

CNC & MANUAL PROFILE GRINDING

**FAST ONE**  
**FAST FUSION**  
**MASTER EVO**



  
**said**

**FAST**ONE  
**FAST**FUSION  
**MASTER**EVO

## Comparazioni Comparison table

inch		mm	inch		mm
fraction	decimal frac.	mm	fraction	decimal frac.	mm
1/64"	0,0156"	0,3969	33/64"	0,5156"	13,0968
1/32"	0,0313"	0,7938	17/32"	0,5313"	13,4938
3/64"	0,0469"	1,1906	35/64"	0,5469"	13,8906
1/16"	0,0625"	1,5875	9/16"	0,5625"	14,2875
5/64"	0,0781"	1,9844	37/64"	0,5781"	14,6844
3/32"	0,0937"	2,3812	19/32"	0,5938"	15,0812
7/64"	0,1094"	2,7781	39/64"	0,6094"	15,4781
1/8"	0,1250"	3,175	5/8"	0,6250"	15,875
9/64"	0,1406"	3,5718	41/64"	0,6406"	16,2718
5/32"	0,1563"	3,9688	21/32"	0,6563"	16,6688
11/64"	0,1719"	4,3656	43/64"	0,6719"	17,0656
3/16"	0,1875"	4,7625	11/16"	0,6875"	17,4625
13/64"	0,2031"	5,1594	45/64"	0,7031"	17,8594
7/32"	0,2188"	5,5562	23/32"	0,7188"	18,2562
15/64"	0,2344"	5,9531	47/64"	0,7344"	18,6531
1/4"	0,2500"	6,35	3/4"	0,7500"	19,05
17/64"	0,2656"	6,7468	49/64"	0,7656"	19,4468
9/32"	0,2813"	7,1438	25/32"	0,7813"	19,8438
19/64"	0,2969"	7,5406	51/64"	0,7969"	20,2406
5/16"	0,3125"	7,9375	13/16"	0,8125"	20,6375
21/64"	0,3281"	8,3344	53/64"	0,8281"	21,0344
11/32"	0,3438"	8,7312	27/32"	0,8438"	21,4312
23/64"	0,3594"	9,1281	55/64"	0,8594"	21,8281
3/8"	0,3750"	9,525	7/8"	0,8750"	22,225
25/64"	0,3906"	9,9218	57/64"	0,8906"	22,6218
13/32"	0,4063"	10,3188	29/32"	0,9063"	23,0188
27/64"	0,4219"	10,7156	59/64"	0,9219"	23,4156
7/16"	0,4375"	11,1125	15/16"	0,9375"	23,8125
29/64"	0,4531"	11,5094	61/64"	0,9531"	24,2094
15/32"	0,4688"	11,9062	31/32"	0,9688"	24,6062
31/64"	0,4844"	12,3031	63/64"	0,9844"	25,0031
1/2"	0,5000"	12,7	1"	1,0000"	25,4

<b>B - B1</b>	<b>PCS</b>	<b>SFM</b>
Diamond	16 m/sec	290
CBN	28m/sec	500

Usato in operazioni di forte asportazione con un buon compromesso di taglienza e durata.

Used in operation requiring strong removal of material in which are the same importance cutting capacity and duration.

Wird beim Arbeiten mit starkem Abtrag verwendet, eine Verbindung von Schnittschärfe und Lebensdauer.

<b>R</b>	<b>PCS</b>	<b>SFM</b>
Diamond	20-25 m/sec	360-450
CBN	30 m/sec	550

Usato in operazioni di massima precisione dove la quantità di materiale asportato non è elevata e il mantenimento del profilo della mola è privilegiato.

Used in operation requiring maximum precision in which the quantity of removed material is not elevated and it's important the preservation of the wheel profile.

Wird bei Arbeiten mit hoher Präzision verwendet, bei denen die abgetragene Materialmenge nicht besonders groß und die Beibehaltung des Schleifscheibenprofils von Bedeutung ist.

<b>R1</b>	<b>PCS</b>	<b>SFM</b>
Diamond	35 m/sec	640
CBN	30 m/sec	550

Usato in operazioni di finitura e ritocco dove il mantenimento del profilo della mola e la rugosità ottenuta sul pezzo sono fondamentali.

Used in finishing and retouching operations in which preservation of the wheel profile and the roughness obtained on the piece are fundamental.

Wird bei der Fertig und Nachbearbeitung eingesetzt, bei der die Beibehaltung des Schleifscheibenprofils und die auf dem Werkstück erzielte Rauheit grundlegend sind.

## INTERNATIONAL GRITS

FEPA STANDARD		US STANDARD	ISO 6106
DIAMOND CBN		ASTM - E -14 - 70 ENG-SERRÉ-NARROW	DIN 34 E/1/1980
D 1181	B 1181	16	1180 - 1000
D 1001	B 1001	18	1000 - 850
D 851	B 851	24	850 - 710
D 711	B 711	30	710 - 600
D 601	B 601	36	600 - 500
D 501	B 501	40	500 - 425
D 426	B 426	46	425 - 355
D 356	B 356	50	355 - 300
D 301	B 301	60	300 - 250
D 251	B 251	70	250 - 212
D 213	B 213	80	212 - 180
D 181	B 181	100	180 - 150
D 151	B 151	120	150 - 125
D 126	B 126	150	125 - 106
D 107	B 107	180	106 - 90
D 91	B 91	220	90 - 75
D 76	B 76	240	75 - 63
D 64	B 64	280	63 - 53
D 54	B 54	320	53 - 45
D 46	B 46	400	45 - 38

## MICRO GRANE - MICROGRITS - MIKROSTRUKTUREN

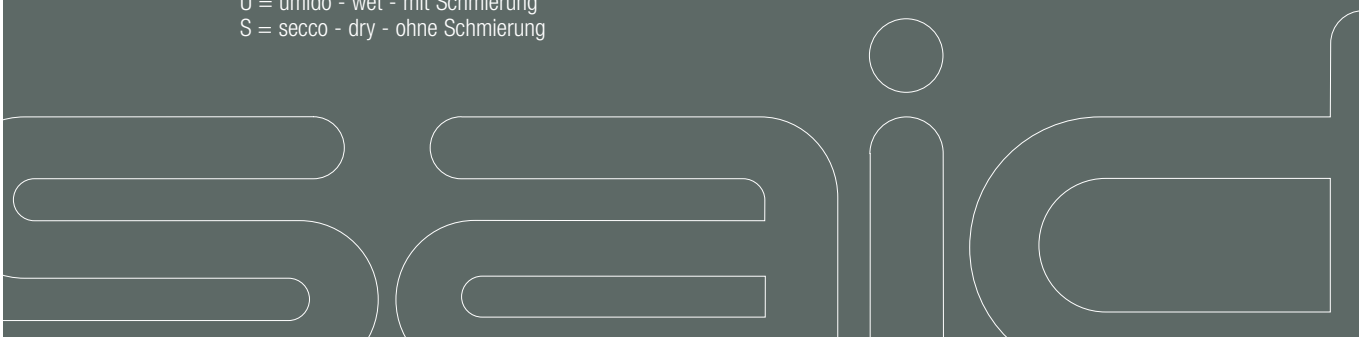
D 39			
D 33		800	
D 27			30 - 40
D 25	B 25		20 - 40
D 20		1200	15 - 30
D 15	B 15	1300	10 - 20
D 12			8 - 16
D 9		1400	6 - 12
D 7		1500	4 - 8
D 3		2000	

