



Nuova C.U.M.E.T.
Diamond Tool 04



Precision in *movement!*

SUPERABRASIVI-SUPERABRASIVES

Specifica Materiali Super Abrasivi:

- Diamante
- CBN (Borazon), Nitruro di Boro Cubico.

Sono definiti "Super-Duri" perché la loro durezza è decisamente superiore a quella degli abrasivi tradizionali; il corindone, il carburo di silicio etc. Il Diamante ha durezza 10 nella scala di Mohs, il CBN è di poco inferiore. Nella scala di knoop il diamante ha durezza superiore a 8500Kg/mm² mentre il CBN 4500Kg/mm² circa. Esistono diverse tipologie di diamante, da quello presente in natura e quindi detto "Diamante naturale" alle diverse varietà prodotte industrialmente e quindi detto "Sintetico". Il CBN non esiste in natura ma viene prodotto solo industrialmente.

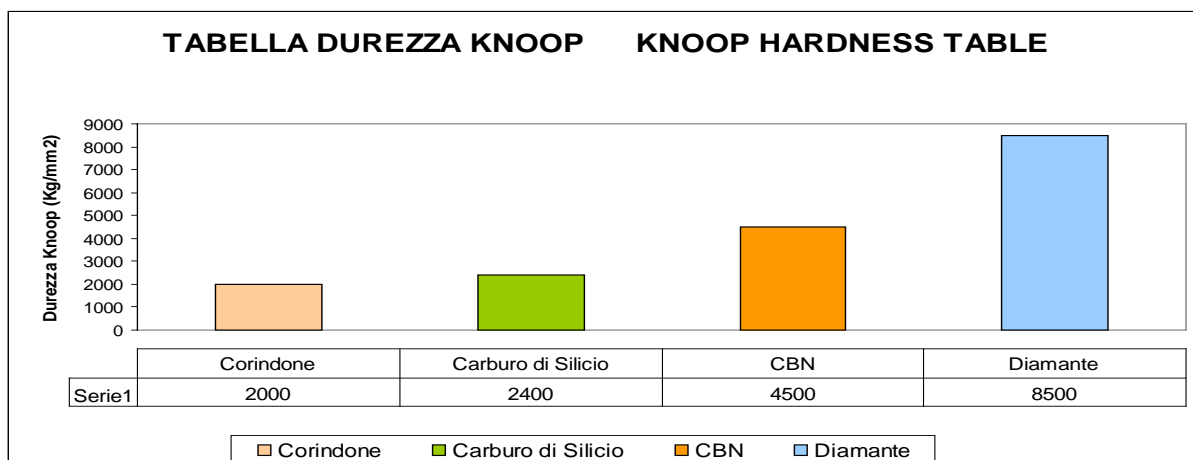
Super Abrasives Materials:

- Diamond
- CBN (Borazon), Cubic Boron Nitride.

The assignment of Superabrasives derives from the factor that their hardness is significantly higher than all other conventional abrasives, such as corundum, carbide silicon etc.

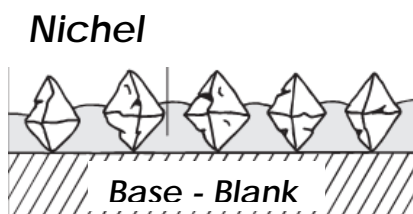
The Diamond hardness is 10 in the Mesh scale, the CBN is slightly lower. In the scale of knop, the Diamond hardness is over 8500kg/mm². There are different types of diamonds: when it is naturally accuring, it is called "natural Diamond". Other different varieties are produced industrially and called "Sintetic Diamonds".

The CBN does not exist in nature but it is produced industrially.



Granulometrie Grit	FEPA	Usò Application
Estremamente Fine	D15	Finitura <i>Finishing</i>
Molto Fine	D25 D46	Pre-Finitura <i>Pre-Finishing</i>
Fine	D91	Eliminazione Rugosità <i>Roughness Removal</i>
Media	D126	Utilizzo Universale <i>Universal Use</i>
Grossa	D151 D181	Asportazione <i>Removal</i>
Molto Grossa	D251	Asportazione <i>Removal</i>

Definizione granulometria [µm] ISO 6106 (FEPA Standard)		Mesh Size	Ra Ottenibile Roughness
Diamond	CBN	Micron	Ra
D15	-	-	
D25	-	-	
D46	B46	325/400	
D54	B54	270/325	0,4-0,5
D64	B64	230/270	
D76	B76	200/230	0,6-0,8
D91	B91	170/200	0,8-1,2
D107	B107	140/170	
D126	B126	120/140	1,0-1,4
D151	B151	100/120	1,4-1,6
D181	B181	80/100	2,2-2,6
D213	B213	70/80	
D251	-	60/70	
-	B252	60/80	3,0-3,2
D301	B301	50/60	
D357	B357	45/50	
D427	B427	40/50	
D502	-	35/45	
D602	-	30/40	
D852	-	20/30	



Utilizzo del Diamante e del CBN per Materiali Lavorati Use of Diamond and CBN for Machined Materials

Materiali -Materials	Diamond	CBN
GFK-CFK, resine epossidiche GFK-CFK epoxy resins	X	-
Carbone per elettrodi, grafite Coal for electrode, graphite	X	-
Ceramica, allumina, carburo di silicio Ceramics, alumina, silicium carbide	X	-
Carburo di tungsteno Tungsten carbide	X	-
Materiali magnetici, ferrite Magnetic materials, ferrite	X	-
Metalli duri e sinterizzati, PCD/PCB Hard and sintered materials, PCD/PCB	X	-
Ghisa, ghisa grigia, ghisa sferoidale Cast iron, grey cast iron, nodular grey	X	X
Stellite	-	X
Superleghe a base di Nichel Superalloy based on Nichel	-	X
Acciaio al cromo e per cuscinetti Chromium steels and for bearings	-	X
Acciai super rapidi e acciai per utensili HSS and tool steels	-	X

Vantaggi degli Utensili in Diamante e CBN Advantages of Diamond and CBN tools

- Elevata vita utensile e tenuta della forma
- High tool life and grip shape
- Riduzione tempi morti di lavorazione
- Reduction in machining time
- Diminuzione del numero di rinvivature
- Decrease in the number of rinvivature
- Minori sostituzioni dell'utensile
- Less tool replacements
- Il pezzo non viene danneggiato termicamente
- The piece is not thermally damaged
- Durante la lavorazione non si generano forti aumenti della temperatura
- During operation do not generate strong increases in temperature
- Qualità costante su una grande quantità di pezzi
- Consistent quality on a large amount of pieces

Consigli d'Utilizzo - Advice for Use

DIAMANTE
<p>Il diamante non si utilizza per la lavorazione degli acciai poiché la reazione chimica che si sviluppa dall'interazione del ferro contenuto nell'acciaio e il carbonio contenuto nel diamante causa una veloce usura dell'utensile. Nel punto di contatto del grano di diamante con il materiale lavorato si sviluppano elevate temperature. L'acciaio sottrae al diamante atomi di carbonio provocando la distruzione del grano del diamante che si trasforma in grafite cambiando stato cristallino. Utilizzare quindi il diamante per lavorare l'acciaio è anti economico.</p>

DIAMOND
<p>Do not use diamond for machining of steels because the chemical reaction that develops from the interaction of the iron content in steel and carbon in the diamond causes a fast tool wear. At the point of contact of diamond grain with the worked material, develop high temperatures. Diamond steel subtracts carbon atoms causing the destruction of diamond grain, which transforms into graphite changing state crystalline. To use the diamond to work steel is not economical. For machining ferrous material shell be used CBN.</p>

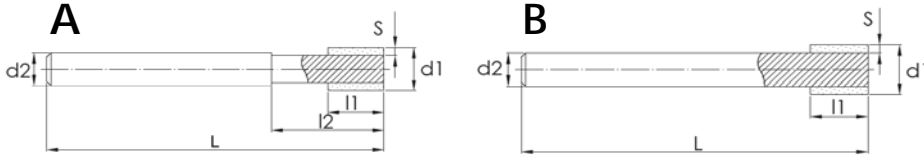
CBN
<p>Il CBN è composto da boro e azoto ed è meno duro del diamante. In compenso però non reagisce con il ferro contenuto nell'acciaio. Al contrario del diamante, nel CBN non è presente alcun atomo di carbonio rendendolo indicato per lavorare l'acciaio. Utilizzando il CBN si hanno considerevoli vantaggi. Mentre il diamante a 700°C ha una elevata perdita di durezza, il CBN la mantiene pressoché invariata anche a temperature superiori dei 1000°C e può quindi essere utilizzato in condizioni molto più gravose.</p>

CBN
<p>The CBN consists of boron and nitrogen and is less hard than diamond. On the other hand, however, does not react with the iron in steel. Unlike the diamond, the CBN has no carbon atom, making it suitable for machining steel. Using the CBN will have considerable advantages. While the diamond at 700°C has a high loss of hardness, CBN keeps almost unchanged even at temperatures in excess of 1000° and then can be used in much more difficult conditions.</p>

Grit Size FEPA	Spessore Strato Rivestimento Electroplated Layer Thickness	Incremento del Ø Ø Increase
D46	0,075	0,15
D54	0,09	0,18
D76	0,1	0,2
D91	0,125	0,25
D107	0,14	0,28
D126	0,18	0,36
D151	0,2	0,4
D181	0,22	0,44
D251	0,28	0,56
D301	0,35	0,7
D427	0,5	1
D502	0,6	1,2
D602	0,75	1,5
D711	0,85	1,7

Molette Cilindriche per Interni Electrodepositate in Diamante & CBN

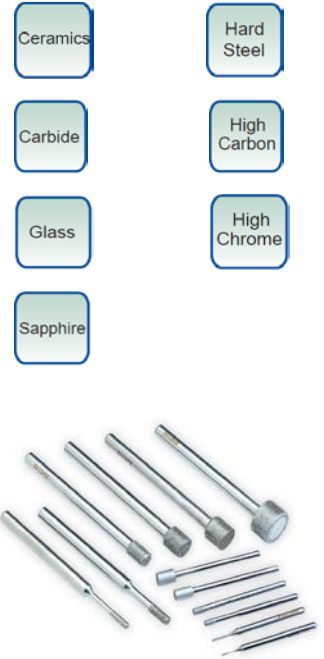
Electroplated Diamond & CBN Cylindrical Wheels for Internal Grinding



CODE		Type	d1 mm	d2 mm	l1 mm	l2 mm	L mm	FEPA/GRIT	€URO	
Diamond	CBN								Diamond	CBN
X003D3	X003B3	A	0.3	3.0	2	4	35	600	13,30	15,30
X004D3	X004B3	A	0.4	3.0	2	5	35	D46/400		
X005D3	X005B3	A	0.5	3.0	2	5	35	D46/400		
X006D3	X006B3	A	0.6	3.0	3	5	40	D76/200		
X007D3	X007B3	A	0.7	3.0	3	8	40	D76/200		
X008D3	X008B3	A	0.8	3.0	3	8	40	D76/200	10,80	12,50
X009D3	X009B3	A	0.9	3.0	4	8	40	D76/200		
X010D3	X010B3	A	1.0	3.0	5	8	40	D76/200		
X015D3	X015B3	A	1.5	3.0	5	8	45	D107/150		
X020D3	X020B3	A	2.0	3.0	5	12	45	D107/150		
X025D3	X025B3	A	2.5	3.0	5	15	45	D107/150		
X030D3	X030B3	A	3	3.0	5	15	45	D107/150		
X040D3	X040B3	B	4	3.0	5	-	50	D107/150	11,50	13,20
X050D3	X050B3	B	5	3.0	8	-	50	D107/150		
X060D3	X060B3	B	6	3.0	8	-	50	D107/150		
X040D6	X040B6	A	4	6.0	10	22	80	D151/100	10,80	12,40
X050D6	X050B6	A	5	6.0	10	22	80	D151/100		
X060D6	X060B6	A	6	6.0	10	22	80	D151/100		
X070D6	X070B6	B	7	6.0	10	-	80	D151/100	12,40	13,50
X080D6	X080B6	B	8	6.0	10	-	80	D151/100	13,90	15,30
X090D6	X090B6	B	9	6.0	10	-	80	D151/100	15,90	18,30
X100D6	X100B6	B	10	6.0	10	-	80	D151/100	16,90	20,00
X120D6	X120B6	B	12	6.0	10	-	80	D151/100	20,00	23,00
X140D6	X140B6	B	14	6.0	10	-	80	D151/100	23,00	26,80
X160D6	X160B6	B	16	6.0	10	-	80	D151/100	26,00	30,00
X180D6	X180B6	B	18	6.0	10	-	80	D151/100	30,00	34,60
X200D6	X200B6	B	20	6.0	10	-	80	D151/100	33,80	38,80

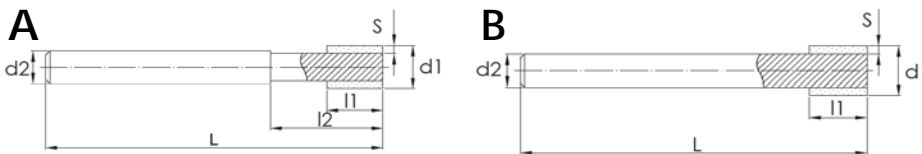
Diamond

CBN



Molette Vetrificate Cilindriche in CBN per Interni ed Esterni

Vetrified CBN Cylindrical Wheels for Internal Grinding



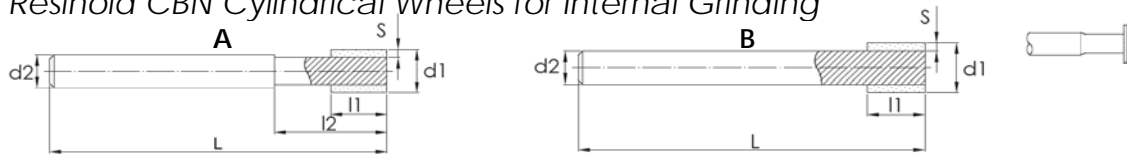
CODE	Type	S mm	d1 mm	d2 mm	l1 mm	l2 mm	L mm	FEPA/GRIT	€URO	
									Diamond	CBN
XV4003	A	1,0	4	3,0	6	12	60	D76/200		
XV5003	A	1,5	5	3,0	6	12	60	D76/200	-	60,00
XV6003	A	2,0	6	3,0	6	12	60	D76/200		
XV8003	A	3,0	8	3,0	8	12	60	D76/200		
XV1006	B	2,0	10	6,0	8	-	80	D76/200	-	73,00
XV1206	B	3,0	12	6,0	10	-	80	D76/200		
XV1408	B	3,0	14	8,0	12	-	80	D76/200		
XV1406	B	4,0	14	6,0	12	-	80	D76/200	-	87,00
XV1608	B	4,0	16	8,0	12	-	80	D76/200		
XV1606	B	5,0	16	6,0	12	-	80	D76/200		
XV1808	B	5,0	18	8,0	12	-	80	D76/200	-	107,00
XV1806	B	6,0	18	6,0	12	-	80	D76/200		

