WOOD&MECHANICS
CATALOGUE

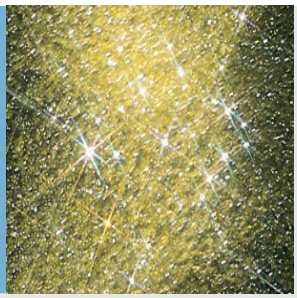
saidtools
INNOVATIVE DIAMOND SOLUTIONS

I nostri punti di forza
Our strengths

saidtools
INNOVATIVE DIAMOND SOLUTIONS

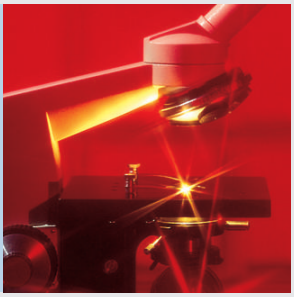
IL DIAMANTE | *THE DIAMOND*

In SAIDTOOLS tutto parte dal diamante, componente "superabrasivo" purissimo capace di offrire prestazioni eccezionali sui più diversi materiali. La sua qualità è controllata e selezionata all'interno dell'azienda per garantire la massima affidabilità.
In SAIDTOOLS everything starts with the diamonds, extremely pure "superabrasive" element able to offer exceptional performance on the most varied materials. The quality is controlled and selected within the company so as to guarantee the maximum reliability.



SELEZIONE E COMPOSIZIONE | *SELECTION AND COMPOSITION*

Il segreto di SAIDTOOLS è basato sulla scelta e nel dosaggio delle polveri metalliche e delle resine impegnate nella produzione della vasta gamma di leganti.
SAIDTOOLS secret is mainly found in the choice and in the dosage of the metallic powders and of the resins used in the production of a wide range of bonds agents.

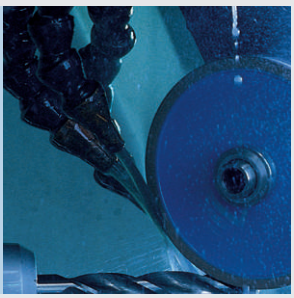


PRODOTTO E APPLICAZIONI | *PRODUCT AND APPLICATIONS*

La proposta SAIDTOOLS risponde alle diverse esigenze di taglio, affilatura, levigatura e lucidatura, offrendo soluzioni a tutto tondo sia per la grande industria che per il laboratorio artigiano.
SAIDTOOLS proposal responds to the various needs of cutting, sharpening, smoothing and polishing, offering overall solutions both for the large industries and for the small craftsman.

RICERCA E SERVIZIO | *RESEARCH AND SERVICE*

La ricerca SAIDTOOLS, alla base dello sviluppo aziendale, viene applicata alle varie richieste provenienti dal mercato.
I nuovi ritrovati, dopo attente verifiche, vengono immediatamente proposti con il supporto di adeguati servizi di consulenza.
SAIDTOOLS research, which is the basis of the company development, is applied to all the requests which come from the market. The discoveries, after careful controls, are immediately proposed with all the adequate support of consultancy services.



ORGANIZZAZIONE | *ORGANIZATION*

Il marchio SAIDTOOLS identifica la qualità di una struttura produttiva perfettamete collaudata. Dinamica, flessibile, completa in tutte le sue parti, agisce con tempestività in tutto il mondo.
SAIDTOOLS mark identifies the quality of a production structure which is perfectly tested. Dynamic, flexible, complete in all its parts it acts with speed in any part of the world.

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Superabrasivi
Super-abrasive wheels

I SUPERABRASIVI

Rispetto alle mole tradizionali, le mole in superabrasivo consentono di ottenere dei processi di rettifica con tempi più ridotti e con costi complessivi inferiori. L'utilizzo delle migliori materie prime, la ricerca di nuovi materiali e l'applicazione di tecnologie all'avanguardia consentono a SAIDTOOLS di portare sul mercato un prodotto progettato, realizzato e confezionato in ITALIA.

SUPER-ABRASIVE WHEELS

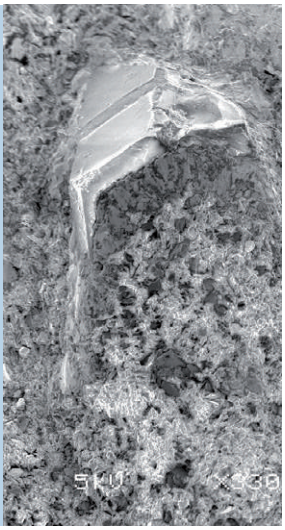
The super-abrasive wheels, if compared to the traditional ones, permit shorter and less expensive grinding operations. The use of the best rough materials, the search for new materials and the application of cutting-edge technologies permit to SAIDTOOLS to propose to the market a product designed, manufactured and packed in ITALY.

IL DIAMANTE

Il diamante è il più duro materiale conosciuto. Questa caratteristica ci consente di lavorare con facilità materiali quali la ceramica, cermet, quarzo, vetro e materiali refrattari. Il diamante utilizzato presso la SAIDTOOLS è di tipo artificiale, ottenuto da un processo di sintesi a pressione e temperature elevatissime. Per garantire una migliore adesione alla matrice possono essere utilizzati diamanti ricoperti da un sottile strato di metallo, solitamente Nickel o Rame. L'unico limite del diamante è la sua reattività con i materiali ferrosi, per i quali si deve ricorrere al CBN.

DIAMOND

Diamond is the hardest material that we know. This permits to work easily materials like ceramic, cermet, quartz, glass and refractory materials. The diamond used at Saidtools is an industrial diamond, obtained from a process of synthesis under very high pressure and temperatures. In order to grant a better adherence to the matrix, sometimes it is used the kind of diamond coated with a thin metal layer, usually nickel or copper. The only limit of the diamond is its reactivity with ferrous materials, so in those cases it is necessary the use of CBN.

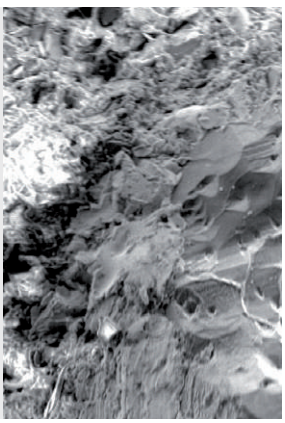


IL CBN

Il CBN, anche se meno duro del diamante, è caratterizzato da una resistenza chimica superiore. Viene prodotto per sintesi, ed è principalmente utilizzato per la lavorazione di acciai trattati termicamente, ghisa, acciai per molle, HSS e Stellite. Come nel caso del diamante, anche i cristalli di CBN vengono spesso ricoperti di un sottile strato metallico per aumentarne la capacità di ancoraggio e di smaltimento del calore.