## PERCENTUALI DI CONCENTRAZIONE - CONCENTRATION PERCENTAGES - PROZENTSÄTZE KONZENTRATION

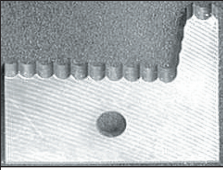
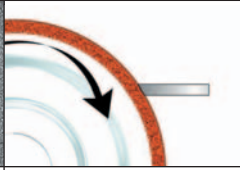
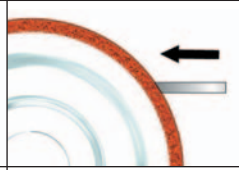
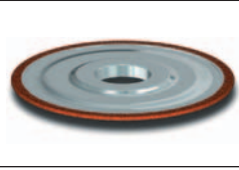
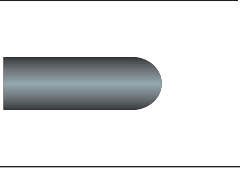
C = 50  
C = 75  
C = 100  
C = 125  
C = 135  
C = 150

## Lubrificazione - Lubrification - Schmierung

OIL = OLIO - OIL - mit OIL  
U = umido - wet - mit Schmierung  
S = secco - dry - ohne Schmierung



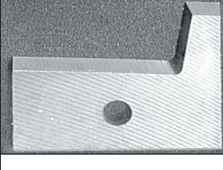
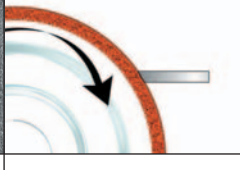
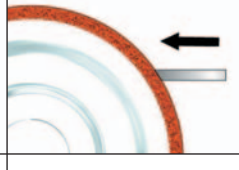
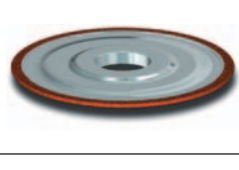
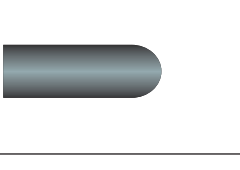
## COME SI USANO | INSTRUCTION FOR USE | BEDIENUNGSANLEITUNG

FASE APPLICATION	VELOCITÀ DI TAGLIO PCS - SFM	AVANZAMENTO FEED RATE	MOLA IMPIEGATA KIND OF WHEEL	MORFOLOGIA FASCIA SHAPE
<b>Sgrossatura a tuffo</b> <b>Roughing</b>	<b>16 mt/sec</b> <b>290 SFM</b>	<b>100-140 mm/min</b> <b>4 - 6 inch/min.</b>	<b>14F1 200x3x7 FAST ONE B1</b> <b>C125 D126/150</b>	<b>Raggio totale</b> <b>Total radius</b>
				

Si consiglia di diminuire l'avanzamento se dopo la fase di prefinitura si notano delle scheggiature residue sul filo tagliente. L'avanzamento è condizionato dal tipo di materiale lavorato, dal tipo di macchina utilizzata e dalla pressione del refrigerante.

Decrease the feed if after the pre-finishing phase there are residual splittings on the feather-edge. The feed is conditioned by the kind of material, the utilized machine and by the cooling-pressure.

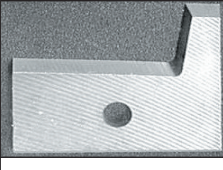
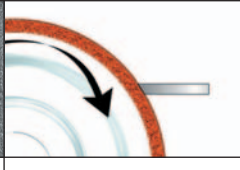
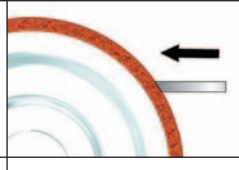

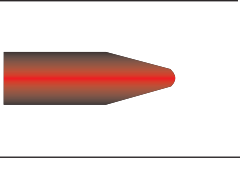
Es wird empfohlen, den Vorschub zu reduzieren, wenn nach dem Vorschlichten auf der Schneidkante Ausbrüche erkennbar sind. Der Vorschub hängt vom bearbeiteten Material, von der eingesetzten Maschine und dem Druck des Kühlmittels ab.

<b>Prefinitura</b> <b>Prefinishing</b>	<b>16 mt/sec</b> <b>290 SFM</b>	<b>150 mm/min</b> <b>7 inch/min.</b>	<b>14F1 200x3x7 FAST ONE B1</b> <b>C125 D126/150</b>	<b>Raggio totale</b> <b>Total radius</b>
				

Nella fase di prefinitura una velocità d'avanzamento troppo elevata condiziona pesantemente la durata della mola. Si consiglia di non superare i 150 mm/min.

In the pre-finishing phase the too elevated feed speed hardly conditions the life of the wheel. It's useful not exceed the 150mm/min (FEED RATE).

In der Fase des Vorschlichtens geht ein zu hoher Vorschub deutlich zu Lasten der Standzeit der Schleifscheibe. Es wird empfohlen, 150 mm/min nicht zu überschreiten.

<b>Finitura</b> <b>Finishing</b>	<b>35 mt/sec</b> <b>640 SFM</b>	<b>110 mm/min</b> <b>4 inch/min.</b>	<b>14EF1 200x2x7 FAST ONE R1</b> <b>C125 D46/400</b>	<b>V = 17° R = 0,4</b>
				

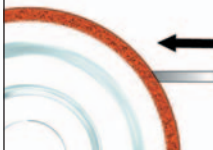
Si può ottenere una buona finitura solo se la mola è perfettamente centrata sul mandrino e se i parametri nelle fasi precedenti vengono rispettati.

To have a good finishing the wheel must be trued on the spindle and the parameters in the previous phases must be respected.

Eine hohe Oberflächengüte erzielt man nur durch perfekte Zentrierung der Schleifscheibe auf der Aufnahmspindel und bei Beachtung der Parameter in den vorangehenden Fasen.

# FAST FUSION



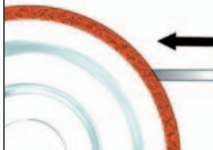
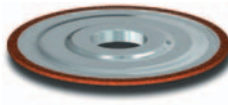

## COME SI USANO | INSTRUCTION FOR USE | BEDIENUNGSANLEITUNG

FASE APPLICATION	VELOCITÀ DI TAGLIO PCS - SFM	AVANZAMENTO FEED RATE	MOLA IMPIEGATA KIND OF WHEEL	MORFOLOGIA FASCIA SHAPE
<b>Sgrossatura a tuffo</b> <b>Roughing</b>	<b>18 mt/sec</b> <b>320 SFM</b>	<b>90 mm/min</b> <b>3 - 4 inch/min.</b>	<b>14F1 200x4x7 FAST FUSION</b> <b>B C125 D181</b>	<b>Raggio totale</b> <b>Total radius</b>
				

Si consiglia di diminuire l'avanzamento se dopo la fase di prefinitura si notano delle scheggiature residue sul filo tagliente. L'avanzamento è condizionato dal tipo di materiale lavorato, dal tipo di macchina utilizzata e dalla pressione del refrigerante.