Hard Alloy Steel High Speed Steel



Molette Resinoidi Cilindriche in CBN per Interni ed Esterni

Resinoid CBN Cylindrical Wheels for Internal Grinding



CODE	Type	S mm	d1 mm	d2 mm	l1 mm	l2 mm	L mm	FEPA/GRIT	EURO	
									Diamond	CBN
XR4003	A	1,0	4,0	3,0	5	12	45	D76/200	-	60,00
XR4503	A	1,25	4,5	3,0	6	12	45	D76/200	-	60,00
XR5006	A	1,5	5,0	3,0	6	12	45	D76/200	-	60,00
XR6006	A	2,0	6,0	6,0	6	15	80	D107/150	-	73,00
XR7006	A	2,5	7,0	6,0	8	15	80	D107/150	-	73,00
XR8006	A	3,0	8,0	6,0	8	20	80	D107/150	-	73,00
XR1006	A	2,0	10,0	6,0	10	20	80	D107/150	-	73,00
XR1206	B	3,0	12,0	6,0	10	-	80	D107/150	-	87,00
XR1406	B	4,0	14,0	6,0	10	-	80	D107/150	-	87,00
XR1606	B	4,0	16,0	6,0	10	-	80	D107/150	-	87,00
XR1806	B	5,0	18,0	6,0	10	-	80	D107/150	-	107,00
XR2006	B	6,0	20,0	6,0	10	-	80	D107/150	-	107,00

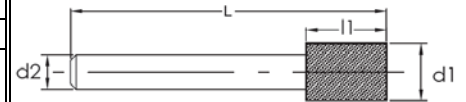
High Speed Steel
Hard Alloy Steel



Molette Elettrodepositate in Diamante & CBN Gambo Ø6mm

Electroplated Diamond & CBN Shaped Points Shank Ø6mm

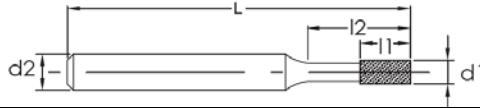
CODE	SHAPE	d1 mm	d2 mm	l1 mm	l2 mm	L mm	Grit Size	EURO	
								Diamond	CBN
XB65-6		6,5	6	15	-	60	40-60-100	11,66	
XB80-6		8,0	6	15	-	60	40-60-100	14,45	
XB10-6		10,0	6	10	11	60	40-60-100	18,83	
XB11-6		10,0	6	19	12	60	40-60-100	18,30	
XB12-6		10,0	6	32	15	60	40-60-100	19,00	
XB18-6		18,0	6	26	-	60	40-60-100	36,20	
XC60-4		6,0	6	32	-	60	40-60-100	13,30	
XC65-6		6,5	6	15	-	60	40-60-100	14,50	
XC80-6		8,0	6	15	-	60	40-60-100	18,30	
XC10-6		10,0	6	19	-	60	40-60-100	11,70	
XF65-6		6,5	6	22	-	60	40-60-100	14,50	
XF70-6		7,0	6	22	-	60	40-60-100	15,00	
XF80-6		8,0	6	15	-	60	40-60-100	15,00	
XF10-6		10,0	6	19	-	60	40-60-100	18,30	
XG10-6		10,0	6	19	-	60	40-60-100	18,20	
XM60-6		6,0	6	12	-	60	40-60-100	11,60	
XM61-6		6,0	6	15	-	60	40-60-100	11,60	
XM80-6		8,0	6	15	-	60	40-60-100	13,90	
XM10-6		10,0	6	20	-	60	40-60-100	15,00	
XD80-6		8,0	6	-	-	60	40-60-100	11,70	
XD10-6		10,0	6	-	-	60	40-60-100	13,30	
XD16-6		16,0	6	-	-	60	40-60-100	29,00	
XD20-6		20,0	6	-	-	60	40-60-100	34,70	
XE60-6		6,0	6	13	-	60	40-60-100	11,60	
XE90-6		9,0	6	18	-	60	40-60-100	17,30	
XE10-6		10,0	6	16	-	60	40-60-100	18,20	
XE12-6		12,0	6	25	-	60	40-60-100	23,20	
XH80-6		8,0	6	15	-	60	40-60-100	14,40	
XL65-6		6,5	6	25	-	60	40-60-100	14,40	
XY80-6		8,0	6	5	-	60	40-60-100	11,60	
XY16-6		16,5	6	6	-	60	40-60-100	29,00	
XY20-6		20,0	6	6	-	60	40-60-100	36,00	
XY25-6		25,0	6	7	-	60	40-60-100	43,00	
XX25-6		25,0	6	4	-	60	40-60-100	43,00	
XT25-6		25,0	6	5	-	60	40-60-100	36,00	
XA10-6		10,0	6	1,2	-	60	40-60-100	13,20	





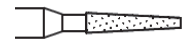





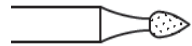


SET/BM-10 10Pcs. € 124.00

In caso d'ordine specificare la grana
In case of order specify the grit

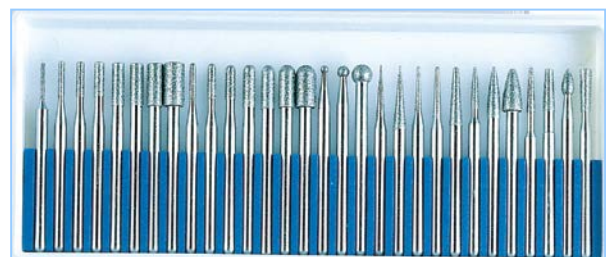
Molette Electrodepositate in Diamante & CBN Gambo Ø3mm Electroplated Diamond & CBN Shaped Points Shank Ø3mm



CODE		SHAPE	d1 mm	d2 mm	l1 mm	l2 mm	L mm	FEPA/GRIT	EURO	
Diamond	CBN								Diamond	CBN
*XB10	*XB101		1,0	3	8	-	45	D107/150	3,00	3,45
*XB15	*XB151		1,5	3	8	-	45	D107/150	3,00	3,45
*XB20	*XB201		2,0	3	8	11	45	D126/120	3,00	3,45
*XB25	*XB251		2,5	3	8	12	45	D126/120	3,00	3,45
*XB30	*XB301		3,0	3	10	15	45	D126/120	3,00	3,45
*XB35	*XB351		3,5	3	10	-	45	D126/120	3,00	3,45
XB40	XB401		4,0	3	10	-	45	D126/120	3,10	3,56
XB50	XB501		5,0	3	10	-	45	D151/100	3,70	4,25
XB60	XB601		6,0	3	10	-	45	D151/100	3,87	4,45
XC10	XC101			1,0	3	8	-	45	D107/150	3,00
*XC15	*XC151	1,5		3	8	-	45	D107/150	3,00	3,45
*XC20	*XC201	2,0		3	8	11	45	D126/120	3,00	3,45
*XC25	*XC251	2,5		3	8	12	45	D126/120	3,00	3,45
*XC30	*XC301	3,0		3	10	15	45	D126/120	3,00	3,45
XC35	XC351	3,5		3	10	-	45	D126/120	3,00	3,45
XC40	XC401	4,0		3	10	-	45	D126/120	3,10	3,56
XC50	XC501	5,0		3	10	-	45	D151/100	3,70	4,25
XC60	XC601	6,0		3	10	-	45	D151/100	3,87	4,45
XL12	XL121			1,2	3	16	-	45	D107/150	3,00
*XL15	*XL151		1,5	3	10	-	45	D107/150	3,00	3,45
XL16	XL161		1,5	3	13	-	45	D107/150	3,00	3,45
*XL20	*XL201		2,0	3	12	-	45	D107/150	3,00	3,45
*XL30	*XL301		3,0	3	14	-	45	D126/120	3,00	3,45
*XM20	*XM201		2,0	3	12	-	45	D107/150	3,00	3,45
*XM30	*XM301		3,0	3	15	-	45	D107/150	3,00	3,45
XM40	XM401		4,0	3	15	-	45	D107/150	3,10	3,45
XM50	XM501		5,0	3	15	-	45	D107/150	3,70	3,56
XM60	XM601		6,0	3	13	-	45	D107/150	3,87	4,25
*XH20	*XH201		2,0	3	10	-	45	D126/120	3,00	3,45
XH30	XH301		3,0	3	10	-	45	D126/120	3,00	3,45
XZ30	XZ301		3,0	3	10	-	45	D126/120	3,00	3,45
*XF20	*XF201		2,0	3	10	-	45	D126/120	3,00	3,45
*XF30	*XF301		3,0	3	12	-	45	D126/120	3,00	3,45
XF33	XF331		3,3	3	15	-	45	D126/120	3,00	3,45
XF40	XF401		4,0	3	10	-	45	D126/120	3,10	3,56
XF50	XF501		5,0	3	10	-	45	D151/100	3,70	4,25
XF60	XF601		6,0	3	10	-	45	D151/100	3,87	4,45
XF61	XF611		6,0	3	12	-	45	D151/100	3,87	4,45
XG30	XG301		3,0	3	14	-	45	D126/120	3,00	3,45
XG40	XG401		4,0	3	9	-	45	D126/120	3,10	3,56
XG50	XG501		5,0	3	10	-	45	D126/120	3,70	4,25
XG51	XG511		5,0	3	13	-	45	D126/120	3,70	4,25
XG60	XG601		6,0	3	13	-	45	D151/100	3,87	4,45
XD10	XD101			1,0	3	-	-	45	D76/200	3,00
XD15	XD151	1,5		3	-	-	45	D107/150	3,00	3,45
*XD20	*XD201	2,0		3	-	-	45	D107/150	3,00	3,45
XD25	XD251	2,5		3	-	-	45	D126/120	3,00	3,45
*XD30	*XD301	3,0		3	-	-	45	D126/120	3,00	3,45
XD40	XD401	4,0		3	-	-	45	D126/120	3,10	3,56
XD50	XD501	5,0		3	-	-	45	D151/100	3,70	4,25
XD60	XD601	6,0		3	-	-	45	D151/100	3,87	4,45
XD80	XD801	8,0		3	-	-	45	D151/100	4,80	5,52
XE30	XE301		3,0	3	5	-	45	D126/120	3,00	3,45
XE40	XE401		4,0	3	7	-	45	D126/120	3,10	3,56
XE50	XE501		5,0	3	9	-	45	D151/100	3,70	4,25
XE51	XE511		5,0	3	12	-	45	D151/100	3,70	4,25
XE60	XE601		6,0	3	10	-	45	D151/100	3,87	4,45
XJ20	XJ201			2,0	3	4	-	45	D126/120	3,00
XJ30	XJ301	3,0		3	6	-	45	D126/120	3,00	3,45
XJ40	XJ401	4,0		3	8	-	45	D126/120	3,10	3,56

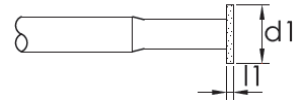


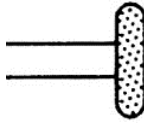
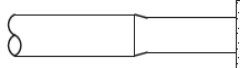
SET/BMS-30 30Pcs.	DIAMOND	€ 86,20
SET/BMB-30 30Pcs.	CBN	€ 97,20
*SET/BMS-20 20Pcs.	DIAMOND	€ 58,00
*SET/BMB-20 20Pcs.	CBN	€ 66,00



Molette a T Electrodepositate in Diamante & CBN Gambo Ø3mm

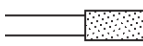
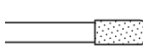


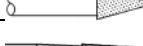
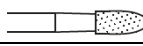



Electroplated Diamond & CBN T Shape Shank Ø3mm

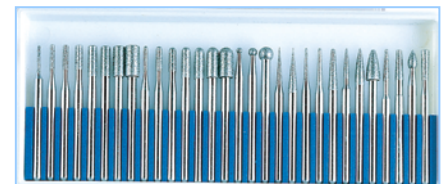
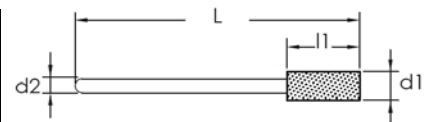


CODE		SHAPE	d1 mm	d2 mm	l1 mm	l2 mm	L mm	FEPA/GRIT	EURO	
Diamond	CBN								Diamond	CBN
XT131	XT1311		13,0	3	1	-	45	D151/100	11,00	12,60
XT1315	XT13151		13,0	3	1,5	-	45	D151/100		
XT132	XT1321		13,0	3	2	-	45	D151/100		
XT1325	XT13251		13,0	3	2,5	-	45	D151/100		
XT133	XT1331		13,0	3	3	-	45	D151/100		
XT1335	XT13351		13,0	3	3,5	-	45	D151/100		
XT134	XT1341		13,0	3	4	-	45	D151/100		
XY1315	XY13151		13,0	3	1,5	-	45	D151/100	11,00	12,60
XY132	XY1321		13,0	3	2	-	45	D151/100		
XY1325	XY13251		13,0	3	2,5	-	45	D151/100		
XY133	XY1331		13,0	3	3	-	45	D151/100		
XY1335	XY13351		13,0	3	3,5	-	45	D151/100		
XY134	XY1341		13,0	3	4	-	45	D151/100		

Molette Sagomate Electrodepositate in Diamante Gambo Ø2,35mm

Electroplated Diamond Shaped Points Shank Ø2,35mm




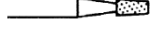

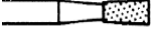

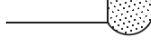
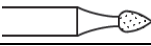
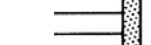

