



DAMEC

**MANUALE TECNICO
HONING SUPPLIES CATALOG**

μ



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CHI SIAMO - LA MISSION

DAMEC non si limita a progettare, costruire e vendere macchine utensili per la levigatura di precisione del foro. Vuole trasmettere ai propri clienti metodo e competenza: la somma delle esperienze acquisite dal fondatore, Danilo Maggioni, e trasmesse ai propri figli per continuare a credere in un sogno nato nel 2014.

Continuare ad acquisire e trasmettere competenze, attraverso la costanza, il sacrificio, la determinazione e la disciplina, è un processo che non si ferma mai, anzi, come la vita, scorre naturalmente accompagnando DAMEC e i suoi clienti verso una realtà industriale in costante e continua evoluzione.

Per noi i dettagli sono molto importanti, quelli più piccoli, quelli che fanno la differenza.

DAMEC: in un micron tutto lo stile italiano.

DAMEC is more than just a developer, manufacturer and distributor of high-precision boring machines. The company's aim is to pass on to its customers its methods and know-how: the sum of the experience acquired by the company's founder, Danilo Maggioni, and passed on to his children in order to continue believing in a dream born in 2014.

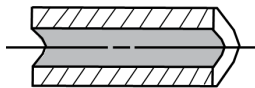
Acquiring and passing on skills, through perseverance, sacrifice, determination and discipline, is a process that never stops, but, like life, flows naturally, accompanying DAMEC and its customers towards a constantly evolving industrial reality.

For us, details are very important, the smallest, those that make the difference.

DAMEC: all Italian style in a micron.

GUIDA ALLA SELEZIONE DEGLI UTENSILI HONING UNIT SELECTION GUIDE

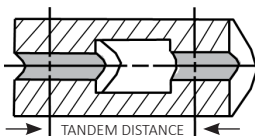
FORI PASSANTI OPEN HOLES WITH NO INTERRUPTIONS



Selezionare un utensile con lunghezza pietra da $2/3$ a $1-1/2$ volte la lunghezza del foro. Se la lunghezza della pietra montata sull'utensile è eccessiva bisogna accorciare la pietra.

Select a honing unit with stone length $2/3$ to $1-1/2$ times bore length. If honing units shown have stone length too long, shorten the stone.

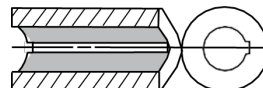
FORI A TANDEM OPEN HOLES WITH TANDEM LANDS



Fori a tandem richiedono una lunghezza della pietra di almeno il doppio della pietra stessa. Nel caso in cui i mandrini a disposizione non abbiano la lunghezza pietra adeguata per la lavorazione da eseguire, è possibile intervenire modificando opportunamente la configurazione della pietra stessa.

Tandem bores require a stone length at least twice the distance. If honing units are not available with sufficient stone length, alter the stone.

FORI CON CHIAVETTA OPEN HOLES WITH KEYWAYS OR SPLINES

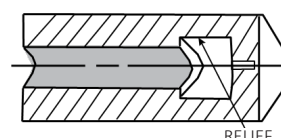


Fori con uno scarico come questo richiedono un utensile per cave (Y). La pietra dovrebbe essere da $2/3$ a $1-1/2$ volte la lunghezza del foro.

Non adatto per lavorazione in fori ciechi.

Bores with interruptions such as these require keyway honing units. Stone should be $2/3$ to $1-1/2$ times bore length. Not suitable for blind hole work.

FORI CIECHI BLIND HOLES



Selezionare un mandrino con una lunghezza della pietra pari a $2/3$ della lunghezza del foro. Qualora i mandrini disponibili abbiano una lunghezza eccessiva bisogna accorciare la pietra.

Assicurarsi che l'albero del mandrino sia sufficientemente lungo da consentire alla pietra di raggiungere il fondo del foro (accorciando la parte finale del utensile standard oppure utilizzare un multi-pietra).

Select a honing unit with stone length $2/3$ times bore length. If Honing units shown have stone length too long, shorten the stone.

Be sure shank is long enough to permit stone to reach bottom in hole (by shortening the rear end of the standard tool or by using a multi-stone tool).

MANDRINI K - BL SPINDLE K - BL

L'utensile con singolo abrasivo è progettato per la lavorazione dei fori sia in fase di sgrossatura che finitura.

DAMEC commercializza differenti tipologie di mandrini a seconda del materiale da lavorare, aventi guide dure, tenere o in bronzo. Per una maggiore prestazione e durata dell'utensile, la nostra azienda offre la possibilità di diamantare l'utensile e le guide per raddoppiarne la vita lavorativa.

Il range di lavorazione degli utensili partono da un diametro minimo di 2,54mm ad un massimo di 152,40mm.

L'attrezzatura standard è composta da: un adattatore, un mandrino con asta, una boccia di centraggio, una boccia per la raggatura e una pietra abrasiva.

Tutti questi prodotti hanno un codice "DAMEC" in modo da poter riconoscere la tipologia dell'utensile.

Inoltre, il nostro team offre ai propri clienti la possibilità di personalizzare i propri utensili a seconda delle loro esigenze.

The single-stone tool is designed to reach an inner hole during the roughing and finishing process.

DAMEC has developed different types of mandrels depending on the working material, with hard, soft or bronze shoes. In order to have the best performance and long-life time of the tool, our company offers the possibility to diamondise tool and guides in order to double the work.

The workable diameter is from 2,54 mm to max. 152,40 mm.

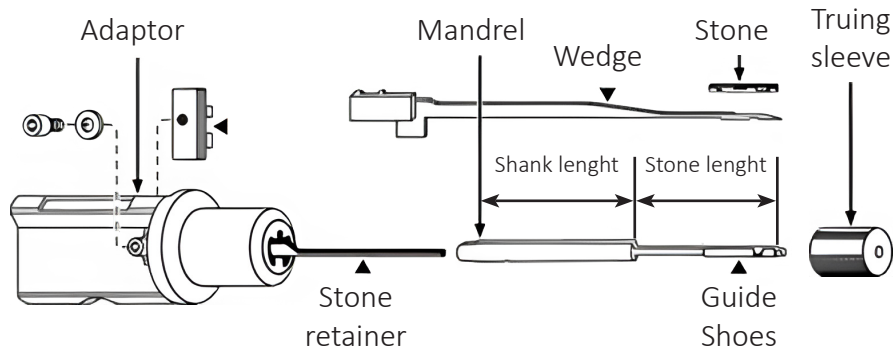
The standard devices are: adapter, mandrel with wedge, truing sleeve, sleeve and abrasive stone.

All these products are codified "DAMEC" in order to be identified by the customer.

Then, our team offer to our customer the possibility the customize their tools depending on their needs.

TABELLA INDICATIVA ROTAZIONE UTENSILI		TABELLA INDICATIVA ROTAZIONE UTENSILI	
INDICATIVE TOOL ROTATION TABLE		INDICATIVE TOOL ROTATION TABLE	
DIAMETRO Ø	GIRI RPM MAX	DIAMETRO Ø	GIRI RPM MAX
Meno di 8mm	2500	da 19 a 25	800
da 8 a 8,5	2250	da 25 a 32	640
da 8,5 a 9,5	2000	da 32 a 41	500
da 9,5 a 11	1800	da 41 a 51	400
da 11 a 12,5	1600	da 51 a 64	320
da 12,5 a 14	1425	da 64 a 83	250
da 14 a 16	1270	Oltre 83	200
da 16 a 19	1000		





BL3 / K3

Diametro: da 2.54 a 3.05 mm

Diameter: from 2.54 to 3.05 mm / .100" - .120"

DIAMETRO DIAMETER		MANDRINO MANDREL				BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING
2,54-2,59	.100-.102	K3/BL3-100C	S	H	B	S-100	K3/BL3-A	C-100
2,59-2,64	.102-.104	K3/BL3-102C	S	H	B	S-102	K3/BL3-A	C-102
2,64-2,69	.104-.106	K3/BL3-104C	S	H	B	S-104	K3/BL3-A	C-104
2,69-2,74	.106-.108	K3/BL3-106C	S	H	B	S-106	K3/BL3-A	C-106
2,74-2,79	.108-.110	K3/BL3-108C	S	H	B	S-108	K3/BL3-A	C-108
2,79-2,84	.110-.112	K3/BL3-110C	S	H	B	S-110	K3/BL3-A	C-110
2,84-2,90	.112-.114	K3/BL3-112C	S	H	B	S-112	K3/BL3-A	C-112
2,90-2,95	.114-.116	K3/BL3-114C	S	H	B	S-114	K3/BL3-A	C-114
2,95-3,00	.116-.118	K3/BL3-116C	S	H	B	S-116	K3/BL3-A	C-116
3,00-3,05	.118-.120	K3/BL3-118C	S	H	B	S-118	K3/BL3-A	C-118

LUNGHEZZA PIETRA / STONE LENGHT

BL3 = 25.40 mm / K3 = 14.30 mm

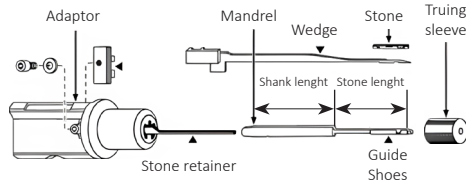
LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BL3 = 47.6 mm / K3 = 36.5 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



BL4 / K4

Diametro: da 3.05 a 3.81 mm

Diameter: from 3.05 to 3.81 mm / .120" - .150"

DIAMETRO DIAMETER		MANDRINO MANDREL				BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING
3,05-3,17	.120-.125	K/BL4-120C	S	H	B	S-120	K/BL4-A	C-120
3,17-3,30	.125-.130	K/BL4-125C	S	H	B	S-125	K/BL4-A	C-125
3,30-3,43	.130-.135	K/BL4-130C	S	H	B	S-130	K/BL4-A	C-130
3,43-3,56	.135-.140	K/BL4-135C	S	H	B	S-135	K/BL4-A	C-135
3,56-3,68	.140-.145	K/BL4-140C	S	H	B	S-140	K/BL4-A	C-140
3,68-3,81	.145-.150	K/BL4-145C	S	H	B	S-145	K/BL4-A	C-145

LUNGHEZZA PIETRA / STONE LENGHT

BL4 = 25.40 mm / K3 = 14.30 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BL4 = 47.6 mm / K4 = 36.5 mm

BL5 / K5

Diametro: da 3.81 a 4.70 mm

Diameter: from 3.81 to 4.70 mm / .150" - .185"

DIAMETRO DIAMETER		MANDRINO MANDREL				BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING
3,81-3,94	.150-.155	K/BL5-150C	S	H	B	S-150	K/BL5-A	C-150
3,94-4,06	.155-.160	K/BL5-155C	S	H	B	S-155	K/BL5-A	C-155
4,06-4,19	.160-.165	K/BL5-160C	S	H	B	S-160	K/BL5-A	C-160
4,19-4,32	.165-.170	K/BL5-165C	S	H	B	S-165	K/BL5-A	C-165
4,32-4,44	.170-.175	K/BL5-170C	S	H	B	S-170	K/BL5-A	C-170
4,44-4,57	.175-.180	K/BL5-175C	S	H	B	S-175	K/BL5-A	C-175
4,57-4,70	.180-.185	K/BL5-180C	S	H	B	S-180	K/BL5-A	C-180

LUNGHEZZA PIETRA / STONE LENGHT

BL5 = 31.70 mm / K3 = 17.50 mm

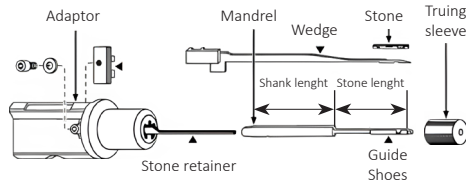
LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BL5 = 53.9 mm / K5 = 39.7 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



BL6 / L6

Diametro: da 4.70 a 6.22 mm

Diameter: from 4.70 to 6.22 mm / .185" - .245"

DIAMETRO DIAMETER		BL 6 MANDRINO MANDREL BL 6			L 6 MANDRINO MANDREL L 6			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING		
4,70-4,83	.185-.190	BL6-185C	S	H	B	L6-185C	S	H	B	S-185	BL/L6-A	C-187
4,83-4,95	.190-.195	BL6-190C	S	H	B	L6-190C	S	H	B	S-190	BL/L6-A	C-190
4,95-5,08	.195-.200	BL6-195C	S	H	B	L6-195C	S	H	B	S-195	BL/L6-A	C-195
5,08-5,21	.200-.205	BL6-200C	S	H	B	L6-200C	S	H	B	S-200	BL/L6-A	C-200
5,21-5,33	.205-.210	BL6-205C	S	H	B	L6-205C	S	H	B	S-205	BL/L6-A	C-205
5,33-5,46	.210-.215	BL6-210C	S	H	B	L6-210C	S	H	B	S-210	BL/L6-A	C-210
5,46-5,59	.215-.220	BL6-215C	S	H	B	L6-215C	S	H	B	S-215	BL/L6-A	C-215
5,59-5,71	.220-.225	BL6-220C	S	H	B	L6-220C	S	H	B	S-220	BL/L6-A	C-220
5,71-5,84	.225-.230	BL6-225C	S	H	B	L6-225C	S	H	B	S-225	BL/L6-A	C-225
5,84-5,97	.230-.235	BL6-230C	S	H	B	L6-230C	S	H	B	S-230	BL/L6-A	C-230
5,97-6,10	.235-.240	BL6-235C	S	H	B	L6-235C	S	H	B	S-235	BL/L6-A	C-235
6,10-6,22	.240-.245	BL6-240C	S	H	B	L6-240C	S	H	B	S-240	BL/L6-A	C-240

LUNGHEZZA PIETRA / STONE LENGHT

BL6 / L6 = 34.90 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BL6 = 66.6 mm / L6 = 92 mm

K6 / JK6

Diametro: da 4.70 a 6.22 mm

Diameter: from 4.70 to 6.22 mm / .185" - .245"

DIAMETRO DIAMETER		K 6 MANDRINO MANDREL K 6			J-K6 MANDRINO MANDREL J-K6			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING	
4,70-4,83	.185-.190	K6-185C	S	H	B	J-K6-185C	S	H	S-185	K/JK6-A	C-187
4,83-4,95	.190-.195	K6-190C	S	H	B	J-K6-190C	S	H	S-190	K/JK6-A	C-190
4,95-5,08	.195-.200	K6-195C	S	H	B	J-K6-195C	S	H	S-195	K/JK6-A	C-195
5,08-5,21	.200-.205	K6-200C	S	H	B	J-K6-200C	S	H	S-200	K/JK6-A	C-200
5,21-5,33	.205-.210	K6-205C	S	H	B	J-K6-205C	S	H	S-205	K/JK6-A	C-205
5,33-5,46	.210-.215	K6-210C	S	H	B	J-K6-210C	S	H	S-210	K/JK6-A	C-210
5,46-5,59	.215-.220	K6-215C	S	H	B	J-K6-215C	S	H	S-215	K/JK6-A	C-215
5,59-5,71	.220-.225	K6-220C	S	H	B	J-K6-220C	S	H	S-220	K/JK6-A	C-220
5,71-5,84	.225-.230	K6-225C	S	H	B	J-K6-225C	S	H	S-225	K/JK6-A	C-225
5,84-5,97	.230-.235	K6-230C	S	H	B	J-K6-230C	S	H	S-230	K/JK6-A	C-230
5,97-6,10	.235-.240	K6-235C	S	H	B	J-K6-235C	S	H	S-235	K/JK6-A	C-235
6,10-6,22	.240-.245	K6-240C	S	H	B	J-K6-240C	S	H	S-240	K/JK6-A	C-240

LUNGHEZZA PIETRA / STONE LENGHT

K6 / JK6 = 19.00 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

K6 = 50.7 mm / JK6 = 76.1 mm

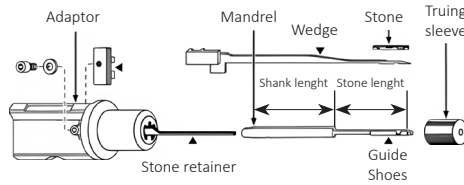
S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



DAMEC



BL8 / L8

Diametro: da 6.22 a 7.82 mm

Diameter: from 6.22 to 7.82 mm / .245" - .308"

DIAMETRO DIAMETER		BL 8 MANDRINO MANDREL BL 8			L 8 MANDRINO MANDREL L 8			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING		
6,22-6,35	.245-.250	BL8-245A	S	H	B	L8-245A	S	H	B	S-245	BL/L8-A	C-245
6,35-6,48	.250-.255	BL8-250A	S	H	B	L8-250A	S	H	B	S-250	BL/L8-A	C-250
6,48-6,60	.255-.260	BL8-255A	S	H	B	L8-255A	S	H	B	S-255	BL/L8-A	C-255
6,60-6,73	.260-.265	BL8-260A	S	H	B	L8-260A	S	H	B	S-260	BL/L8-A	C-260
6,73-6,86	.265-.270	BL8-265A	S	H	B	L8-265A	S	H	B	S-265	BL/L8-A	C-265
6,86-6,98	.270-.275	BL8-270A	S	H	B	L8-270A	S	H	B	S-270	BL/L8-A	C-270
6,98-7,11	.275-.280	BL8-275A	S	H	B	L8-275A	S	H	B	S-275	BL/L8-A	C-275
7,11-7,24	.280-.285	BL8-280A	S	H	B	L8-280A	S	H	B	S-280	BL/L8-A	C-280
7,24-7,37	.285-.290	BL8-285A	S	H	B	L8-285A	S	H	B	S-285	BL/L8-A	C-285
7,37-7,49	.290-.295	BL8-290A	S	H	B	L8-290A	S	H	B	S-290	BL/L8-A	C-290
7,49-7,62	.295-.300	BL8-295A	S	H	B	L8-295A	S	H	B	S-295	BL/L8-A	C-295
7,62-7,82	.300-.308	BL8-300A	S	H	B	L8-300A	S	H	B	S-300	BL/L8-A	C-300