Decrease the feed if after the pre-finishing phase there are residual spillings on the feather-edge. The feed is conditioned by the kind of material, the utilized machine and by the cooling-pressure.



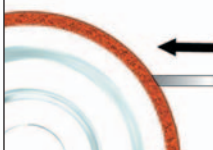


Es wird empfohlen, den Vorschub zu reduzieren, wenn nach dem Vorschlichten auf der Schneidkante Ausbrüche erkennbar sind. Der Vorschub hängt vom bearbeiteten Material, von der eingesetzten Maschine und dem Druck des Kühlmittels ab.

<b>Prefinitura</b> <b>Prefinishing</b>	<b>18 mt/sec</b> <b>320 SFM</b>	<b>80 mm/min</b> <b>3 inch/min.</b>	<b>14F1 200x4x7 FAST FUSION</b> <b>B C125 D181</b>	<b>Raggio totale</b> <b>Total radius</b>
				

Nella fase di prefinitura una velocità d'avanzamento troppo elevata condiziona pesantemente la durata della mola. Si consiglia di non superare i 150 mm/min.

In the pre-finishing phase the too elevated feed speed hardly conditions the life of the wheel. It's useful not exceed the 150mm/min (FEED RATE).

In der Fase des Vorschlichtens geht ein zu hoher Vorschub deutlich zu Lasten der Standzeit der Schleifscheibe. Es wird empfohlen, 150 mm/min nicht zu überschreiten.

<b>Finitura</b> <b>Finishing</b>	<b>30 mt/sec</b> <b>550 SFM</b>	<b>110 mm/min</b> <b>4 inch/min.</b>	<b>14EF1 200x1,5x7 FAST FUSION R 1 C125 D 64</b>	<b>Raggio totale</b> <b>Total radius</b>
				

Si può ottenere una buona finitura solo se la mola è perfettamente centrata sul mandrino e se i parametri nelle fasi precedenti vengono rispettati.

To have a good finishing the wheel must be trued on the spindle and the parameters in the previous phases must be respected.

Eine hohe Oberflächengüte erzielt man nur durch perfekte Zentrierung der Schleifscheibe auf der Aufnahmspindel und bei Beachtung der Parameter in den vorangehenden Fasen.

## Diamante

## Diamond

Le velocità ideali sono comprese tra 15 e 30 m al secondo.  
 Ideal speeds are between 15 and 30 m per second.  
 Die idealen geschwindigkeiten legen zwischen 15 und 30 m inder sekunde.

## CBN (Borazon)

Le velocità ideali sono comprese tra 25 e 45 m al secondo.  
 Ideal speeds are between 25 and 45 m per second.  
 Die idealen geschwindigkeiten legen zwischen 25 und 45 m inder sekunde.

Ø mm	10 m/s	15 m/s	20 m/s	25 m/s	30 m/s	35 m/s	40 m/s	45 m/s	50 m/s
5									
10	19.000								
15	12.600	19.100							
20	9.500	14.300	19.100						
25	7.600	11.500	15.300	19.100					
30	6.300	9.500	12.700	15.900	19.000				
40	4.800	7.200	9.600	11.900	14.300	16.700	19.100	21.500	23.900
50	3.800	5.700	7.600	9.500	11.400	13.400	15.300	17.000	19.000
75	2.500	3.800	5.100	6.400	7.700	9.000	10.200	11.500	12.800
100	1.900	2.900	3.800	4.800	5.700	6.700	7.600	8.500	9.500
125	1.500	2.300	3.000	3.800	4.600	5.300	6.100	6.900	7.650
150	1.260	1.900	2.500	3.200	3.800	4.500	5.100	5.700	6.350
175	1.080	1.600	2.200	2.700	3.300	3.800	4.400	4.900	5.450
200	950	1.400	1.900	2.400	2.900	3.400	3.800	4.300	4.800
250	750	1.150	1.500	1.900	2.300	2.700	3.100	3.400	3.800
300	640	950	1.300	1.600	1.900	2.200	2.500	2.900	3.200
350	545	820	1.100	1.400	1.600	1.900	2.200	2.500	2.700
400	480	725	960	1.200	1.450	1.700	1.900	2.150	2.400
450	425	650	850	1.100	1.300	1.500	1.700	1.900	2.100
500	385	500	750	950	1.150	1.300	1.500	1.700	1.900

● Diamante / Diamond

● CBN (Borazon)

I fori di tutti gli utensili dovranno essere specificati nell'ordine. Per tutte le misure (diametro, spessore, inclinazione, ecc.) non presenti nel listino, SAID è a vostra disposizione per qualsiasi informazione sulle possibilità di realizzazioni personalizzate e sui prezzi di vendita.

The bore of all tools must be specified in the order. For all the dimensions (diameter, thickness, inclination, etc.) which are not present in the price list, SAID is at your disposal for any further information about the possibility of personalized solutions and pricing.

Die Löcher aller Werkzeuge müssen in der Bestellung angegeben werden. Für alle nicht im Verzeichnis aufgeführten Maße (Durchmesser, Stärke, Neigung usw.) steht Ihnen SAID gern für sämtliche Informationen in bezug auf Sonderanfertigungen und deren Verkaufspreise zur Verfügung.

**FAST ONE**      Profilatura con macchine CNC | Profiling with CNC machines

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14EF1/20°	pag.	10-11

**FAST FUSION**      Profilatura con macchine CNC | Profiling with CNC machines

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**PROFILATRICI AUTOMATICHE | CNC PROFILING MACHINES**

**MACCHINE SCHNEEBERGER**      Profilatura con CNC

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PPI	pag.	14
GEMINI - NORMA	pag.	15

**MACCHINE TIGRA**

3000	pag.	16
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**MACCHINE WALTER**

MINI - REGRINDER - PRODUCTION - VISION	pag.	17
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**MASTER EVO**      Profilatura con macchine manuali | Profiling with manual machines

14F1	pag.	18
1F1R	pag.	19

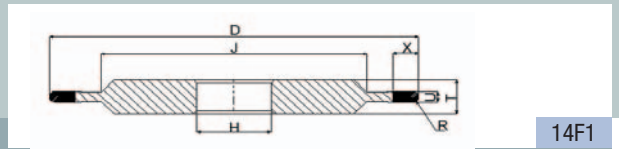
**MATERIALI E CARATTERISTICHE | MATERIAL USED**

Supporto mola (corpo) | Body of wheels      Acciaio integrale / Steel

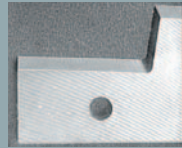
Legante | Bond      Resinoide (poliammide) / Resin - Polyamid