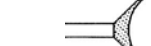

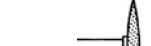
CODE		SHAPE	d1 mm	d2 mm	l1 mm	L mm	FEPA/GRIT	EURO	
Diamond	CBN							Diamond	CBN
*XB11-2	-		1,1	2,35	7	45	D107/150	3,00	-
*XB14-2	-		1,4	2,35	7	45	D107/150	3,00	-
*XB19-2	-		1,9	2,35	7	45	D126/120	3,00	-
*XB24-2	-		2,4	2,35	7	45	D126/120	3,00	-
*XB27-2	-		2,7	2,35	7	45	D126/120	3,10	-
XB30-2	-		3,0	2,35	15	45	D126/120	4,00	-
*XB32-2	-		3,2	2,35	7	45	D126/120	3,80	-
XB39-2	-		3,9	2,35	10	45	D126/120	3,80	-
XB49-2	-		4,9	2,35	10	45	D126/120	4,70	-
*XC14-2	-			1,4	2,35	7	45	D107/150	3,00
*XC19-2	-	1,9		2,35	7	45	D126/120	3,00	-
*XC29-2	-	2,9		2,35	7	45	D126/120	3,40	-
XC39-2	-	3,9		2,35	10	45	D126/120	3,80	-
XC49-2	-	4,9		2,35	10	45	D126/120	4,70	-
*XL14-2	-		1,4	2,35	10	45	D107/150	3,00	-
*XL24-2	-		2,4	2,35	13	45	D107/150	3,00	-
XL60-2	-		6,0	2,35	14	45	D151/100	5,40	-
XM15-2	-		1,5	2,35	10	45	D76/200	3,00	-
*XM18-2	-		1,8	2,35	10	45	D107/150	3,00	-
*XM24-2	-		2,4	2,35	12	45	D107/150	3,00	-
XM29-2	-		2,9	2,35	14	45	D107/150	3,40	-
XU42-2	-		4,2	2,35	6	45	D107/150	3,80	-
*XH14-2	-		1,4	2,35	7	45	D126/120	3,00	-
*XH19-2	-		1,9	2,35	7	45	D126/120	3,00	-
*XH26-2	-	2,6	2,35	7	45	D126/120	3,40	-	
XF25-2	-		2,5	2,35	6	45	D126/120	3,00	-
*XG17-2	-		1,7	2,35	10	45	D107/150	3,00	-
XG25-2	-	2,5	2,35	10	45	D107/150	3,80	-	
*XD20-2	-		2,0	2,35	-	45	D107/150	3,00	-
*XD24-2	-		2,4	2,35	-	45	D126/120	3,00	-
XD30-2	-		3,0	2,35	-	45	D126/120	3,40	-
*XD35-2	-		3,5	2,35	-	45	D126/120	3,80	-
XD39-2	-		3,9	2,35	-	45	D126/120	3,80	-
XJ30-2	-		3,0	2,35	6	45	D126/120	3,40	-
XJ60-2	-		6,0	2,35	10	45	D151/100	5,40	-
XV30-2	-		3,0	2,35	1,5	45	D107/150	3,40	-
XS16-2	-		16,0	2,35	0,5	45	D76/200	14,00	-

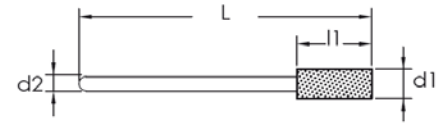


SET/BMR30 30Pcs.	€ 102,00
*SET/BMR20 20Pcs.	€ 65,00

Molette Sagomate Elettrodepositate in Diamante Gambo Ø2,35mm

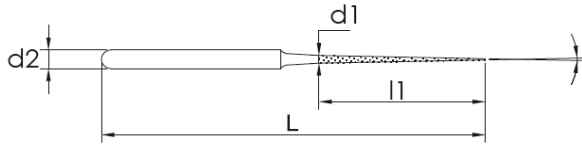
Electroplated Diamond Shaped Points Shank Ø2,35mm

CODE		SHAPE	d1 mm	d2 mm	l1 mm	l2 mm	L mm	FEPA/GRIT	€URO	
Diamond	CBN								Diamond	CBN
XB10-3	-		1,0	2,35	5	-	45	D76/200	3,20	-
XB15-3	-		1,5	2,35	5	-	45	D107/150	3,20	-
XB16-3	-		1,5	2,35	7	-	45	D107/150	3,20	-
XB25-3	-		2,5	2,35	7	-	45	D126/120	3,20	-
XB30-3	-		3,0	2,35	7	-	45	D151/120	3,40	-
XB35-3	-		7,0	2,35	6	-	45	D151/120	4,30	-
XB40-3	-		8,0	2,35	10	-	45	D181/80	4,70	-
XL15-3	-		1,5	2,35	10	-	45	D107/150	3,42	-
XL20-3	-		2,0	2,35	12	-	45	D126/120	3,42	-
XL25-3	-		2,5	2,35	12	-	45	D126/120	3,40	-
XL30-3	-		3,0	2,35	12	-	45	D151/120	3,80	-
XL40-3	-		4,0	2,35	12	-	45	D151/120	3,80	-
XL50-3	-		5,0	2,35	12	-	45	D151/120	4,00	-
XL70-3	-		7,0	2,35	12	-	45	D181/80	4,30	-
XL80-3	-		8,0	2,35	12	-	45	D181/80	4,70	-
XM15-3	-		1,5	2,35	8	-	45	D76/200	3,20	-
XM16-3	-		1,5	2,35	10	-	45	D76/200	3,20	-
XM35-3	-		3,5	2,35	6	-	45	D107/150	3,40	-
XN10-3	-		1,0	2,35	4	-	45	D76/200	3,20	-
XN15-3	-		1,5	2,35	4	-	45	D76/200	3,20	-
XN20-3	-		2,0	2,35	4	-	45	D76/200	3,20	-
XN30-3	-		3,0	2,35	4	-	45	D76/200	3,40	-
XH20-3	-		2,0	2,35	8	-	45	D107/150	3,20	-
XH25-3	-		2,5	2,35	12	-	45	D126/120	3,20	-
XH26-3	-		2,5	2,35	10	-	45	D126/120	3,20	-
XH30-3	-		3,0	2,35	10	-	45	D126/120	3,40	-
XH40-3	-		4,0	2,35	10	-	45	D151/120	3,80	-
XH50-3	-		5,0	2,35	10	-	45	D151/120	4,00	-
XJ20-3	-			2,0	2,35	5	-	45	D107/150	3,20
XJ25-3	-	2,5		2,35	7	-	45	D126/120	3,20	-
XJ70-3	-	7,0		2,35	12	-	45	D181/80	4,70	-
XG09-3	-		0,9	2,35	4	-	45	D76/200	3,40	-
XG15-3	-		1,5	2,35	10	-	45	D107/150	3,40	-
XG20-3	-		2,0	2,35	10	-	45	D126/120	3,40	-
XD10-3	-		1,0	2,35	-	-	45	D76/200	3,00	-
XD20-3	-		2,0	2,35	-	-	45	D107/150	3,00	-
XD30-3	-		3,0	2,35	-	-	45	D126/120	3,40	-
XD40-3	-		4,0	2,35	-	-	45	D126/120	3,80	-
XJ40-3	-		4,0	2,35	6	-	45	D126/120	3,80	-
XT60-3	-		6,0	2,35	1,5	-	45	D126/120	4,00	-
XT80-3	-		8,0	2,35	2	-	45	D126/120	4,70	-
XT81-3	-		8,0	2,35	3	-	45	D151/120	4,70	-
XY40-3	-		4,0	2,35	0,4	-	45	D107/150	3,80	-
XY50-3	-		5,0	2,35	0,6	-	45	D107/150	4,00	-
XY60-3	-		6,0	2,35	0,5	-	45	D107/150	4,00	-
XY10-3	-		10,0	2,35	0,5	-	45	D107/150	6,40	-
XY11-3	-		10,0	2,35	1	-	45	D126/120	7,70	-
XY12-3	-		12,0	2,35	0,6	-	45	D126/120	7,70	-
XY13-3	-		12,0	2,35	1	-	45	D126/120	7,70	-
XY13-3	-		13,0	2,35	2,5	-	45	D151/120	7,70	-
XY14-3	-		16,0	2,35	2,5	-	45	D181/80	8,60	-
XY16-3	-		16,0	2,35	3,5	-	45	D181/80	8,60	-
XU40-3	-		4,0	2,35	-	-	45	D107/150	3,80	-
XU60-3	-		6,0	2,35	-	-	45	D126/120	4,30	-
XU10-3	-		10,0	2,35	-	-	45	D126/120	5,60	-
XU12-3	-		12,0	2,35	-	-	45	D151/120	6,00	-
XR27-3	45°		2,7	2,35	-	-	45	D107/150	3,40	-
XR40-3			4,0	2,35	-	-	45	D107/150	3,80	-
XR50-3			5,0	2,35	-	-	45	D107/150	4,00	-
XR60-3			6,0	2,35	-	-	45	D107/150	4,00	-
XR10-3			10,0	2,35	-	-	45	D151/120	5,10	-
XV18-3	-		1,8	2,35	0,5	-	45	D76/200	3,40	-
XV40-3	-		4,0	2,35	0,8	-	45	D107/150	3,80	-
XV60-3	-		6,0	2,35	1	-	45	D107/150	4,00	-
XV10-3	-		10,0	2,35	1,6	-	45	D126/120	6,40	-
XV16-3	-		16,0	2,35	2	-	45	D126/120	8,50	-



Molette Coniche Electrodepositate in Diamante Gambo Ø3mm

Electroplated Diamond Tapered Points Shank Ø3mm



MIN. ORDINE: 20 PZ. CAD. - MIN. ORDER: 20 PCS. EACH

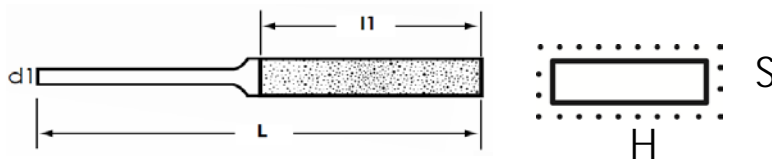
CODE		α°	d1 mm	d2 mm	l1 mm	l2 mm	L mm	FEPA/GRIT	EURO	
Diamond	CBN								Diamond	CBN
X01850	-	3,1	1,8	3	25	-	50		5.50	-
X02155	-	2,8	2,1	3	34	-	55		7.50	-
X03060	-	6,4	3,0	3	25	-	50		5.50	-
X04855	-	9,6	4,8	3	26	-	55		7,50	-
X01560	-	2,3	1,5	3	26	-	60	D107/140	5,50	-
X02070	-	1,9	2,0	3	48	-	73		8.50	-
X02365	-	2,7	2,3	3	40	-	65		8.50	-
X02570	-	2,6	2,5	3	45	-	70		8.50	-
X03070	-	4,2	3,0	3	38	-	65		8.50	-
X06060	-	10	6,0	6	33	-	60		11.00	-
X06061	-	12	6,0	6	28	-	60		11.00	-
X06062	-	14	6,0	6	23	-	60	D126/120	11.00	-
X06063	-	16	6,0	6	21	-	60		11.00	-
X06064	-	20	6,0	6	17	-	60		11.00	-
X10060	-	30	10,0	6	19	-	60		15.00	-




In caso d'ordine specificare la grana
In case of order please specify the grit



Lime elettrodepositate in Diamante gambo Ø3mm

Electroplated Diamond Files Shank Ø3mm



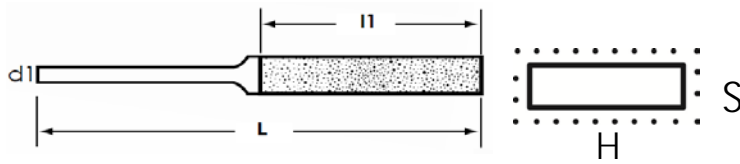
CODE	H x S	SHAPE	d1 mm	d2 mm	l1 mm	l2 mm	L mm	EURO		
								D107/150	D76/200	D46/400
XP139.1	5.5 X 0.5		3	-	40	-	140	8,00	8,00	8,00
XP139.2	5.5 X 0,8		3	-	50	-	140	8,00	8,00	8,00
XP139.3	5.5 X 1		3	-	50	-	140	8,00	8,00	8,00






In caso d'ordine specificare la grana
In case of order please specify the grit

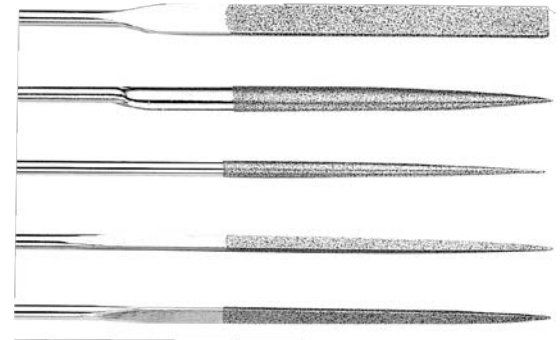


Lime Electrodepositate in Diamante Gambo Ø3mm

Electroplated Diamond Files Shank Ø3mm













CODE	H x S	SHAPE	d1 mm	l1 mm	L mm	EURO		
						D126/120	D76/200	D46/400
XP140.1	5.5 X 1.5		3	50	140	8,00	8,00	8,00
XP140.2	5 X 2		3	50	140	8,00	8,00	8,00
XP140.3	Ø 3		3	50	140	8,00	8,00	8,00
XP140.4	2,5		3	50	140	8,00	8,00	8,00
XP140.5	3.5		3	50	140	8,00	8,00	8,00



SET/XP140 5Pcs. € 38.00

In case of order please specify the grit
In case of order please specify the grit

CODE	H x S	SHAPE	d1 mm	l1 mm	L mm	EURO		
						D126/120	D76/200	D46/400
XP141.1	5.5 X 1.5		3	70	140	9,00	9,00	9,00
XP141.2	5 X 2		3	70	140	9,00	9,00	9,00
XP141.3	Ø 3		3	70	140	9,00	9,00	9,00
XP141.4	2,5		3	70	140	9,00	9,00	9,00
XP141.5	3,5		3	70	140	9,00	9,00	9,00
XP141.6	5.4 X 1.5		3	70	140	9,00	9,00	9,00
XP141.7	1.7 X 6		3	70	140	9,00	9,00	9,00
XP141.8	6 X 2		3	70	140	9,00	9,00	9,00
XP141.9	5 X 2		3	70	140	9,00	9,00	9,00
XP141.10	6 X 1.5		3	70	140	9,00	9,00	9,00

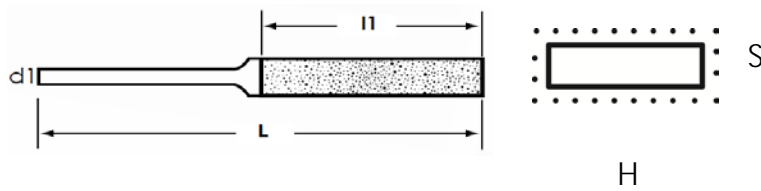












SET/XP141 10Pcs. € 86.00

In case of order please specify the grit
In case of order please specify the grit

Lime Electrodepositate in Diamante Gambo Rivestito in PVC Ø3mm

Electroplated Diamond Files Shank Ø3mm Cover With PVC








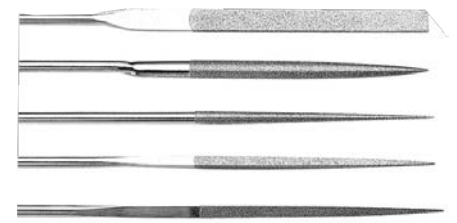
CODE	H x S	SHAPE	d1 mm	l1 mm	L mm	EURO		
						D76/200	D107/150	D46/400
XP142.2	5.5 X 1.5		3	50	180	12,00	12,00	12,00
XP142.1	5 X 2		3	50	180	12,00	12,00	12,00
XP142.3	Ø 3		3	50	180	12,00	12,00	12,00
XP142.4	2,5		3	50	180	12,00	12,00	12,00
XP142.5	3.5		3	50	180	12,00	12,00	12,00
XP142.6	5.5 X 1		3	50	180	12,00	12,00	12,00
XP142.7	5.5 X 0.5		3	40	180	12,00	12,00	12,00
XP142.8	5.5 X 0.8		3	50	180	12,00	12,00	12,00
XP142.9	Ø 2		3	50	180	12,00	12,00	12,00
XP142.10	5.5 X 1.5		3	25	180	12,00	12,00	12,00