CBN

CBN, even if it is less hard of the diamond, is marked out by a superior chemical durability. It is produced by synthesis, and it is used mainly to grind heat-treated steel, cast iron, steel for springs, HSS and stellite. As for diamond, also CBN crystals are coated by a thin metallic layer in order to increase their capacity of anchorage and heat removing.



Specifiche
Wheels specifications

I LEGANTI

Il tipo di legante deve essere scelto in base al tipo di lavorazione e alla quantità di materiale da asportare.

THE BONDS

The choice of bond type has to be made considering removal rate and type of work.

TIPO DI LEGANTE *BOND TYPE*	AGGLOMERANTE *CEMENT*	CAPACITÀ DI ASPORTAZIONE *FREEDOM OF CUT*	RESISTENZA TERMICA *HEAT RESISTANCE*	DURATA *LIFE*	DESIGNAZIONE SAIDTOOLS *DESIGNATION*
RESINOIDE ***RESIN BONDED***	Resina termoindurente *Thermo setting resin*	Alta *High*	Bassa *Low*	Media *Medium*	R1-R999
METALLICO IBRIDO ***HYBRID METAL***	Metallo *Metal*	Alta *High*	Media *Medium*	Alta *High*	MX1-MX999
METALLICO ***METAL BOND***	Metallo *Metal*	Bassa *Low*	Alta *High*	Altissima *Excellent*	M1-M999
GALVANICO ***GALVANIC***	Metallo *Metal*	Alta *High*	Alta *High*	Media *Medium*	E1-E999
VETRIFICATO ***VETRIFIED***	Vetro *Glass*	Altissima *Excellent*	Altissima *Excellent*	Media *Medium*	V1-V999

PARAMETRI DI RETTIFICA:

Il parametro più importante per la rettifica è la velocità di taglio (Vt) che si calcola con la seguente equazione:

The most important grinding parameter is the peripheral speed (Vt), that could be calcolated as follow: **Vt = π x D x n / 60000**

π = 3.14159265359 - **D** = diametro della mola, espresso in mm/*wheel diameter (mm)*

N = Numero di giri al minuto/RPM

Un altro parametro molto importante riguarda il rendimento della rettifica (G), che ci consente di misurare la durata della mola:

Another important parameter is the G-Factor that is connected to the life of the wheel : **G = Vw / Vs**

Vw = Volume di mola consumata (cm3)/*Wheels Wear (cm3)* - **Vs** = Volume di materiale asportato (cm3)/*Total amount of material removed (cm3)*

Il coefficiente Q'w ci consente di capire la quantità di materiale che stiamo asportando nell'unità di tempo.

*The Specific material removal rate Q'w is the the volume of material removed from a work piece in a defined time:***Q'w= F * Ae / 60**

F= Avanzamento (mm/min)/ *Feedrate (mm/min)* - Ae = Profondità di passata (mm)/ *Grinding depth (mm)*

LA GRANA

La scelta della granulometria influisce pesantemente sulla finitura e sulla quantità di materiale asportabile. Lo standard europeo FEPA definisce la grana in base al diametro medio dei cristalli misurati. La grana viene espressa in µm (micron).

GRIT SIZE

The choice of the granulometry affects on the finishing and the quantity of the material that can be removed quite heavily. FEPA European standards define the grit according to the medium diameter of the crystals that have been measured. The grit is expressed in µm (micron).

IMPIEGO *APPLICATION*	GRANE FEPA *FEPA GRIT*
SGROSSATURA **ROUGHING**	252 213 181 151 126
SEMIFINITURA ***SEMI - FINISHING***	107 91 76
FINITURA **FINISHING**	64 54 46
LAPPATURA ***LAPPING***	30 20 15 9

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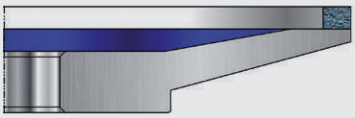
Le geometrie
Wheel shapes

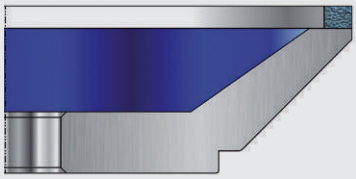
Seguendo lo standard FEPA, SAIDTOOLS propone le geometrie più diffuse e ottimizzate per migliorarne l'ergonomia.
Following the standard FEPA, SAIDTOOLS offers the most widely used shapes to improve ergonomics.

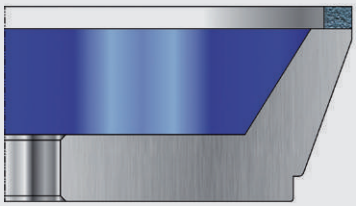

4BT9

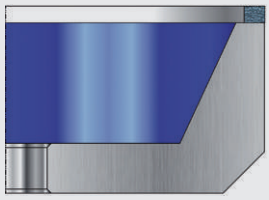

4ET9


4A2

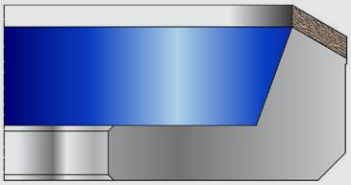

12A2 20°

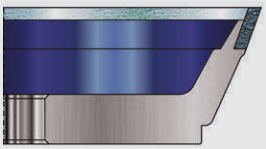

12A2 45°

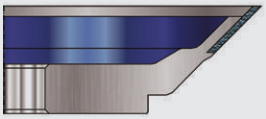

11A2


6A2

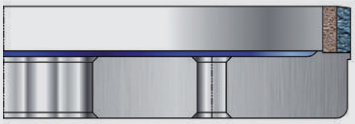

6A9


6V5


11V9


12V9 45°


12V2


6AA9

Le geometrie
Wheel shapes

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INNOVATIVE DIAMOND SOLUTIONS

Seguendo lo standard FEPA, SAIDTOOLS propone le geometrie più diffuse e ottimizzate per migliorarne l'ergonomia.
Following the standard FEPA, SAIDTOOLS offers the most widely used shapes to improve ergonomics.