LUNGHEZZA PIETRA / STONE LENGHT

BL8 / L8 = 57.10 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BL8 = 104.7 mm / L8 = 155.5 mm

K8 / JK8

Diametro: da 6.22 a 7.82 mm

Diameter: from 6.22 to 7.82 mm / .245" - .308"

DIAMETRO DIAMETER		K 6 MANDRINO MANDREL K 6			J-K6 MANDRINO MANDREL J-K6			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING	
6,22-6,35	.245-.250	K8-245A	S	H	B	JK8-245A	S	H	S-245	K8-A	C-245
6,35-6,48	.250-.255	K8-250A	S	H	B	JK8-250A	S	H	S-250	K8-A	C-250
6,48-6,60	.255-.260	K8-255A	S	H	B	JK8-255A	S	H	S-255	K8-A	C-255
6,60-6,73	.260-.265	K8-260A	S	H	B	JK8-260A	S	H	S-260	K8-A	C-260
6,73-6,86	.265-.270	K8-265A	S	H	B	JK8-265A	S	H	S-265	K8-A	C-265
6,86-6,98	.270-.275	K8-270A	S	H	B	JK8-270A	S	H	S-270	K8-A	C-270
6,98-7,11	.275-.280	K8-275A	S	H	B	JK8-275A	S	H	S-275	K8-A	C-275
7,11-7,24	.280-.285	K8-280A	S	H	B	JK8-280A	S	H	S-280	K8-A	C-280
7,24-7,37	.285-.290	K8-285A	S	H	B	JK8-285A	S	H	S-285	K8-A	C-285
7,37-7,49	.290-.295	K8-290A	S	H	B	JK8-290A	S	H	S-290	K8-A	C-290
7,49-7,62	.295-.300	K8-295A	S	H	B	JK8-295A	S	H	S-295	K8-A	C-295
7,62-7,82	.300-.308	K8-300A	S	H	B	JK8-300A	S	H	S-300	K8-A	C-300

LUNGHEZZA PIETRA / STONE LENGHT

K8 / JK8 = 31.70 mm

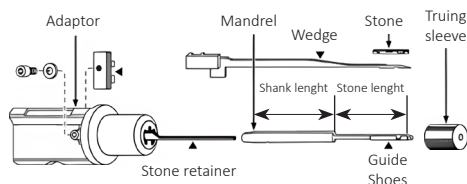
LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

K8 = 79.3 mm / JK8 = 130.1 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



BL10 / L10

Diametro: da 7.82 a 9.40 mm

Diameter: from 7.82 to 9.40 mm / .308" - .370"

DIAMETRO DIAMETER		BL 10 MANDRINO MANDREL BL 10			L 10 MANDRINO MANDREL L 10			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING		
7,82-8,03	.308-.316	BL10-308A	S	H	B	L10-308A	S	H	B	S-308	BL/L10-A	C-308
8,03-8,20	.316-.323	BL10-316A	S	H	B	L10-316A	S	H	B	S-316	BL/L10-A	C-316
8,20-8,41	.323-.331	BL10-323A	S	H	B	L10-323A	S	H	B	S-323	BL/L10-A	C-323
8,41-8,61	.331-.339	BL10-331A	S	H	B	L10-331A	S	H	B	S-331	BL/L10-A	C-331
8,61-8,81	.339-.347	BL10-339A	S	H	B	L10-339A	S	H	B	S-339	BL/L10-A	C-339
8,81-8,99	.347-.354	BL10-347A	S	H	B	L10-347A	S	H	B	S-347	BL/L10-A	C-347
8,99-9,19	.354-.362	BL10-354A	S	H	B	L10-354A	S	H	B	S-354	BL/L10-A	C-354
9,19-9,40	.362-.370	BL10-362A	S	H	B	L10-362A	S	H	B	S-362	BL/L10-A	C-362

LUNGHEZZA PIETRA / STONE LENGHT

BL10 / L10 = 57.10 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BL10 = 104.7 mm / L10 = 155.5 mm

K10 / JK10

Diametro: da 7.82 a 9.40 mm

Diameter: from 7.82 to 9.40 mm / .308" - .370"

DIAMETRO DIAMETER		K 10 MANDRINO MANDREL K 10			J-K10 MANDRINO MANDREL J-K10			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING	
7,82-8,03	.308-.316	K10-308A	S	H	B	J-K10-308A	S	H	S-308	K/JK10-A	C-308
7,90-8,11	.311-3.19	K10-8MMA	NA	H	NA	N/A	NA	NA	S-8MM	K/JK10-A	C-8MM
8,03-8,20	.316-.323	K10-316A	S	H	B	J-K10-316A	S	H	S-316	K/JK10-A	C-316
8,20-8,41	.323-.331	K10-323A	S	H	B	J-K10-323A	S	H	S-323	K/JK10-A	C-323
8,41-8,61	.331-.339	K10-331A	S	H	B	J-K10-331A	S	H	S-331	K/JK10-A	C-331
8,61-8,81	.339-.347	K10-339A	S	H	B	J-K10-339A	S	H	S-339	K/JK10-A	C-339
8,81-8,99	.347-.354	K10-347A	S	H	B	J-K10-347A	S	H	S-347	K/JK10-A	C-347
8,99-9,19	.354-.362	K10-354A	S	H	B	J-K10-354A	S	H	S-354	K/JK10-A	C-354

LUNGHEZZA PIETRA / STONE LENGHT

K10 / JK10 = 31.70 mm

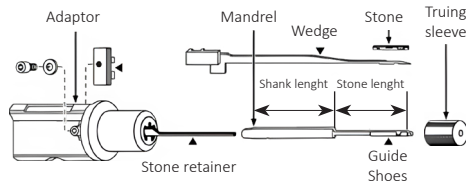
LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

K10 = 79.3 mm / JK10 = 130.1 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



BL12 / L12

Diametro: da 9.40 a 12.57 mm

Diameter: from 9.40 to 12.57 mm / .370" - .495"

DIAMETRO DIAMETER		BL 12 MANDRINO MANDREL BL 12			L 12 MANDRINO MANDREL L 12			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING		
9,40-9,78	.370-385	BL12-370A	S	H	B	L12-370A	S	H	B	S-370	BL/L12-A	C-370
9,78-10,16	.385-.400	BL12-385A	S	H	B	L12-385A	S	H	B	S-385	BL/L12-A	C-385
10,16-10,57	.400-.416	BL12-400A	S	H	B	L12-400A	S	H	B	S-400	BL/L12-A	C-400
10,57-10,97	.416-.432	BL12-416A	S	H	B	L12-416A	S	H	B	S-416	BL/L12-A	C-416
10,97-11,35	.432-.447	BL12-432A	S	H	B	L12-432A	S	H	B	S-432	BL/L12-A	C-432
11,35-11,76	.447-.463	BL12-447A	S	H	B	L12-447A	S	H	B	S-447	BL/L12-A	C-447
11,76-12,17	.463-.479	BL12-463A	S	H	B	L12-463A	S	H	B	S-463	BL/L12-A	C-463
12,17-12,57	.479-.495	BL12-479A	S	H	B	L12-479A	S	H	B	S-479	BL/L12-A	C-479

LUNGHEZZA PIETRA / STONE LENGHT

BL12 / L12 = 88.90 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BL12 = 136.5 mm / L12 = 212.7 mm

K12 / JK12

Diametro: da 9.40 a 12.57 mm

Diameter: from 9.40 to 12.57 mm / .370" - .495"

DIAMETRO DIAMETER		K 12 MANDRINO MANDREL K 12			J-K12 MANDRINO MANDREL J-K12			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING	
9,40-9,78	.370.385	K12-370A	S	H	B	J-K12-370A	S	H	S-370	K/JK12-A	C-370
9,78-10,16	.385-.400	K12-385A	S	H	B	J-K12-385A	S	H	S-385	K/JK12-A	C-385
10,16-10,57	.400-.416	K12-10MMA	-	H	-	N/A	NA	NA	S-10MM	K/JK12-A	C-10MM
10,57-10,97	.416-.432	K12-400A	S	H	B	J-K12-400A	S	H	S-416	K/JK12-A	C-416
10,97-11,35	.432-.447	K12-416A	S	H	B	J-K12-416A	S	H	S-432	K/JK12-A	C-432
11,35-11,76	.447-.463	K12-432A	S	H	B	J-K12-432A	S	H	S-447	K/JK12-A	C-447
11,76-12,17	.463-.479	K12-12MMA	-	H	-	N/A	NA	NA	S-12MM	K/JK12-A	C-12MM
12,17-12,57	.479-.495	K12-479A	S	H	B	J-K12-479A	S	H	S-479	K/JK12-A	C-479

LUNGHEZZA PIETRA / STONE LENGHT

K12 / JK12 = 44.40 mm

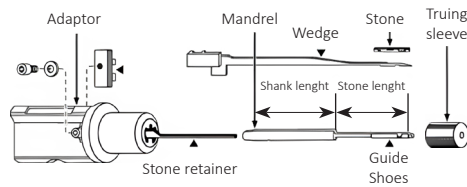
LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

K12 = 92 mm / JK12 = 244.4 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



BL16 / L16

Diametro: da 12.57 a 15.72 mm

Diameter: from 12.57 to 15.72 mm / .495" - .619"

DIAMETRO DIAMETER		BL 16 MANDRINO MANDREL BL 16			L 16 MANDRINO MANDREL L 16			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING		
12,57-13,36	.495-.526	BL16-495A	S	H	B	L16-495A	S	H	B	S-495	BL/L16-A	C-495
13,36-14,15	.526-.557	BL16-526A	S	H	B	L16-526A	S	H	B	S-526	BL/L16-A	C-526
14,15-14,94	.557-.588	BL16-557A	S	H	B	L16-557A	S	H	B	S-557	BL/L16-A	C-557
14,94-15,72	.588-.619	BL16-588A	S	H	B	L16-588A	S	H	B	S-588	BL/L16-A	C-588

LUNGHEZZA PIETRA / STONE LENGHT

BL16 / L16 = 114.30 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BL16 = 168.2 mm / L16 = 244.4 mm

K16 / JK16

Diametro: da 12.57 a 15.72 mm

Diameter: from 12.57 to 15.72 mm / .495" - .619"

DIAMETRO DIAMETER		K 10 MANDRINO MANDREL K 10			J-K10 MANDRINO MANDREL J-K10			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING	
12,57-13,36	.495-.526	K16-495A	S	H	B	J-K16-495A	S	H	S-495	K/JK16-A	C-495
13,36-14,15	.526-.557	K16-526A	S	H	B	J-K16-526A	S	H	S-526	K/JK16-A	C-526
13,90-14,69	.547-.578	K16-14MMA	NA	H	NA	N/A	NA	NA	S-14MM	K/JK16-A	C-14MM
14,15-14,94	.557-.588	K16-557A	S	H	B	J-K16-557A	S	H	S-557	K/JK16-A	C-557
14,94-15,72	.588-.619	K16-588A	S	H	B	J-K16-588A	S	H	S-588	K/JK16-A	C-588

LUNGHEZZA PIETRA / STONE LENGHT

K16 / JK16 = 57.10 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

K16 = 110 mm / JK16 = 263.5 mm

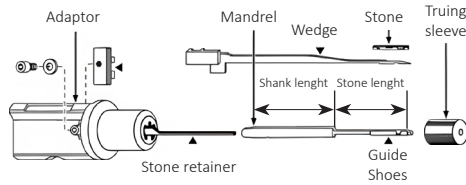
S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



DAMEC



BL20 / L20

Diametro: da 15.75 a 18.90 mm

Diameter: from 15.75 to 18.90 mm / .619" - .744"

DIAMETRO DIAMETER		BL 20 MANDRINO MANDREL BL 20			L 20 MANDRINO MANDREL L 20			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING		
15,72-16,51	.619-.650	BL20-619A	S	H	B	L20-619A	S	H	B	S-619	BL/L20-A	C-619
16,51-17,30	.650-.681	BL20-650A	S	H	B	L20-650A	S	H	B	S-650	BL/L20-A	C-650
17,30-18,11	.681-.713	BL20-681A	S	H	B	L20-681A	S	H	B	S-681	BL/L20-A	C-681
18,11-18,90	.713-.744	BL20-713A	S	H	B	L20-713A	S	H	B	S-713	BL/L20-A	C-713

LUNGHEZZA PIETRA / STONE LENGHT

BL20 / L20 = 114.30 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BL20 = 168.2 mm / L20 = 244.4 mm

K20 / JK20

Diametro: da 15.75 a 18.90 mm

Diameter: from 15.75 to 18.90 mm / .619" - .744"

DIAMETRO DIAMETER		K 20 MANDRINO MANDREL K 20			J-K20 MANDRINO MANDREL J-K20			BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAGGIO ALIGNMENT BUSHING	
15,72-16,51	.619-.650	K20-619A	S	H	B	J-K20-619A	S	H	S-619	K20-A	C-619
16,51-17,30	.650-.681	K20-650A	S	H	B	J-K20-650A	S	H	S-650	K20-A	C-650
17,30-18,11	.681-.713	K20-681A	S	H	B	J-K20-681A	S	H	S-681	K20-A	C-681
18,11-18,90	.713-.744	K20-713A	S	H	B	J-K20713A	S	H	S-713	K20-A	C-713

LUNGHEZZA PIETRA / STONE LENGHT

BL20 / L20 = 63.5 mm

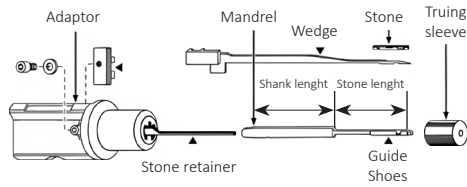
LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

K20 = 117.4 mm / JK20 = 269.8 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



AK20 / JAK20

Diametro: da 18.90 a 31.75 mm

Diameter: from 18.90 to 31.75 mm / .744" - 1.250"

DIAMETRO DIAMETER		JAK/AK20 MANDRINO MANDREL JAK/AK20		BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CEN- TRAGGIO ALIGNMENT BUSHING	SHOES SCREWS
18,90-19,68	.744-.775	AK	20-744UA	S-744	AK20-A	C-750	LN-1547A 4- 40 x 7/32"
19,68-20,47	.775-.806	AK	20-775UA	S-775	AK20-A	C-750	
19,90-20,69	.783-.815	AK	20-20MMUA	S-20MM	AK20-A	C-20MM	
20,47-21,29	.806-.838	AK	20-806UB	S-806	AK20-A	C-812	
21,29-22,07	.838-.869	AK	20-838UB	S-838	AK20-A	C-812	
21,90-22,69	.862-.893	AK	20-22MMUB	S-22MM	AK20-A	C-22MM	
22,07-22,86	.869-.900	AK	20-869UB	S-869	AK20-A	C-875	LN-1548A 4- 40 x 1/4"
22,86-23,65	.900-.931	AK	20-900UC	S-900	AK20-A	C-875	
23,65-24,43	.931-.962	AK	20-931UC	S-931	AK20-A	C-937	
23,90-24,69	.940-.972	AK	20-24MMUC	S-24MM	AK20-A	C-24MM	24MM
24,43-25,25	.962-.994	AK	20-962UC	S-962	AK20-A	C-937	
25,25-26,19	.994-1.031	AK	20-994UC	S-994	AK20-A	C-1000	
24,90-25,72	.980-1.012	AK	20-25MMUC	S-25MM	AK20-A	C-25MM	25MM
25,15-26,97	.990-1.062	AK	20-1000UD	S-994	AK20-A	C-1000	
26,72-28,57	1.052-1.125	AK	20-1062UD	S-1062	AK20-A	C-1062	LN-1247A 6- 32 x 5/16"
28,32-30,15	1.115-1.187	AK	20-1125UE	S-1125	AK20-A	C-1125	
29,90-31,75	1.177-1.250	AK	20-1187UE	S-1187	AK20-A	C-1187	

LUNGHEZZA PIETRA / STONE LENGHT

AK20 = 63.50 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

AK20 = 117.4 mm / JAK20 = 269.8 mm

C= General purpose shoe for most honing applications. Furnished with Mandrel.

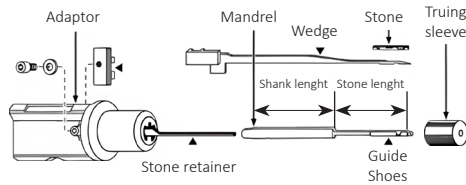
B= Bronze for finer finishes and soft or difficult materials. Order separately.

CH/BH= Hard steel for production honing or hard, rough parts or carbide, ceramic, etc.