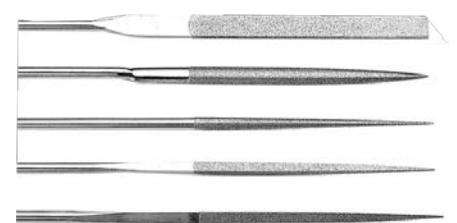
In caso d'ordine specificare la grana
In case of order please specify the grit

SET/XP142 10Pcs. € 114.00

CODE	H x S	SHAPE	d1 mm	l1 mm	L mm	EURO		
						D126/120	D76/200	D46/400
XP143.1	7.5 X 1.5		3,4	60	180	17,00	17,00	17,00
XP143.2	6 X 2.1		3,4	60	180	17,00	17,00	17,00
XP143.3	Ø 3.5		3,4	60	180	17,00	17,00	17,00
XP143.4	3		3,4	60	180	17,00	17,00	17,00
XP143.5	4		3,4	60	180	17,00	17,00	17,00



CODE	H x S	SHAPE	d1 mm	l1 mm	L mm	EURO		
						D126/120	D76/200	D46/400
XP144.1	8.5 X 1.6		4	70	200	20,00	20,00	20,00
XP144.2	7 X 2.5		4	70	200	20,00	20,00	20,00
XP144.3	Ø 4		4	70	200	20,00	20,00	20,00
XP144.4	3.5		4	70	200	20,00	20,00	20,00
XP144.5	4.5		4	70	200	20,00	20,00	20,00

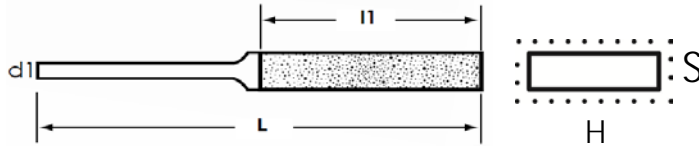







SET/XP143 5 Pcs. € 81.00
SET/XP144 5 Pcs. € 95.00

In caso d'ordine specificare la grana
In case of order please specify the grit

Lime Rifloirs Electrodepositate in Diamante Gambo Ø3mm

Rifloirs files Electroplated with Diamond Shank Ø3mm







CODE	H x S	SHAPE	l1 mm	L mm	EURO		
					D126/150	D76/200	D46/400
XP145.1	5.5 X 1.2		30	140	9,30	9,30	9,30
XP145.2	5 X 2		30	140	9,30	9,30	9,30
XP145.3	Ø 3		30	140	9,30	9,30	9,30
XP145.4	2.5		30	140	9,30	9,30	9,30
XP145.5	3.5		30	140	9,30	9,30	9,30



SET/XP145 5 Pcs. € 44.00











In caso d'ordine specificare la grana
In case of order please specify the grit

CODE	H x S	SHAPE	d1 mm	l1 mm	L mm	EURO		
						D126/200	D76/150	D46/400
XP146.1	3 X 2		3	30	140	25,00	25,00	25,00
XP146.2	Ø 2		2	20	140	25,00	25,00	25,00
XP146.3	Ø 3		3	20	140	25,00	25,00	25,00
XP146.4	Ø 3		3	30	140	25,00	25,00	25,00
XP146.5	3		3	20	140	25,00	25,00	25,00
XP146.6	3		3	30	140	25,00	25,00	25,00



SET/XP146 5 Pcs. € 63.00

In caso d'ordine specificare la grana
In case of order please specify the grit

CODE	H x S	SHAPE	d1 mm	l1 mm	L mm	EURO		
						D107/150	D76/200	D46/400
XP147.1	6 X 1.3		3	20	140	9,00	9,00	9,00
XP147.2	2.5		3	20	140	9,00	9,00	9,00
XP147.3	3.5 X 1.5		3	20	140	9,00	9,00	9,00
XP147.4	3.5		3	20	140	9,00	9,00	9,00
XP147.5	5 X 2		3	20	140	9,00	9,00	9,00
XP147.6	3.5 X 1.5		3	20	140	9,00	9,00	9,00
XP147.7	3.5 X 2		3	20	140	9,00	9,00	9,00
XP147.8	Ø 3		3	20	140	9,00	9,00	9,00
XP147.9	5 X 1.5		3	20	140	9,00	9,00	9,00
XP147.10	Ø 2.3		3	20	140	9,00	9,00	9,00

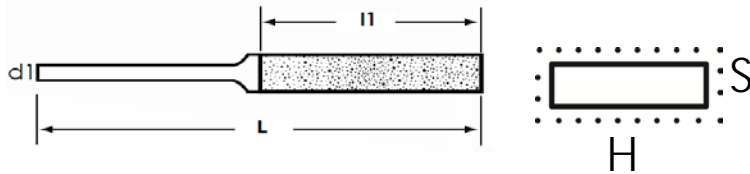












SET/XP147 10 Pcs. € 86.00

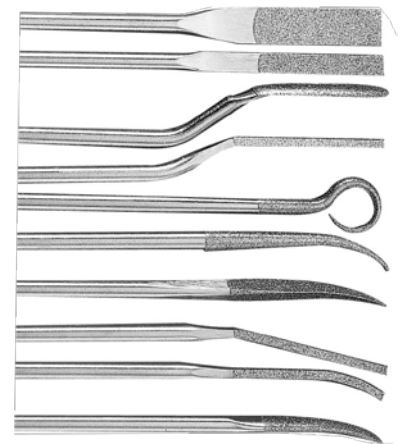
In caso d'ordine specificare la grana
In case of order please specify the grit

Lime a Macchina Electrodepositate in Diamante Gambo Ø3mm

Electroplated Diamond Machine Files Shank Ø3mm








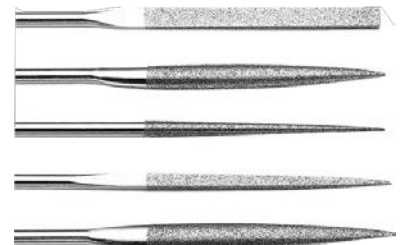
CODE	H x S	SHAPE	d1 mm	l1 mm	L mm	EURO		
						D107/150	D76/200	D46/400
XP148.1	5.8 X 1.2		3	20	65	9,00	9,00	9,00
XP148.2	3.2 X 1.4		3	20	65	9,00	9,00	9,00
XP148.3	5 X 2		3	20	65	9,00	9,00	9,00
XP148.4	3.2 X 1.4		3	30	65	9,00	9,00	9,00
XP148.5	Ø 3		3	20	65	9,00	9,00	9,00
XP148.6	Ø 3		3	30	65	9,00	9,00	9,00
XP148.7	2.5		3	20	65	9,00	9,00	9,00
XP148.8	3.2 X 1.4		3	30	65	9,00	9,00	9,00
XP148.9	3.2 X 1.4		3	30	65	9,00	9,00	9,00
XP148.10	3.5 X 2		3	20	65	9,00	9,00	9,00



SET/XP148	10 Pcs.	€ 86.00
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In caso d'ordine specificare la grana
In case of order please specify the grit

CODE	H x S	SHAPE	d1 mm	l1 mm	L mm	EURO		
						D10\7/150	D76/200	D46/400
XP149.1	4 X 1.2		3,0	45	90	10,00	10,00	10,00
XP149.2	5 X 2		3,0	45	90	10,00	10,00	10,00
XP149.3	Ø 3		3,0	45	90	10,00	10,00	10,00
XP149.4	2.5		3,0	45	90	10,00	10,00	10,00
XP149.5	5 X 2		3,0	45	90	10,00	10,00	10,00

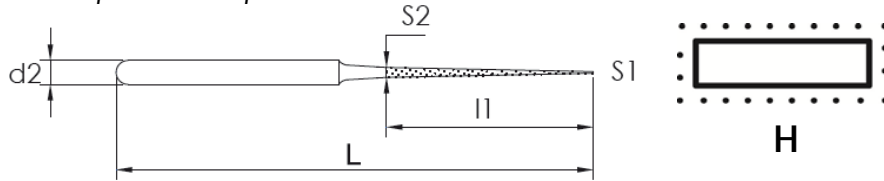



SET/XP149	5 Pcs.	€ 48.00
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In caso d'ordine specificare la grana
In case of order please specify the grit

Lime a Macchina Coniche Elettrodepositate in Diamantate Gambo Ø3mm

Electroplated Tapered Diamond Machine Files Shank Ø3mm




CODE	d2 mm	SHAPE	H mm	S1 mm	S2 mm	l1 mm	L mm	EURO			
								D107/150	D76/200	D54/300	D46/400
XP150.1	Ø 3		2	0,3	1,4	25	70	7,00	7,00	7,00	7,00
XP150.2	Ø 3		4	0,3	1,4	25	70	7,00	7,00	7,00	7,00
XP150.3	Ø 3		6	0,3	1,1	25	70	7,00	7,00	7,00	7,00



SET/XP150	12 Pcs.	€ 80.00
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In caso d'ordine specificare la grana
In case of order please specify the grit

CODE	d2 mm	SHAPE	H mm	S1 mm	S2 mm	l1 mm	L mm	EURO		
								D76/200	D46/400	D30/600
XP151.1	Ø 3		3	0,3	1,4	15	70	12,00	12,00	12,00
XP151.2	Ø 3		6	0,3	1,1	15	70	12,00	12,00	12,00
XP151.3	Ø 3		3	0,3	1,4	15	56	12,00	12,00	12,00
XP151.4	Ø 3		6	0,3	1,1	15	56	12,00	12,00	12,00



SET/XP151	12 Pcs.	€ 137.00
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In caso d'ordine specificare la grana
In case of order please specify the grit

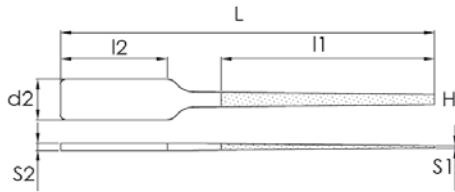
CODE	d2 mm	SHAPE	H mm	S1 mm	S2 mm	l1 mm	L mm	EURO		
								D107/150	D76/240	D46/320
XEL-121	-		2,3	1,5	2	50	180	15,50	15,50	15,50
XEL-122	-		4,3	1,5	2	50	180	15,50	15,50	15,50
XEL-123	-		6,5	1,5	2,2	50	180	15,50	15,50	15,50
XEL-124	-		8,5	1,5	2	50	180	15,50	15,50	15,50



SET/XEL-12	12 Pcs.	€ 175.00
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Lime Diamantate Coniche

Diamond Tapered Tip Files



CODE	d2 X L2 mm	SHAPE	H-H1 mm	S1 mm	S2 mm	l1 mm	L mm	EURO			
								D107/150	D76/200	D46/400	D30/600
XP153.1	8 x 20		3 - 2	0,5	1,4	40	70	7.00	7.00	7.00	7.00
XP153.2	8 x 20		4 - 3	0,5	1,4	50	80	8.00	8.00	8.00	8.00
XP153.3	8 x 20		6	0,5	1,4	50	90	9.00	9.00	9.00	9.00
XP153.4	8 x 20		8	0,5	1,4	50	90	10.00	10.00	10.00	10.00

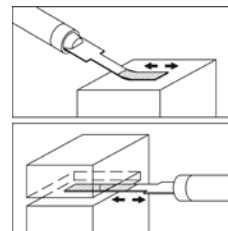
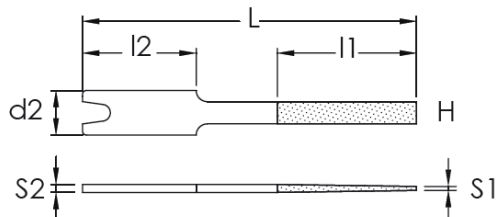


SET/XP153 10 Pcs. € 70.00
Without tool holder

XP153-S	Optional		€ 15.00

Lime Diamantate Coniche

Diamond tapered tip files



CODE	d2 X L2 mm	SHAPE	H-H1 mm	S1 mm	S2 mm	l1 mm	L mm	EURO		
								D107/150	D76/200	D46/400
XP154.1	8 x 20		3 - 2	0,5	1	25	60	7.00	7.00	7.00
XP154.2	8 x 20		4 - 2	0,5	1	25	60	7.00	7.00	7.00
XP154.3	8 x 20		4 - 3	0,5	1	25	60	7.00	7.00	7.00
XP154.4	8 x 20		4	0,5	1	25	60	7.00	7.00	7.00
XP154.5	8 x 20		3 - 2	0,5	1	40	70	8.50	8.50	8.50
XP154.6	8 x 20		4 - 3	0,5	1	40	70	8.50	8.50	8.50
XP154.7	8 x 20		6	0,5	1	40	70	7.50	7.50	7.50
XP154.8	8 x 20		8	0,5	1	40	70	8.50	8.500	8.50
XP154.9	8 x 20		10	0,5	1	40	70	10.00	10.00	10.00
XP154.10	8 x 20		8	0,5	1	60	90	10.00	10.00	10.00
XP154.11	8 x 20		10	0,5	1	60	90	11.00	11.00	11.00



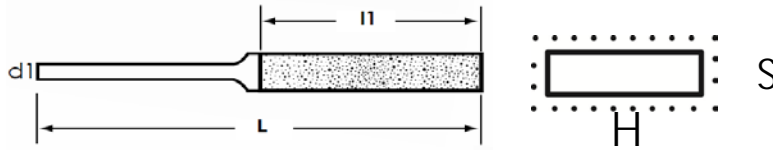
SET/XP154 10 Pcs. € 110.00
With tool holder

SET/XP154.1 10 Pcs. € 100.00
Without tool holder

XP154-S	Optional		€ 25.00

In caso d'ordine specificare la grana In case of order please specify the grit

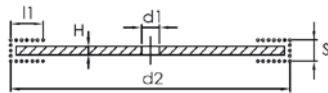
Lime in Diamante Sinterizzato di Lappatura, Limatrici ad Ultrasuoni e Pneumatiche Sintered Diamond Files for Pneumatic and Ultrasonic Lapping Machines



CODE	H X S	SHAPE	l1 mm	l2 mm	L mm	EURO		
						D76/200	D46/400	D30/600
XP155.1	6 X 1.5		20	-	54	104,00	104,00	104,00
XP155.2	6 X 1.5		20	-	70	145,00	145,00	145,00
XP155.3	10 X 2		20	-	105	166,00	166,00	166,00