1A1W

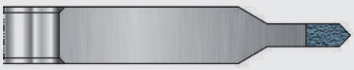

1A1R


14A1


1A1

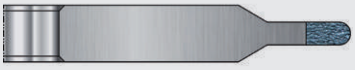

3A1


1A1F


14E1


14V1


1V1

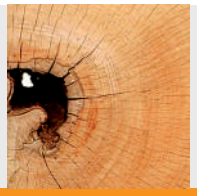

14F1


14AA1


14D1


14VR


14S1



LEGNO | *WOOD WORKING*

WOOD

FAST ONE

WOOD

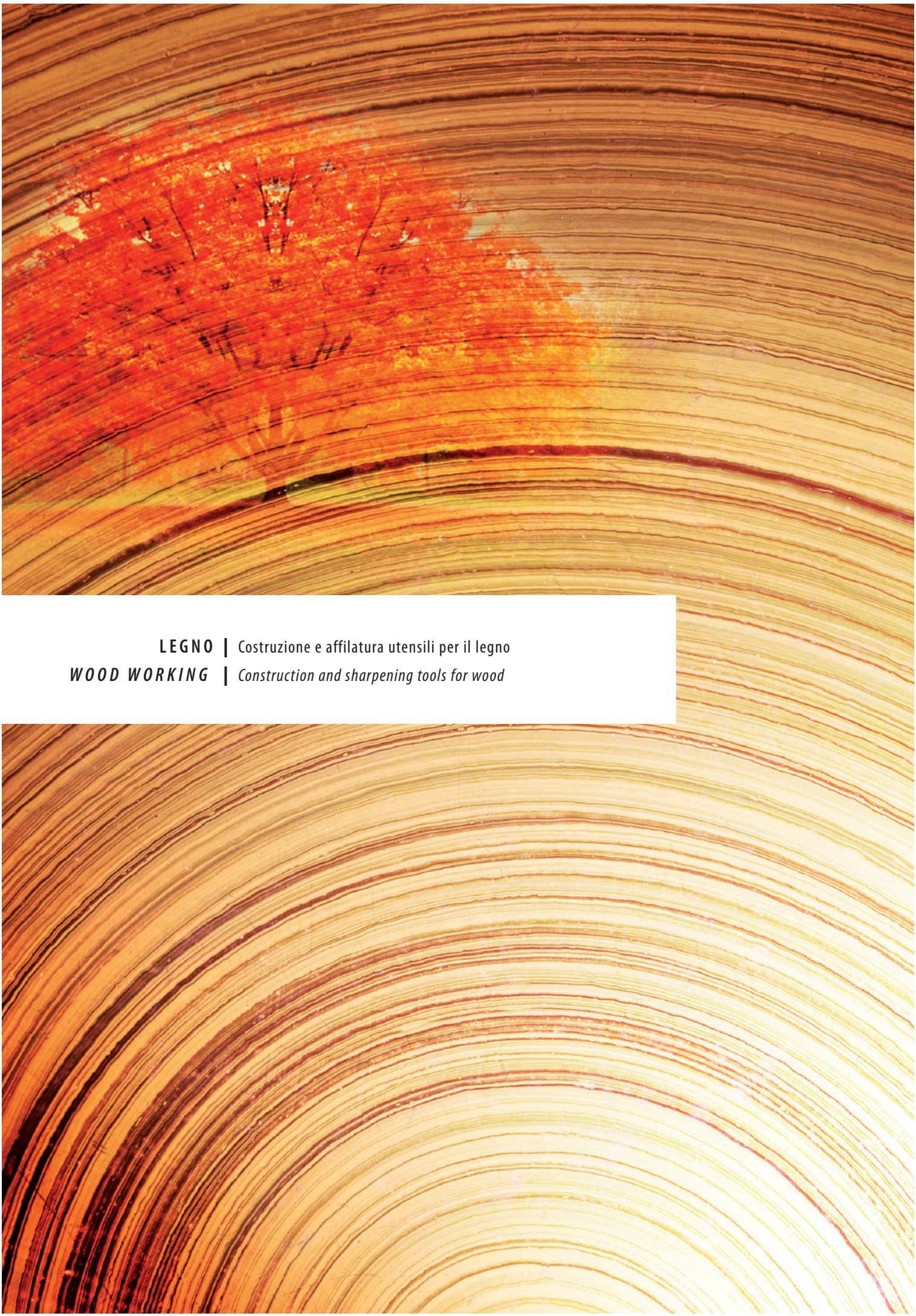
MECCANICA | *METAL WORKING*

SPARK

FLUSS

CNC

SHARP



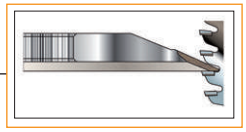
LEGNO | Costruzione e affilatura utensili per il legno

WOOD WORKING | *Construction and sharpening tools for wood*

LAME CIRCOLARI / *SAW BLADE*

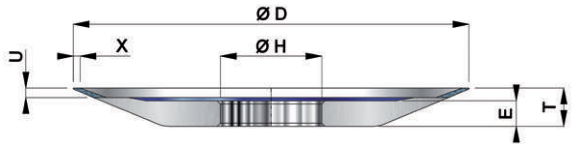
WOOD

AFFILATURA PETTO / *FACE SHARPENING*



12V2

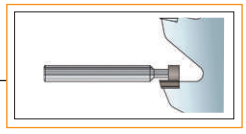
Forma *Shape*	Ø D	U	X	Ø H	T	E
12V2	75	3	3	25	11	8
12V2	100	3	3	25 CH	11	8
12V2	125	3	3	25 CH	12	9
12V2	125	3	3	32	12	9
12V2	150	3	3	32	12	10
12V2	160	3	3	32	12	9
12V2	175	3	3	32 CH	12	10
12V2	175	3	3	50,8+3F	12	9
12V2	200	3	3	32+1	12	10



LAME CIRCOLARI / *SAW BLADE*

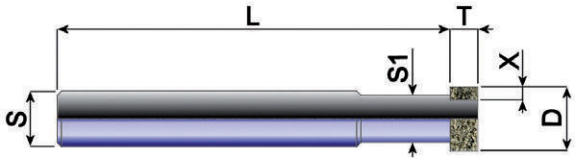
WOOD

AFFILATURA PETTO / *FACE SHARPENING*



1A1W

Forma *Shape*	Ø D	U	X	S	L
1A1W	6	4	1,5	6	40
1A1W	6	6	1,5	6	40
1A1W	7	4	2	6	40
1A1W	7	6	2	6	40



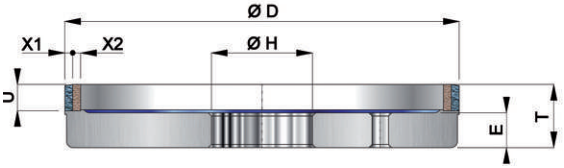
LAME CIRCOLARI / *SAW BLADE*

WOOD

AFFILATURA DORSO / *BACK SHARPENING*

6AA9

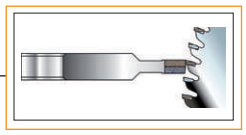
Forma *Shape*	Ø D	X1+X2	U	Ø H	T	E
6AA9	75	2,5+2,5	6	25	17	9
6AA9	100	2,5+2,5	8	25 CH	20	7
6AA9	125	2,5+2,5	8	32+1F	20	11