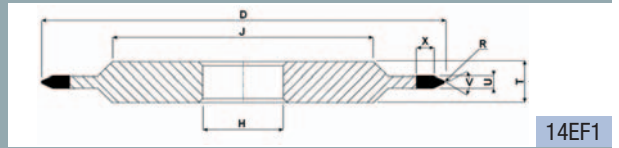
# FAST ONE FOR KNIVES (CARBIDE) PROFILING



14F1



COLTELLINI HM / CARBIDE KNIVES



14EF1

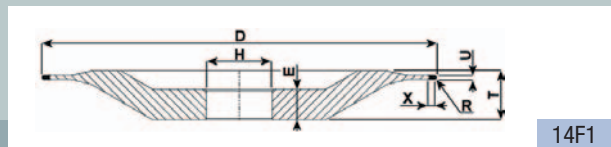
Ø 175 / 7"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
212 1 1 051 1100	D14F1	1	0,0394"	7	0,275"	0,5	-0,019"	8	-0,31"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 1130	D14F1	1,3	0,0512"	7	0,275"	0,65	-0,025"	8	-0,31"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 1150	D14F1	1,5	0,0591"	7	0,275"	0,75	-0,029"	8	-0,31"	125	46-64	400-280	R 1	Emul/oil
212 1 1 163 1220	D14EF1	2	0,0787"	7	0,275"	0,2	-0,007"	8	-0,31"	125	46-64	400-280	R 1	Emul/oil
212 1 1 163 1240	D14EF1	2	0,0787"	7	0,275"	0,4	-0,015"	8	-0,31"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 1200	D14F1	2	0,0787"	7	0,275"	1	-0,039"	8	-0,31"	125	126-64	150-280	B 1-R 1	Emul/oil
212 1 1 051 1300	D14F1	3	0,1181"	7	0,275"	1,5	-0,059"	8	-0,31"	125	126	150	B 1	Emul/oil
212 1 1 051 1400	D14F1	4	0,1575"	7	0,275"	2	-0,078"	8	-0,31"	125	126	150	B 1	Emul/oil
212 1 1 051 1500	D14F1	5	0,1969"	7	0,275"	2,5	-0,098"	8	-0,31"	125	126	150	B 1	Emul/oil
212 1 1 051 1600	D14F1	6	0,2362"	7	0,275"	3	-0,118"	8	-0,31"	125	126	150	B 1	Emul/oil

Ø 200 / 8"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
212 1 1 051 2100	D14F1	1	0,0394"	7	0,275"	0,5	-0,019"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 2130	D14F1	1,3	0,0512"	7	0,275"	0,65	-0,025"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 2150	D14F1	1,5	0,0591"	7	0,275"	0,75	-0,029"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 163 2220	D14EF1	2	0,0787"	7	0,275"	0,2	-0,007"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 163 2240	D14EF1	2	0,0787"	7	0,275"	0,4	-0,015"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 2200	D14F1	2	0,0787"	7	0,275"	1	-0,039"	12	-0,47"	125	126-64	150-280	B 1-R 1	Emul/oil
212 1 1 051 2300	D14F1	3	0,1181"	7	0,275"	1,5	-0,059"	12	-0,47"	125	126	150	B 1	Emul/oil
212 1 1 051 2400	D14F1	4	0,1575"	7	0,275"	2	-0,078"	12	-0,47"	125	126	150	B 1	Emul/oil
212 1 1 051 2500	D14F1	5	0,1969"	7	0,275"	2,5	-0,098"	12	-0,47"	125	126	150	B 1	Emul/oil
212 1 1 051 2600	D14F1	6	0,2362"	7	0,275"	3	-0,118"	12	-0,47"	125	126	150	B 1	Emul/oil

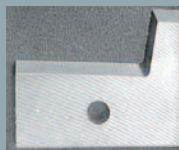
Ø 225 / 9"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
212 1 1 051 3130	D14F1	1,3	0,0512"	7	0,275"	0,65	-0,025"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 3150	D14F1	1,5	0,0591"	7	0,275"	0,75	-0,029"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 163 3240	D14EF1	2	0,0787"	7	0,275"	0,4	-0,015"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 3200	D14F1	2	0,0787"	7	0,275"	1	-0,039"	12	-0,47"	125	126-64	150-280	B 1-R 1	Emul/oil
212 1 1 051 3300	D14F1	3	0,1181"	7	0,275"	1,5	-0,059"	12	-0,47"	125	126	150	B 1	Emul/oil
212 1 1 051 3400	D14F1	4	0,1575"	7	0,275"	2	-0,078"	12	-0,47"	125	126	150	B 1	Emul/oil
212 1 1 051 3500	D14F1	5	0,1969"	7	0,275"	2,5	-0,098"	12	-0,47"	125	126	150	B 1	Emul/oil
212 1 1 051 3600	D14F1	6	0,2362"	7	0,275"	3	-0,118"	12	-0,47"	125	126	150	B 1	Emul/oil

Ø 250 / 10"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
212 1 1 051 4150	D14F1	1,5	0,0591"	7	0,275"	0,75	-0,029"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 163 4220	D14EF1	2	0,0787"	7	0,275"	0,2	-0,007"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 163 4240	D14EF1	2	0,0787"	7	0,275"	0,4	-0,015"	12	-0,47"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 4200	D14F1	2	0,0787"	7	0,275"	1	-0,039"	12	-0,47"	125	126-64	150-280	B 1-R 1	Emul/oil
212 1 1 051 4300	D14F1	3	0,1181"	7	0,275"	1,5	-0,059"	12	-0,47"	125	126	150	B 1	Emul/oil
212 1 1 051 4400	D14F1	4	0,1575"	7	0,275"	2	-0,078"	12	-0,47"	125	126	150	B 1	Emul/oil
212 1 1 051 4500	D14F1	5	0,1969"	7	0,275"	2,5	-0,098"	12	-0,47"	125	126	150	B 1	Emul/oil
212 1 1 051 4600	D14F1	6	0,2362"	7	0,275"	3	-0,118"	12	-0,47"	125	126	150	B 1	Emul/oil

# FAST ONE FOR KNIVES (CARBIDE) PROFILING



14F1



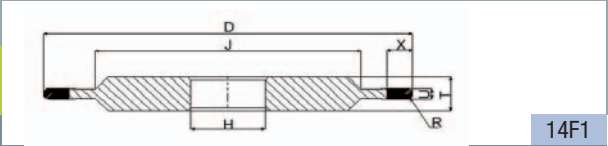
COLTELLINI HM / CARBIDE KNIVES

## SPECIAL PPI

Ø 300 / 12"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
212 1 1 163 5220	D14EF1	2	0,0787"	7	0,275"	0,2	-0,007"	37	-1,45"	125	46-64	400-280	R 1	Emul/oil
212 1 1 163 5240	D14EF1	2	0,0787"	7	0,275"	0,4	-0,015"	37	-1,45"	125	46-64	400-280	R 1	Emul/oil
212 1 1 051 5200	D14F1	2	0,0787"	7	0,275"	1	-0,039"	37	-1,45"	125	64	280	R 1	Emul/oil
212 1 1 051 5300	D14F1	3	0,1181"	7	0,275"	1,5	-0,059"	37	-1,45"	125	126	150	B 1	Emul/oil
212 1 1 051 5400	D14F1	4	0,1575"	7	0,275"	2	-0,078"	37	-1,45"	125	126	150	B 1	Emul/oil