In caso d'ordine specificare la grana
In case of order please specify the grit

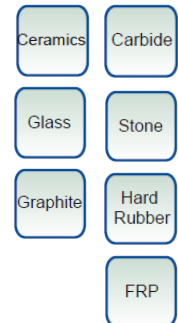
Dischi Diamantati Diamond Disk



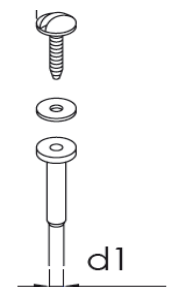
A

B

CODE	SHAPE	d2 mm	S mm	l1 mm	d1 mm	Type of Mandrel	EURO		
							D107/150	D76/200	D46/400
XP19.1	A	19	0,4	2	1,7	1-2-3	-	16,00	-
XP19.2	B	19	0,4	6	1,7	1-2-3	-	16,00	-
XP22.1	A	22	0,4	2	1,7	1-2-3	-	17,00	-
XP22.2	B	22	0,4	8	1,7	1-2-3	-	17,00	-
XP22.3	A	22	0,4	2	3	4-5-6	-	17,00	-
XP22.4	B	22	0,4	8	3	4-5-6	-	17,00	-
XP25.1	A	25	0,4	2	1,7	1-2-3	-	21,00	-
XP25.2	B	25	0,5	8	1,7	1-2-3	21,00	-	-
XP25.3	A	25	0,4	2	3	4-5-6	-	21,00	-
XP25.4	B	25	0,5	8	3	4-5-6	21,00	-	-
XP30.1	A	30	0,4	2	1,7	1-2-3	-	34,00	-
XP30.2	B	30	0,5	8	1,7	1-2-3	34,00	-	-
XP30.3	A	30	0,4	2	3	4-5-6	-	34,00	-
XP30.4	B	30	0,5	10	3	4-5-6	34,00	-	-

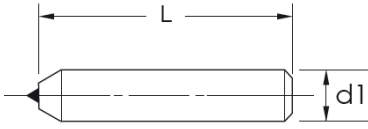


Mandrini - Holders					
CODE	Ø SCREW mm	d1 mm	Type of Mandrel	SHAPE	EURO
XP154M.234	1,7	2,34	1		1,70
XP154M.300	1,7	3	2		1,70
XP154M.317	1,7	3,17	3		1,70
XP155M.234	3	2,34	4		1,70
XP155M.300	3	3	5		1,70
XP155M.317	3	3,17	6		1,70



Ravvivamole a Diamante Singolo

Single Point Diamond Dresser



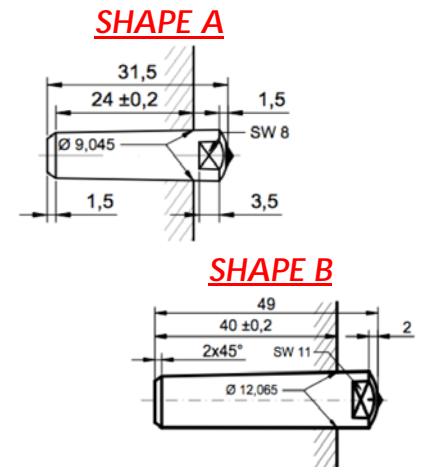
CODE	CARATI CARAT	EURO
PLS. SPECIFY d1 & L		
XP157.018	0,18	20,00
XP157.020	0,20	24,00
XP157.025	0,25	26,00
XP157.035	0,35	44,00
XP156.050	0,50	71,00
XP156.075	0,75	97,00
XP156.100	1,00	121,00
XP156.150	1,50	236,00
XP156.200	2,00	405,00

SCELTA DELLA CARATURA CHOICE OF CARATS								
L. MOLA L. WHEEL	Ø MOLA - WHEEL'S Ø mm							
	100	200	300	400	500	600	700	800
20	<0,5	<05	0,5-0,75	0,5-0,75	0,75-1	0,75-1	0,75-1	1-1,25
40		0,5-0,75	0,5-0,75	0,75-1	0,75-1	0,75-1	1-1,25	1,5-1,75
60			0,75-1	0,75-1	0,75-1	1-1,25	1,5-1,75	1,75-2
80	0,5-0,75	0,75-1	0,75-1	0,75-1	1-1,25	1,5-1,75	1,75-2	
100			1-1,25	1-1,25	1,5-1,75	1,75-2		
120								
140								
160	0,5-1	0,75-1	0,75-1	1-1,25	1,5-1,75	1,75-2		
180			1-1,25	1-1,25	1,5-1,75	1,75-2		
200								
220								
240	0,75-1	1-1,25	1,5-1,75	1,5-1,75	1,75-2			
260								
280								
300								

Ravvivatore a Diamante Singolo Gambo Conico

Single Point Diamond Dresser with Tapered Shank

CODE SHAPE A	CODE SHAPE B	CARATI CARAT	EURO
XT0-0.18	XT2-0.18	0.18	35.23
XT0-0.20	XT2-0.20	0.20	39.00
XT0-0.25	XT2-0.25	0.25	41.00
XT0-0.35	XT2-0.35	0.35	50.00
XT0-0.50	XT2-0.50	0.50	73.00
XT0-0.75	XT2-0.75	0.75	95.00
XT0-1.00	XT2-1.00	1.0	133.00
XT1-150	XT2-150	1.5	247.00
XT1-200	XT2-200	2.0	414.00



Bastoncini in Legno per Lappatura

Lapping Wood Stick

CODE	SHAPE	S mm	H mm	l1 mm	l2 mm	L mm	EURO
XP159.01		6,4	3,2	-	-	150	18,30
XP159.02		6,4	6,4	-	-	150	14,80
XP159.03		9,5	6,4	-	-	150	22,10
XP159.04		12,7	6,4	-	-	150	24,40
XP159.05		3,2	-	-	-	150	12,60
XP159.06		4,7	-	-	-	150	18,30
XP159.07		6,4	-	-	-	150	22,60
XP159.08		9,5	-	-	-	150	36,50

Bastoncini in Fibro Ceramica per Lucidatura

Fiber Ceramic Grinder Stone

TIPO QUADRO MINI - SQUARE MINI TYPE										
SIZE mm	Smeraldo Emerald	Oro Gold	Marrone Chiaro Light Brown	Arancione Orange	Marrone Brown	EURO	Blue	Bianco White	Rosso Red	EURO
GRIT	#120	#180	#300	#400	#600		#800	#1000	#1200	
0.3X0.3X50	7SE-0303	7SG-0303	7SL-0303	7SO-0303	7SP-0303	5,20	7SB-0303	7SW-0303	7SR-0303	5,20
0.5X0.5X50	7SE-0505	7SG-0505	7SL-0505	7SO-0505	7SP-0605	5,20	7SB-0605	7SW-0605	7SR-0605	5,20
0.7X0.7X50	7SE-0707	7SG-0707	7SL-0707	7SO-0707	7SP-0707	5,20	7SB-0707	7SW-0707	7SR-0707	5,20
0.9X0.9X50	7SE-0909	7SG-0909	7SL-0909	7SO-0909	7SP-0909	5,20	7SB-0909	7SW-0909	7SR-0909	5,20
1.4X1.4X50	7SE-1414	7SG-1414	7SL-1414	7SO-1414	7SP-1414	6,00	7SB-1414	7SW-1414	7SR-1414	6,00
TIPO RETTANGOLARE - RECTANGULAR STANDARD TYPE										
SIZE mm	Smeraldo Emerald	Oro Gold	Marrone Chiaro Light Brown	Arancione Orange	Marrone Brown	EURO	Blue	Bianco White	Rosso Red	EURO
GRIT	#120	#180	#300	#400	#600		#800	#1000	#1200	
1 x0.5x100	7SE-051	7SG-051	7SL-051	7SO-051	7SP-051	7,00	7SB-051	7SW-051	7SR-051	6,20
2 x0.5x100	7SE-052	7SG-052	7SL-052	7SO-052	7SP-052	7,00	7SB-052	7SW-052	7SR-052	6,20
4 x0.5x100	7SE-054	7SG-054	7SL-054	7SO-054	7SP-054	14,00	7SB-054	7SW-054	7SR-054	12,50
6 x0.5x100	7SE-056	7SG-056	7SL-056	7SO-056	7SP-056	21,20	7SB-056	7SW-056	7SR-056	19,5
10x0.5x100	7SE-0510	7SG-0510	7SL-0510	7SO-0510	7SP-0510	28,00	7SB-0510	7SW-0510	7SR-0510	25,1
1 x0.8x100	7SE-081	7SG-081	7SL-081	7SO-081	7SP-081	7,00	7SB-081	7SW-081	7SR-081	6,20
2 x0.8x100	7SE-084	7SG-084	7SL-084	7SO-084	7SP-084	7,00	7SB-084	7SW-084	7SR-084	6,20
4 x0.8x100	7SE-084	7SG-084	7SL-084	7SO-084	7SP-084	14,00	7SB-084	7SW-084	7SR-084	12,50
6 x0.8x100	7SE-086	7SG-086	7SL-086	7SO-086	7SP-086	21,20	7SB-086	7SW-086	7SR-086	19,5
10x0.8x100	7SE-0810	7SG-0810	7SL-0810	7SO-0810	7SP-0810	28,00	7SB-0810	7SW-0810	7SR-0810	25,1
1 x1.0x100	7SE-101	7SG-101	7SL-101	7SO-101	7SP-101	7,00	7SB-101	7SW-101	7SR-101	6,20
2 x1.0x100	7SE-102	7SG-102	7SL-102	7SO-102	7SP-102	7,00	7SB-102	7SW-102	7SR-102	6,20
4 x1.0x100	7SE-104	7SG-104	7SL-104	7SO-104	7SP-104	14,00	7SB-104	7SW-104	7SR-104	12,50
6 x1.0x100	7SE-106	7SG-106	7SL-106	7SO-106	7SP-106	21,20	7SB-106	7SW-106	7SR-106	19,5
10x1.0x100	7SE-110	7SG-110	7SL-110	7SO-110	7SP-110	28,00	7SB-110	7SW-110	7SR-110	25,1
1 x1.5x100	7SE-151	7SG-151	7SL-151	7SO-151	7SP-151	10,40	7SB-151	7SW-151	7SR-151	9,30
2 x1.5x100	7SE-152	7SG-152	7SL-152	7SO-152	7SP-152	10,40	7SB-152	7SW-152	7SR-152	9,30
4 x1.5x100	7SE-154	7SG-154	7SL-154	7SO-154	7SP-154	21,00	7SB-154	7SW-154	7SR-154	19,00
6 x1.5x100	7SE-156	7SG-156	7SL-156	7SO-156	7SP-156	31,60	7SB-156	7SW-156	7SR-156	29,00
10x1.5x100	7SE-1510	7SG-1510	7SL-1510	7SO-1510	7SP-1510	42,00	7SB-1510	7SW-1510	7SR-1510	37,60
2 x2.0x100	7SE-202	7SG-202	7SL-202	7SO-202	7SP-202	14,00	7SB-202	7SW-202	7SR-202	12,50
4 x2.0x100	7SE-204	7SG-204	7SL-204	7SO-204	7SP-204	28,00	7SB-204	7SW-204	7SR-204	25,10
6 x2.0x100	7SE-206	7SG-206	7SL-206	7SO-206	7SP-206	42,20	7SB-206	7SW-206	7SR-206	38,50
10x2.0x100	7SE-210	7SG-210	7SL-210	7SO-210	7SP-210	56,00	7SB-210	7SW-210	7SR-210	50,50
1 x3.0x100	7SE-301	7SG-301	7SL-301	7SO-301	7SP-301	21,00	7SB-301	7SW-301	7SR-301	19,00
2 x3.0x100	7SE-302	7SG-302	7SL-302	7SO-302	7SP-302	21,00	7SB-302	7SW-302	7SR-302	19,00
4 x3.0x100	7SE-304	7SG-304	7SL-304	7SO-304	7SP-304	42,00	7SB-304	7SW-304	7SR-304	37,60
6 x3.0x100	7SE-306	7SG-306	7SL-306	7SO-306	7SP-306	64,00	7SB-306	7SW-306	7SR-306	57,50
10x3.0x100	7SE-310	7SG-310	7SL-310	7SO-310	7SP-310	83,10	7SB-310	7SW-310	7SR-310	75,50
1 x0.5x150	7SE-051B	7SG-051B	7SL-051B	7SO-051B	7SP-051B	10,50	7SB-051B	7SW-051B	7SR-051B	9,30
2 x0.5x150	7SE-052B	7SG-052B	7SL-052B	7SO-052B	7SP-052B	10,50	7SB-052B	7SW-052B	7SR-052B	9,30
4 x0.5x150	7SE-054B	7SG-054B	7SL-054B	7SO-054B	7SP-054B	21,00	7SB-054B	7SW-054B	7SR-054B	18,50
6 x0.5x150	7SE-056B	7SG-056B	7SL-056B	7SO-056B	7SP-056B	31,00	7SB-056B	7SW-056B	7SR-056B	28,00
10x0.5x150	7SE-0510B	7SG-0510B	7SL-0510B	7SO-0510B	7SP-0510B	41,00	7SB-0510B	7SW-0510B	7SR-0510B	37,00
1 x0.8x150	7SE-081B	7SG-081B	7SL-081B	7SO-081B	7SP-081B	10,50	7SB-081B	7SW-081B	7SR-081B	9,30
2 x0.8x150	7SE-084B	7SG-084B	7SL-084B	7SO-084B	7SP-084B	10,50	7SB-084B	7SW-084B	7SR-084B	9,30
4 x0.8x150	7SE-084B	7SG-084B	7SL-084B	7SO-084B	7SP-084B	21,00	7SB-084B	7SW-084B	7SR-084B	18,50
6 x0.8x150	7SE-086B	7SG-086B	7SL-086B	7SO-086B	7SP-086B	31,10	7SB-086B	7SW-086B	7SR-086B	28,00
10x0.8x150	7SE-0810B	7SG-0810B	7SL-0810B	7SO-0810B	7SP-0810B	41,00	7SB-0810B	7SW-0810B	7SR-0810B	37,00
1 x1.0x150	7SE-101B	7SG-101B	7SL-101B	7SO-101B	7SP-101B	10,10	7SB-101B	7SW-101B	7SR-101B	9,30
2 x1.0x150	7SE-102B	7SG-102B	7SL-102B	7SO-102B	7SP-102B	10,10	7SB-102B	7SW-102B	7SR-102B	9,30
4 x1.0x150	7SE-104B	7SG-104B	7SL-104B	7SO-104B	7SP-104B	21,00	7SB-104B	7SW-104B	7SR-104B	18,50
6 x1.0x150	7SE-106B	7SG-106B	7SL-106B	7SO-106B	7SP-106B	31,10	7SB-106B	7SW-106B	7SR-106B	28,00
10x1.0x150	7SE-110B	7SG-110B	7SL-110B	7SO-110B	7SP-110B	41,00	7SB-110B	7SW-110B	7SR-110B	37,00
1 x1.5x150	7SE-151B	7SG-151B	7SL-151B	7SO-151B	7SP-151B	15,50	7SB-151B	7SW-151B	7SR-151B	14,00
2 x1.5x150	7SE-152B	7SG-152B	7SL-152B	7SO-152B	7SP-152B	15,50	7SB-152B	7SW-152B	7SR-152B	14,00
4 x1.5x150	7SE-154B	7SG-154B	7SL-154B	7SO-154B	7SP-154B	31,00	7SB-154B	7SW-154B	7SR-154B	28,00
6 x1.5x150	7SE-156B	7SG-156B	7SL-156B	7SO-156B	7SP-156B	46,00	7SB-156B	7SW-156B	7SR-156B	42,00
10x1.5x150	7SE-1510B	7SG-1510B	7SL-1510B	7SO-1510B	7SP-1510B	61,50	7SB-1510B	7SW-1510B	7SR-1510B	55,50
2 x2.0x150	7SE-202B	7SG-202B	7SL-202B	7SO-202B	7SP-202B	21,00	7SB-202B	7SW-202B	7SR-202B	18,50
4 x2.0x150	7SE-204B	7SG-204B	7SL-204B	7SO-204B	7SP-204B	41,00	7SB-204B	7SW-204B	7SR-204B	37,00
6 x2.0x150	7SE-206B	7SG-206B	7SL-206B	7SO-206B	7SP-206B	62,10	7SB-206B	7SW-206B	7SR-206B	55,50
10x2.0x150	7SE-210B	7SG-210B	7SL-210B	7SO-210B	7SP-210B	82,00	7SB-210B	7SW-210B	7SR-210B	74,00
1 x3.0x150	7SE-301B	7SG-301B	7SL-301B	7SO-301B	7SP-301B	31,00	7SB-301B	7SW-301B	7SR-301B	28,00
2 x3.0x150	7SE-302B	7SG-302B	7SL-302B	7SO-302B	7SP-302B	31,00	7SB-302B	7SW-302B	7SR-302B	28,00
4 x3.0x150	7SE-304B	7SG-304B	7SL-304B	7SO-304B	7SP-304B	62,00	7SB-304B	7SW-304B	7SR-304B	55,50
6 x3.0x150	7SE-306B	7SG-306B	7SL-306B	7SO-306B	7SP-306B	93,50	7SB-306B	7SW-306B	7SR-306B	83,10
10x3.0x150	7SE-310B	7SG-310B	7SL-310B	7SO-310B	7SP-310B	123,00	7SB-310B	7SW-310B	7SR-310B	111,00