Order separately



DAMEC



BAL20 / L20

Diametro: da 18.90 a 26.19 mm

Diameter: from 18.90 to 26.19 mm / .744" - 1.031"

DIAMETRO DIAMETER		MANDRINO BAL/AL20 BAL/AL20 MANDREL		BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CEN- TRAGGIO ALIGNMENT BU- SHING	GUIDE/SHOES (2pc per box)				SHOES SCREW
18,90-19,68	.744-.775	BAL	20-744LA	S-744	BAL20-A	C-713	LA	C	B	CH	LN-1547A 4- 40 x 7/32"
19,68-20,47	.775-.806	BAL	20-775LA	S-775	BAL20-A	C-750	LA	C	B	CH	
20,47-21,29	.806-.838	BAL	20-806LB	S-806	BAL20-A	C-812	LB	C	B	CH	LN-1548A 4- 40 x 1/4"
21,29-22,07	.838-.869	BAL	20-838LB	S-838	BAL20-A	C-875	LB	C	B	CH	
22,07-22,86	.869-.900	BAL	20-869LB	S-869	BAL20-A	C-875	LB	C	B	CH	
22,86-23,65	.900-.931	BAL	20-900LC	S-900	BAL20-A	C-875	LC	C	B	CH	
23,65-24,43	.931-.962	BAL	20-931LC	S-931	BAL20-A	C-937	LC	C	B	CH	
24,43-25,25	.962-.994	BAL	20-962LC	S-962	BAL20-A	C-937	LC	C	B	CH	
25,25-26,19	.994- 1.031	BAL	20-994LC	S-994	BAL20-A	C-1000	LC	C	B	CH	

LUNGHEZZA PIETRA / STONE LENGHT

BAL20 / AL20 = 114.30 mm

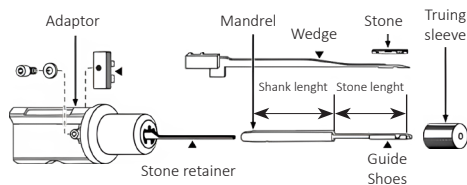
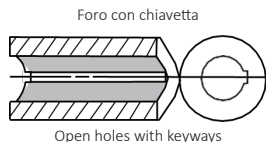
LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

BAL20 = 168.2 mm / AL20 = 244.4 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



Y8

Diametro: da 6.22 a 7.82 mm

Diameter: from 6.22 to 7.82 mm / .245" - 308"

DIAMETRO DIAMETER		Y 8 MANDRINO MANDREL Y 8				BOCCOLA DI RAGGIA- TURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAG- GIO ALIGNMENT BUSHING
6,22-6,35	.245-.250	Y8-245B	S	H	B+	S-245	Y8-A	C-245
6,35-6,48	.250-.255	Y8-250B	S	H	B+	S-250	Y8-A	C-250
6,48-6,60	.255-.260	Y8-255B	S	H	B+	S-255	Y8-A	C-255
6,60-6,73	.260-.265	Y8-260B	S	H	B+	S-260	Y8-A	C-260
6,73-6,86	.265-.270	Y8-265B	S	H	B+	S-265	Y8-A	C-265
6,86-6,98	.270-.275	Y8-270B	S	H	B+	S-270	Y8-A	C-270
6,98-7,11	.275-.280	Y8-275B	S	H	B+	S-275	Y8-A	C-275
7,11-7,24	.280-.285	Y8-280B	S	H	B+	S-280	Y8-A	C-280
7,24-7,37	.285-.290	Y8-285B	S	H	B+	S-285	Y8-A	C-285
7,37-7,49	.290-.295	Y8-290B	S	H	B+	S-290	Y8-A	C-290
7,49-7,62	.295-.300	Y8-295B	S	H	B+	S-295	Y8-A	C-295
7,62-7,82	.300-.308	Y8-300B	S	H	B+	S-300	Y8-A	C-300

LUNGHEZZA PIETRA / STONE LENGHT

Y8 = 19.00 mm / YY8 = 34.9 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

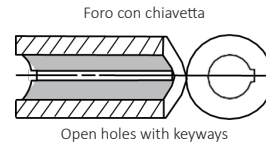
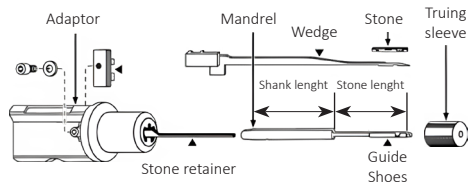
Y8 = 69.8 mm / YY8 = 85.7 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.

+ = Special Order. Contact Customer Service.



Y10

Diametro: da 7.82 a 9.40 mm

Diameter: from 7.82 to 9.40 mm / .308" - 370"

DIAMETRO DIAMETER		Y 10 MANDRINO MANDREL Y 10				BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAG- GIO ALIGNMENT BUSHING
7,82-8,03	.308-.316	Y10-308B	S	H	B+	S-308	Y10-A	C-308
8,03-8,20	.316-.323	Y10-316B	S	H	B+	S-316	Y10-A	C-316
8,20-8,41	.323-.331	Y10-323B	S	H	B+	S-323	Y10-A	C-323
8,41-8,61	.331-.339	Y10-331B	S	H	B+	S-331	Y10-A	C-331
8,61-8,81	.339-.347	Y10-339B	S	H	B+	S-339	Y10-A	C-339
8,81-8,99	.347-.354	Y10-347B	S	H	B+	S-347	Y10-A	C-347
8,99-9,19	.354-.362	Y10-354B	S	H	B+	S-354	Y10-A	C-354
9,19-9,40	.362-.370	Y10-362B	S	H	B+	S-362	Y10-A	C-362

LUNGHEZZA PIETRA / STONE LENGHT

Y10 / YY10 = 19.00 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

Y10 = 69.8 mm / YY10 = 69.8 mm

Y12

Diametro: da 9.40 a 12.57 mm

Diameter: from 9.40 to 12.57 mm / .370" - 495"

DIAMETRO DIAMETER		Y 12 MANDRINO MANDREL Y 12				BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAG- GIO ALIGNMENT BUSHING
9,40-9,78	.370-.385	Y12-370B	S	H	B+	S-370	Y12-A	C-370
9,78-10,16	.385-.400	Y12-385B	S	H	B+	S-385	Y12-A	C-385
10,16-10,57	.400-.416	Y12-400B	S	H	B+	S-400	Y12-A	C-400
10,57-10,97	.416-.432	Y12-416B	S	H	B+	S-416	Y12-A	C-416
10,97-11,35	.432-.447	Y12-432B	S	H	B+	S-432	Y12-A	C-432
11,35-11,76	.447-.463	Y12-447B	S	H	B+	S-447	Y12-A	C-447
11,76-12,17	.463-.479	Y12-463B	S	H	B+	S-463	Y12-A	C-463
12,17-12,57	.479-.495	Y12-479B	S	H	B+	S-479	Y12-A	C-479

LUNGHEZZA PIETRA / STONE LENGHT

Y12 = 31.70 mm / YY12 = 57.1 mm

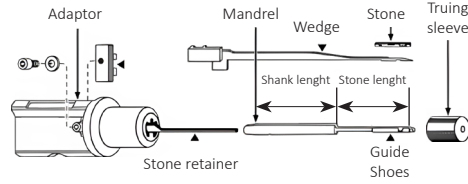
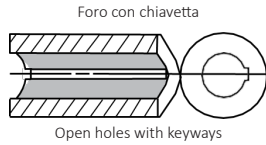
LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

Y12 = 82.5 mm / YY12 = 108 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.



Y16

Diametro: da 12.57 a 15.72 mm

Diameter: from 12.57 to 15.72 mm / .495" - .619"

DIAMETRO DIAMETER		Y 16 MANDRINO MANDREL Y 16				BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAG- GIO ALIGNMENT BUSHING
12,57-13,36	.495-.526	Y16-495B	S	H	B+	S-495	Y16-A	C-495
13,36-14,15	.526-.557	Y16-526B	S	H	B+	S-526	Y16-A	C-526
14,15-14,94	.557-.588	Y16-557B	S	H	B+	S-557	Y16-A	C-557
14,94-15,72	.588-.619	Y16-588B	S	H	B+	S-588	Y16-A	C-588

LUNGHEZZA PIETRA / STONE LENGHT

Y16 = 41.20 mm / YY16 = 76.2 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

Y16 = 101.5 mm / YY16 = 136.5 mm

Y20

Diametro: da 15.72 a 19.68 mm

Diameter: from 15.72 to 19.68 mm / .619" - .775"

DIAMETRO DIAMETER		Y 20 MANDRINO MANDREL Y 20				BOCCOLA DI RAGGIATURA TRUING SLEEVE	ADATTATORE ADAPTOR	BOCCOLA DI CENTRAG- GIO ALIGNMENT BUSHING
15,72-16,51	.619-.650	Y20-619B	S	H	B+	S-619	Y20-A	C-619
16,51-17,30	.650-.681	Y20-650B	S	H	B+	S-650	Y20-A	C-650
17,30-18,11	.681-.713	Y20-681B	S	H	B+	S-681	Y20-A	C-681
18,11-18,90	.713-.744	Y20-713B	S	H	B+	S-713	Y20-A	C-713
18,90-19,68	.744-.775	Y20-744B	S	H	B+	S-744	Y20-A	C-750

LUNGHEZZA PIETRA / STONE LENGHT

Y20 = 47.60 mm

LUNGHEZZA UTILE / TOTAL LENGHT (SHANK + STONE)

Y20 = 111.1 mm

S = Steel Mandrel w/ soft shoes for honing most materials. / Utensile con guide tenere.

H = Steel Mandrel w/ hardened shoes for production honing or hard, rough parts, carbide, ceramic, glass. / Utensile con guide dure.

B = Bronze Mandrel for producing very fine finishes and honing exotic metals. / Utensile in bronzo.

+ = Special Order. Contact Customer Service.

PIETRE ABRASIVE *ABRASIVE STONES*

DAMEC offre un'ampia gamma di pietre abrasive nel campo della lappatura dei fori, formate da un supporto metallico di diverse dimensioni e da un listello abrasivo.

DAMEC offers a wide range of abrasive stones, which are used in different honing fields, made by a metal support of different sizes and an abrasive strip.

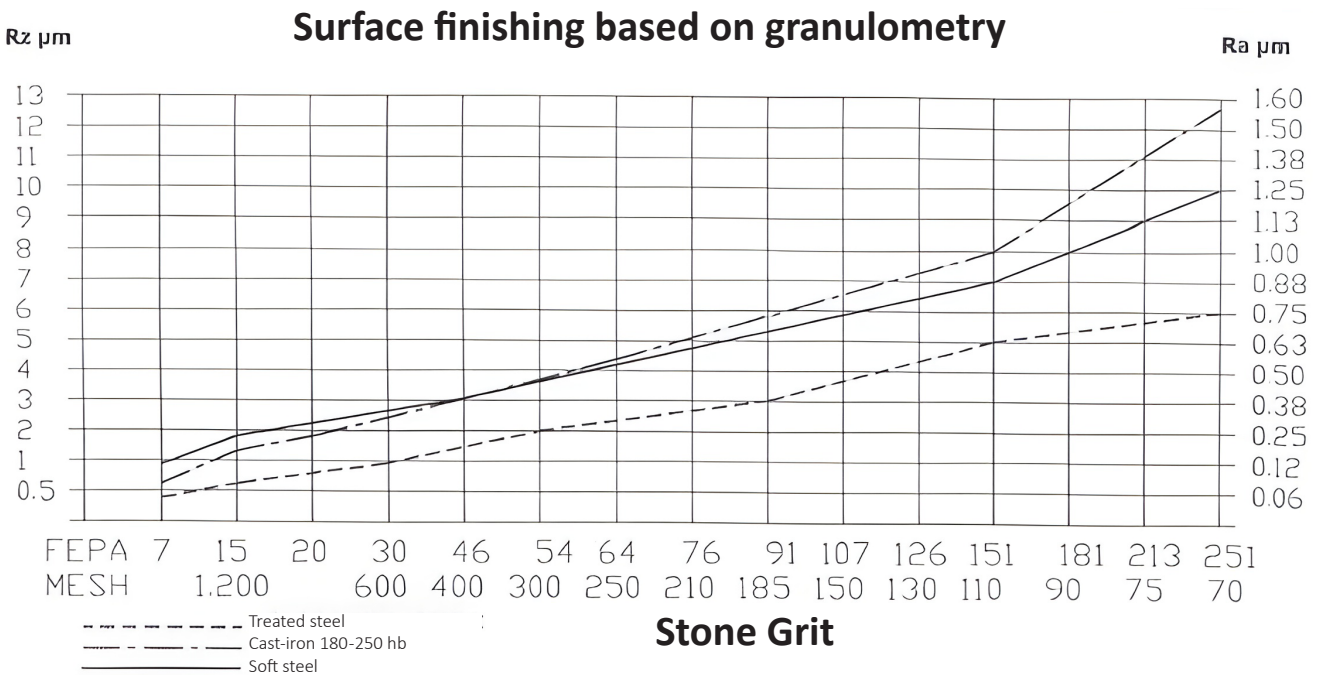
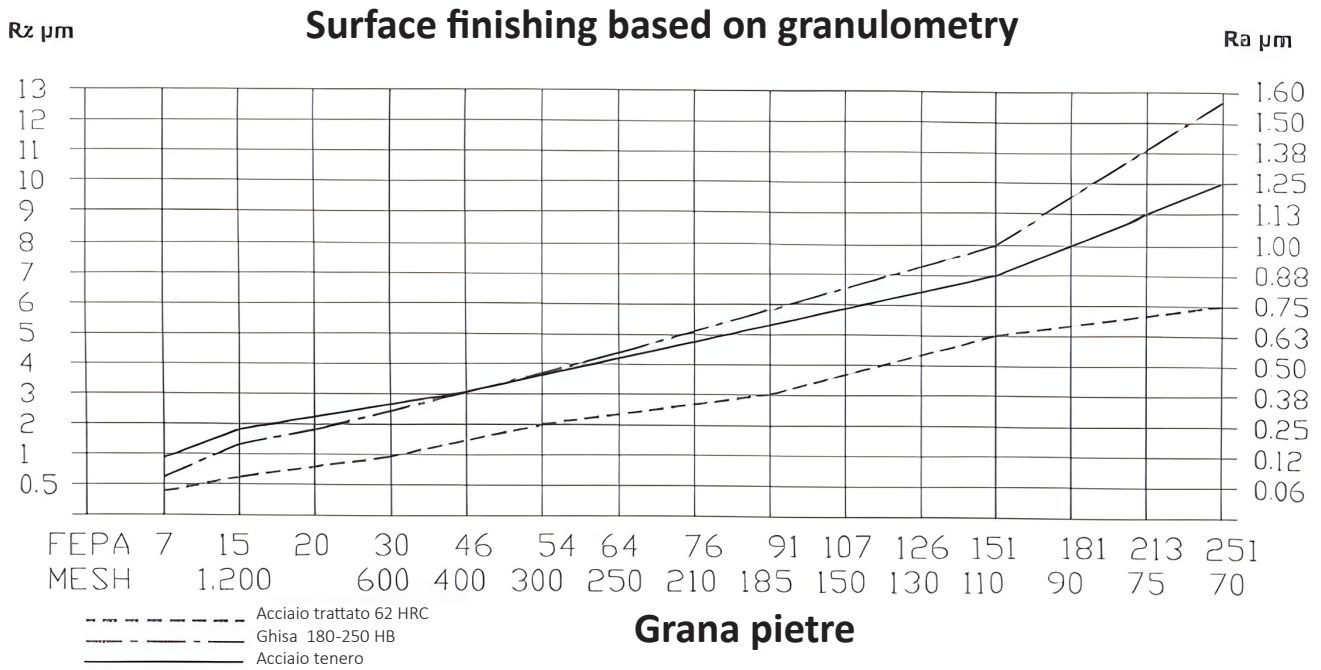
Materiale abrasivo Abrasive material	Codice Code	Applicazione Application
Borazon / CBN	NM	Acciaio temprato Tempered steel
Diamante Diamond	DM	Ghisa, alluminio, ceramica Cast iron, aluminium, ceramic
Ossido di Alluminio Aluminium Oxide	A	Acciaio temperato, alluminio Hard steel, aluminium
Carburo di Silicio Silicon carbide	J/C	Leghe metalliche, ghisa Alloys, cast iron

DAMEC per classificare ogni tipo di prodotto utilizza dei codici ben precisi. Nel caso specifico delle pietre, un esempio come da tabella sottostante.

*Damec in order to classify each type of product uses very simple codes.
An example of stones' codes in the following table.*

Materiale abrasivo <i>Abrasive's material *</i>	Grana <i>Grit **</i>	Durezza <i>Hardness ***</i>
A – Ossido di alluminio / Aluminium oxide	1- 70 2- 80 3- 100 4- 150	1 – Tenera / Soft 3- 5- 7-
C,J – Carburo di silicio / Silicon carbide	5- 220 6- 280 7- 320	9- Dura / Hard
DM, DR, DV – Diamante / Diamond	8- 400 9- 500 0- 600	
NM, NR- Borazon (CBN)	80- 800 90- 900 10- 1000 00- 1200	

Serie <i>Series</i>	K/L 12
Materiale abrasivo * <i>Abrasive's material</i>	NM
Grana <i>Grit **</i>	6
Durezza <i>Hardness ***</i>	5
Codice Identificativo <i>Identified Code</i>	ES



K3 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	K3-J67	0,83	33	K3-DM87	1,25	50
Brass, Soft	K3-J65	0,83	33	K3-J65	0,83	33
Bronze	K3-J67	0,83	33	K3-J67	0,83	33
Carbide	K3-DM57	0,50	20	K3-DM57	0,50	20
Cast Iron	K3-J67	0,30	12	K3-DM57	2,00	80
Ceramic	K3-DM57	1,00	40	K3-DM57	1,00	40
Glass	K3-DM57	1,75	70	K3-DM57	1,75	70
Steel, Soft	K3-A67	0,50	20	K3-NM45	1,25	50
Steel, Hardened	K3-A65	0,30	12	K3-NM45	1,12	45
Steel, Hardened	K3-A65	0,30	12	—	—	—
Steel, Very	K3-NM65	0,70	28	—	—	—

Fine finishing

Aluminum	K3-J95	0,30	12	K3-DM07	0,83	33
Brass, Soft	K3-J85	0,40	16	K3-85	0,40	16
Bronze	K3-J95	0,30	12	K3-J95	0,30	12
Carbide	K3-DM07	0,08	3	K3-DM07	0,08	3
Cast Iron	K3-J95	0,13	5	K3-DM07	0,50	20
Ceramic	K3-DM07	0,38	15	K3-DM07	0,38	15
Glass	K3-DM07	0,38	15	K3-DM07	0,38	15
Steel, Soft	K3-J95	0,10	4	K3-NM05	0,40	16
Steel, Hardened	K3-J85	0,13	5	K3-NM05	0,18	7

L3 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	L3-J67	0,83	33	L3-DM87	1,25	50
Brass, Soft	L3-J65	0,83	33	L3-J65	0,83	33
Bronze	L3-J67	0,83	33	L3-J67	0,83	33
Carbide	L3-DM57	0,50	20	L3-DM57	0,50	20
Cast Iron	L3-J67	0,30	12	L3-DM57	2,00	80
Ceramic	L3-DM57	1,00	40	L3-DM57	1,00	40
Glass	L3-DM57	1,75	70	L3-DM57	1,75	70
Steel, Soft	L3-A67	0,50	20	L3-NM55	1,25	50
Steel, Hardened	L3-A65	0,30	12	L3-NM55	1,12	45
Steel, Hardened	L3-A65	0,30	12	—	—	—
Steel, Very Hard	L3-NM65	0,70	28	—	—	—

Fine finishing

Aluminum	L3-J95	0,30	12	L3-DM07	0,83	33
Brass, Soft	L3-J85	0,40	16	L3-J85	0,40	16
Bronze	L3-J95	0,30	12	L3-J95	0,30	12
Carbide	L3-DM07	0,08	3	L3-DM07	0,08	3
Cast Iron	L3-J95	0,13	5	L3-DM07	0,50	20
Ceramic	L3-DM07	0,38	15	L3-DM07	0,38	15
Glass	L3-DM07	0,38	15	L3-DM07	0,38	15
Steel, Soft	L3-J95	0,10	4	L3-NM05	0,40	16
Steel, Hardened	L3-J85	0,13	5	L3-NM05	0,18	7

** Il valore nella tabella è indicativo. Per maggiori informazioni consultare il nostro staff tecnico.**

Values are approximative. For further information contact our staff.