LAME CIRCOLARI / *SAW BLADE*

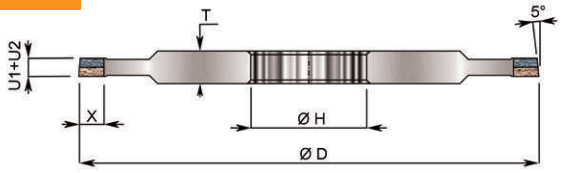
WOOD

AFFILATURA PETTO / *FACE SHARPENING*



Forma *Shape*	Ø D	U1+U2	X	Ø H	T
14AA1	127	2,5+2,5	7	32	9
14AA1	150	2,5+2,5	8	32	10
14AA1	175	2,5+2,5	7	32	10
14AA1	200	2,5+2,5	8	32	10

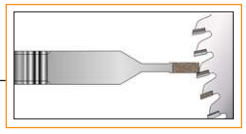
14AA1



LAME CIRCOLARI / *SAW BLADE*

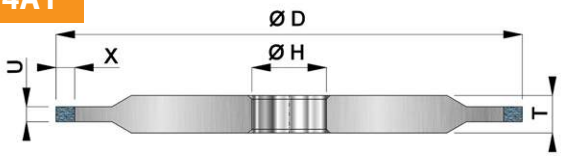
WOOD

SCARICO DORSO / *REFIL GRINDING*



Forma *Shape*	Ø D	U	X	Ø H
14A1	150	3	6	20
14A1	150	4	6	20

14A1



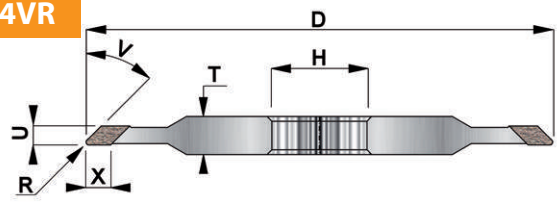
LAME A NASTRO / *BAND SAW*

WOOD

AFFILATURA DENTE / *TOOTH SHARPENING*

Forma *Shape*	Ø D	U	X	V	R	H	T
14VR	150	4	7	40°	1	20	10
14VR	150	4	7	40°	1	32	10
14VR	200	4	7	40°	1	20	10

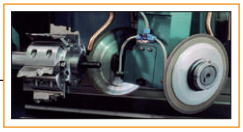
14VR



FRESE SALDOBRASATE / *BRAZED TOOLS*

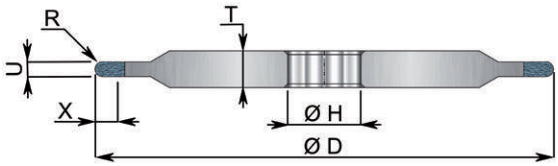
WOOD

PROFILATURA CNC / *CNC PROFILING*



14F1

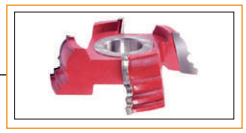
Forma *Shape*	Ø D	U	X	R	T
14F1	175	1,5	7	0,75	8
14F1	175	2	7	1	8
14F1	175	3	7	1,5	8
14F1	175	4	7	2	8
14F1	200	1,5	7	0,75	12
14F1	200	2	7	1	12
14F1	200	3	7	1,5	12
14F1	200	4	7	2	12



FRESE SALDOBRASATE / *BRAZED TOOLS*

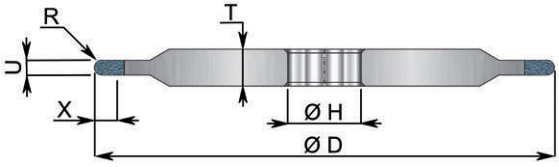
WOOD

PROFILATURA MANUALE / *MANUAL PROFILING*



14F1

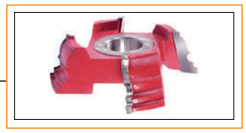
Forma *Shape*	Ø D	U	X	R	T
14F1	200	1,5	7	0,75	12
14F1	200	2	7	1	12
14F1	200	4	7	2	12
14F1	225	1,5	7	0,75	5
14F1	225	2	7	1	5
14F1	225	4	7	2	5
14F1	250	1,5	7	0,75	8
14F1	250	2	7	1	8
14F1	250	4	6	2	8



FRESE SALDOBRASATE / *BRAZED TOOLS*

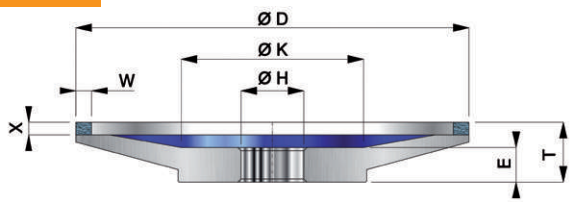
WOOD

AFFILATURA PETTO / *FACE SHARPENING*



12A2 20°

Forma *Shape*	Ø D	W	X	Ø H	T	E
12A2 20°	150	6	4	20	20	9
12A2 20°	175	6	4	20	20	9
12A2 20°	200	6	4	20	22	10



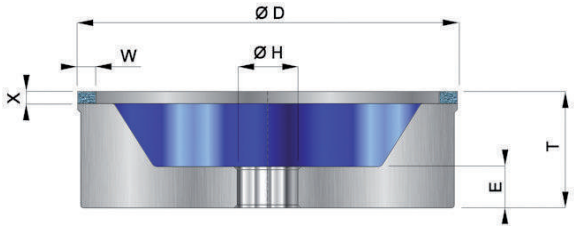
AFFILATURA / *SHARPENING*

COLTELLI A PIALLA / *KNIVES*

WOOD

6A2

Forma *Shape*	Ø D	W	X	T	E
6A2	125	5	4	40	15
6A2	150	6	4	49	18
6A2	150	6	5	50	18
6A2	175	6	4	55	15
6A2	175	6	4	55	15
6A2	175	6	5	56	15
6A2	200	6	4	50	15
6A2	200	6	4	50	15
6A2	200	6	4	50	15
6A2	250	6	4	50	15
6A2	250	6	4	50	15



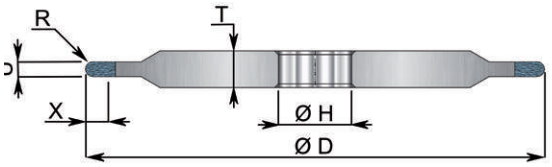
PROFILATURA CNC / *CNC PROFILING*

COLTELLINI A GETTARE / *HM KNIVES*

FAST ONE

14F1 - 14EF1

Forma *Shape*	Sagoma *Profile*	Ø D	U	X	R	Ø H	T	E
14F1		200	3	7	1,5	20-50	12	12
14F1		200	2	7	1	20-50	12	12
14EF1		200	2	7	V=20° R=0,4	20-50	12	12
14F1		300	3	7	1,5	20-50	37	23
14F1		300	2	7	1	20-50	37	23
14EF1		300	2	7	V=20° R=0,4	20-50	37	23