Ø 300 / 12"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
212 2 1 163 5220	D14EF1	2	0,0787"	7	0,275"	0,2	-0,007"	37	-1,45"	125	15	1300	metal	Emul/oil

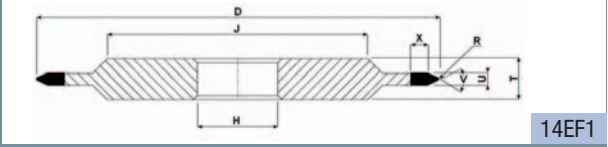
# FAST FUSION CARBIDE CUTTERS PROFILING



14F1



COLTELLINI HM / CARBIDE KNIVES



14EF1

Ø 175 / 7"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
224 1 1 051 1130	D14F1	1,3	0,0512"	7	0,275"	0,65	-0,025"	8	-0,31"	125	64	280	R 1	Emul/oil
224 1 1 051 1150	D14F1	1,5	0,0591"	7	0,275"	0,75	-0,029"	8	-0,31"	125	64	280	R 1	Emul/oil
224 1 1 163 1220	D14EF1	2	0,0787"	7	0,275"	0,2	-0,007"	8	-0,31"	125	46	400	R 1	Emul/oil
224 1 1 163 1240	D14EF1	2	0,0787"	7	0,275"	0,4	-0,015"	8	-0,31"	125	46	400	R 1	Emul/oil
224 1 1 051 1200	D14F1	2	0,0787"	7	0,275"	1	-0,039"	8	-0,31"	125	64	280	R 1	Emul/oil
224 1 1 051 1300	D14F1	3	0,1181"	7	0,275"	1,5	-0,059"	8	-0,31"	125	181	100	B	Emul/oil
224 1 1 051 1400	D14F1	4	0,1575"	7	0,275"	2	-0,078"	8	-0,31"	125	181	100	B	Emul/oil
224 1 1 051 1500	D14F1	5	0,1969"	7	0,275"	2,5	-0,098"	8	-0,31"	125	181	100	B	Emul/oil
224 1 1 051 1600	D14F1	6	0,2362"	7	0,275"	3	-0,118"	8	-0,31"	125	181	100	B	Emul/oil

Ø 200 / 8"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
224 1 1 051 2130	D14F1	1,3	0,0512"	7	0,275"	0,65	-0,025"	12	-0,47"	125	64	280	R 1	Emul/oil
224 1 1 051 2150	D14F1	1,5	0,0591"	7	0,275"	0,75	-0,029"	12	-0,47"	125	64	280	R 1	Emul/oil
224 1 1 163 2220	D14EF1	2	0,0787"	7	0,275"	0,2	-0,007"	12	-0,47"	125	46	400	R 1	Emul/oil
224 1 1 163 2240	D14EF1	2	0,0787"	7	0,275"	0,4	-0,015"	12	-0,47"	125	46	400	R 1	Emul/oil
224 1 1 051 2200	D14F1	2	0,0787"	7	0,275"	1	-0,039"	12	-0,47"	125	64	280	R 1	Emul/oil
224 1 1 051 2300	D14F1	3	0,1181"	7	0,275"	1,5	-0,059"	12	-0,47"	125	181	100	B	Emul/oil
224 1 1 051 2400	D14F1	4	0,1575"	7	0,275"	2	-0,078"	12	-0,47"	125	181	100	B	Emul/oil
224 1 1 051 2500	D14F1	5	0,1969"	7	0,275"	2,5	-0,098"	12	-0,47"	125	181	100	B	Emul/oil
224 1 1 051 2600	D14F1	6	0,2362"	7	0,275"	3	-0,118"	12	-0,47"	125	181	100	B	Emul/oil

Ø 225 / 9"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
224 1 1 051 3120	D14F1	1,2	0,0472"	7	0,275"	0,6	-0,023"	12	-0,47"	125	64	280	R 1	Emul/oil
224 1 1 051 3130	D14F1	1,3	0,0512"	7	0,275"	0,65	-0,025"	12	-0,47"	125	64	280	R 1	Emul/oil
224 1 1 051 3150	D14F1	1,5	0,0591"	7	0,275"	0,75	-0,029"	12	-0,47"	125	64	280	R 1	Emul/oil
224 1 1 163 3240	D14EF1	2	0,0787"	7	0,275"	0,4	-0,015"	12	-0,47"	125	46	400	R 1	Emul/oil
224 1 1 051 3200	D14F1	2	0,0787"	7	0,275"	1	-0,039"	12	-0,47"	125	64	280	R 1	Emul/oil
224 1 1 051 3300	D14F1	3	0,1181"	7	0,275"	1,5	-0,059"	12	-0,47"	125	181	100	B	Emul/oil
224 1 1 051 3400	D14F1	4	0,1575"	7	0,275"	2	-0,078"	12	-0,47"	125	181	100	B	Emul/oil
224 1 1 051 3500	D14F1	5	0,1969"	7	0,275"	2,5	-0,098"	12	-0,47"	125	181	100	B	Emul/oil
224 1 1 051 3600	D14F1	6	0,2362"	7	0,275"	3	-0,118"	12	-0,47"	125	181	100	B	Emul/oil

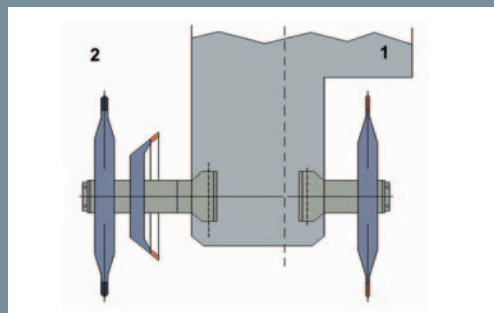
Ø 250 / 10"		U		X		R		T		FEPA		ASTM		
ITEM NUMBER	FORM	mm	inch	mm	inch	mm	inch	mm	inch	CONC.	GRITS	GRITS	BOND	COOLANT
224 1 1 051 4150	D14F1	1,5	0,0591"	7	0,275"	0,75	-0,029"	12	-0,47"	125	64	280	R 1	Emul/oil
224 1 1 163 4220	D14EF1	2	0,0787"	7	0,275"	0,2	-0,007"	12	-0,47"	125	46	400	R 1	Emul/oil
224 1 1 163 4240	D14EF1	2	0,0787"	7	0,275"	0,4	-0,015"	12	-0,47"	125	46	400	R 1	Emul/oil
224 1 1 051 4200	D14F1	2	0,0787"	7	0,275"	1	-0,039"	12	-0,47"	125	64	280	R 1	Emul/oil
224 1 1 051 4300	D14F1	3	0,1181"	7	0,275"	1,5	-0,059"	12	-0,47"	125	181	100	B	Emul/oil
224 1 1 051 4400	D14F1	4	0,1575"	7	0,275"	2	-0,078"	12	-0,47"	125	181	100	B	Emul/oil
224 1 1 051 4500	D14F1	5	0,1969"	7	0,275"	2,5	-0,098"	12	-0,47"	125	181	100	B	Emul/oil
224 1 1 051 4600	D14F1	6	0,2362"	7	0,275"	3	-0,118"	12	-0,47"	125	181	100	B	Emul/oil