K4 STONE						
Fast removal						
Tipo di materiale Type of material	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch
Aluminum	K4-J67	0,83	33	K4-DM87	1,25	50
Brass, Soft	K4-J65	0,83	33	K4-J65	0,83	33
Bronze	K4-J67	0,83	33	K4-J67	0,83	33
Carbide	K4-DM57	0,50	20	K4-DM57	0,50	20
Cast Iron	K4-J67	0,30	12	K4-DM57	2,00	80
Ceramic	K4-DM57	1,00	40	K4-DM57	1,00	40
Glass	K4-DM57	1,75	70	K4-DM57	1,75	70
Steel, Soft	K4-A67	0,75	30	K4-NM45	1,25	50
Steel, Hardened	K4-A65	0,30	12	K4-NM45	1,12	45
Steel, Hardened	K4-A65	0,30	12	—	—	—
Steel, Very Hard	K4-NM65	0,70	28	—	—	—

Fine finishing						
Aluminum	K4-J95	0,30	12	K4-DM07	0,83	33
Brass, Soft	K4-J95	0,40	16	K4-J83	0,40	16
Bronze	K4-J95	0,30	12	K4-J95	0,30	12
Carbide	K4-DM07	0,08	3	K4-DM07	0,08	3
Cast Iron	K4-J95	0,13	5	K4-DM07	0,50	20
Ceramic	K4-DM07	0,38	15	K4-DM07	0,38	15
Glass	K4-DM07	0,38	15	K4-DM07	0,38	15
Steel, Soft	K4-J95	0,10	4	K4-NM05	0,40	16
Steel, Hardened	K4-J85	0,13	5	K4-NM05	0,18	7

L4 STONE						
Fast removal						
Tipo di materiale Type of material	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch
Aluminum	L4-J67	0,83	33	L4-DM87	1,25	50
Brass, Soft	L4-J65	0,83	33	L4-J65	0,83	33
Bronze	L4-J67	0,83	33	L4-J67	0,83	33
Carbide	L4-DM57	0,50	20	L4-DM57	0,50	20
Cast Iron	L4-J67	0,30	12	L4-DM57	2,00	80
Ceramic	L4-DM57	1,00	40	L4-DM57	1,00	40
Glass	L4-DM57	1,75	70	L4-DM57	1,75	70
Steel, Soft	L4-A67	0,75	30	L4-NM45	1,25	50
Steel, Hardened*	L4-A65	0,30	12	L4-NM45	1,12	45
Steel, Hardened**	L4-A65	0,30	12	—	—	—
Steel, Very Hard***	L4-NM65	0,70	28	—	—	—

Fine finishing						
Aluminum	L4-J95	0,30	12	L4-DM07	0,83	33
Brass, Soft	L4-J95	0,40	16	L4-J85	0,40	16
Bronze	L4-J95	0,30	12	L4-J95	0,30	12
Carbide	L4-DM07	0,08	3	L4-DM07	0,08	3
Cast Iron	L4-J95	0,13	5	L4-DM07	0,50	20
Ceramic	L4-DM07	0,38	15	L4-DM07	0,38	15
Glass	L4-DM07	0,38	15	L4-DM07	0,38	15
Steel, Soft	L4-J95	0,10	4	L4-NM05	0,40	16
Steel, Hardened	L4-J85	0,13	5	L4-NM05	0,18	7

** Il valore nella tabella è indicativo. Per maggiori informazioni consultare il nostro staff tecnico. **

Values are approximative. For further information contact our staff.

K5 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	K5-J67	0,83	33	K5-DM87	1,25	50
Brass, Soft	K5-J65	0,83	33	K5-J65	0,83	33
Bronze	K5-J67	0,83	33	K5-J67	0,83	33
Carbide	K5-DM57	0,50	20	K5-DM57	0,50	20
Cast Iron	K5-J67	0,30	12	K5-DM57	2,00	80
Ceramic	K5-DM57	1,00	40	K5-DM57	1,00	40
Glass	K5-DM57	1,75	70	K5-DM57	1,75	70
Steel, Soft	K5-A67	0,75	30	K5-NM45	1,25	50
Steel, Hardened	K5-A65	0,30	12	K5-NM45	1,12	45
Steel, Hardened	K5-A63	0,30	12	—	—	—
Steel, Very Hard	K5-NM85	0,70	28	—	—	—

Fine finishing

Aluminum	K5-J95	0,30	12	K5-DM07	0,83	33
Brass, Soft	K5-J95	0,40	16	K5-J83	0,40	16
Bronze	K5-J95	0,30	12	K5-J95	0,30	12
Carbide	K5-DM07	0,08	3	K5-DM07	0,08	3
Cast Iron	K5-J95	0,13	5	K5-DM07	0,50	20
Ceramic	K5-DM07	0,38	15	K5-DM07	0,38	15
Glass	K5-DM07	0,38	15	K5-DM07	0,38	15
Steel, Soft	K5-J95	0,10	4	K5-NM05	0,40	16
Steel, Hardened	K5-J83	0,13	5	K5-NM05	0,18	7

L5 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	L5-J67	0,83	33	L5-DM87	1,25	50
Brass, Soft	L5-J65	0,83	33	L5-J65	0,83	33
Bronze	L5-J67	0,83	33	L5-J67	0,83	33
Carbide	L5-DM57	0,50	20	L5-DM57	0,50	20
Cast Iron	L5-J67	0,30	12	L5-DM57	2,00	80
Ceramic	L5-DM57	1,00	40	L5-DM57	1,00	40
Glass	L5-DM57	1,75	70	L5-DM57	1,75	70
Steel, Soft	L5A67	0,75	30	L5-NM45	1,25	50
Steel, Hardened	L5-A65	0,30	12	L5-NM45	1,12	45
Steel, Hardened	L5-A65	0,30	12	—	—	—
Steel, Very Hard	L5-NM65	0,70	28	—	—	—

Fine finishing

Aluminum	L5-J95	0,30	12	L5-DM07	0,83	33
Brass, Soft	L5-J95	0,40	16	L5-J85	0,40	16
Bronze	L5-J95	0,30	12	L5-J95	0,30	12
Carbide	L5-DM07	0,08	3	L5-DM07	0,08	3
Cast Iron	L5-J95	0,13	5	L5-DM07	0,50	20
Ceramic	L5-DM07	0,38	15	L5-DM07	0,38	15
Glass	L5-DM07	0,38	15	L5-DM07	0,38	15
Steel, Soft	L5-J95	0,10	4	L5-NM05	0,40	16
Steel, Hardened	L5-J85	0,13	5	L5-NM05	0,18	7

** Il valore nella tabella è indicativo. Per maggiori informazioni consultare il nostro staff tecnico.**

Values are approximative. For further information contact our staff.



DAMEC

K6 STONE						
Fast removal						
Tipo di materiale Type of material	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch
Aluminum	K6-J57	1,38	55	K6-DM87	1,25	50
Brass, Soft	K6-J65	0,83	33	K6-J65	0,83	33
Bronze	K6-J57	1,38	55	K6-J57	1,38	55
Carbide	K6-DM57	0,50	20	K6-DM57	0,50	20
Cast Iron	K6-J57	0,50	20	K6-DM57	2,00	80
Ceramic	K6-DM57	1,00	40	K6-DM57	1,00	40
Glass	K6-DM57	1,75	70	K6-DM57	1,75	70
Steel, Soft	K6-A57	0,75	30	K6-NM45	1,25	50
Steel, Hardened	K6-A55	0,30	12	K6-NM45	1,12	45
Steel, Hardened	K6-A65	0,30	12	—	—	—
Steel, Very Hard	K6-NM65	0,70	28	—	—	—

Fine finishing						
Aluminum	K6-J95	0,30	12	K6-DM07	0,83	33
Brass, Soft	K6-J85	0,40	16	K6-J85	0,40	16
Bronze	K6-J95	0,30	12	K6-J95	0,30	12
Carbide	K6-DM07	0,08	3	K6-DM07	0,08	3
Cast Iron	K6-J95	0,13	5	K6-DM07	0,50	20
Ceramic	K6-DM07	0,38	15	K6-DM07	0,38	15
Glass	K6-DM07	0,38	15	K6-DM07	0,38	15
Steel, Soft	K6-J95	0,10	4	K6-NM05	0,40	16
Steel, Hardened	K6-J85	0,13	5	K6-NM05	0,18	7

L6 STONE						
Fast removal						
Tipo di materiale Type of material	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch
Aluminum	L6-J57	1,38	55	L6-DM87	1,25	50
Brass, Soft	L6-J65	0,83	33	L6-J65	0,83	33
Bronze	L6-J57	1,38	55	L6-J57	1,38	55
Carbide	L6-DM57	0,50	20	L6-DM57	0,50	20
Cast Iron	L6-J57	0,50	20	L6-DM57	2,00	80
Ceramic	L6-DM57	1,00	40	L6-DM57	1,00	40
Glass	L6-DM57	1,75	70	L6-DM57	1,75	70
Steel, Soft	L6-A57	0,75	30	L6-NM45	1,25	50
Steel, Hardened*	L6-A55	0,30	12	L6-NM45	1,12	45
Steel, Hardened**	L6-A65	0,30	12	—	—	—
Steel, Very Hard***	L6-NM65	0,70	28	—	—	—

Fine finishing						
Aluminum	L6-J95	0,30	12	L6-DM07	0,83	33
Brass, Soft	L6-J85	0,40	16	L6-J85	0,40	16
Bronze	L6-J95	0,30	12	L6-J95	0,30	12
Carbide	L6-DM07	0,08	3	L6-DM07	0,08	3
Cast Iron	L6-J95	0,13	5	L6-DM07	0,50	20
Ceramic	L6-DM07	0,38	15	L6-DM07	0,38	15
Glass	L6-DM07	0,38	15	L6-DM07	0,38	15
Steel, Soft	L6-J95	0,10	4	L6-NM05	0,40	16
Steel, Hardened	L6-J85	0,13	5	L6-NM05	0,18	7

** Il valore nella tabella è indicativo. Per maggiori informazioni consultare il nostro staff tecnico.**

Values are approximative. For further information contact our staff.

K8 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	K8-J57	1,38	55	K8-DM85	1,25	50
Brass, Soft	K8-J65	0,83	33	K8-J65	0,83	33
Bronze	K8-J57	1,38	55	K8-J57	1,38	55
Carbide	K8-DM55	0,50	20	K8-DM55	0,50	20
Cast Iron	K8-J57	0,50	20	K8-DM55	2,00	80
Ceramic	K8-DM55	1,00	40	K8-DM55	1,00	40
Glass	K8-DM55	1,75	70	K8-DM55	1,75	70
Steel, Soft	K8-A57	0,75	30	K8-NM55	1,25	50
Steel, Hardened	K8-A55	0,30	12	K8-NM55	1,00	40
Steel, Hardened	K8-A65	0,30	12	—	—	—
Steel, Very Hard	K8-NM55	1,00	40	—	—	—

Fine finishing

Aluminum	K8-J95	0,30	12	K8-DM05	0,83	33
Brass, Soft	K8-J85	0,40	16	K8-J85	0,40	16
Bronze	K8-J95	0,30	12	K8-J95	0,30	12
Carbide	K8-DM05	0,08	3	K8-DM05	0,08	3
Cast Iron	K8-J95	0,13	5	K8-DM05	0,50	20
Ceramic	K8-DM05	0,38	15	K8-DM05	0,38	15
Glass	K8-DM05	0,38	15	K8-DM05	0,38	15
Steel, Soft	K8-J95	0,10	4	K8-NM05	0,40	16
Steel, Hardened	K8-J85	0,13	5	K8-NM05	0,18	7

L8 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	L8-J57	1,38	55	L8-DM85	1,25	50
Brass, Soft	L8-J65	0,83	33	L8-J65	0,83	33
Bronze	L8-J57	1,38	55	L8-J57	1,38	55
Carbide	L8-DM55	0,50	20	L8-DM55	0,50	20
Cast Iron	L8-J57	0,50	20	L8-DM55	2,00	80
Ceramic	L8-DM55	1,00	40	L8-DM55	1,00	40
Glass	L8-DM55	1,75	70	L8-DM55	1,75	70
Steel, Soft	L8-A57	0,75	30	L8-NM55	1,25	50
Steel, Hardened	L8-A55	0,30	12	L8-NM55	1,00	40
Steel, Hardened	L8-A65	0,30	12	—	—	—
Steel, Very Hard	L8-NM55	1,00	40	—	—	—

Fine finishing

Aluminum	L8-J95	0,30	12	L8-DM05	0,83	33
Brass, Soft	L8-J85	0,40	16	L8-J85	0,40	16
Bronze	L8-J95	0,30	12	L8-J95	0,30	12
Carbide	L8-DM05	0,08	3	L8-DM05	0,08	3
Cast Iron	L8-J95	0,13	5	L8-DM05	0,50	20
Ceramic	L8-DM05	0,38	15	L8-DM05	0,38	15
Glass	L8-DM05	0,38	15	L8-DM05	0,38	15
Steel, Soft	L8-J95	0,10	4	L8-NM05	0,40	16
Steel, Hardened	L8-J85	0,13	5	L8-NM05	0,18	7

** Il valore nella tabella è indicativo. Per maggiori informazioni consultare il nostro staff tecnico.**

Values are approximative. For further information contact our staff.

K10 STONE						
Fast removal						
Tipo di materiale Type of material	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch
Aluminum	K10-J57	1,38	55	K10-DM85	1,25	50
Brass, Soft	K10-J65	0,83	33	K10-J65	0,83	33
Bronze	K10-J57	1,38	55	K10-J57	1,38	55
Carbide	K10-DM55	0,50	20	K10-DM55	0,50	20
Cast Iron	K10-J57	0,50	20	K10-DM55	2,00	80
Ceramic	K10-DM55	1,00	40	K10-DM55	1,00	40
Glass	K10-DM55	1,75	70	K10-DM55	1,75	70
Steel, Soft	K10-A57	0,75	30	K10-NM55	1,25	50
Steel, Hardened	K10-A55	0,30	12	K10-NM55	1,00	40
Steel, Hardened	K10-A65	0,30	12	—	—	—
Steel, Very Hard	K10-NM55	1,00	40	—	—	—

Fine finishing						
Aluminum	K10-J95	0,30	12	K10-DM05	0,83	33
Brass, Soft	K10-J85	0,40	16	K10-J85	0,40	16
Bronze	K10-J95	0,30	12	K10-J95	0,30	12
Carbide	K10-DM05	0,08	3	K10-DM05	0,08	3
Cast Iron	K10-J95	0,13	5	K10-DM05	0,50	20
Ceramic	K10-DM05	0,38	15	K10-DM05	0,38	15
Glass	K10-DM05	0,38	15	K10-DM05	0,38	15
Steel, Soft	K10-J95	0,10	4	K10-NM05	0,40	16
Steel, Hardened	K10-J85	0,13	5	K10-NM05	0,18	7

L10 STONE						
Fast removal						
Tipo di materiale Type of material	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch
Aluminum	L10-J57	1,38	55	L10-DM85	1,25	50
Brass, Soft	L10-J65	0,83	33	L10-J65	0,83	33
Bronze	L10-J57	1,38	55	L10-J57	1,38	55
Carbide	L10-DM55	0,50	20	L10-DM55	0,50	20
Cast Iron	L10-J57	0,50	20	L10-DM55	2,00	80
Ceramic	L10-DM55	1,00	40	L10-DM55	1,00	40
Glass	L10-DM55	1,75	70	L10-DM55	1,75	70
Steel, Soft	L10-A57	0,75	30	L10-NM55	1,25	50
Steel, Hardened*	L10-A55	0,30	12	L10-NM55	1,00	40
Steel, Hardened**	L10-A65	0,30	12	—	—	—
Steel, Very Hard***	L10-NM55	1,00	40	—	—	—

Fine finishing						
Aluminum	L10-J95	0,30	12	L10-DM05	0,83	33
Brass, Soft	L10-J85	0,40	16	L10-J85	0,40	16
Bronze	L10-J95	0,30	12	L10-J95	0,30	12
Carbide	L10-DM05	0,08	3	L10-DM05	0,08	3
Cast Iron	L10-J95	0,13	5	L10-DM05	0,50	20
Ceramic	L10-DM05	0,38	15	L10-DM05	0,38	15
Glass	L10-DM05	0,38	15	L10-DM05	0,38	15
Steel, Soft	L10-J95	0,10	4	L10-NM05	0,40	16
Steel, Hardened	L10-J85	0,13	5	L10-NM05	0,18	7

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Values are approximative. For further information contact our staff.