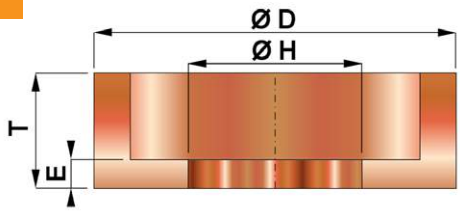
UTENSILI IN PCD / *PCD TOOLS*

WOOD

LAVORAZIONE FRONTALE / *FACE*

6A2E

Forma *Shape*	Ø D	T	Ø H	E
6A2E	125	40	60	10
6A2E	125	40	20	10



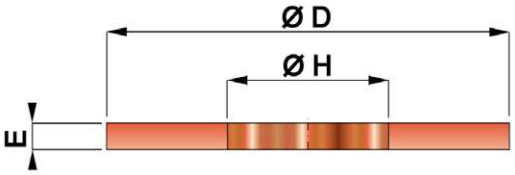
UTENSILI IN PCD / *PCD TOOLS*

WOOD

LAVORAZIONE PERIFERICA / *PERIPHERICAL*

1A1E

Forma *Shape*	Ø D	T	Ø H
1A1E	50	5	10 - 15
1A1E	50	10	10 - 15
1A1E	50	15	10 - 15
1A1E	80	5	10 - 15
1A1E	80	10	10 - 15
1A1E	150	5	20 - 60
1A1E	150	10	20 - 60
1A1E	175	5	20 - 60
1A1E	175	10	20 - 60



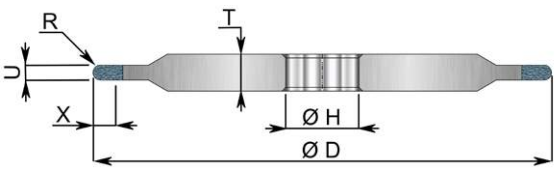
UTENSILI IN PCD / *PCD TOOLS*

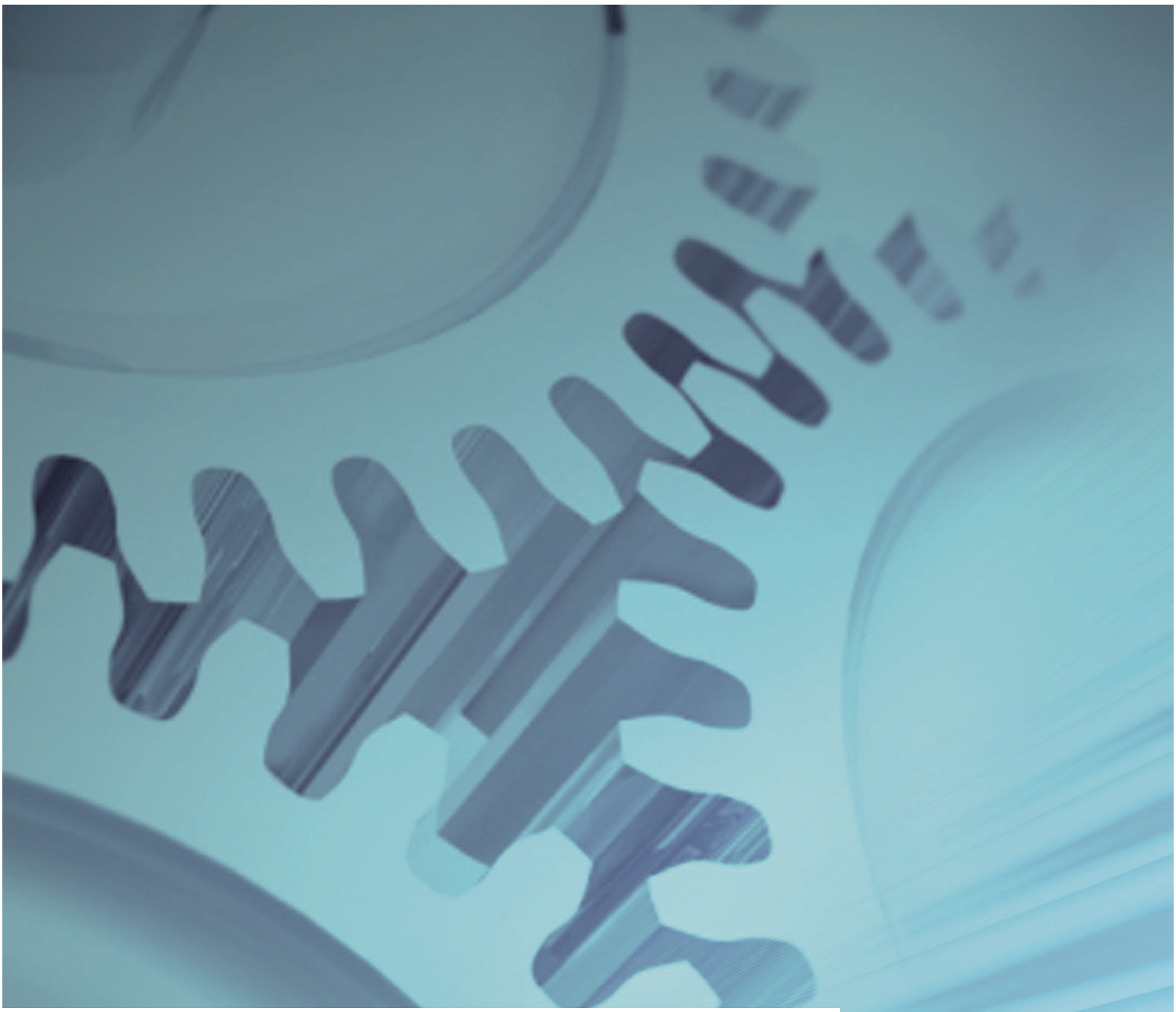
WOOD

SCARICO SECONDA SPOGLIA / *BACK GRINDING*

14F1

Forma *Shape*	Ø D	U	X	R	Ø H
14F1	125	2	6	1	60
14F1	125	3	6	1,5	60
14F1	125	5	6	2,5	60