# SCHNEEBERGER SIRIUS



FRESE HM / CARBIDE CUTTER

COLTELLINI HM / CARBIDE KNIVES



FAST ONE		COD. ART. / ITEM	Ø 200 / 8"		14F1		BORE	BOND R1	BOND B1	PCS	SFM
POS.	OPERATIONS	DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
2	sgrossatura/roughing	212 1 1 051 2400	4 5/32"	7 9/32"	2	12 1/2"	50		126/150	16	290
2	sgrossatura/roughing	212 1 1 051 2300	3 1/8"	7 9/32"	1,5	12 1/2"	50		126/150	16	290

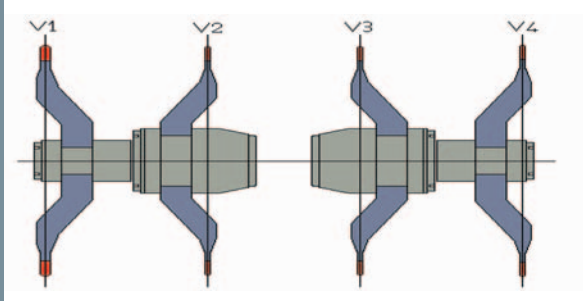
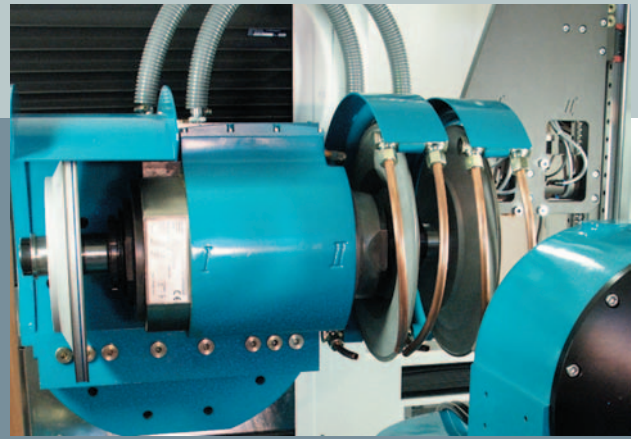
FAST ONE		COD. ART. / ITEM	Ø 200 / 8"		14EF1-20°		BORE	BOND R1	BOND B1	PCS	SFM
POS.	OPERATIONS	DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
1	finitura/finishing	212 1 1 163 2240	2 5/64"	7 9/32"	0,4	12 1/2"	50	46/400	64/280	35	640
1	finitura/finishing	212 1 1 163 2220	2 5/64"	7 9/32"	0,2	12 1/2"	50	46/400	64/280	35	640

FAST FUSION		COD. ART. / ITEM	Ø 200 / 8"		14F1		BORE	BOND B	BOND R1	PCS	SFM
POS.	OPERATIONS	DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
2	sgrossatura/roughing	224 1 1 051 2400	4 5/32"	7 9/32"	2	12 1/2"	50	181/100		16	290
2	sgrossatura/roughing	224 1 1 051 2300	3 1/8"	7 9/32"	1,5	12 1/2"	50	181/100		16	290
1	finitura/finishing	224 1 1 051 2150	1,5 1/16"	7 9/32"	0,75	12 1/2"	50		64/280	25	450

PLUS EVO		COD. ART. / ITEM	Ø 125 / 5"		12V9-45°		BORE	BOND R	PCS	SFM
POS.	OPERATIONS	DIAMOND	U	X	E	T	mm	GRIT	M/SEC	USA
2	INTERNO - FACE	201 1 1 008 1600	2 5/64"	10 3/8"	12 1/2"	22 55/64"	20	91/220	20/25	360/450

PLUS EVO		COD. ART. / ITEM	Ø 150 / 6"		12V9-45°		BORE	BOND B	PCS	SFM
POS.	OPERATIONS	DIAMOND	U	X	E	T	mm	GRIT	M/SEC	USA
2	INTERNO - FACE	201 1 1 008 2000	2 5/64"	10 3/8"	12 1/2"	22 55/64"	20	91/220	20/25	360/450

# SCHNEEBERGER PPI



COLTELLINI HM / CARBIDE KNIVES

FAST ONE		COD. ART. / ITEM	Ø 300 / 12" 14F1				BORE	BOND B1	BOND R1	PCS	SFM
POS. OPERATIONS		DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
V1	sgrossatura/roughing	212 1 1 051 5300	3 1/8"	7 9/32"	1,5	37 1 1/2"	30-50	126/150		16	290
V4	prefinitura/prefinishing	212 1 1 051 5200	2 5/64"	7 9/32"	1	37 1 1/2"	30-50		64/280	16	290

FAST ONE		COD. ART. / ITEM	Ø 300 / 12" 14EF1-20°				BORE	BOND B1	BOND R1	PCS	SFM
POS. OPERATIONS		DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
V2	finitura/finishing	212 1 1 163 5240	2 5/64"	7 9/32"	0,4	37 1 1/2"	50		46/400	35	640
V3	lappatura/lapping	212 1 1 163 5220	2 5/64"	7 9/32"	0,2	37 1 1/2"	50		46/400	35	640
V3	lappatura/lapping	212 2 1 163 5220	2 5/64"	7 9/32"	0,2	37 1 1/2"	50	metal	15/1300	35	640

# SCHNEEBERGER GEMINI - NORMA

GEMINI



FRESE HM  
CARBIDE CUTTER



COLTELLINI HM  
CARBIDE KNIVES

FAST ONE		COD. ART. / ITEM	Ø 200 / 8"		14EF1-20°		BORE	BOND B1	BOND R1	PCS	SFM
POS. OPERATIONS		DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
2	sgrossatura/roughing	212 1 1 051 2400	4 5/32"	7 9/32"	2	12 1/2"	50	126/150		16	290
2	sgrossatura/roughing	212 1 1 051 2300	3 1/8"	7 9/32"	1,5	12 1/2"	50	126/150		16	290

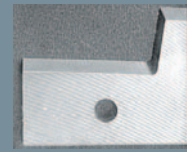
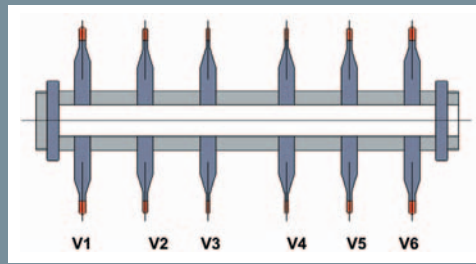
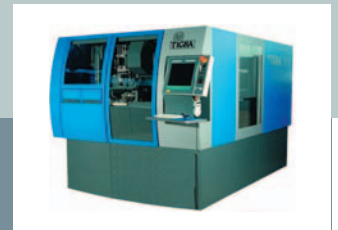
FAST ONE		COD. ART. / ITEM	Ø 200 / 8"		14EF1-20°		BORE	BOND B1	BOND R1	PCS	SFM
POS. OPERATIONS		DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
1	finitura/finishing	212 1 1 163 2240	2 5/64"	7 9/32"	0,4	12 1/2"	50		46/400	35	640
1	finitura/finishing	212 1 1 163 2220	2 5/64"	7 9/32"	0,2	12 1/2"	50		46/400	35	640