K12 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	K12-J57	1,38	55	K12-DM85	1,25	50
Brass, Soft	K12-J65	0,83	33	K12-J65	0,83	33
Bronze	K12-J57	1,38	55	K12-J57	1,38	55
Carbide	K12-DM55	0,50	20	K12-DM55	0,50	20
Cast Iron	K12-J57	0,50	20	K12-DM55	2,00	80
Ceramic	K12-DM55	1,00	40	K12-DM55	1,00	40
Glass	K12-DM55	1,75	70	K12-DM55	1,75	70
Steel, Soft	K12-A57	0,75	30	K12-NM55	1,25	50
Steel, Hardened	K12-A55	0,30	12	K12-NM55	1,00	40
Steel, Hardened	K12-A65	0,30	12	—	—	—
Steel, Very Hard	K12-NM55	1,00	40	—	—	—

Fine finishing

Aluminum	K12-J95	0,30	12	K12-DM05	0,83	33
Brass, Soft	K12-J85	0,40	16	K12-J85	0,40	16
Bronze	K12-J95	0,30	12	K12-J95	0,30	12
Carbide	K12-DM05	0,08	3	K12-DM05	0,08	3
Cast Iron	K12-J95	0,13	5	K12-DM05	0,50	20
Ceramic	K12-DM05	0,38	15	K12-DM05	0,38	15
Glass	K12-DM05	0,38	15	K12-DM05	0,38	15
Steel, Soft	K12-J95	0,10	4	K12-NM05	0,40	16
Steel, Hardened	K12-J85	0,13	5	K12-NM05	0,18	7

L12 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	L12-J57	1,38	55	L12-DM85	1,25	50
Brass, Soft	L12-J65	0,83	33	L12-J65	0,83	33
Bronze	L12-J57	1,38	55	L12-J57	1,38	55
Carbide	L12-DM55	0,50	20	L12-DM55	0,50	20
Cast Iron	L12-J57	0,50	20	L12-DM55	2,00	80
Ceramic	L12-DM55	1,00	40	L12-DM55	1,00	40
Glass	L12-DM55	1,75	70	L12-DM55	1,75	70
Steel, Soft	L12-A57	0,75	30	L12-NM55	1,25	50
Steel, Hardened	L12-A55	0,30	12	L12-NM55	1,00	40
Steel, Hardened	L12-A65	0,30	12	—	—	—
Steel, Very Hard	L12-NM55	1,00	40	—	—	—

Fine finishing

Aluminum	L12-J95	0,30	12	L12-DM05	0,83	33
Brass, Soft	L12-J85	0,40	16	L12-J85	0,40	16
Bronze	L12-J95	0,30	12	L12-J95	0,30	12
Carbide	L12-DM05	0,08	3	L12-DM05	0,08	3
Cast Iron	L12-J95	0,13	5	L12-DM05	0,50	20
Ceramic	L12-DM05	0,38	15	L12-DM05	0,38	15
Glass	L12-DM05	0,38	15	L12-DM05	0,38	15
Steel, Soft	L12-J95	0,10	4	L12-NM05	0,40	16
Steel, Hardened	L12-J85	0,13	5	L12-NM05	0,18	7

** Il valore nella tabella è indicativo. Per maggiori informazioni consultare il nostro staff tecnico.**

Values are approximative. For further information contact our staff.



DAMEC

K16 STONE						
Fast removal						
Tipo di materiale Type of material	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch
Aluminum	K16-J57	1,38	55	K16-DM85	1,25	50
Brass, Soft	K16-J65	0,83	33	K16-J65	0,83	33
Bronze	K16-J57	1,38	55	K16-J57	1,38	55
Carbide	K16-DM55	0,50	20	K16-DM55	0,50	20
Cast Iron	K16-J57	0,50	20	K16-DM55	2,00	80
Ceramic	K16-DM55	1,00	40	K16-DM55	1,00	40
Glass	K16-DM55	1,75	70	K16-DM55	1,75	70
Steel, Soft	K16-A57	0,75	30	K16-NM55	1,25	50
Steel, Hardened	K16-A55	0,30	12	K16-NM55	1,00	40
Steel, Hardened	K16-A65	0,30	12	—	—	—
Steel, Very Hard	K16-NM55	1,00	40	—	—	—

Fine finishing						
Aluminum	K16-J95	0,30	12	K16-DM05	0,83	33
Brass, Soft	K16-J85	0,40	16	K16-J85	0,40	16
Bronze	K16-J95	0,30	12	K16-J95	0,30	12
Carbide	K16-DM05	0,08	3	K16-DM05	0,08	3
Cast Iron	K16-J95	0,13	5	K16-DM05	0,50	20
Ceramic	K16-DM05	0,38	15	K16-DM05	0,38	15
Glass	K16-DM05	0,38	15	K16-DM05	0,38	15
Steel, Soft	K16-J95	0,10	4	K16-NM05	0,40	16
Steel, Hardened	K16-J85	0,13	5	K16-NM05	0,18	7

L16 STONE						
Fast removal						
Tipo di materiale Type of material	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch	Codice Pietra Stone Code	R.A. mm	R.A. micro pollici micro inch
Aluminum	L16-J57	1,38	55	L16-DM85	1,25	50
Brass, Soft	L16-J65	0,83	33	L16-J65	0,83	33
Bronze	L16-J57	1,38	55	L16-J57	1,38	55
Carbide	L16-DM55	0,50	20	L16-DM55	0,50	20
Cast Iron	L16-J57	0,50	20	L16-DM55	2,00	80
Ceramic	L16-DM55	1,00	40	L16-DM55	1,00	40
Glass	L16-DM55	1,75	70	L16-DM55	1,75	70
Steel, Soft	L16-A57	0,75	30	L16-NM55	1,25	50
Steel, Hardened*	L16-A55	0,30	12	L16-NM55	1,00	40
Steel, Hardened**	L16-A65	0,30	12	—	—	—
Steel, Very Hard***	L16-NM55	1,00	40	—	—	—

Fine finishing						
Aluminum	L16-J95	0,30	12	L16-DM05	0,83	33
Brass, Soft	L16-J85	0,40	16	L16-J85	0,40	16
Bronze	L16-J95	0,30	12	L16-J95	0,30	12
Carbide	L16-DM05	0,08	3	L16-DM05	0,08	3
Cast Iron	L16-J95	0,13	5	L16-DM05	0,50	20
Ceramic	L16-DM05	0,38	15	L16-DM05	0,38	15
Glass	L16-DM05	0,38	15	L16-DM05	0,38	15
Steel, Soft	L16-J95	0,10	4	L16-NM05	0,40	16
Steel, Hardened	L16-J85	0,13	5	L16-NM05	0,18	7

** Il valore nella tabella è indicativo. Per maggiori informazioni consultare il nostro staff tecnico.**

Values are approximative. For further information contact our staff.

K20 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	K20-J57	1,38	55	K20-DM85	1,25	50
Brass, Soft	K20-J65	0,83	33	K20-J65	0,83	33
Bronze	K20-J57	1,38	55	K20-J57	1,38	55
Carbide	K20-DM55	0,50	20	K20-DM55	0,50	20
Cast Iron	K20-J57	0,50	20	K20-DM55	2,00	80
Ceramic	K20-DM55	1,00	40	K20-DM55	1,00	40
Glass	K20-DM55	1,75	70	K20-DM55	1,75	70
Steel, Soft	K20-A57	0,75	30	K20-NM55	1,25	50
Steel, Hardened	K20-A55	0,30	12	K20-NM55	1,00	40
Steel, Hardened	K20-A65	0,30	12	—	—	—
Steel, Very Hard	K20-NM55	1,00	40	—	—	—

Fine finishing

Aluminum	K20-J95	0,30	12	K20-DM05	0,83	33
Brass, Soft	K20-J85	0,40	16	K20-J85	0,40	16
Bronze	K20-J95	0,30	12	K20-J95	0,30	12
Carbide	K20-DM05	0,08	3	K20-DM05	0,08	3
Cast Iron	K20-J95	0,13	5	K20-DM05	0,50	20
Ceramic	K20-DM05	0,38	15	K20-DM05	0,38	15
Glass	K20-DM05	0,38	15	K20-DM05	0,38	15
Steel, Soft	K20-J95	0,10	4	K20-NM05	0,40	16
Steel, Hardened	K20-J85	0,13	5	K20-NM05	0,18	7

L20 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	L20-J57	1,38	55	L20-DM85	1,25	50
Brass, Soft	L20-J65	0,83	33	L20-J65	0,83	33
Bronze	L20-J57	1,38	55	L20-J57	1,38	55
Carbide	L20-DM55	0,50	20	L20-DM55	0,50	20
Cast Iron	L20-J57	0,50	20	L20-DM55	2,00	80
Ceramic	L20-DM55	1,00	40	L20-DM55	1,00	40
Glass	L20-DM55	1,75	70	L20-DM55	1,75	70
Steel, Soft	L20-A57	0,75	30	L20-NM55	1,25	50
Steel, Hardened	L20-A55	0,30	12	L20-NM55	1,00	40
Steel, Hardened	L20-A65	0,30	12	—	—	—
Steel, Very Hard	L20-NM55	1,00	40	—	—	—

Fine finishing

Aluminum	L20-J95	0,30	12	L20-DM05	0,83	33
Brass, Soft	L20-J85	0,40	16	L20-J85	0,40	16
Bronze	L20-J95	0,30	12	L20-J95	0,30	12
Carbide	L20-DM05	0,08	3	L20-DM05	0,08	3
Cast Iron	L20-J95	0,13	5	L20-DM05	0,50	20
Ceramic	L20-DM05	0,38	15	L20-DM05	0,38	15
Glass	L20-DM05	0,38	15	L20-DM05	0,38	15
Steel, Soft	L20-J95	0,10	4	L20-NM05	0,40	16
Steel, Hardened	L20-J85	0,13	5	L20-NM05	0,18	7

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Values are approximative. For further information contact our staff.

AK20 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	K20-J57	1,38	55	K20-DM85	1,25	50
Brass, Soft	K20-J65	0,83	33	K20-J65	0,83	33
Bronze	K20-J57	1,38	55	K20-J57	1,38	55
Carbide	K20-DM55	0,50	20	K20-DM55	0,50	20
Cast Iron	K20-J57	0,50	20	K20-DM55	2,00	80
Ceramic	K20-DM55	1,00	40	K20-DM55	1,00	40
Glass	K20-DM55	1,75	70	K20-DM55	1,75	70
Steel, Soft	K20-A57	0,75	30	K20-NM55	1,25	50
Steel, Hardened	K20-A55	0,30	12	K20-NM55	1,00	40
Steel, Hardened	K20-A65	0,30	12	—	—	—
Steel, Very Hard	K20-NM55	1,00	40	—	—	—

Fine finishing

Aluminum	K20-J95	0,30	12	K20-DM05	0,83	33
Brass, Soft	K20-J85	0,40	16	K20-J85	0,40	16
Bronze	K20-J95	0,30	12	K20-J95	0,30	12
Carbide	K20-DM05	0,08	3	K20-DM05	0,08	3
Cast Iron	K20-J95	0,13	5	K20-DM05	0,50	20
Ceramic	K20-DM05	0,38	15	K20-DM05	0,38	15
Glass	K20-DM05	0,38	15	K20-DM05	0,38	15
Steel, Soft	K20-J95	0,10	4	K20-NM05	0,40	16
Steel, Hardened	K20-J85	0,13	5	K20-NM05	0,18	7

** Il valore nella tabella è indicativo. Per maggiori informazioni consultare il nostro staff tecnico.**

Values are approximative. For further information contact our staff.

P28 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	P28-J57	1,38	55	P28-DM85	1,25	50
Brass, Soft	P28-J65	0,83	33	P28-J65	0,83	33
Bronze	P28-J57	1,38	55	P28-J57	1,38	55
Carbide	P28-DM55	0,50	20	P28-DM55	0,50	20
Cast Iron	P28-J57	0,50	20	P28-DM55	2,00	80
Ceramic	P28-DM55	1,00	40	P28-DM55	1,00	40
Glass	P28-DM55	1,75	70	P28-DM55	1,75	70
Steel, Soft	P28-A57	0,75	30	P28-NM55	1,25	50
Steel, Hardened	P28-A55	0,30	12	P28-NM55	1,00	40
Steel, Hardened	P28-A65	0,30	12	-	-	-
Steel, Very Hard	P28-NM65	1,00	40	-	-	-

Fine finishing

Aluminum	P28-J95	0,30	12	P28-DM05	0,83	33
Brass, Soft	P28-J85	0,40	16	P28-J85	0,40	16
Bronze	P28-J95	0,30	12	P28-J53	0,30	12
Carbide	P28-DM05	0,08	3	P28-DM05	0,08	3
Cast Iron	P28-J95	0,13	5	P28-DM05	0,50	20
Ceramic	P28-DM05	0,38	15	P28-DM05	0,38	15
Glass	P28-DM05	0,38	15	P28-DM05	0,38	15
Steel, Soft	P28-J85	0,10	4	P28-NM05	0,40	16
Steel, Hardened	P28-J95	0,13	5	P28-NM05	0,18	7
Steel, Hardened	P28-J85	0,13	5	P28-NM05	0,18	7

P20 STONE

Fast removal

Tipo di materiale <i>Type of material</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>	Codice Pietra <i>Stone Code</i>	R.A. mm	R.A. micro pollici <i>micro inch</i>
Aluminum	P20-J57	1,38	55	P20-DM85	1,25	50
Brass, Soft	P20-J65	0,83	33	P20-J65	0,83	33
Bronze	P20-J57	1,38	55	P20-J57	1,38	55
Carbide	P20-DM55	0,50	20	P20-DM55	0,50	20
Cast Iron	P20-J57	0,50	20	P20-DM55	2,00	80
Ceramic	P20-DM55	1,00	40	P20-DM55	1,00	40
Glass	P20-DM55	1,75	70	P20-DM55	1,75	70
Steel, Soft	P20-A57	0,75	30	P20-NM55	1,25	50
Steel, Hardened	P20-A55	0,30	12	P20-NM55	1,00	40
Steel, Hardened	P20-A65	0,30	12	-	-	-
Steel, Very Hard	P20-NM55	1,00	40	-	-	-

Fine finishing

Aluminum	P20-J95	0,30	12	P20-DM05	0,83	33
Brass, Soft	P20-J85	0,40	16	P20-J85	0,40	16
Bronze	P20-J95	0,30	12	P20-J95	0,30	12
Carbide	P20-DM05	0,08	3	P20-DM05	0,08	3
Cast Iron	P20-J95	0,13	5	P20-DM05	0,50	20
Ceramic	P20-DM05	0,38	15	P20-DM05	0,38	15
Glass	P20-DM05	0,38	15	P20-DM05	0,38	15
Steel, Soft	P20-J95	0,10	4	P20-NM05	0,40	16
Steel, Hardened	P20-J85	0,13	5	P20-NM05	0,18	7

** Il valore nella tabella è indicativo. Per maggiori informazioni consultare il nostro staff tecnico.**

Values are approximative. For further information contact our staff.



DAMEC

DSS

DAMEC SINGLE STROKE

L'utensile è composto da un'asta, una bussola abrasiva e un pilota per espansione.

Questo mandrino si distingue per la sua elevata produttività, per la sua precisione di lavorazione e per la sua durabilità nel tempo. L'asportazione del sovrametallo da parte di questi utensili è ridotta rispetto ad un utensile standard (pochi centesimi).

La sua precisione deriva dalla regolazione meccanica eseguita grazie al pilota, che permette la ripetibilità dei fori da lavorare.

Gli utensili a singola passata possono essere di due tipologie: con bussola elettrodeposta e con bussola sinterizzata.

La bussola diamantata è disponibile in differenti tipologie di grana:
D00-D0-D1-D3-D5-D7-D8.

HPT is composed by a wedge, an abrasive sleeve and an expansion pilot.

This type of spindle has features such as: high productivity, precision working and long-life in the time.

The stockremoval of these tools reduces more than a standard tool (few cents).

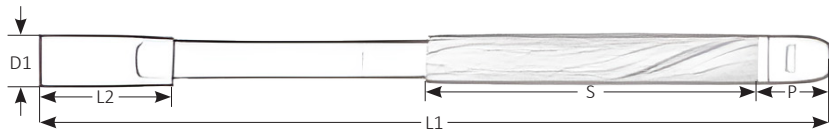
Their precision comes from the mechanical regulation of the pilot, which allows the repeatability of the honing holes.

Single pass tools can be realised in two types: with electroplated sleeve and with sintered sleeve.

Diamond sleeve is available in different types of grit:

D00- D0-D1-D3-D5-D7-D8.

GRANA - GRIT		
COD. DAMEC	FEPA	MESH
D1 - K	70	120
D3 - N	100	84
D5 - M	220	64
D7 - P	320	54
D8 - R	400	46
D0 - S	600	30
D00 - Z	1200	15



Tool range		L1		L2		D1		S		P	
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
6,325- 6,401	.249- .252	269,9	10.63	66,68	2.625	9,525	0.375	76,2	3	34,925	1.375
6,985- 7,061	.275- .278	269,9	10.63	66,68	2.625	9,525	0.375	76,2	3	34,925	1.375
7,912- 7,988	.3115- .3145	269,9	10.63	66,68	2.625	9,525	0.375	76,2	3	34,925	1.375
7,976- 8,052	.314- .317	269,9	10.63	66,68	2.625	9,525	0.375	76,2	3	34,925	1.375
9,500- 9,576	.374- .377	269,9	10.63	66,68	2.625	12,7	0.5	76,2	3	28,575	1.125
9,982- 10,058	.393- .396	269,9	10.63	66,68	2.625	12,7	0.5	76,2	3	28,575	1.125
11,100- 11,176	.437- .440	269,9	10.63	66,68	2.625	12,7	0.5	76,2	3	28,575	1.125
11,963- 12,040	.471- .474	295,3	11.63	66,68	2.625	15,875	0.625	101,6	4	28,575	1.125
12,675- 12,751	.499- .502	295,3	11.63	66,68	2.625	15,875	0.625	101,6	4	28,575	1.125
13,462- 13,538	.530- .533	295,3	11.63	66,68	2.625	19,05	0.75	101,6	4	28,575	1.125
13,970- 14,046	.550- .553	295,3	11.63	66,68	2.625	19,05	0.75	101,6	4	28,575	1.125
14,262- 14,338	.5615- .5645	295,3	11.63	66,68	2.625	19,05	0.75	101,6	4	28,575	1.125
14,973- 15,050	.5895- .5925	295,3	11.63	66,68	2.625	19,05	0.75	101,6	4	28,575	1.125
15,850- 15,926	.624- .627	295,3	11.63	66,68	2.625	19,05	0.75	101,6	4	28,575	1.125
15,977- 16,053	.629- .632	295,3	11.63	66,68	2.625	19,05	0.75	101,6	4	28,575	1.125
16,967- 17,043	.668- .671	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
17,437- 17,513	.6865- .6895	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
17,971- 18,047	.7075- .7105	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
18,974- 19,050	.747- .750	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
19,025- 19,101	.749- .752	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
19,977- 20,053	.7865- .7895	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
20,612- 20,688	.8115- .8145	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
21,971- 22,047	.865- .868	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
22,200- 22,276	.874- .877	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
23,978- 24,054	.944- .947	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125
24,981- 25,057	.9835- .9865	320,7	12.63	66,68	2.625	19,05	0.75	127	5	28,575	1.125

Sono disponibili anche misure di piccole dimensioni che vanno da 2.5mm a 3.6mm su richiesta.

