapidary, ceramics, broadheads, climbing equipment, masonry drills, axes, engraving tools, farm tools, mold & dies, planer/jointer knives, speed skates, carbide, glass.



COARSE (C) - 45 micron

General use-rapidly restores a dull edge on a tool or knife



FINE (F) - 25 micron

Restores a razor edge on well maintained tools and knives



Ex-FINE (E) - 9 micron

The ultimate edge refinement after stock removal on coarser diamond

DIAMOND WHETSTONE

ART. D4



In plastic package



Item	Grit sizing	Dimension
D4E	Extra-fine	110x22x5
D4F	Fine	110x22x5
D4C	Coarse	110x22x5

DIAMOND WHETSTONE

ART. D6



In plastic package



Item	Grit sizing	Dimension
D6E	Extra-fine	150x50x6
D6F	Fine	150x50x6
D6C	Coarse	150x50x6

GRINDING WHEELS



As a result of long experience in the production of special, high precision tools, **SISTEMI** has developed the Super Diamond **Klein**, which allows performing quicker and more economically efficient abrasive machining operations. Obtained by a process of synthesis to very high pressure and temperature, the diamond used in the grinding wheels **Klein** is artificial and has been tested to provide the best possible result on the machines for regrinding tools for woodworking, while for ferrous materials, such as tools in HSS, CBN (Cubic boron nitride) is used.

The choice of grain size plays also an important role and **SISTEMI** has decided to limit the amount of grains available in its program by choosing those with the best performance of most use.

The grains of diamond or CBN are agglomerated with different binders, classified according to the following characteristics:

- Capacity of particle retention
- Capacity of discharging worn grains
- Dressing capacity
- Thermal resistance
- Thermal conductivity
- Type of material to be processed

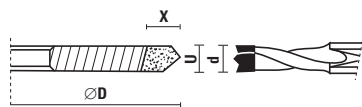
The attention to component selection and manufacturing process ensures that **Klein** grinding wheels are products of high precision. Mounting flanges, back-plates or adapters must be absolutely used and kept in good condition. All possible defects in the wheel-arbor coupling must be corrected before starting the wheel.

Furthermore it is important to remember that the use of coolant increases the cutting performance of the grinding wheels, reducing friction, heat generation and jamming of the abrasive surface.

Our Super Diamond **Klein** can be supplied in different shapes or dimensions on request, as well as in other grain sizes or bond types.

GRINDING WHEEL FOR ROUNDED SPURS DOWEL DRILLS

ART. X900

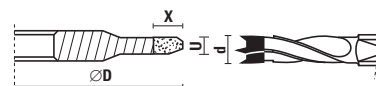


- Type 1A1 SPECIAL
- Abrasive material
- Grain size D91
- Suitable for Art. L114 - L115 - L116 - L117

Item	Tool diam.	ØD	Bore	U	X
X900.125.05D91	3÷7	125	20	5,5	8
X900.125.07D91	8÷10	125	20	7	8

GRINDING WHEEL FOR DOWEL DRILLS

ART. X901

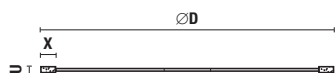


- Type 14A1 SPECIAL
- Abrasive material
- Grain size D91
- Suitable for Art. L101 - L102 - L103 - L104 - L105 - L106 - L107 - L108 - L109 - L110

Item	Tool diam.	ØD	Bore	U	X
X901.125.04D91	4	125	20	4	8
X901.125.05D91	5	125	20	4,5	8
X901.125.06D91	6	125	20	4,5	8
X901.125.08D91	8	125	20	5	8
X901.125.10D91	10	125	20	6	8

HIGH PERFORMANCE CUTTING DISC

ART. X902

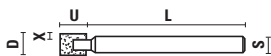


- Type 1A1R
- Abrasive material
- Grain size D181

Item	ØD	Bore	U	X
X902.125.12D181	125	20	1,2	6
X902.150.12D181	150	20	1,2	6

GRINDING WHEEL FOR HOLLOW PARTS AND HOLES

ART. X903

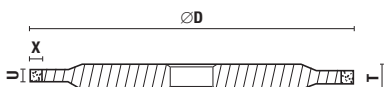
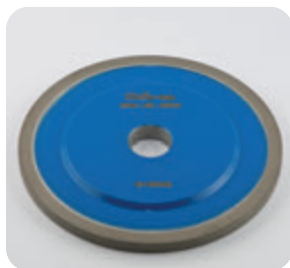


- Type 1A1W
- Abrasive material
- Grain size D126

Item	D	U	X	S	L
X903.006.06D126	6	6	1,5	6	60
X903.008.06D126	8	6	2	6	60
X903.010.06D126	10	6	2	6	60
X903.012.06D126	12	6	2	6	60

GENERAL PURPOSE STRAIGHT WHEEL

ART. X904

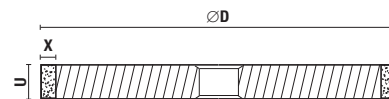


- Type 14A1
- Abrasive material
- Grain size D91

Item	ØD	Bore	U	X	T
X904.075.46D91	75	20	4	6	8
X904.075.66D91	75	20	6	6	10
X904.075.86D91	75	20	8	6	12
X904.100.46D91	100	20	4	6	8
X904.100.66D91	100	20	6	6	10
X904.100.86D91	100	20	8	6	12
X904.125.66D91	125	20	6	6	10
X904.125.86D91	125	20	8	6	12