Bastoncini in Fibro Ceramica per Lucidatura

Fiber Ceramic Grinder Stone

TIPO TONDO - ROUND STANDARD TYPE										
SIZE Ømm	Smeraldo Emerald	Oro Gold	Marrone Chiario Light Brown	Arancione Orange	Marrone Brown	€URO	Blue	Bianco White	Rosso Red	€URO
GRIT	#120	#180	#300	#400	#600		#800	#1000	#1200	
2.35 x 50	7SED-23A	7SGD-23A	7SLD-23A	7SOD-23A	7SPD-23A	14,50	7SBD-23A	7SWD-23A	7SRD-23A	13,00
3.00 x 50	7SED-3A	7SGD-3A	7SLD-3A	7SOD-3A	7SPD-3A	14,50	7SBD-3A	7SWD-3A	7SRD-3A	13,00
3.17 x 50	7SED-31A	7SGD-31A	7SLD-31A	7SOD-31A	7SPD-31A	17,10	7SBD-31A	7SWD-31A	7SRD-31A	15,60
2.35 x 100	7SED-23B	7SGD-23B	7SLD-23B	7SOD-23B	7SPD-23B	28,50	7SBD-23B	7SWD-23B	7SRD-23B	26,00
3.00 x 100	7SED-3B	7SGD-3B	7SLD-3B	7SOD-3B	7SPD-3B	28,50	7SBD-3B	7SWD-3B	7SRD-3B	26,00
3.17 x 100	7SED-31B	7SGD-31B	7SLD-31B	7SOD-31B	7SPD-31B	34,20	7SBD-31B	7SWD-31B	7SRD-31B	31,00

Porta Bastoncini

Fiber Ceramic Stone Holder

CODE	Capacità Mandrino Holder Range mm	Tipo di Mandrino - Tool Holder Shape	€URO
7SH-03	0.3 x 0.3		14.00
7SH-05	0.5 x 0.5 & Ø0.9		14.00
7SH-07	0.7 x 0.7 & Ø0.9		14.00
7SH-09	0.9 x 0.9 & Ø1.3		14.00
7SH-14	1.4 x 1.4 & Ø2-2.35		14.00
7SH-3B	Ø3		14.00
7SH-1	1		8.20
7SH-2	2		8.20
7SH-4	4		8.20
7SH-6	6		8.20
7SH-10	10		8.20

Paste Diamantate in Siringhe da 5gr.

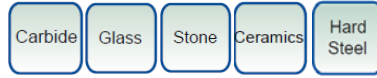
Syringes Diamond Compound 5gr.



CODE	GRIT Micron Size	MESH SIZE	COLOR	Applicazione Application	€URO
XP-S05	0.5	28,000	Grigio - Grey	Lappatura a Specchio - Mirror Lapping	25.00
XP-S10	1.0	14,000	Bianco - White	Lappatura a Specchio - Mirror Lapping	25.00
XP-S30	3.0	8,000	Giallo - Yellow	Lappatura - Lapping	28.00
XP-S45	4.5	5,000	Marrone Chiaro Light Brown	Lappatura - Lapping	28.00
XP-S60	6.0	3,000	Arancione - Orange	Lappatura - Lapping	31.00
XP-S80	8.0	2,000	Lilla - Lilac	Lappatura - Lapping	31.00
XP-S90	9.0	1,800	Verde - Green	Finitura - Finishing	31.00
XP-S13	13.0	1,500	Rosa - Pink	Finitura - Finishing	31.00
XP-S15	15.0	1,200	Blue	Pre-Finitura Pre- Finishing	31.00
XP-S18	17.5	1,000	Verde Scuro Dark Green	Pre-Finitura Pre- Finishing	31.00
XP-S25	25.0	800	Marrone - Brown	Pre-Finitura Pre- Finishing	31.00
XP-S35	35.0	600	Rosso - Red	Media Finitura- Sgrossatura Medium Finishing-Roughing	31.00
XP-S50	50.0	400	Prugna - Purple	Sgrossatura - Roughing	34.00
XP-S90	90.0	200	Nero - Black	Sgrossatura - Roughing	37.00

Fogli Diamantati

Diamond Foils



GRIT	CODE	EURO	CODE	EURO	CODE	EURO
	10x100		50x100		100x100	
120	XP-10100.012	10,00	XP-50100.012	55,00	XP-100100.012	110,00
150	XP-10100.015	10,00	XP-50100.015	47,00	XP-100100.015	95,00
200	XP-10100.020	10,00	XP-50100.020	47,00	XP-100100.020	95,00
300	XP-10100.030	10,00	XP-50100.030	47,00	XP-100100.030	95,00
400	XP-10100.040	7,00	XP-50100.040	33,00	XP-100100.040	66,00
600	XP-10100.060	7,00	XP-50100.060	33,00	XP-100100.060	66,00
800	XP-10100.080	7,00	XP-50100.080	33,00	XP-100100.080	66,00
1200	XP-10100.120	7,00	XP-50100.120	33,00	XP-100100.120	66,00
1800	XP-10100.180	7,00	XP-50100.180	33,00	XP-100100.180	66,00

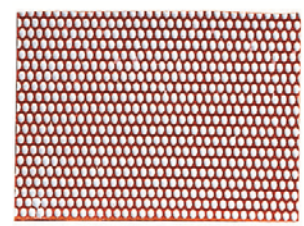


Fogli di Tela Diamantati

Diamond Cloth Foils

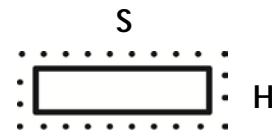


GRIT	CODE	EURO	CODE	EURO	CODE	EURO	CODE	EURO
	50 X 100		100 X 100		1170 X 295		690 X 295	
60 (Ni)	XT50-0060	86,00	XT100-0060	180,00	XT117-0060	4600,00	-	-
120 (Ni)	XT50-0120	70,00	XT100-0120	140,00	XT117-0120	3591,00	-	-
200 (Ni)	XT50-0200	55,00	XT100-0200	110,00	XT117-0200	2759,00	-	-
400 (Ni)	XT50-0400	45,00	XT100-0400	92,00	XT117-0400	2314,00	-	-
600 (Ni)	XT50-0600	45,00	XT100-0600	92,00	XT117-0600	2314,00	-	-
800 (Resin)	XT50-0800	32,00	XT100-0800	65,00	-	-	XT690-0800	885,00
1500 (Resin)	XT50-0500	32,00	XT100-0500	65,00	XT117-0500	-	XT690-0500	885,00
3000 (Resin)	XT51-1000	32,00	XT101-1000	65,00	XT118-1000	-	XT690-1000	885,00



Pietre per Lucidatura ad Olio

Oil Polishing Stone



MIN. ORDINE: 100 PZ. CAD. - MIN. ORDER: 100 PCS. EACH

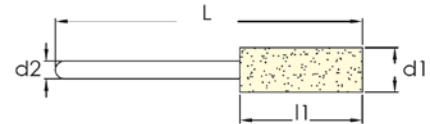
CODE	CODE	SHAPE	H mm	S mm	I1 mm	I2 mm	L mm	EURO		
								120-180 220-320	400-600	800-1000
XP160.016	XP161.016		1,6	13	-	-	150	2,80	3,10	3,50
XP160.030	XP161.030		3	6	-	-	150	2,80	3,10	3,50
XP160.031	XP161.031		3	13	-	-	150	2,80	3,10	3,50
XP160.060	XP161.060		6	13	-	-	150	3,10	3,50	3,80
XP160.032	XP161.032		3	25	-	-	150	3,50	3,80	4,20
XP160.061	XP161.061		6	25	-	-	150	4,60	5,80	6,50
XP160.062	XP161.062		6	6	-	-	150	2,80	3,10	3,50
XP160.100	XP161.100		10	10	-	-	150	4,60	5,70	6,50
XP160.130	XP161.130		13	13	-	-	150	5,70	6,50	7,80
XP160.063	XP161.063		6	-	-	-	150	4,60	5,40	5,80
XP160.064	XP161.064		6	-	-	-	150	4,60	5,40	5,80
XP160.065	XP161.065		6	-	-	-	150	4,60	5,40	5,80



Specifica per lucidatura dopo operazioni di Elettroerosione
 Specific tool polishing after EDM processing

Specifica per lappatura dopo lavorazioni meccaniche
 Specific tool lapping after machining process

Molette Elastiche Elastic Mounted Point

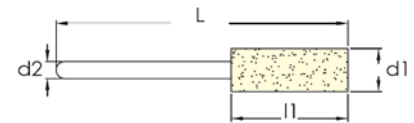


MIN. ORDINE: 100 PZ. CAD. - MIN. ORDER: 100 PCS. EACH

CODE	RESINOIDE RESINOID	d1 mm	d2 mm	l1 mm	L mm	GRIT	€URO
XP162.40		4,0	3	13	50	120	2,50
XP162.50		5,0	3	15	50	120	2,50
XP162.60		6,0	3	17	50	120	2,50
XP162.80		8,0	3	20	50	120	2,50
XP162.10		10,0	3	20	50	120	2,50
CODE	GOMMA RUBBERIZE	d1 mm	d2 mm	l1 mm	L mm	GRIT	€URO
XP162.41		4,0	3	13	50	120	2,50
XP162.51		5,0	3	15	50	120	2,50
XP162.61		6,0	3	17	50	120	2,50
XP162.81		8,0	3	20	50	120	2,50
XP162.11		10,0	3	20	50	120	2,50



Molette Abrasive Gambo Ø3mm Abrasive Mounted Points Shank Ø3mm



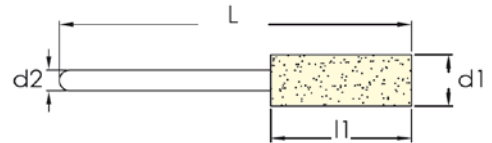
CODE		SHAPE	d1 mm	d2 mm	l1 mm	l2 mm	L mm	€URO	
ROSA PINK	RUBINO RUBY							ROSA PINK	RUBINO RUBY
XP163.B25	XP164.B25		2,5	3	2,5	-	45	0,90	
XP163.B03	XP164.B03		3	3	8	-	45		
XP163.B04	XP164.B04		4	3	10	-	45		
XP163.B05	XP164.B05		5	3	10	-	45		
XP163.B06	XP164.B06		6	3	12	-	45		
XP163.B08	XP164.B08		8	3	16	-	45		
XP163.B10	XP164.B10		10	3	16	-	45		
XP163.H03	XP164.H03		3	3	8	-	45	0,90	
XP163.H30	XP164.H30		3	3	10	-	45		
XP163.H04	XP164.H04		4	3	12	-	45		
XP163.H07	XP164.H07		7	3	10	-	45		
XP163.D03	XP164.D03		3	3	-	-	45	0,90	
XP163.D04	XP164.D04		4	3	-	-	45		
XP163.D05	XP164.D05		5	3	-	-	45		
XP163.D06	XP164.D06		6	3	-	-	45		
XP163.D08	XP164.D08		8	3	-	-	45		
XP163.D10	XP164.D10		10	3	-	-	45		
XP163.D12	XP164.D12		12	3	-	-	45		
XP163.G04	XP164.G04		4	3	12	-	45	0,90	
XP163.G06	XP164.G06		6	3	16	-	45		
XP163.G08	XP164.G08		8	3	16	-	45		
XP163.G10	XP164.G10		10	3	16	-	45		
XP163.L08	XP164.L08		8	3	13	-	45	0,90	
XP163.L12	XP164.L12		12	3	24	-	45		
XP163.M06	XP164.M06		6	3	12	-	45	0,90	
XP163.M08	XP164.M08		8	3	15	-	45		
XP163.M10	XP164.M10		10	3	18	-	45		
XP163.C03	XP164.C03		3	3	6	-	45	0,90	
XP163.C04	XP164.C04		4	3	12	-	45		
XP163.C05	XP164.C05		5	3	15	-	45		
XP163.C08	XP164.C08		8	3	16	-	45		
XP163.J06	XP164.J06		6	3	9	-	45	0,90	
XP163.Y13	XP164.Y13		13	3	2	-	45	0,90	
XP163.Y14	XP164.Y14		13	3	3	-	45		
XP163.Y16	XP164.Y16		16	3	2	-	45		
XP163.Y17	XP164.Y17		16	3	3	-	45		