Smaller sizes ranging from 2.5mm to 3.6mm are also available upon request.

MST UTENSILE MULTIPIETRA MULTI STONE TOOL

Questi utensili hanno un range da 0,80mm a 2,2 mm. La loro particolarità è che in cima all'utensile è presente una vite o perno, che regola l'espansione grazie alla sua conicità. L'espansione è prevalentemente manuale e permette il raggiungimento della linearità e ripetitività del foro.

Per poter scegliere correttamente il mandrino da utilizzare, è necessario specificare: diametro del foro, lunghezza del foro, rugosità della superficie iniziale e finale. Possono essere montate su tutte le levigatrici con i loro appositi adattatori

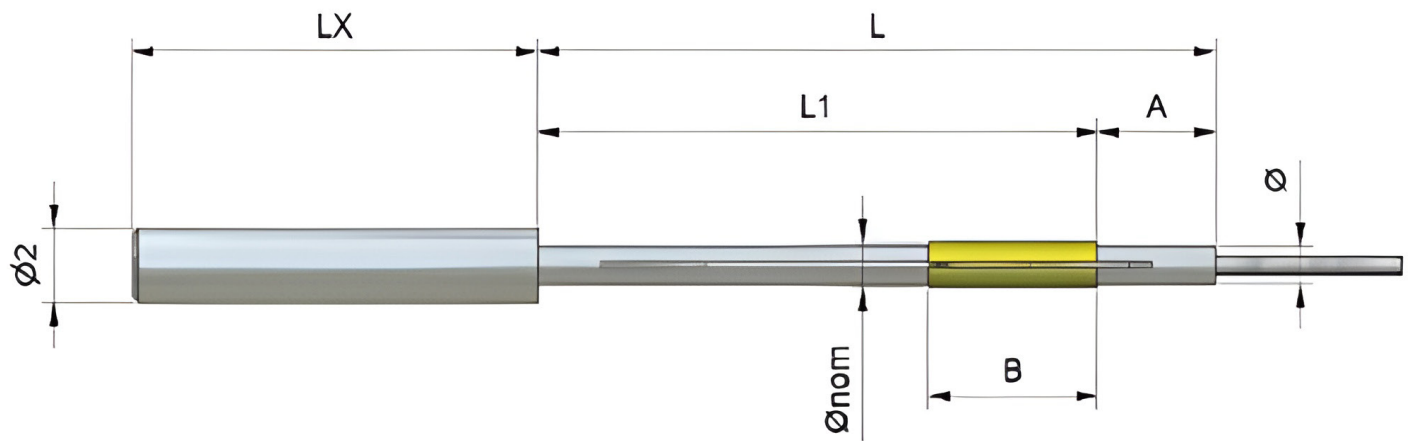
These tools have a range between 0,80mm and 2,2mm. Their main characteristic is situated on the top of the tool where there is a screw, which regulates the expansion thanks to its conicity. The manual expansion allows to reach the linearity and repeatability of the hole.

In order to use the correct mandrel, it is necessary to specify: hole diameter, length of hole, roughness of the initial and final surface.

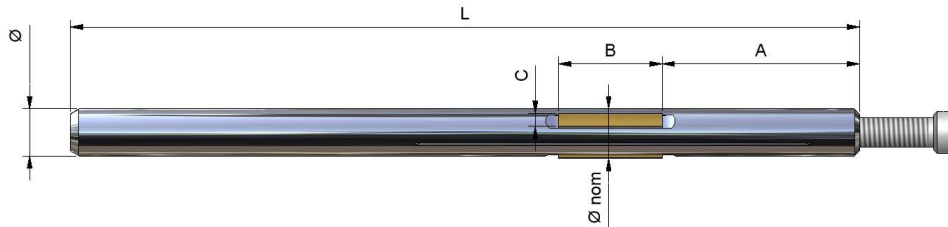
They can be mounted on all honing machines with their specific adapters.

Ø 0.80 - Ø 2.20 RM404D





\varnothing_{nom}	LX	L	L1	A	B
0.8	8.4	13	10	3	3
0.9	8.4	13	10	3	3
1.0	10.2	18	15	3	5
1.1	10.2	18	15	3	5
1.2	12	20	17	3	5
1.3	12	20	17	3	5
1.4	12	20	17	3	5
1.5	12	20	17	3	5
1.6	12	20	17	3	5
1.7	15	25	18	7	6
1.8	15	25	18	7	6
1.9	15	25	18	7	6
2.0	15	25	18	7	6
2.1	15	25	18	7	6
2.2	15	25	18	7	6



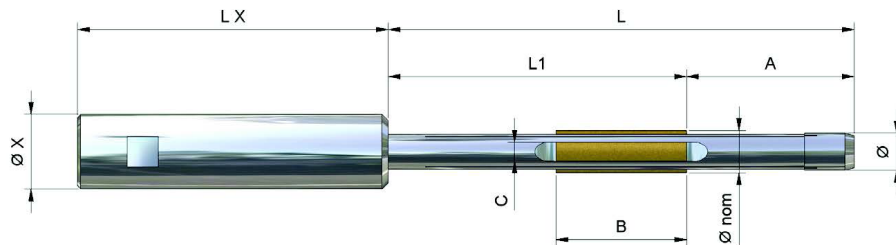
MOLE MANUALI CON INSERTI DIAMANTATI D85 C50 MANUAL LAPS WITH DIAMOND INSERTS D85 C50

Mola scanalata con vite di regolazione a cono per l'espansione e hanno una sola tipologia di abrasivo.

Slotted lap with setting screw with taper for expansion and have only one type of abrasive.

ARTICLE	Ønom	Ø	L	A	B	C	# C
13-002.50	2.5	2.0	65	14	10	0.8	3
13-003.00	3.0	2.5	65	14	10	0.8	3
13-003.50	3.5	3.0	70	17	10	1.0	3
13-004.00	4.0	3.5	70	17	10	1.0	3
13-004.50	4.5	4.0	80	20	12	1.5	3
13-005.00	5.0	4.5	80	20	12	1.5	3
13-005.50	5.5	5.0	100	22	16	2.0	3
13-006.00	6.0	5.5	100	22	16	2.0	3
13-006.50	6.5	6.0	120	22	16	3.0	3
13-007.00	7.0	6.5	120	22	16	3.0	3
13-007.50	7.5	7.0	140	28	21	3.0	3
13-008.00	8.0	7.5	140	28	21	3.0	3
13-008.50	8.5	8.0	140	28	21	3.0	3
13-009.00	9.0	8.5	140	28	21	3.0	3
13-009.50	9.50	9.0	160	28	21	3.0	3
13-010.00	10.0	9.5	160	40	21	3.0	3
13-010.50	10.5	10.0	160	40	21	3.0	3
13-011.00	11.0	10.5	160	40	21	3.0	3
13-011.50	11.5	11.0	160	40	21	3.0	3
13-012.00	12.0	11.5	160	40	21	3.0	3
13-012.50	12.5	12.0	160	40	21	3.0	3
13-013.00	13	12.0	160	40	21	4.0	4
13-014.00	14	13.0	165	50	21	4.0	4
13-015.00	15	14.0	165	50	21	4.0	4
13-016.00	16	15.0	165	50	21	4.0	4
13-017.00	17	16.0	185	60	21	4.0	4
13-018.00	18	17.0	185	60	21	4.0	4
13-019.00	19	18.0	185	60	21	4.0	4
13-020.00	20	19.0	205	60	21	4.0	4
13-021.00	21	20.0	205	60	21	4.0	4

Ø 2.50 - Ø 21.00 RM004D



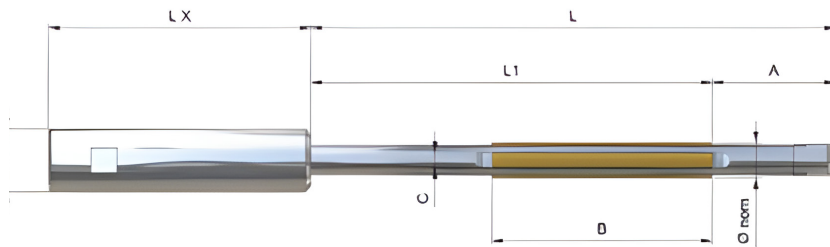
MACHINE LAPS TYPE 039

Mola per macchina da utilizzare con dispositivo di lappatura o con macchina per levigatura dotata di apposito adattatore

Machine lap to be used with lapping device or with honing machine equipped with appropriated adaptor.

ARTICLE	Ønom	Ø	ØX	LX	L	L1	A	B	C	# C
15-001.90	1,95- 2,49	1.9	12	50	30	21.5	8.5	10	0.8	3
15-002.40	2,50- 3,09	2.4	12	50	30	21.5	8.5	10	0.8	3
15-002.90	3,00- 3,49	2.9	12	50	50	35	15	16	1.5	3
15-003.40	3,50- 4,10	3.4	12	50	60	42	18	16	1.5	3
15-003.80	3,90- 4,39	3.8	12	50	60	42	18	16	2.0	3
15-004.30	4,40- 4,89	4.3	12	50	67	45	22	16	2.0	3
15-004.80	4,90- 5,59	4.8	12	50	67	45	22	16	2.0	3
15-005.50	5,60- 6,09	5.5	12	50	75	48	27	21	2.0	3
15-006.00	6,10- 6,79	6.0	12	50	75	48	27	21	3.0	3
15-006.70	6,80- 7,59	6.7	12	50	80	51	29	21	3.0	3
15-007.50	7,60- 8,59	7.5	12	50	80	51	29	21	3.0	3
15-008.50	8,60- 9,59	8.5	12	50	85	54	31	21	3.0	4
15-009.50	9,60- 10,79	9.5	12	50	85	54	31	21	3.0	4
15-010.70	10,80- 11,69	10.7	12	50	90	56	34	21	4.0	4
15-011.60	11,70- 12,59	11.6	12	50	90	56	34	21	4.0	4

Ø 2.00 - Ø 12.00 039 N



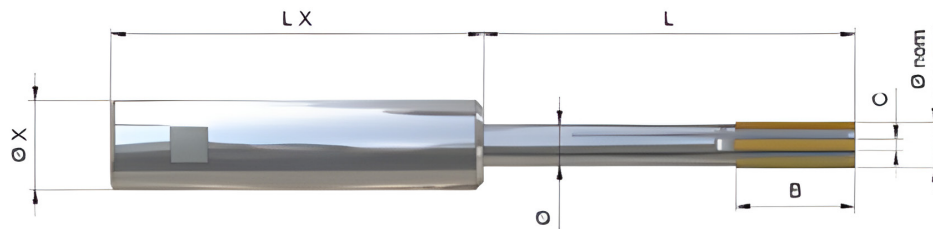
MACHINE LAPS TYPE 039

Mola per macchina da utilizzare con dispositivo di lappatura o con macchina per levigatura dotata di apposito adattatore

Machine lap to be used with lapping device or with honing machine equipped with appropriated adaptor.

ARTICLE	Ønom	Ø	ØX	LX	L	L1	A	B	C	# C
16-001.90	1,95- 2,49	1.9	12	50	40	32	8	10	0.8	3
16-002.40	2,50- 3,09	2.4	12	50	40	32	8	10	0.8	3
16-002.90	3,00- 3,49	2.9	12	50	66	50.5	15.5	20	1.0	3
16-003.40	3,50- 4,10	3.4	12	50	75	57.5	17.5	24	1.5	3
16-003.80	3,90- 4,39	3.8	12	50	75	57.5	17.5	24	2.0	3
16-004.30	4,40- 4,89	4.3	12	50	90	70	20	40	2.0	3
16-004.80	4,90- 5,59	4.8	12	50	90	70	20	40	2.0	3
16-005.50	5,60- 6,09	5.5	12	50	100	77	23	42	3.0	3
16-006.00	6,10- 6,79	6.0	12	50	100	77	23	42	3.0	3
16-006.70	6,80- 7,59	6.7	12	50	110	83	27	42	3.0	3
16-007.50	7,60- 8,59	7.5	12	50	110	83	27	42	3.0	3
16-008.50	8,60- 9,59	8.5	12	50	120	89	31	42	3.0	4
16-009.50	9,60- 10,79	9.5	12	50	120	89	31	42	3.0	4
16-010.70	10,80- 11,69	10.7	12	50	120	89	31	42	4.0	4
16-011.60	11,70- 12,59	11.6	12	50	120	89	31	42	4.0	4

Ø 2.00 - Ø 12.00 039 L



MACHINE LAPS TYPE 039

Mola per macchina da utilizzare con dispositivo di lappatura o con macchina per levigatura dotata di apposito adattatore

Machine lap to be used with lapping device or with honing machine equipped with appropriated adaptor.

ARTICLE	Ønom	Ø	ØX	LX	L	B	C	# C
17-002.20	2,30- 2,79	2,2	12	50	40	10	0.8	4
17-002.70	2,80- 3,29	2,7	12	50	50	10	1.0	4
17-003.20	3,30- 3,69	3,0	12	50	50	10	1.0	4
17-003.60	3,70- 4,50	3,6	12	50	50	10	1.0	4
17-004.00	4,10- 5,00	4,0	12	50	50	16	1.0	6
17-004.50	4,60- 5,60	4,5	12	50	50	16	1.0	6
17-005.10	5,20- 5,90	5,1	12	50	50	16	1.5	6
17-005.70	5,80- 6,70	5,7	12	50	50	16	1.5	6
17-006.30	6,40- 7,50	6,3	12	50	50	16	2.0	6
17-007.10	7,20- 8,30	7,1	12	50	50	16	2.0	6
17-008.10	8,20- 9,30	8,1	12	50	50	16	3.0	6
17-009.10	9,20- 10,29	9,1	12	50	50	16	3.0	6
17-010.20	10,30- 11,50	10,0	12	50	70	21	3.0	6
17-011.20	11,30- 12,59	11,2	12	50	70	21	3.0	6

Ø 2.00 - Ø 12.00 039 B

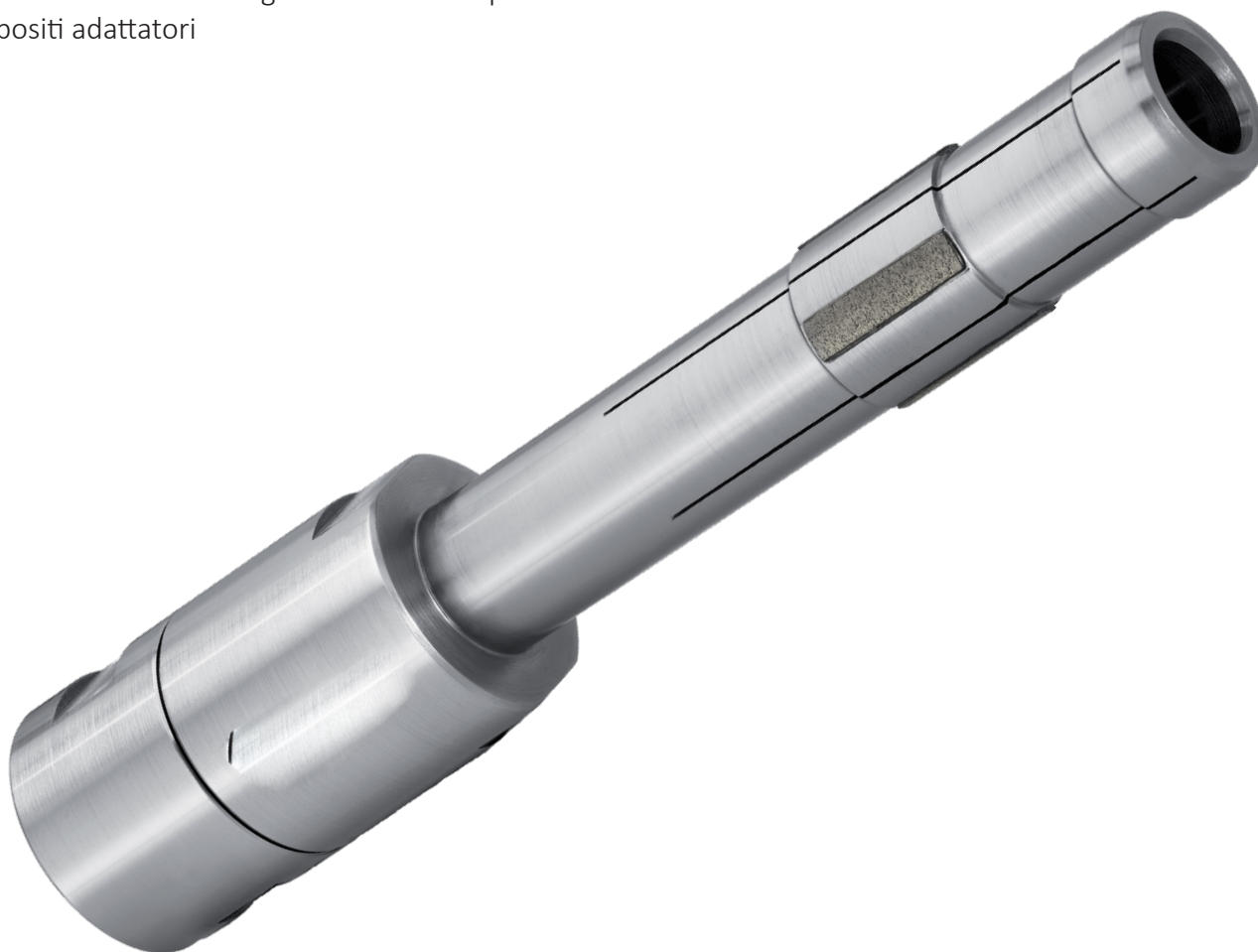
MST 047 N **UTENSILE MULTIPIETRA** **MULTI STONE TOOL**

Questi tipi di utensili si possono usare su qualsiasi macchina lappatrice, grazie agli appositi adattatori. Per poter scegliere correttamente il mandrino da utilizzare, è necessario specificare: diametro del foro, lunghezza del foro, rugosità della superficie, sovrametallo da rimuovere e materiale.