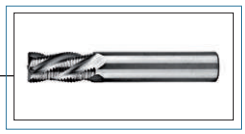




MECCANICA | Costruzione e affilatura utensili per il metallo

METAL WORKING | *Construction and sharpening tools for metal*

TAGLIO / *CUT OFF*

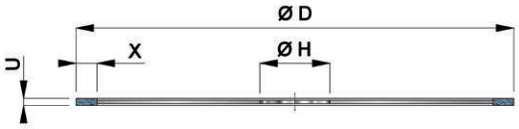


FRESE-PUNTE / *MILLS-DRILLS*

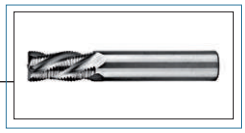
SPARK

1A1R

Forma *Shape*	Ø D	U	X	T
1A1R	100	1	6	0,8
1A1R	125	1,2	6	0,8
1A1R	150	1,2	6	0,8
1A1R	175	1,3	6	1
1A1R	200	1,3	6	1
1A1R	250	1,5	5	1,3



AFFILATURA MANUALE / *MANUAL SHARPENING*

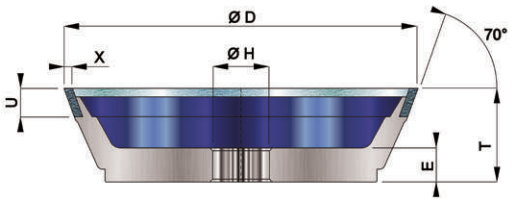


FRESE-PUNTE / *MILLS-DRILLS*

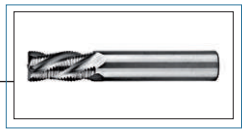
SPARK

11V9

Forma *Shape*	Ø D	X	U	Ø H	T	E
11V9	75	2	10	20	30	10
11V9	75	3	10	20	30	10
11V9	100	2	10	20	32	12
11V9	100	3	10	20	32	12
11V9	125	2	10	20	32	12
11V9	125	3	10	20	32	12



AFFILATURA MANUALE / *MANUAL SHARPENING*

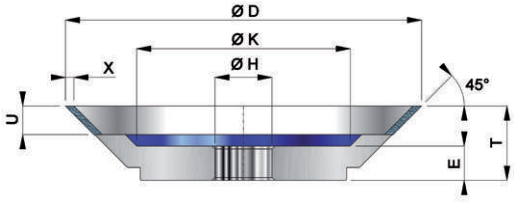


FRESE-PUNTE / *MILLS-DRILLS*

SPARK

12V9 45°

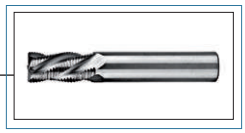
Forma *Shape*	Ø D	X	U	Ø H	T	E
12V9 45°	75	2	10	20	20	10
12V9 45°	75	3	10	20	20	10
12V9 45°	100	2	10	20	25	12
12V9 45°	100	3	10	20	25	12
12V9 45°	125	2	10	20	25	12
12V9 45°	125	3	10	20	25	12
12V9 45°	150	2	10	20	25	12
12V9 45°	150	3	10	20	25	12



RETTIFICA / *GRINDING*

UTENSILI / *TOOLS*

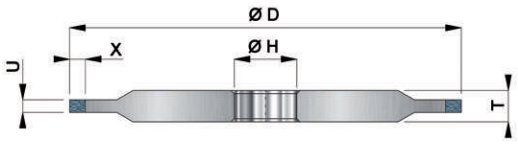
SPARK



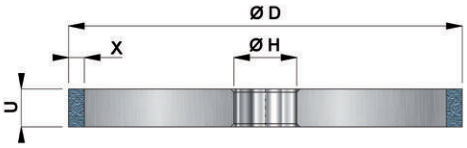
Forma *Shape*	Ø D	U	X	Ø H	T
14A1	75	2/4/6	6	20	6/8/10
14A1	75	8/10	6	20	10
1A1	75	12/15/20	6	20	12/15/20
14A1	100	2/4/6	6	20	12
14A1	100	8/10	6	20	12
1A1	100	12/15/20	6	20	12/15/20
14A1	125	2/4/6	6	20	12
14A1	125	8/10	6	20	12
1A1	125	12/15/20	6	20	12/15/20
14A1	150	2/4/6	6	20	12
14A1	150	8/10	6	20	12
1A1	150	12/15/20	6	20	12/15/20

14A1 - 1A1

14A1



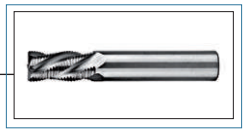
1A1



RETTIFICA / *GRINDING*

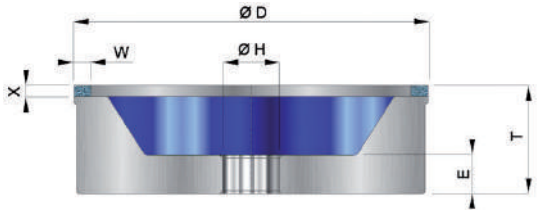
UTENSILI / *TOOLS*

SPARK



Forma *Shape*	Ø D	W	X	Ø H	T
6A2	75	5/10	4	20	30
6A2	100	5/10	4	20	30
6A2	125	5/10	4	20	30
6A2	150	6/10/15/20	6	20	50

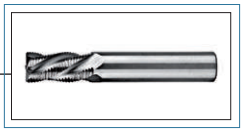
6A2



RETTIFICA / *GRINDING*

UTENSILI - STAMPI / *TOOLS - MOLDS*

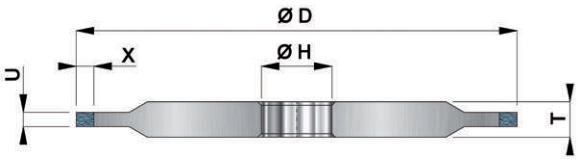
FLUSS



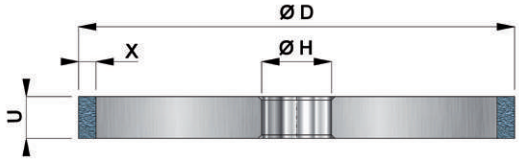
Forma *Shape*	Ø D	U	X	Ø H	T	E
14A1	175	6	6	20	12	
1A1	175	12	6	20	12	
1A1	175	20	6	20	20	
14A1	200	6	6	32	12	
1A1	200	12	6	32	12	
1A1	200	20	6	32	20	
1A1	200	30	6	32	30	
14A1	250	6	6	76	12	
1A1	250	12	6	76	12	
1A1	250	20	6	76	20	
1A1	250	30	6	76	30	
14A1	300	12	6	127	20	
1A1	300	20	6	127	20	
1A1	300	30	6	127	30	
14A1	350	12	6	127	20	
1A1	350	20	6	127	20	
1A1	350	30	6	127	30	
14A1	400	12	7	127	20	
1A1	400	20	7	127	20	
1A1	400	30	7	127	30	
14A1	500	12	7	127	20	
1A1	500	20	7	127	20	
1A1	500	30	7	127	30	