FAST FUSION		COD. ART. / ITEM	Ø 200 / 8"		14F1		BORE	BOND B	BOND R1	PCS	SFM
POS. OPERATIONS		DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
2	sgrossatura/roughing	224 1 1 051 2400	4 5/32"	7 9/32"	2	12 1/2"	50	181/100		16	290
2	sgrossatura/roughing	224 1 1 051 2300	3 1/8"	7 9/32"	1,5	12 1/2"	50	181/100		16	290
1	finitura/finishing	224 1 1 051 2150	1,5 1/16"	7 9/32"	0,75	12 1/2"	50		64/280	25	450

PLUS EVO		COD. ART. / ITEM	Ø 125 / 5"		12V9-45°		BORE	BOND R	PCS	SFM
POS. OPERATIONS		DIAMOND	U	X	E	T	mm	GRIT	M/SEC	USA
2	INTERNO - FACE	201 1 1 008 1600	2 5/64"	10 3/8"	12 1/2"	22 55/64"	20	91/220	20/25	360/450

PLUS EVO		COD. ART. / ITEM	Ø 150 / 6"		12V9-45°		BORE	BOND B	PCS	SFM
POS. OPERATIONS		DIAMOND	U	X	E	T	mm	GRIT	M/SEC	USA
2	INTERNO - FACE	201 1 1 008 2000	2 5/64"	10 3/8"	12 1/2"	22 55/64"	20	91/220	20/25	360/450

# TIGRA 3000



COLTELLINI HM / CARBIDE KNIVES

FAST ONE		COD. ART. / ITEM	Ø 200 / 8"		14F1		BORE				PCS	SFM
POS.	OPERATIONS		DIAMOND	U	X	R	T	mm	GRIT	GRIT	BOND	M/SEC
V1	sgrossatura/roughing	212 1 1 051 2300	3 1/8"	7 9/32"	1,5	12 1/2"	60	126/150		B1	16	290
V2	prefinitura/prefinishing	212 1 1 051 2200	2 5/64"	7 9/32"	1	12 1/2"	60	64/280		R1	16	290
V3	finitura/finishing	212 1 1 051 2150	1,5 1/16"	7 9/32"	0,75	12 1/2"	60		46/400	R1	35	640
V3	finitura/finishing	212 1 1 051 2100	1,0 3/64"	7 9/32"	0,5	12 1/2"	60		46/400	R1	35	640
V4	finitura/finishing	212 1 1 051 2100	1,0 3/64"	7 9/32"	0,5	12 1/2"	60		46/400	R1	35	640
V4	finitura/finishing	212 1 1 051 2150	1,5 1/16"	7 9/32"	0,75	12 1/2"	60		46/400	R1	35	640
V5	prefinitura/prefinishing	212 1 1 051 2200	2 5/64"	7 9/32"	1	12 1/2"	60	64/280		R1	16	290
V6	sgrossatura/roughing	212 1 1 051 2300	3 1/8"	7 9/32"	1,5	12 1/2"	60	126/150		B1	16	290

# WALTER MINI-REGRINDER-PRODUCTION-VISION



FRESE HM / CARBIDE CUTTER



COLTELLINI HM / CARBIDE KNIVES



FAST ONE		COD. ART. / ITEM	Ø 200 / 8"		14F1		BORE	BOND B1	PCS	SFM	
POS.	OPERATIONS	DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
2	sgrossatura/roughing	212 1 1 051 2400	4 5/32"	7 9/32"	2	12 1/2"	20	126/150		16	290
2	sgrossatura/roughing	212 1 1 051 2300	3 1/8"	7 9/32"	1,5	12 1/2"	20	126/150		16	290

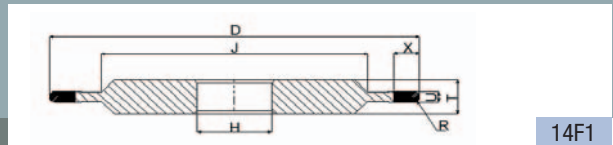
FAST ONE		COD. ART. / ITEM	Ø 200 / 8"		14EF1-20°		BORE	BOND R1	PCS	SFM	
POS.	OPERATIONS	DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
1	finitura/finishing	212 1 1 163 2240	2 5/64"	7 9/32"	0,4	12 1/2"	20		46/400	35	640
1	finitura/finishing	212 1 1 163 2220	2 5/64"	7 9/32"	0,2	12 1/2"	20		46/400	35	640

FAST FUSION		COD. ART. / ITEM	Ø 200 / 8"		14F1		BORE	BOND B	BOND R1	PCS	SFM
POS.	OPERATIONS	DIAMOND	U	X	R	T	mm	GRIT	GRIT	M/SEC	USA
2	sgrossatura/roughing	224 1 1 051 2400	4 5/32"	7 9/32"	2	12 1/2"	20	181/100		16	290
2	sgrossatura/roughing	224 1 1 051 2300	3 1/8"	7 9/32"	1,5	12 1/2"	20	181/100		16	290
1	finitura/finishing	224 1 1 051 2150	1,5 1/16"	7 9/32"	0,75	12 1/2"	20		64/280	25	450

PLUS EVO		COD. ART. / ITEM	Ø 125 / 5"		12V9-45°		BORE	BOND R	PCS	SFM
POS.	OPERATIONS	DIAMOND	U	X	E	T	mm	GRIT	M/SEC	USA
2	INTERNO - FACE	201 1 1 008 1600	2 5/64"	10 3/8"	12 1/2"	22 55/64"	20	91/220	20/25	360/450

PLUS EVO		COD. ART. / ITEM	Ø 150 / 6"		12V9-45°		BORE	BOND B	PCS	SFM
POS.	OPERATIONS	DIAMOND	U	X	E	T	mm	GRIT	M/SEC	USA
2	INTERNO - FACE	201 1 1 008 2000	2 5/64"	10 3/8"	12 1/2"	22 55/64"	20	91/220	20/25	360/450