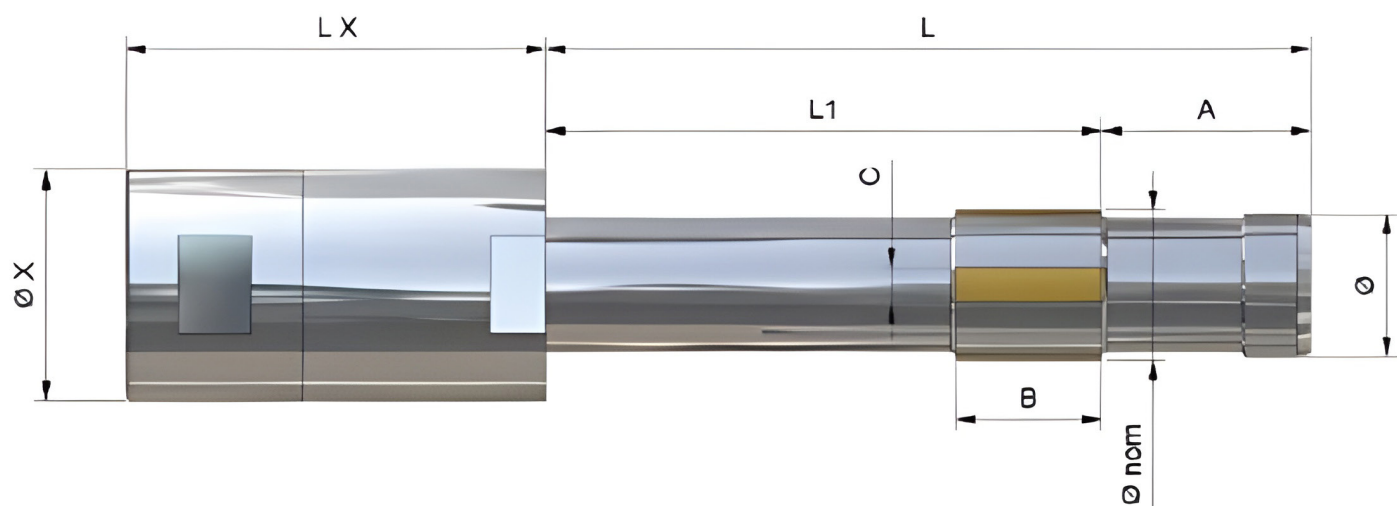
Questi utensili partono da un diametro minimo di 1,95 mm e possono essere montate su tutte levigatrici con i loro appositi adattatori

These tools can be equipped on any kind of honing machine with an appropriate adapter. In order to use the correct mandrel, it is necessary to specify: hole diameter, length of hole, roughness of the initial and final surface.

MST 047 the minimum diameter starts from 1,95 mm and can be mounted on all honing machines with their specific adapters.



Ø 13.00 - Ø 30.00 047 N



ARTICLE	$\varnothing \text{ nom}$	\varnothing	$\varnothing X$	LX	L	$L1$	A	B	C	# C
20-012.50	12,60 – 13,59	12,5	25	65	90	65	25	21	4,0	4
20-013.50	13,60 – 14,59	13,5	25	65	90	65	25	21	4,0	4
20-014.50	14,60 – 15,59	14,5	25	65	90	65	25	21	5,0	4
20-015.50	15,60 – 16,59	15,5	25	65	90	65	25	21	5,0	4
20-016.50	16,60 – 17,59	16,5	25	65	100	75	25	21	5,0	4
20-017.50	17,60 – 18,59	17,5	25	65	100	75	25	21	5,0	4
20-018.50	18,60 – 19,59	18,5	25	65	100	75	25	21	5,0	4
20-019.50	19,60 – 20,59	19,5	25	65	100	75	25	21	5,0	4
20-020.50	20,60 – 21,59	20,5	33	60	110	80	30	21	5,0	4
20-021.50	21,60 – 22,59	21,5	33	60	110	80	30	21	5,0	4
20-022.50	22,60 – 23,59	22,5	33	60	110	80	30	21	5,0	6
20-023.50	23,60 – 24,59	23,5	33	60	110	80	30	21	5,0	6
20-024.50	24,60 – 25,59	24,5	33	60	120	90	30	21	5,0	6
20-025.50	25,60 – 26,59	25,5	33	60	120	90	30	21	5,0	6
20-026.50	26,60 – 27,59	26,5	33	60	120	90	30	21	5,0	6
20-027.50	24,60 – 28,59	27,5	33	60	120	90	30	21	5,0	6
20-028.50	28,60 – 29,59	28,5	33	60	120	90	30	21	5,0	6
20-029.50	29,60 – 30,59	29,5	33	60	120	90	30	21	5,0	6

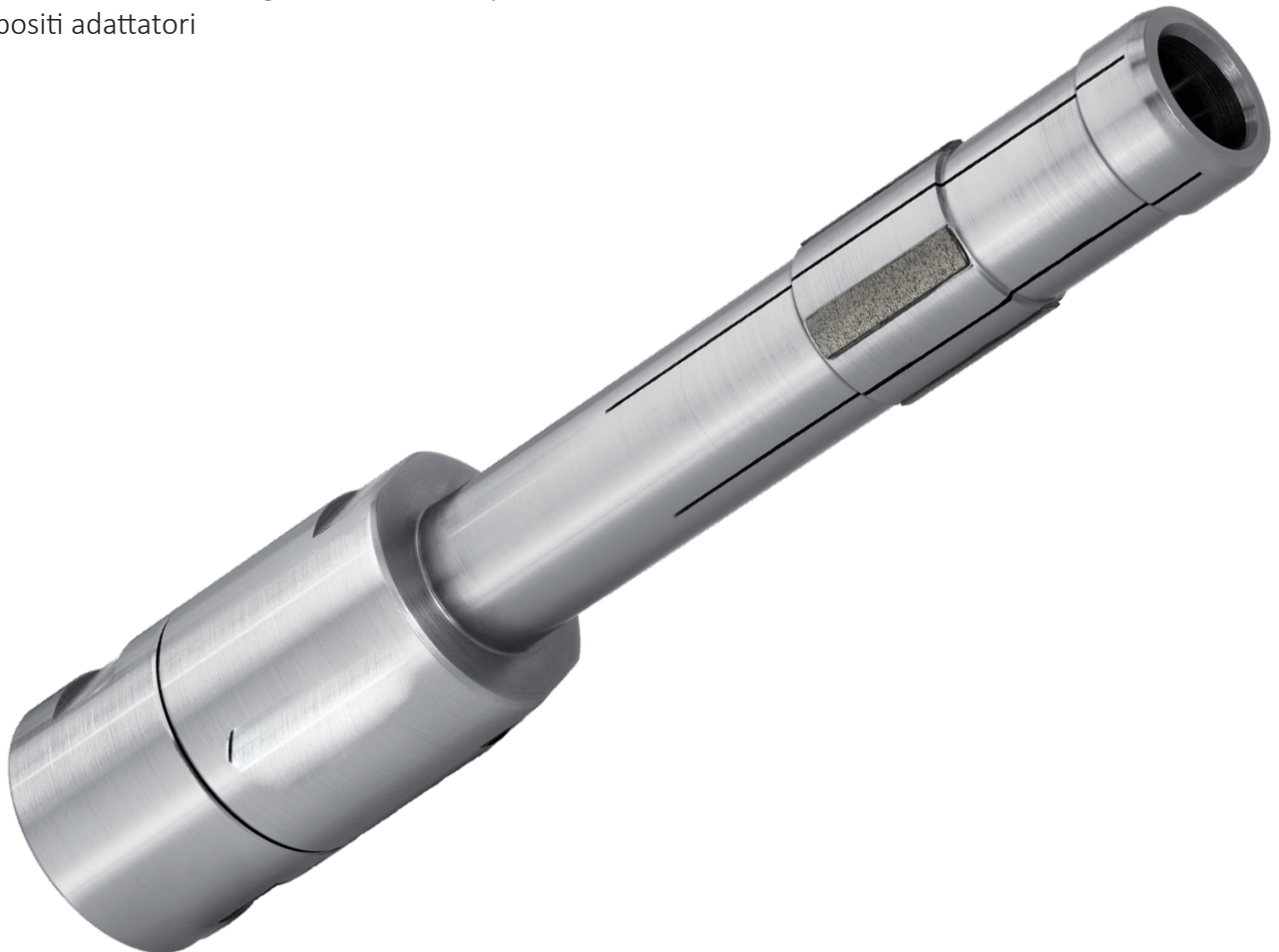
MST 047 L **UTENSILE MULTIPIETRA** **MULTI STONE TOOL**

Questi tipi di utensili si possono usare su qualsiasi macchina lappatrice, grazie agli appositi adattatori. Per poter scegliere correttamente il mandrino da utilizzare, è necessario specificare: diametro del foro, lunghezza del foro, rugosità della superficie, sovrametallo da rimuovere e materiale.

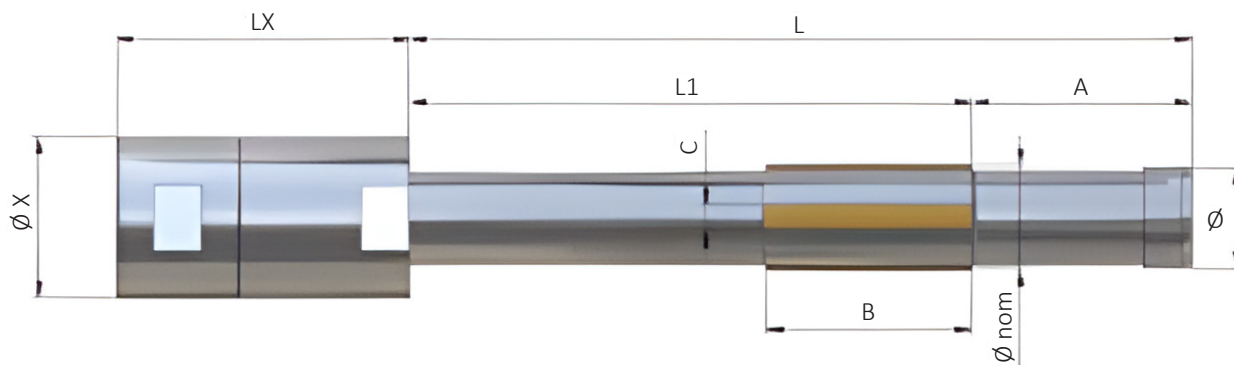
Questi utensili partono da un diametro minimo di 1,95 mm e possono essere montate su tutte levigatrici con i loro appositi adattatori

These tools can be equipped on any kind of honing machine with an appropriate adapter. In order to use the correct mandrel, it is necessary to specify: hole diameter, length of hole, roughness of the initial and final surface.

MST 047 the minimum diameter starts from 1,95 mm and can be mounted on all honing machines with their specific adapters.



Ø 13.00 - Ø 30.00 047 L



ARTICLE	$\varnothing nom$	\varnothing	$\varnothing X$	LX	L	L1	A	B	C	# C
21-012.50	12,60 – 13,59	12,5	25	65	130	95	35	42	4,0	4
21-013.50	13,60 – 14,59	13,5	25	65	130	95	35	42	4,0	4
21-014.50	14,60 – 15,59	14,5	25	65	130	95	35	42	5,0	4
21-015.50	15,60 – 16,59	15,5	25	65	130	95	35	42	5,0	4
21-016.50	16,60 – 17,59	16,5	25	65	140	105	35	42	5,0	4
21-017.50	17,60 – 18,59	17,5	25	65	140	105	35	42	5,0	4
21-018.50	18,60 – 19,59	18,5	25	65	140	105	35	42	5,0	4
21-019.50	19,60 – 20,59	19,5	25	65	140	105	35	42	5,0	4
21-020.50	20,60 – 21,59	20,5	33	60	160	115	45	42	5,0	4
21-021.50	21,60 – 22,59	21,5	33	60	160	115	45	42	5,0	4
21-022.50	22,60 – 23,59	22,5	33	60	160	115	45	42	5,0	6
21-023.50	23,60 – 24,59	23,5	33	60	160	115	45	42	5,0	6
21-024.50	24,60 – 25,59	24,5	33	60	160	115	45	42	5,0	6
21-025.50	25,60 – 26,59	25,5	33	60	160	115	45	42	5,0	6
21-026.50	26,60 – 27,59	26,5	33	60	160	115	45	42	5,0	6
21-027.50	24,60 – 28,59	27,5	33	60	160	115	45	42	5,0	6
21-028.50	28,60 – 29,59	28,5	33	60	160	115	45	42	5,0	6
21-029.50	29,60 – 30,59	29,5	33	60	160	115	45	42	5,0	6

MST 047 B

UTENSILE MULTIPIETRA PER FORO CIECO

MULTI STONE TOOL FOR BLIND HOLE

Con questi tipi di utensili si possono lavorare fori ciechi, esattamente come i precedenti MST 047, si possono montare su tutte le macchine lappatrici grazie ai loro adattatori.

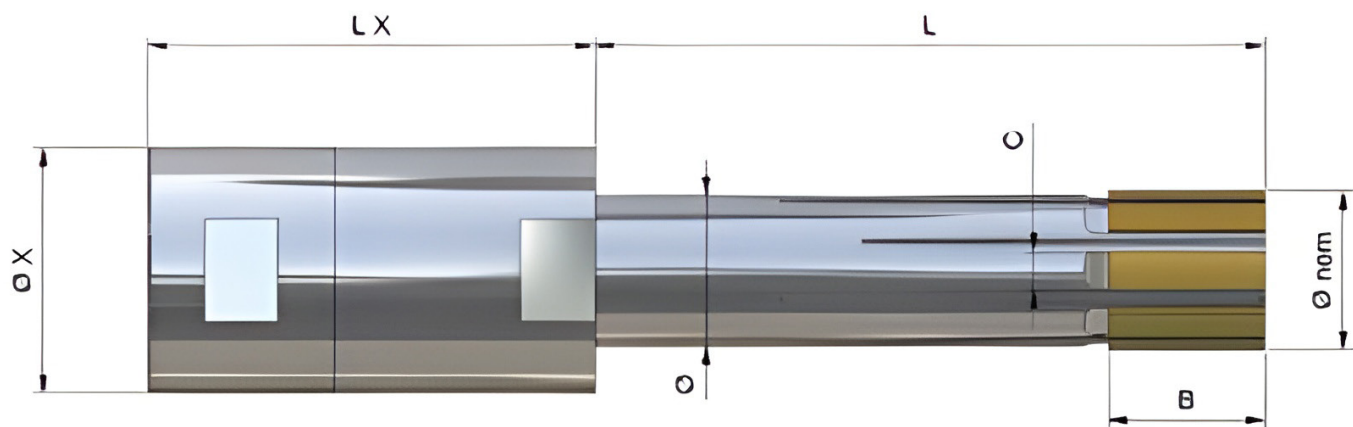
Per poter scegliere correttamente il mandrino da utilizzare, è necessario specificare: diametro del foro, lunghezza del foro, rugosità della superficie iniziale e finale. Questi utensili partono da un diametro minimo di 2,30 mm e possono essere montate su tutte levigatrici con i loro appositi adattatori

MST 047B work on blind holes, as the previous one MST 047, can be equipped on the honing machine, thanks to their adapters.

In order to use the correct mandrel, it is necessary to specify: hole diameter, length of hole, roughness of the initial and final surface. MST 047B the minimum diameter starts from 2,30 mm and can be mounted on all honing machines with their specific adapters.

Ø 13.00 - Ø 30.00 047 B





ARTICLE	Ø nom	Ø	ØX	LX	L	B	C	# C
22-012.10	12,20 - 13,19	12,1	25	65	80	21	4.0	6
22-013.10	13,20 - 14,19	13,1	25	65	80	21	4.0	6
22-014.10	14,20 - 15,19	14,1	25	65	80	21	4.0	6
22-015.10	15,20 - 16,19	15,1	25	65	80	21	4.0	6
22-016.10	16,20 - 17,19	16,1	25	65	90	21	4.0	6
22-017.10	17,20 - 18,19	17,1	25	65	90	21	4.0	6
22-018.10	18,20 - 19,19	18,1	25	65	90	21	4.0	6
22-019.10	19,20 - 20,19	19,1	25	65	90	21	4.0	6
22-020.10	20,20 - 21,19	20,1	33	60	90	21	5.0	8
22-021.10	21,20 - 22,19	21,1	33	60	90	21	5.0	8
22-022.10	22,20 - 23,19	22,1	33	60	90	21	5.0	8
22-023.10	23,20 - 24,19	23,1	33	60	90	21	5.0	8
22-024.10	24,20 - 25,19	24,1	33	60	90	21	5.0	8
22-025.10	25,20 - 26,19	25,1	33	60	90	21	5.0	8
22-026.10	26,20 - 27,19	26,1	33	60	90	21	5.0	8
22-027.10	27,20 - 28,19	27,1	33	60	90	21	5.0	8
22-028.10	28,20 - 29,19	28,1	33	60	90	21	5.0	8
22-029.10	29,20 - 30,19	29,1	33	60	90	21	5.0	8

APPARECCHIO PER LAPPATURA AH 039 < \varnothing 12.5 **LAPPING DEVICE AH 039 < \varnothing 12.5**

Questi apparecchi di alta precisione servono per montare lappatori speciali sulle macchine tradizionali, come i torni e rettifiche.