14A1 - 1A1

14A1



1A1

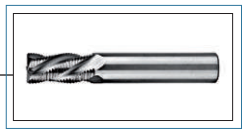



CNC

AFFILATURA - COSTRUZIONE CNC / *CNC SHARPENING - CONSTRUCTION*

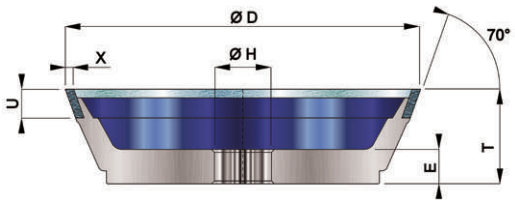
FRESE - PUNTE / *MILLS - DRILLS*

CNC



11V9

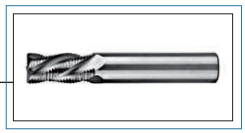
Forma *Shape*	Ø D	X	U	Ø H	T	E
11V9	75	2	10	20	30	10
11V9	75	3	10	20	30	10
11V9	100	2	10	20	32	12
11V9	100	3	10	20	32	12
11V9	125	2	10	20	32	12
11V9	125	3	10	20	32	12



AFFILATURA - COSTRUZIONE CNC / *CNC SHARPENING - CONSTRUCTION*

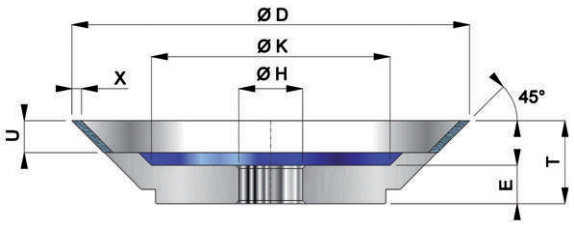
FRESE - PUNTE / *MILLS - DRILLS*

CNC



12V9 45°

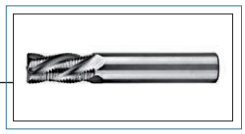
Forma *Shape*	Ø D	X	U	Ø H	T	E
12V9 45°	75	2	10	20	20	10
12V9 45°	75	3	10	20	20	10
12V9 45°	100	2	10	20	25	12
12V9 45°	100	3	10	20	25	12
12V9 45°	125	2	10	20	25	12
12V9 45°	125	3	10	20	25	12



AFFILATURA - COSTRUZIONE CNC / *CNC SHARPENING - CONSTRUCTION*

FRESE - PUNTE / *MILLS - DRILLS*

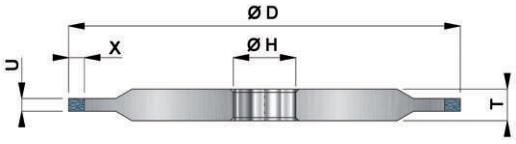
CNC



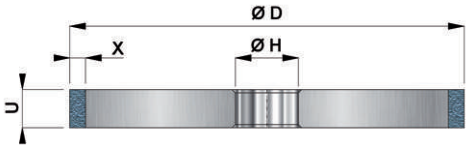
14A1 / 1A1

Forma *Shape*	Ø D	U	X	Ø H	T
14A1	75	6	6/10	20	12
14A1	75	8	6/10	20	12
14A1	75	10	6/10	20	12
1A1	75	12	6/10	20	12
1A1	75	14	6/10	20	14
1A1	75	16	6/10	20	16
1A1	75	20	6/10	20	20

14A1

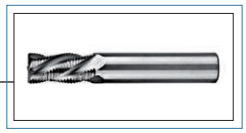


1A1



FRESE - PUNTE / *MILLS - DRILLS*

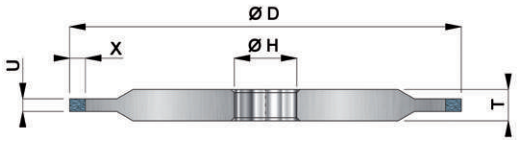
CNC



14A1 / 1A1

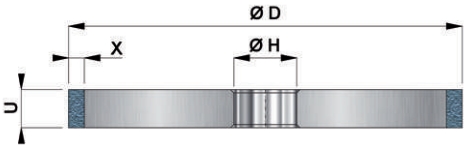
Forma *Shape*	Ø D	U	X	Ø H	T
14A1	100	6	6/10	20	12
14A1	100	8	6/10	20	12
14A1	100	10	6/10	20	12
1A1	100	12	6/10	20	12
1A1	100	14	6/10	20	14
1A1	100	16	6/10	20	16
1A1	100	20	6/10	20	20

14A1



Forma *Shape*	Ø D	U	X	Ø H	T
14A1	125	6	6/10	20	12
14A1	125	8	6/10	20	12
14A1	125	10	6/10	20	12
1A1	125	12	6/10	20	12
1A1	125	14	6/10	20	14
1A1	125	16	6/10	20	16
1A1	125	20	6/10	20	20

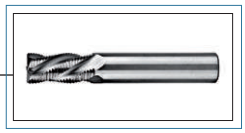
1A1



Forma *Shape*	Ø D	U	X	Ø H	T
14A1	150	6	6/10	20	12
14A1	150	8	6/10	20	12
14A1	150	10	6/10	20	12
1A1	150	12	6/10	20	12
1A1	150	14	6/10	20	14
1A1	150	16	6/10	20	16
1A1	150	20	6/10	20	20

FRESE - PUNTE / *MILLS - DRILLS*

CNC



14V1 / 1V1

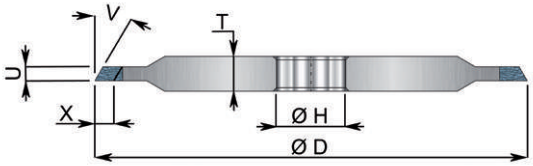
Forma *Shape*	Ø D	U	X	Ø H	T	V
14V1	75	6	6/10	20	12	2-55°
14V1	75	8	6/10	20	12	2-55°
14V1	75	10	6/10	20	12	2-55°
1V1	75	12	6/10	20	12	2-55°
1V1	75	14	6/10	20	14	2-55°
1V1	75	16	6/10	20	16	2-55°
1V1	75	20	6/10	20	20	2-55°

Forma *Shape*	Ø D	U	X	Ø H	T	V
14V1	100	6	6/10	20	12	2-55°
14V1	100	8	6/10	20	12	2-55°
14V1	100	10	6/10	20	12	2-55°
1V1	100	12	6/10	20	12	2-55°
1V1	100	14	6/10	20	14	2-55°
1V1	100	16	6/10	20	16	2-55°
1V1	100	20	6/10	20	20	2-55°