A richiesta gambo Ø2,35-3,17mm
Shank Ø2,35-3,17mm on Demand

Molette in Feltro Gambo Ø3mm

Felt Bobs Shank Ø3mm

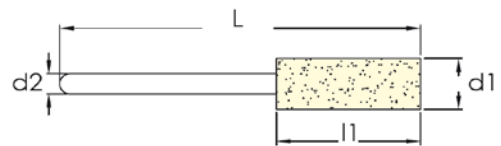


CODE	SHAPE	d1 mm	d2 mm	l1 mm	L mm	€URO
XP165.B04		4	3	8	45	2,00
XP165.B05		5	3	9	45	2,00
XP165.B06		6	3	10	45	2,00
XP165.B08		8	3	10	45	2,00
XP165.B10		10	3	14	45	2,20
XP165.B12		12	3	20	50	2,70
XP165.B15		15	3	20	50	2,70
XP165.B16		20	3	20	50	4,50
XP165.C04		4	3	8	45	2,00
XP165.C05		5	3	9	45	2,00
XP165.C06		6	3	10	45	2,00
XP165.C08		8	3	10	45	2,00
XP165.C10		10	3	13	50	2,20
XP165.C12		12	3	14	50	2,70
XP165.C13		12	3	20	50	4,00
XP165.D08		8	3	-	45	2,00
XP165.D10		10	3	-	50	2,20
XP165.D12		12	3	-	50	2,70
XP165.D18		18	3	-	50	3,60
XP165.G04		4	3	10	45	2,00
XP165.G05		5	3	12	45	2,00
XP165.G06		6	3	16	45	2,00
XP165.G08		8	3	17	45	2,00
XP165.G10		10	3	14	50	2,20
XP165.G11		10	3	20	50	2,70
XP165.G12		12	3	20	50	2,40
XP165.G13		12	3	25	50	4,00
XP165.L10		10	3	14	50	2,20
XP165.L12		12	3	25	50	4,00
XP165.H12		12	3	12	50	2,70
XP165.J06		6	3	10	45	2,00
XP165.J08		8	3	14	45	2,40
XP165.J10		10	3	14	50	2,40
XP165.J12		12	3	20	50	4,00
XP165.K12		12	3	18	50	2,40



Molette in Feltro Gambo Ø6mm

Felt Bobs Shank Ø6mm

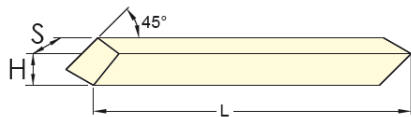


CODE	SHAPE	d1 mm	d2 mm	l1 mm	L mm	€URO
XP166.B04		12	6	25	65	3,00
XP166.B05		15	6	25	65	3,80
XP166.B06		20	6	25	65	5,30
XP166.B08		25	6	30	65	6,70
XP166.C15		15	6	20	65	3,80
XP166.C20		20	6	25	65	5,30
XP166.C25		25	6	30	65	6,70
XP166.G15		15	6	25	65	3,80
XP166.G20		20	6	25	65	5,30
XP166.G25		25	6	30	65	6,70
XP166.T32		32	6	8	65	8,10
XP166.T40		40	6	9,6	65	8,10



Barrette Quadre in Feltro

Square Felt

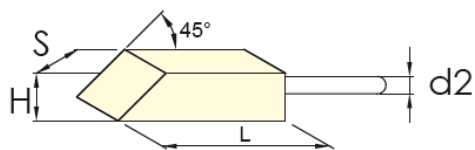


CODE	SHAPE	S mm	H mm	L mm	EURO
XPSQ0606		6	6	100	13,70
XPSQ1010		10	10	100	21,00



Barrette Quadre in Feltro con Gambo Ø3mm

Square Felt with Shank Ø3mm

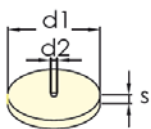


CODE	SHAPE	d2 mm	S mm	H mm	L mm	EURO
XPSQ0606.3		3	6	6	25	7,00
XPSQ1010.3		3	10	10	35	10,20
XPSQ1212.3		3	12	12	45	13,80



Dischetti in Feltro

Felt Disk



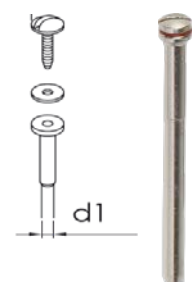
CODE	d1 mm	d2 mm	S mm	H mm	L mm	EURO
XPC25.3	25	1,7	3	-	-	2,50
XPC25.4	25	1,7	4	-	-	2,50
XPC25.5	25	1,7	5	-	-	2,50



Mandrini

Holder

CODE	Ø SCREW mm	d1 mm	EURO
XP154M.234	1,7	2,34	1,70
XP154M.300	1,7	3	1,70
XP154M.317	1,7	3,17	1,70



Polishing Machines



Serie G7: Generatori di Potenza – Power Controller Series



- Velocità variabile controllata tramite micro computer. Garantisce un miglior controllo della coppia a secondo del motore utilizzato.
- Velocità di rotazione costante sotto sforzo.
- Dispositivo termico di protezione per sovraccarico di corrente dovuta a pressione eccessiva dell'utensile sul pezzo durante la lavorazione
- E' possibile collegare anche i motori del vecchio modello (UM132 - UM142 etc.). In questo caso però non viene gestito il controllo velocità.
- Ricerca automatica del motore sull'uscita A o B.
- Indicazione digitale per la regolazione del numero dei giri.
- Il generatore G7 verifica costantemente le condizioni dei motori e del generatore stesso. Viene azionata automaticamente la ventola di raffreddamento interna per ridurre la temperatura.
- E' possibile utilizzare il pedale (optional) per fissare la velocità desiderata.

E' necessario utilizzare l'adattatore KE50-156 quando si collegano i vecchi apparecchi utilizzati per il modello UC500
Adapter KE50-156 is necessary when connecting to existing controller UC500

- Variable speed control by microcomputer. It provides better torque control according to the motor used.
- Constant rotation speed under load.
 - Thermal protection device for current overload due to excessive pressure of the tool on the workpiece.
 - It is possible to connect the old type (UM132 - UM142, etc.). IRotation speed and error are not displayed when using old motor.
 - Automatic motor output A or B.
 - Digital indication for adjusting the number of revolutions.
 - The controller G7 constantly monitors the condition of the motor and the controller. It is driven automatically the internal cooling fan to reduce the temperature.
 - Can be used the foot switch (optional) to set the desired speed.

CODE	Volt	Imput	Peso Kg.	Dimensions mm	EURO
UC-901	120	AC120V 60Hz	2,3	200LX110HX180S	550.00
UC-903	230	AC230V 50Hz	2,3	200LX110HX180S	550.00
VC90	FOOT CONTROL (Optional)				85.00

UG42A Manipolo ad Elevata Coppia - High Torque Handpiece

CODE	Giri RPM	Coppia Torque	Peso Weight	Dimensions mm	EURO
	Min'	N/cm	Gr.	Ø Max. X L	
UG42A	1.000-20.000	6,4	220	28 X 157	680.00



UG43A Manipolo alta Velocità - Speed Type Handpiece

CODE	Giri RPM	Coppia Torque	Peso Weight	Dimensions mm	EURO
	Min'	N/cm	Gr.	Ø Max. X L	
UG43A	1.000-35.000	5,4	220	28 X 157	680.00



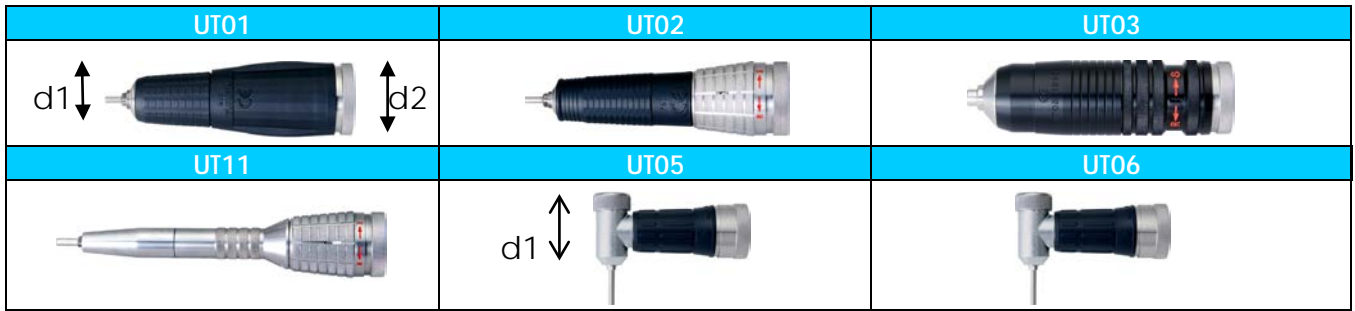
Pinze in Dotazione - Standard Collet

CODICE FORNITO CODE INCLUDED	CODE OPTIONAL	Ø mm	EURO
KP-036B	-	2,34	45.00
KP-032B	-	3	45.00
-	KP-033B	3,175	45.00

- Le smerigliatrici sono fornite con pinza Ø 2,34 & 3,0mm.
- The Handle machines are supply with collet Ø 2,35 & 3,0mm

- **PROTEZIONE DALLA POLVERE:** costruiti con un nuovo meccanismo che protegge i cuscinetti aumentandone la durata.
- **ALTA PRECISIONE:** diminuzione della vibrazione dell'albero che è inferiore di 0.02mm.
- **CAMBIO UTENSILE RAPIDO:** Aperura e chiusura della pinza ruotando semplicemente la ghiera.
- **INTERRUTTORE A MANO:** non è più necessario premere il pulsante sul generatore. I manipoli sono dotati di pulsante per l'accensione e lo spegnimento.
- **SICUREZZA:** Ergonomico, leggero e a norma CE. Risulta confortevole anche dopo molte ore di lavoro. Il rivestimento della ghiera in silicone riduce lo scivolamento.

- **DUST COVER:** made with a new mechanism that protects the bearings extending its lifetime.
- **PRECISION:** reduction of vibration of the tree that is less than 0.02mm.
- **QUICK CHANGE TOOL:** Opening and closing the clamp by simply turning the dial.
- **SWITCH HAND:** you no longer need to press the button on the controller. The handpieces are equipped with a button for switching ON-OFF.
- **SAFETY:** Ergonomic, lightweight and CE. It is comfortable even after long hours of work. The silicon coating ring reduces slipping.



CODE	Pinze in Dotazione - Standard Collet			
	CODICE FORNITO CODE INCLUDED	CODE OPTIONAL	Ø mm	€URO
UT01 UT02	KB-036B	-	2,34	45,00
	KB-032B	-	3,00	45,00
UT03	-	KP-033B	3,17	45,00
	KP-060A	-	6,00	45,00
	KP-062A	-	3,00	45,00
	-	KP-061A	2,34	45,00
	-	KP-063A	3,17	45,00
UT05	-	KP-064A	6,35	45,00
	KP-022	-	3,00	45,00
	KP-021	-	2,34	45,00
	-	KP-025	3,17	45,00
UT06 UT07	KP-032B	-	3,00	45,00
	KP-036B	-	2,34	45,00
	-	KP-033B	3,17	45,00
UT11	KP-032B	-	3,00	45,00
	KP-036B	-	2,34	45,00
	-	KP-033B	3,17	45,00

CODE	d1 Min mm	d2 Max mm	L.Tot mm	Peso Weight Gr.	€URO
UT01	17,0	27,2	88,0	115	310.00
UT02	13,0	25,2	86,5	100	310.00
UT03	26,0	26,4	95,0	150	495.00
UT05	33,0	25,4	73,0	100	450.00
UT06	45,5	25,4	80,5	200	450.00
UT07	47,5	25,4	89,5	210	575.00
UT11	8,0	25,8	121,0	120	530.00
UT15	-	26	43,5	100	315.00

Motori - Motors

CODE	Giri RPM	Coppia Torque	Peso Weight	Dimensioni Dimensions	€URO
	Min'	N/cm	Gr.	Ø X L (mm)	
UM20A	1.000-8.000	9,8	176	31,5 X 89,3	430.00
UM21A	1.000-15.000	8,8	176	31,5 X 89,3	430.00
UM23A	1.000-30.000	6,8	176	31,5 X 89,3	520.00
UM12A	1.000-20.000	6,4	120	27,5 X 77	420.00
UM13A	1.000-35.000	5,4	120	27,5 X 77	485.00
UM14A	2.000-45.000	6,0	120	27,5 X 77	495.00
UM05A	2.000-55.000	3,6	90	27,5 X 66,5	495.00

TESTINE HEAD	MOTORI - MOTORS (min)						
	UM20A 8.000	UM21A 15.000	UM23A 30.000	UM12A 20.000	UM13A 35.000	UM14A 45.000	UM05A 55.000
UT01	YES	YES	YES	YES	YES		
UT02	YES	YES	YES	YES	YES	YES	YES
UT03	YES	YES	YES	YES			
UT05	YES	YES	SOLO CON UT15 ONLY WITH UT15				
UT06	YES	YES					
UT07	YES	YES					
UT11	YES	YES	YES	YES	YES	YES	YES
UT15	YES	YES	YES	YES			

UM20A-UM21A-UM23A Alta Potenza - High Power



UM05A Alta velocità High Speed



UT15 Riduttore Velocità per Testine ad Angolo Reduction Joint for Angle Head



Sistema ad Ultrasuoni – Ultrasonic System



- | | |
|---|--|
| <ul style="list-style-type: none"> •Incorpora un sistema elettronico automatico per la scelta della frequenza in funzione del tipo di apparecchio utilizzato. •Al generatore UC550 può essere collegato sia il manipolo ad ultrasuoni che gli apparecchi rotativi, la limatrice meccanica e la levigatrice a nastro. •Velocità variabile controllata. •Velocità di rotazione costante sotto sforzo con inserimento automatico del circuito di compensazione. •Fusibile di protezione sul circuito primario di alimentazione a corrente continua •Sensore termico che interrompe temporaneamente la corrente nell'eventualità di surriscaldamento del circuito •Dispositivo termico di protezione per sovraccarico di corrente dovuta a pressione eccessiva dell'utensile sul pezzo lavorato. •Variatore a pedale per il controllo della velocità (VC10) e interruttore a pedale ON/OFF (FS18) sono opzionali. | <ul style="list-style-type: none"> •Incorporates automatic electronic system for the selection of the Frequency range depending on the type of apparatus used. •On the UC550 generator can be connected the ultrasonic handpiece, the rotary devices, the recipro and belt sander. •Variable speed control. •Rotation speed constant under load with automatic compensation circuit. •Protection fuse on the primary side of the DC power •Temperature sensor that pauses the current in the event of overheat the circuit. •Thermal protection device for current overload due to excessive pressure of the tool on the workpiece. •Foot control for speed control (VC10) and foot switch ON-OFF (FS18) are optional. |
|---|--|