GENERAL PURPOSE STRAIGHT WHEEL

ART. X905

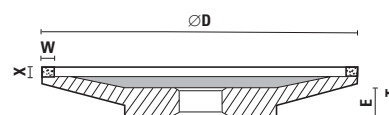


- Type 1A1
- Abrasive material
- Grain size D91

Item	ØD	Bore	U	X
X905.125.10D91	125	20	10	6
X905.125.12D91	125	20	12	6

GRINDING WHEEL FOR HW TIPPED CUTTERS

ART. X920

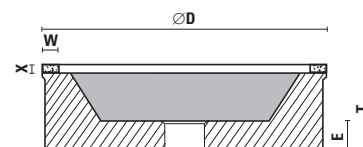


- Type 12A2 20°
- Abrasive material
- Grain size D64

Item	ØD	Bore	W	X	T	E
X920.150.46D64	150	20	6	4	21	9

GRINDING WHEEL FOR PLANER KNIVES

ART. X921

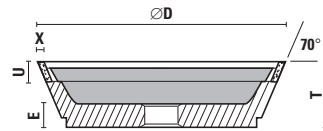
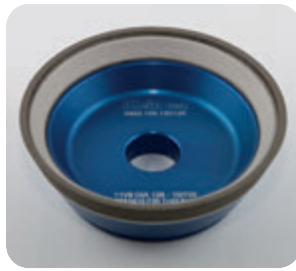


- Type 6A2
- D91 diamond type for HW knives
- Carborundum (CBN) B151 for HS knives

Item	ØD	Bore	W	X	T	E	Grain size	Abrasive
X921.125.45D91	125	16	5	4	40	16	D91	DIA
X921.150.46D91	150	20	6	4	49	15	D91	DIA
X921.175.56D91	175	20	6	5	56	15	D91	DIA
X921.125.45B151	125	16	5	4	40	16	B151	CBN
X921.150.46B151	150	20	6	4	49	15	B151	CBN

GRINDING WHEEL FOR ROUTER CUTTERS

ART. X922

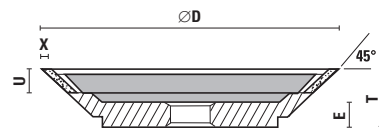


- Type 11V9
- Abrasive material
- Grain size D126
- For tool top and diameter regrinding
- For both HW straight router bits and solid carbide spiral router bits

Item	ØD	Bore	U	X	T	E
X922.075.13D126	75	20	10	3	30	11
X922.100.13D126	100	20	10	3	33	12

GRINDING WHEEL FOR ROUTER CUTTERS

ART. X923

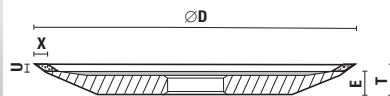


- Type 12V9 45°
- Abrasive material
- Grain size D126
- For tool face grinding on solid carbide spiral router cutters

Item	ØD	Bore	U	X	T	E
X923.075.13D126	75	20	10	3	20	10
X923.100.13D126	100	20	10	3	25	11
X923.125.13D126	125	20	10	3	26	12

GRINDING WHEEL FOR HW TIPPED SAWBLADES

ART. X930

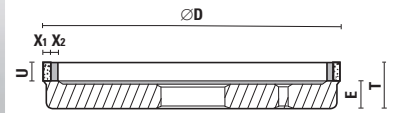


- Type 12V2
- Abrasive material
- Grain size D64
- Tooth face grinding
- Finishing grinding wheel

Item	ØD	Bore	X	U	T	E	Machine type
X930.075.24D64	75	25	4	2	10	8	Grifo AC66
X930.100.33D64	100	25 ch	3	3	11	8	Grifo AC90
X930.125.33D64	125	25 ch	3	3	12	8	Vollmer
X930.126.33D64	125	32	3	3	12	8	Vollmer CHC
X930.150.33D64	150	32	3	3	12	8	Ake
X930.175.33D64	175	50,8+1	3	3	12	12	Finimat
X930.200.33D64	200	32	3	3	12	11	Vollmer CHP

GRINDING WHEEL FOR HW TIPPED SAWBLADES

ART. X940

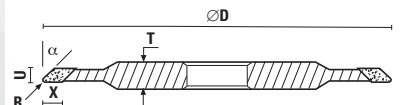


- Type 6AA9
- Abrasive material
- Grain size D126/46
- Tooth top grinding
- Double grain grinding wheel for single pass rough and finishing

Item	ØD	U	X1+X2	T	E	Bore	Machine type
X940.075.62D12646	75	6	2,5+2,5	17	9	25 ch	Grifo AC66
X940.100.82D12646	100	8	2,5+2,5	18	9	25 ch	Grifo AC90
X940.125.82D12646	125	8	2,5+2,5	20	11	32 ch	Voll. CHC - CHP
X940.126.82D12646	125	8	2,5+2,5	20	11	50,8+1	Finimat

GRINDING WHEEL FOR BAND SAWBLADES

ART. X950



- Type 14VR
- Carborundum (CBN) grinding wheels
- Grain size B181
- For hardened steel and/or stellite

Item	ØD	U	X	T	R	α	Bore
X950.150.47B181	150	4	7	10	1	40°	20