# MASTER EVO



14F1

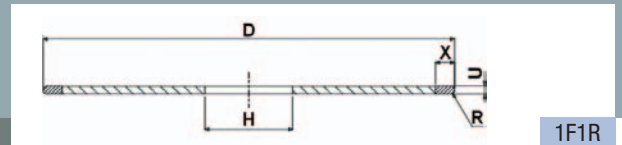
Ø 175 / 7"		U		X		R		T		BOND
ITEM NUMBER	ITEM NUMBER	mm	inch	mm	inch	mm	inch	mm	inch	
<b>DIAMOND C = 125</b>	<b>CBN C = 100</b>									
111 1 1 051 3010	111 1 2 051 3010	1,3	0,0512"	7	0,275"	0,65	-0,025"	8	-0,31"	R 1
111 1 1 051 3020	111 1 2 051 3020	1,5	0,0591"	7	0,275"	0,75	-0,029"	8	-0,31"	R 1
111 1 1 051 3040	111 1 2 051 3040	2	0,0787"	7	0,275"	1	-0,039"	8	-0,31"	B - R 1
111 1 1 051 3050	111 1 2 051 3050	3	0,1181"	7	0,275"	1,5	-0,059"	8	-0,31"	B
111 1 1 051 3060	111 1 2 051 3060	4	0,1575"	7	0,275"	2	-0,078"	8	-0,31"	B
111 1 1 051 3070	111 1 2 051 3070	5	0,1969"	7	0,275"	2,5	-0,098"	8	-0,31"	B

Ø 200 / 8"		U		X		R		T		BOND
ITEM NUMBER	ITEM NUMBER	mm	inch	mm	inch	mm	inch	mm	inch	
<b>DIAMOND C = 125</b>	<b>CBN C = 100</b>									
111 1 1 051 3310	111 1 2 051 3310	1,3	0,0512"	7	0,275"	0,65	-0,025"	12	-0,47"	R 1
111 1 1 051 3320	111 1 2 051 3320	1,5	0,0591"	7	0,275"	0,75	-0,029"	12	-0,47"	R 1
111 1 1 051 3340	111 1 2 051 3340	2	0,0787"	7	0,275"	1	-0,039"	12	-0,47"	B - R 1
111 1 1 051 3350	111 1 2 051 3350	3	0,1181"	7	0,275"	1,5	-0,059"	12	-0,47"	B
111 1 1 051 3360	111 1 2 051 3360	4	0,1575"	7	0,275"	2	-0,078"	12	-0,47"	B
111 1 1 051 3370	111 1 2 051 3370	5	0,1969"	7	0,275"	2,5	-0,098"	12	-0,47"	B

Ø 225 / 9"		U		X		R		T		BOND
ITEM NUMBER	ITEM NUMBER	mm	inch	mm	inch	mm	inch	mm	inch	
<b>DIAMOND C = 125</b>	<b>CBN C = 100</b>									
111 1 1 051 3510	111 1 2 051 3510	1,5	0,0591"	7	0,275"	0,75	-0,029"	12	-0,47"	R 1
111 1 1 051 3530	111 1 2 051 3530	2	0,0787"	7	0,275"	1	-0,039"	12	-0,47"	B - R 1
111 1 1 051 3540	111 1 2 051 3540	3	0,1181"	7	0,275"	1,5	-0,059"	12	-0,47"	B
111 1 1 051 3550	111 1 2 051 3550	4	0,1575"	7	0,275"	2	-0,078"	12	-0,47"	B

Ø 250 / 10"		U		X		R		T		BOND
ITEM NUMBER	ITEM NUMBER	mm	inch	mm	inch	mm	inch	mm	inch	
<b>DIAMOND C = 125</b>	<b>CBN C = 100</b>									
111 1 1 051 3710	111 1 2 051 3710	1,5	0,0591"	7	0,275"	0,75	-0,029"	12	-0,47"	R 1
111 1 1 051 3730	111 1 2 051 3730	2	0,0787"	7	0,275"	1	-0,039"	12	-0,47"	B - R 1
111 1 1 051 3740	111 1 2 051 3740	3	0,1181"	7	0,275"	1,5	-0,059"	12	-0,47"	B
111 1 1 051 3750	111 1 2 051 3750	4	0,1575"	7	0,275"	2	-0,078"	12	-0,47"	B
111 1 1 051 3760	111 1 2 051 3760	5	0,1969"	7	0,275"	2,5	-0,098"	12	-0,47"	B

# MASTER EVO



1F1R

Ø 175 / 7"		U		X		R		T		BOND
ITEM NUMBER	ITEM NUMBER	mm	inch	mm	inch	mm	inch	mm	inch	
<b>DIAMOND C = 125</b>	<b>CBN C = 100</b>									
111 1 1 048 3010	111 1 2 048 3010	1,3	0,0512"	7	0,275"	0,65	-0,025"			R 1
111 1 1 048 3020	111 1 2 048 3020	1,5	0,0591"	7	0,275"	0,75	-0,029"			R 1
111 1 1 048 3040	111 1 2 048 3040	2	0,0787"	7	0,275"	1	-0,039"			B - R 1
111 1 1 048 3050	111 1 2 048 3050	3	0,1181"	7	0,275"	1,5	-0,059"			B
111 1 1 048 3060	111 1 2 048 3060	4	0,1575"	7	0,275"	2	-0,078"			B
111 1 1 048 3070	111 1 2 048 3070	5	0,1969"	7	0,275"	2,5	-0,098"			B

Ø 200 / 8"		U		X		R		T		BOND
ITEM NUMBER	ITEM NUMBER	mm	inch	mm	inch	mm	inch	mm	inch	
<b>DIAMOND C = 125</b>	<b>CBN C = 100</b>									
111 1 1 048 3310	111 1 2 048 3310	1,3	0,0512"	7	0,275"	0,65	-0,025"			R 1
111 1 1 048 3320	111 1 2 048 3320	1,5	0,0591"	7	0,275"	0,75	-0,029"			R 1
111 1 1 048 3340	111 1 2 048 3340	2	0,0787"	7	0,275"	1	-0,039"			B - R 1
111 1 1 048 3350	111 1 2 048 3350	3	0,1181"	7	0,275"	1,5	-0,059"			B
111 1 1 048 3360	111 1 2 048 3360	4	0,1575"	7	0,275"	2	-0,078"			B
111 1 1 048 3370	111 1 2 048 3370	5	0,1969"	7	0,275"	2,5	-0,098"			B

Ø 250 / 10"		U		X		R		T		BOND
ITEM NUMBER	ITEM NUMBER	mm	inch	mm	inch	mm	inch	mm	inch	
<b>DIAMOND C = 125</b>	<b>CBN C = 100</b>									
111 1 1 048 3710	111 1 2 048 3710	1,5	0,0591"	7	0,275"	0,75	-0,029"			R 1
111 1 1 048 3730	111 1 2 048 3730	2	0,0787"	7	0,275"	1	-0,039"			B - R 1
111 1 1 048 3740	111 1 2 048 3740	3	0,1181"	7	0,275"	1,5	-0,059"			B
111 1 1 048 3750	111 1 2 048 3750	4	0,1575"	7	0,275"	2	-0,078"			B
111 1 1 048 3760	111 1 2 048 3760	5	0,1969"	7	0,275"	2,5	-0,098"			B



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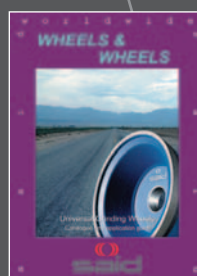
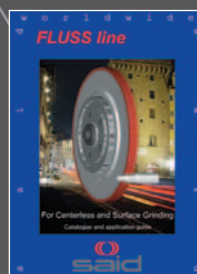
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