CODE	Input Volt	Output Volt	Peso - Weight Kg.	Dimensioni Dimensions	€URO
UC550	AC120-220-240, 50-60Hz	AC90, 22,6Hz	2,6	170LX110HX195S mm	1300.00
VC60	VARIATORE A PEDALE - VARIABLE FOOT CONTROL (Optional)				90.00
FS18	INTERRUTTORE A PEDALE - ON/OFF FOOT CONTROL (Optional)				50.00

US55 Manipolo ad Ultrasuoni - Ultrasonic Handpiece

CODE	Ampiezza Vibrazione Stroke Amplitude	Peso Weight	Dimensioni Dimensions	€URO
	µm			
US55	45	180	29 X 139	1500.00

Mandrini in Dotazione - Standard Holder

TIPO PIATTO - FLAT TYPE					TIPO TONDO - ROUND TYPE				
CODE INCLUDED	CODE OPTIONAL	T mm	SHANK	€URO	CODE INCLUDED	CODE OPTIONAL	Ø mm	SHANK	€URO
U7103	-	2	M6X1	67,00	-	U7101	2,5	M6X1	50,00
-	U7104	3	M6X1	67,00	U7102	-	3,2	M6X1	50,00



UC500 Generatore di Potenza - Power Controller Series



- Al generatore UC500 non può essere collegato il manipolo ad ultrasuoni US55 ma solo gli apparecchi rotativi, la limatrice meccanica e la levigatrice a nastro.
- Velocità variabile controllata.
- Velocità di rotazione costante sotto sforzo con inserimento automatico del circuito di compensazione.
- Fusibile di protezione sul circuito primario di alimentazione a corrente continua.
- Fusibile termico sul trasformatore per protezione contro surriscaldamento.
- Sensore termico che interrompe temporaneamente la corrente nell'eventualità di surriscaldamento del circuito.
- Dispositivo termico di protezione per sovraccarico di corrente dovuta a pressione eccessiva dell'utensile sul pezzo lavorato.
- Variatore a pedale per il controllo della velocità (VC10) e interruttore a pedale ON/OFF (FS18) sono opzionali.

- On the UC500 generator cannot be connected the ultrasonic handpiece US55 but only rotary devices, the reciprocating and belt sander.
- Variable speed control.
- Rotation speed constant under load with automatic compensation circuit.
- Protection fuse on the primary circuit of DC power.
- Thermal fuse on the transformer for protection against overheating.
- Temperature sensor that pauses the current in the event of circuit overheating.
- Thermal protection device for current overload due to excessive pressure of the tool on the workpiece.
- Foot control for speed control (VC10) and foot switch ON/OFF (FS18) are optional.

CODE	Volt	Input	Peso Kg.	Dimensioni Dimensions	€URO
UC500	100	AC100V 50-60Hz 30va	2,0	170LX110HX195S mm	460.00
VC60	VARIATORE A PEDALE - VARIABLE FOOT CONTROL (Optional)				90.00
FS18	INTERRUTTORE A PEDALE - ON/OFF FOOT CONTROL (Optional)				50.00

UA12A - UA13A - UA14A Manipolo Rotativo - Rotary Handpiece

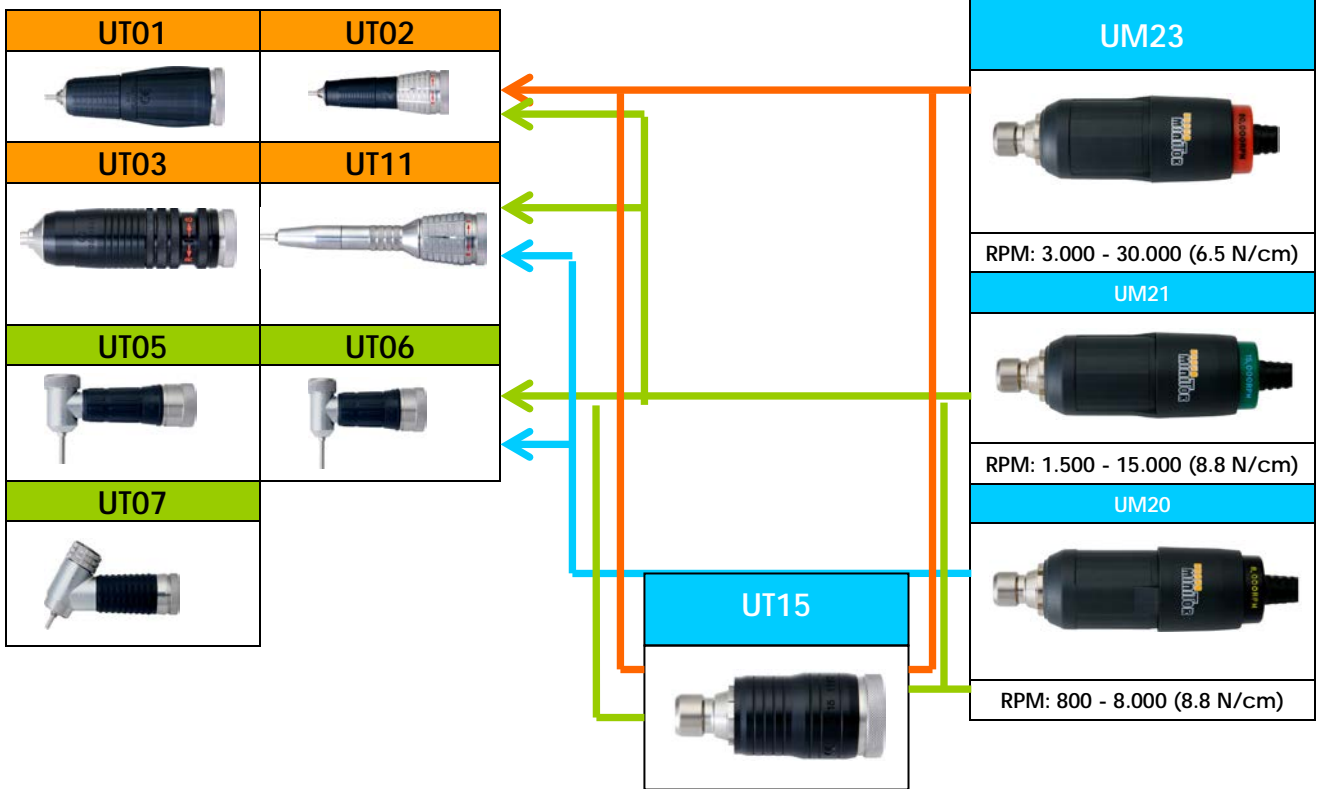
CODE	Giri RPM	Coppia Torque	Peso Weight	Dimensioni Dimensions mm	€URO
	Min'	N/cm	Gr.	Ø Max. X L	
UA12A	2.000-20.000	6,5	175	27,5 X 144,5	530.00
UA13A	3.500-35.000	5,4	175	27,5 X 144,5	540.00
UA14A	4.500-45.000	4,1	175	27,5 X 144,5	690.00

Pinze in dotazione - Standard Collet			
Standard	Optional	Ø mm	€URO
KP-036B	-	2,34	45.00
KP-032B	-	3,0	45.00
-	KP-033B	3,175	45.00

Motore e testina non sono intercambiabili
The head and Motor are not interchangeable

Motori - Motors

CODE	Giri RPM	Coppia Torque	Peso Weight	Dimensioni Dimensions	€URO
	Min'	N/cm	Gr.	Ø X L mm	
UM23	1.000-8.000	9,8	170	31,6 X 80	525.00
UM21	1.000-15.000	8,8	170	31,6 X 80	440.00
UM20	1.000-30.000	6,8	170	31,6 X 80	430.00



Limatrici a Moto Rettilineo - Recipro

CODE	Frequency	Oscillazione	Peso	Dimensioni	EURO
	Strokes/min	Stroke	Weight	Dimensions	
RE35	420 - 4.200	0 - 6	675	140 X 128	1065.00
RE55	700 - 7.000	0 - 2	675	140 X 128	1065.00



- | | |
|--|--|
| <ul style="list-style-type: none"> • Movimento alternato • Il mandrino utilizza utensili con gambo da Ø2 a Ø6,35mm • Nella testata è alloggiato il meccanismo per una semplice regolazione della corsa da 0 a 6mm a mezzo di ghiera di regolazione graduata. • Sistema di autoventilazione incorporato | <ul style="list-style-type: none"> • Seesaw • The spindle uses tools with shank Ø2 to Ø6,35mm • In the head is housed the mechanism for a simple adjustment of the stroke of 0 to 6mm to means of adjustment ring graduated • Built-in self-ventilation system |
|--|--|

Levigatrice a Nastro - Belt Sander

CODE	Velocità del Nastro	Peso	Dimensioni	EURO
	Belt speed	Weight Gr.	Dimensions	
BS33	77.7 - 777 m/min	400	160 x 119 X 40 mm	780.00



- | | |
|--|--|
| <ul style="list-style-type: none"> • Idoneo per largo impiego di applicazioni • Diversi tipi di bracci consentono la massima versatilità • Meccanismo incorporato per la sostituzione rapida del nastro • Sistema di autoventilazione incorporato • Il nastro abrasivo non è incluso nel prezzo | <ul style="list-style-type: none"> • Suitable for wide use of applications • Different types of arms allow for maximum versatility • Built-in mechanism for the quick replacement of the belt • Built-in self-ventilation system • The abrasive belt is not included on the price |
|--|--|

Bracci Tendi Nastro - Belt Arms				Nastri Abrasivi - Abrasive Belts					
CODE	Type	Larghezza Nastro	EURO	CODE	Larghezza Nastro	EURO (30 pcs. Pack)			
						Belt Width	Belt Width	D181/80	D126/120
BS1-100-1		4 - 6mm	80,05	U1013	4 mm	-	-	65,00	65,00
				U1014		-	-	65,00	65,00
				U1015	6 mm	65,00	65,00	65,00	65,00
				U1016		65,00	65,00	65,00	65,00
BS1-100-2		6 - 8mm	89,86	U1017	8 mm	65,00	65,00	65,00	65,00
				U1018		65,00	65,00	65,00	65,00
				U1019		65,00	65,00	65,00	65,00
BS1-100-3		6 - 8mm	157,00	U1020	8 mm	65,00	65,00	65,00	65,00
				U1021		65,00	65,00	65,00	65,00
				U1022		65,00	65,00	65,00	65,00

Nuova C.U.M.E.T. Pneumatic Machine



Precision in *movement!*

SMERIGLIATRICI PNEUMATICHE

Air Grinder Machines

UG-500: Alta Velocità, Pinza Sostituibile - High Speed , Replace Collet Chuck



CODE	Giri RPM	Pinza Collet	Pinza Collet Optional	Peso Weight	Dimensioni Dimensions	EURO
	Min'	Ø mm	mm	Gr.	Ø Max. X L mm	
UG-500	60.000	3,0	2,35 - 3,175	110	20 x 160	209,00

UG-300: Elevata Coppia, Pinza Sostituibile - High Torque, Replace chuck



CODE	Giri RPM	Pinza Collet	Pinza Collet Optional	Peso Weight	Dimensioni Dimensions	EURO
	Min'	Ø mm	mm	Gr.	Ø Max. X L mm	
UG-300	35.000	3,0 - 6,0	3,17 - 6,35	170	22 x 180	260,00

UG-045: Testa ad Angolo 45°, Pinza Fissa - Angle Head 45°, Fix Collet



CODE	Giri RPM	Pinza Collet	Pinza Collet Optional	Consumo Aria Air consumption	Peso Weight	Dimensioni Dimensions	EURO
	Min'	Ø mm	mm	Psi	Gr.	Ø Max. X L mm	
UG-045	35.000	3,0	-	90	265	18 x 145	320,00

UG-090: Testa ad Angolo 90°, Pinza Fissa - Angle Head 120°, Fix Collet



CODE	Giri RPM	Pinza Collet	Pinza Collet Optional	Consumo Aria Air consumption	Peso Weight	Dimensioni Dimensions	EURO
	Min'	Ø mm	mm	Psi	Gr.	Ø Max. X L mm	
UG-090	35.000	3,0	-	90	265	18 x 145	320,00

LIMATRICI PNEUMATICHE

Lapper Pneumatic Recipro Handpiece

UTR-20: Alta Velocità, Micro Oscillazione – High Speed, Micro Strokes



CODE	Frequency	Oscillazione Stroke	Peso Weight	Dimensioni Dimensions	EURO
	Strokes/min'	mm	Gr.	Ø Max. x L mm	
UTR-20	35.000	0,15	190	28 x 200	380,00
UTR-50	45.000	0.50	190	28X200	380.00

UTR-30: Alta Potenza, Media Velocità -High Torque, Medium Speed



CODE	Frequency	Oscillazione Stroke	Peso Weight	Dimensioni Dimensions	EURO
	Strokes/min'	mm	Gr.	Ø Max. x L mm	
UTR-30	30.000	0.3	190	28 x 200	380,00

UTR-70: Alta Potenza, Media Velocità - High Torque, Medium Speed








CODE	Frequency	Oscillazione Stroke	Peso Weight	Dimensioni Dimensions	EURO
	Strokes/min'	mm	Gr.	Ø Max. x L mm	
UTR-70	28.000	0,7	190	28 x 200	380,00

UR-120-300: Alta Potenza, Bassa Velocità - High Torque, Low Speed



CODE	Frequency	Oscillazione Stroke	Peso Weight	Dimensioni Dimension	EURO
	Strokes/min'	mm	Gr.	Ø Max. x L mm	
UR-120	12.000	1,2	250	18 x 180	430,00
UR-300	10.000	3,0	250	18X180	

Mandri in Dotazione per Limatrici ad Aria – Standard Tool Holder for Air Lappers						
						
DIMENSIONS	Ø + FLAT	FLAT				REGOLABILE ADJUSTABLE
	Ø3 - 1 mm	1 mm	3,2 mm	3,2 x 13 mm	6,3 x 13 mm	
CODE	UR-01	UR-02	UR-03	UR-04	UR-05	UR-06
UTR-20	☉	☉	☉	X	X	X
UTR-30	☉	☉	☉	▲	X	☉
UTR-50	☉	▲	☉	▲	▲	☉
UTR-70	☉	☉	☉	▲	▲	☉
UR-120	☉	▲	X	☉	☉	☉
UR-300	☉	▲	X	☉	☉	☉
€URO	16.00	16.00	16.00	15.00	15.00	22,00
☉ = Standard ▲ = Optional X = Non Consigliato - Not Recommended						



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