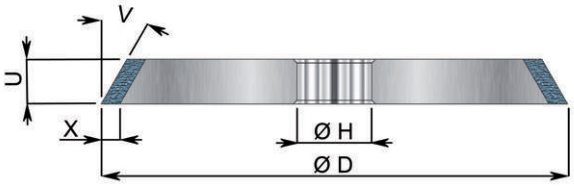
Forma *Shape*	Ø D	U	X	Ø H	T	V
14V1	125	6	6/10	20	12	2-55°
14V1	125	8	6/10	20	12	2-55°
14V1	125	10	6/10	20	12	2-55°
1V1	125	12	6/10	20	12	2-55°
1V1	125	14	6/10	20	14	2-55°
1V1	125	16	6/10	20	16	2-55°
1V1	125	20	6/10	20	20	2-55°

Forma *Shape*	Ø D	U	X	Ø H	T	V
14V1	150	6	6/10	20	12	2-55°
14V1	150	8	6/10	20	12	2-55°
14V1	150	10	6/10	20	12	2-55°
1V1	150	12	6/10	20	12	2-55°
1V1	150	14	6/10	20	14	2-55°
1V1	150	16	6/10	20	16	2-55°
1V1	150	20	6/10	20	20	2-55°

14V1

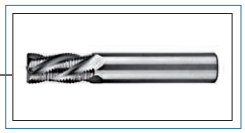


1V1



FRESE - PUNTE / *MILLS - DRILLS*

CNC



14F1

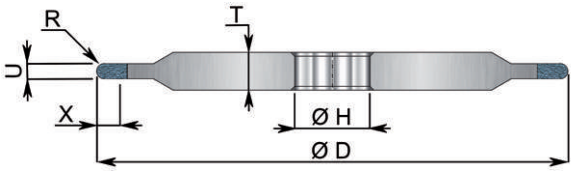
Forma *Shape*	Ø D	U	X	R	Ø H	T
14F1	75	3	6	1,5	20	10
14F1	75	4	6	2	20	10
14F1	75	6	6	3	20	10
14F1	75	8	6	4	20	10
14F1	75	10	6	5	20	10

Forma *Shape*	Ø D	U	X	R	Ø H	T
14F1	100	3	6	1,5	20	10
14F1	100	4	6	2	20	10
14F1	100	6	6	3	20	10
14F1	100	8	6	4	20	10
14F1	100	10	6	5	20	10

Forma *Shape*	Ø D	U	X	R	Ø H	T
14F1	125	3	6	1,5	20	10
14F1	125	4	6	2	20	10
14F1	125	6	6	3	20	10
14F1	125	8	6	4	20	10
14F1	125	10	6	5	20	10

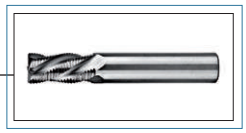
Forma *Shape*	Ø D	U	X	R	Ø H	T
14F1	150	1,5	6	0,75	20	10
14F1	150	2	6	1	20	10
14F1	150	3	6	1,5	20	10
14F1	150	4	6	2	20	10
14F1	150	6	6	3	20	10
14F1	150	8	6	4	20	10
14F1	150	10	6	5	20	10

Forma *Shape*	Ø D	U	X	R	Ø H	T
14F1	175	1,5	6	0,75	20	8
14F1	175	2	6	1	20	8
14F1	175	3	6	1,5	20	8
14F1	175	4	6	2	20	8



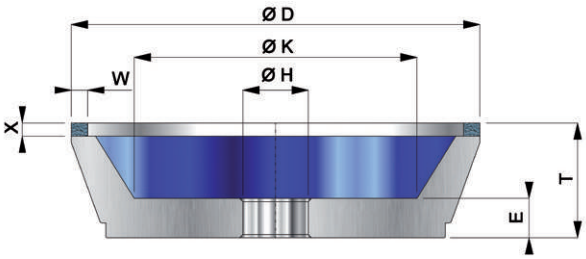
FRESE - PUNTE / *MILLS - DRILLS*

CNC



11A2

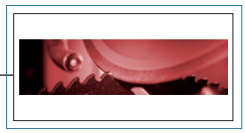
Forma *Shape*	Ø D	W	X	Ø H	T	E
11A2	125	6	6	20	30	12
11A2	125	8	6	20	30	12
11A2	125	10	6	20	30	12
11A2	125	12	6	20	30	12
11A2	125	14	6	20	30	12



AFFILATURA - COSTRUZIONE CNC / *CNC SHARPENING - CONSTRUCTION*

LAME CIRCOLARI HSS / *HSS SAW BLADE*

SHARP



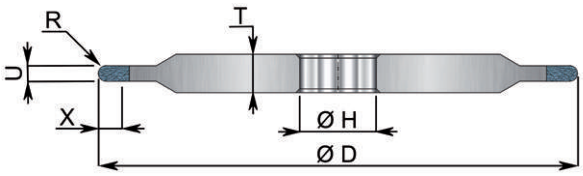
14F1

Macchina Businaro

Forma *Shape*	Ø D	U	X	R	Ø H	T
14F1	150	1,3	7	0,65	32	8
14F1	150	1,6	7	0,8	32	8
14F1	150	2	7	1	32	8
14F1	150	3	7	1,5	32	8
14F1	150	4	7	2	32	8

Macchina Loroch

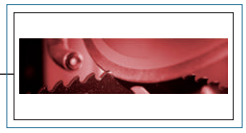
Forma *Shape*	Ø D	U	X	R	Ø H	T
14F1	200	1,3	7	0,65	32	8
14F1	200	1,6	7	0,8	32	8
14F1	200	2	7	1	32	8
14F1	200	3	7	1,5	32	8
14F1	200	4	7	2	32	8



AFFILATURA - COSTRUZIONE CNC / *AFFILATURA COSTRUZIONE CNC*

LAME CIRCOLARI HSS / *HSS SAW BLADE*

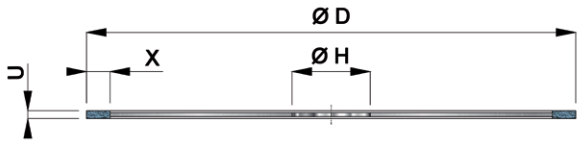
SHARP



1A1R

Dischi integrali per rompitruciolo

Forma *Shape*	Ø D	U	Ø H
1A1R	25	0,3	2/3
1A1R	30	0,3	6
1A1R	30	0,4	6



TERÄTOIMITUS

Tel. +358 (0)3 878 650

Terätoimitus Lehtinen Oy
Tupalankatu 9
15680 LAHTI
Finland

www.teratoimitus.fi