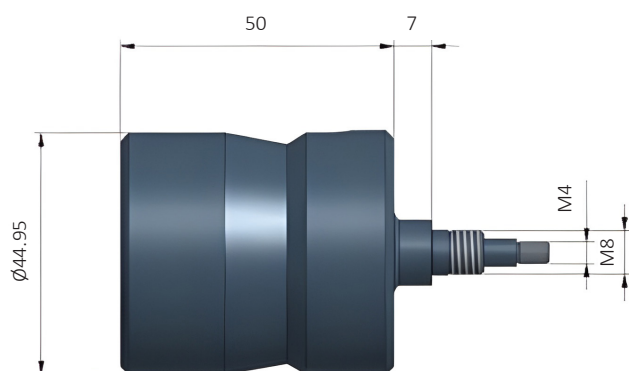
Questo permette di eseguire una lappatura sul foro interno dei pezzi da lavorare, pur non avendo una macchina lappatrice utilizzando solo multipietra DAMEC.

Cod. Articolo: 88-000.00

These high precision devices, work as special tools on traditional machines, such as lathe and grinding.

It allows to obtain an inner hole honing of the work pieces, even without a honing machine only using DAMEC multi-stone tools.

Article N°: 88-000.00



APPARECCHIO PER LAPPATURA AH 047 > Ø12.5 LAPPING DEVICE AH 047 > Ø 12.5

Questi apparecchi di alta precisione servono per montare lappatori speciali sulle macchine tradizionali, come i torni e rettifiche.

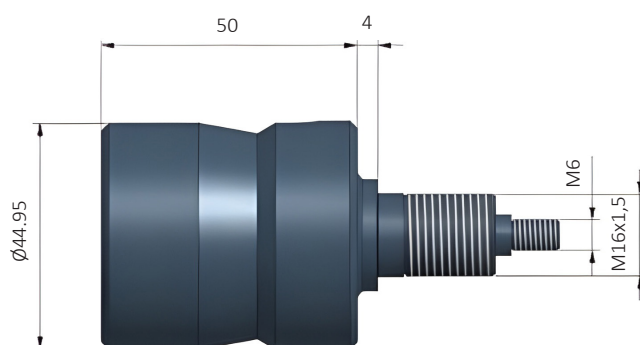
Questo permette di eseguire una lappatura sul foro interno dei pezzi da lavorare, pur non avendo una macchina lappatrice utilizzando solo multipietra DAMEC

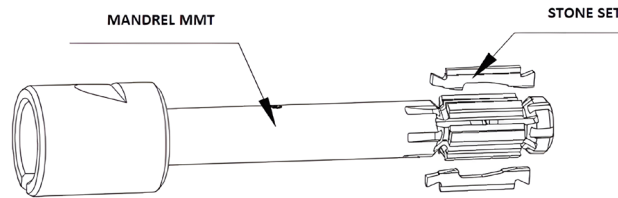
Cod. Articolo: 90-000.00

These high precision devices, work as special tools on traditional machines, such as lathe and grinding.

It allows to obtain an inner hole honing of the work pieces, even without a honing machine only using DAMEC multi-stone tools.

Article N°: 90-000.00





MULTIPIETRA STANDARD STANDARD MULTI-STONE TOOL

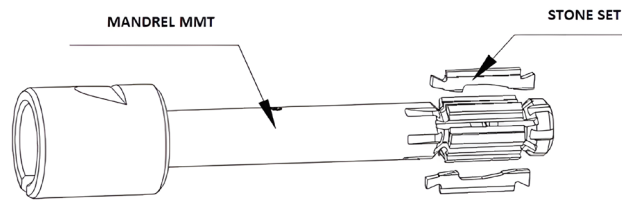
I mandrini Multi-pietra forniscono una maggior velocità e maggior precisione su applicazioni che vengono utilizzate su macchine di alta produzione, incluse le lappatrici Damec quali: DHM, DDH, DCB 530 e DCE 60. Questi mandrini sono utilizzati per diametri di foratura > 20 mm.

Multi-stone mandrels provide superior speed and accuracy on applications using a variety of high-production machines, including the Damecs DHM, DDH, DCB 530 and DCE 60. These mandrels are used for bore diameters > 20 mm.

Lunghezza pietra 35mm *Length of stone is 35mm*

Lunghezza foro <45mm *Length of parts <45mm*

Codes	Diameter range
D4K8-20	19.8-20.66
D4K8-20.5	20.30-21.16
D4K8-21	20.80-21.66
D4K8-21.5	21.30-22.16
D4K10-22	21.70-22.64
D4K10-22.5	22.20-23.14
D4K10-23	22.70-23.64
D4K10-23.5	23.20-24.14
D6K10-24	23.70-24.64
D6K10-24.5	24.20-25.14
D6K10-25	24.70-25.64
D6BL10-25.5	25.20-26.14
D6K12-26	25.7-27.30
D6K12-27	26.7-28.30
D6K12-28	27.7-29.30
D6K12-29	28.7-30.30
D6K12-30	29.7-31.30
D6K12-31	30.70-32.30
D6K12-32	31.70-33.30
D6K12-33	32.70-34.30
D6K12-34	33.70-35.30
D6K12-35	34.70-36.30

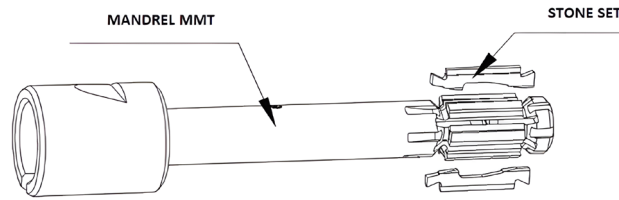


Lunghezza pietra 60mm
Lunghezza foro 40mm-70mm

Codes	Diameter range
D4L8-20	19.8-20.66
D4L8-20.5	20.30-21.16
D4L8-21	20.80-21.66
D4L8-21.5	21.30-22.16
D4L10-22	21.70-22.64
D4L10-22.5	22.20-23.14
D4L10-23	22.70-23.64
D4L10-23.5	23.20-24.14
D6L10-24	23.70-24.64
D6L10-24.5	24.20-25.14
D6L10-25	24.70-25.64
D6L10-25.5	25.20-26.14
D61P5K12-26	25.7-27.30
D61P5K12-27	26.7-28.30
D61P5K12-28	27.7-29.30
D61P5K12-29	28.7-30.30
D61P5K12-30	29.7-31.30
D61P5K12-31	30.70-32.30
D61P5K12-32	31.70-33.30
D61P5K12-33	32.70-34.30
D61P5K12-34	33.70-35.30
D61P5K12-35	34.70-36.30

Length of stones is 60mm
Lengths of parts are 40mm-70mm

D6K16-36	35.7-38.27
D6K16-38	37.7-40.27
D6K16-40	39.7-42.27
D6K16-42	41.7-44.27
D6K20-44	43.7-46.27
D6K20-46	45.7-48.27
D6K20-48	47.70-50.27
D6K20-50	49.70-52.27
D6K20-52	51.7-54.27
D6K20-54	53.7-56.27
D6K20-56	55.7-58.27
D6K20-58	57.7-60.27

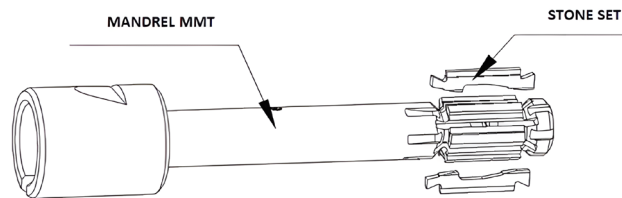


Lunghezza pietra 85mm
Lunghezza foro 60mm-100mm

Codes	Diameter range
D41P5L8-20	19.8-20.66
D41P5L8-20.5	20.30-21.16
D41P5L8-21	20.80-21.66
D41P5L8-21.5	21.30-22.16
D41P5L10-22	21.70-22.64
D41P5L10-22.5	22.20-23.14
D41P5L10-23	22.70-23.64
D41P5L10-23.5	23.20-24.14
D41P5L10-24	23.70-24.64
D41P5L10-24.5	24.20-25.14
D41P5L10-25	24.70-25.64
D4(6)1P5L10-25.5	25.20-26.14
D4(6)1P5L10-26	25.7-26.64
D4(6)1P5L10-26.5	26.2-27.14
D4(6)1P5L10-27	26.7-27.64
D4(6)1P5L10-27.5	27.2-28.14
D6L12-28	27.7-29.30
D6L12-29	28.7-30.30
D6L12-30	29.7-31.30
D6L12-31	30.70-32.30
D6L12-32	31.70-33.30
D6L12-33	32.70-34.30

*Length of stone is 85mm
Lengths of parts are 60mm-100mm*

D6L12-34	33.70-35.30
D6L12-35	34.70-36.30
D61P5K16-36	35.7-38.27
D61P5K16-38	37.7-40.27
D61P5K16-40	39.7-42.27
D61P5K16-42	41.7-44.27
D61P3K20-44	43.7-46.27
D61P3K 20-46	45.7-48.27
D61P3K 20-48	47.70-50.27
D61P3K 20-50	49.70-52.27
D61P3K20-52	51.7-54.34
D61P3K 20-54	53.7-56.34
D61P3K 20-56	55.7-58.34
D61P3K 20-58	57.7-60.34

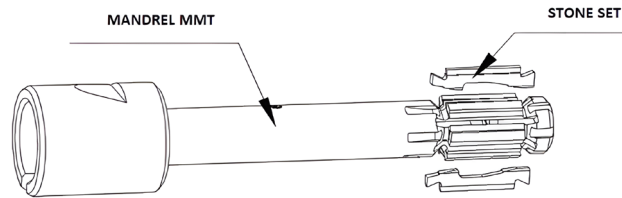


Lunghezza pietra 114mm
Lunghezza foro 90mm-155mm

Codes	Diameter range
D42L8-20	19.8-20.66
D42L8-20.5	20.30-21.16
D42L8-21	20.80-21.66
D42L8-21.5	21.30-22.16
D42L10-22	21.70-22.64
D42L10-22.5	22.20-23.14
D42L10-23	22.70-23.64
D42L10-23.5	23.20-24.14
D42L10-24	23.70-24.64
D42L10-24.5	24.20-25.14
D42L10-25	24.70-25.64
D42L10-25.5	25.20-26.14
D42L10-26	25.7-26.64
D42L10-26.5	26.2-27.14
D42L10-27	26.7-27.64
D42L10-27.5	27.2-28.14
D61P25L12-28	27.70-29.3
D61P25L12-29	28.70-30.30
D61P25L12-30	29.7-31.30
D61P25L12-31	30.70-32.30
D61P25L12-32	31.70-33.30
D61P25L12-33	32.70-34.30

Length of stone is 114mm
Lengths of parts are 90mm-155mm

D61P25L12-34	33.70-35.30
D61P25L12-35	34.70-36.30
D6L16-36	35.7-38.27
D6L16-38	37.7-40.27
D6L16-40	39.7-42.27
D6L16-42	41.7-44.27
D6L20-44	43.7-46.27
D6L16-46	45.7-48.27
D6L16-48	47.70-50.27
D6L16-50	49.70-52.27

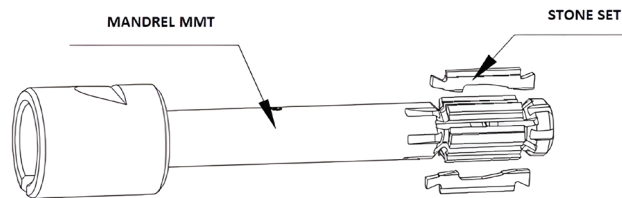


Lunghezza pietra 160mm
Lunghezza foro 150mm-240mm

Codes	Diameter range
D42P8L10-20	19.8-20.66
D42P8L10-20.5	20.30-21.16
D42P8L10-21	20.80-21.66
D42P8L10-21.5	21.30-22.16
D42P8L10-22	21.70-22.64
D42P8L10-22.5	22.20-23.14
D42P8L10-23	22.70-23.64
D42P8L10-23.5	23.20-24.14
D41P8N90-24	23.70-24.64
D41P8N90-24.5	24.20-25.14
D41P8N90-25	24.70-25.64
D41P8N90-25.5	25.20-26.14
D41P8N90-26	25.7-26.64
D41P8N90-26.5	26.2-27.14
D41P8N90-27	26.7-27.64
D41P8N90-27.5	27.2-28.14
D63SK12-28	27.70-29.3
D63SK12-29	28.70-30.30
D63SK12-30	29.7-31.30
D63SK12-31	30.70-32.30
D63SK12-32	31.70-33.30
D63SK12-33	32.70-34.30

*Length of stone is 160mm
Lengths of parts are 150mm-240mm*

D63SK12-34	33.70-35.30
D63SK12-35	34.70-36.30
D62P8K16-36	35.7-38.27
D62P8K 16-38	37.7-40.27
D62P8K 16-40	39.7-42.27
D62P8K 16-42	41.7-44.27
D62P8K 16-44	43.7-46.27
D62P8K 16-46	45.7-48.27
D62P8K 16-48	47.70-50.27
D62P8K 16-50	49.70-52.27

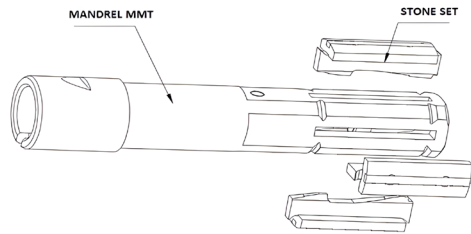


Lunghezza pietra 210mm
Lunghezza foro 200mm-350mm

Codes	Diameter range
D43P7L10-20	19.8-20.66
D43P7L10-20.5	20.30-21.16
D43P7L10-21	20.80-21.66
D43P7L10-21.5	21.30-22.16
D43P7L10-22	21.70-22.64
D43P7L10-22.5	22.20-23.14
D43P7L10-23	22.70-23.64
D43P7L10-23.5	23.20-24.14
D43P7L10-24	23.70-24.64
D43P7L10-24.5	24.20-25.14
D43P7L10-25	24.70-25.64
D43P7L10-25.5	25.20-26.14
D42P3N90-26	25.7-26.64
D42P3N90-26.5	26.2-27.14
D42P3N90-27	26.7-27.64
D42P3N90-27.5	27.2-28.14
D42P3N90-28	27.7-28.64
D42P3N90-28.5	28.20-29.14
D42P3N90-29	28.70-29.64
D42P3N90-29.5	29.20-30.14
D63P7K16-30	29.7-31.30
D63P7K16-31	30.70-32.30

Length of stone is 210mm
Lengths of parts are 200mm-350mm

D63P7K16-32	31.70-33.30
D63P7K16-33	32.70-34.30
D63P7K16-34	33.70-35.30
D63P7K16-35	34.70-36.30
D63P7K16-36	35.7-38.27
D63P7K16-37	36.7-38.27
D63P7K16-38	37.7-40.27
D63P7K16-40	39.7-42.27
D63P7K16-42	41.7-44.27
D63P7K16-44	43.7-46.27



MULTIPIETRA Y Y MULTI-STONE TOOL

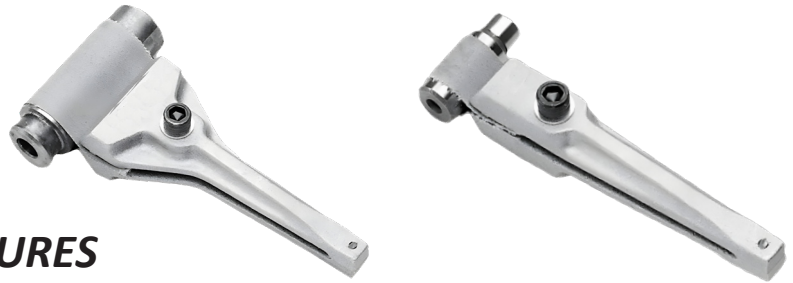
Adatto per i fori di grande diametro che presentano una cava, dove sono richieste elevate precisioni di rotondità e rugosità superficiale

It is for the big bore which has key slot, there is the high requirement of the roundness and roughness

Diameter range is \varnothing 24- \varnothing 65

Codes	Available range
D4Y24-44	Diameters \varnothing 24mm- \varnothing 25mm \varnothing Length of part <60mm
D4Y28-44	DIA \varnothing 24- \varnothing 25, L <60mm
D4Y29p5-80	DIA \varnothing 29.5- \varnothing 30.5, L 60-100mm
D4Y32-160	DIA \varnothing 32- \varnothing 33.5, L 150-240mm
D4Y32-210	DIA \varnothing 32- \varnothing 33.5, L 150-240mm
D4Y35-44	DIA \varnothing 35- \varnothing 36.5, L <60mm
D4Y35-88	DIA \varnothing 35- \varnothing 36.5, L 60-100mm
D4Y39-100	DIA \varnothing 39- \varnothing 40.5, L 90-155mm
D4Y40-150	DIA \varnothing 40- \varnothing 42, L 140-230mm
D4Y43-100	DIA \varnothing 43- \varnothing 45, LL90-155mm
D4Y39-100	DIA \varnothing 43- \varnothing 45, L L90-155mm
D4Y52-63	DIA \varnothing 52- \varnothing 53, L L40-80mm
D4Y52-114	DIA \varnothing 52- \varnothing 53, L L90-155mm
D4Y52-160	DIA \varnothing 52- \varnothing 53, L 150-240mm
D4Y52P3-125	DIA \varnothing 52.3- \varnothing 53.3, L 100-165mm
D4Y53P5-114	DIA \varnothing 53.8- \varnothing 54.5, L90-155mm
D4Y63-63	DIA \varnothing 63- \varnothing 64,L40-80mm
D4Y63-114	DIA \varnothing 63- \varnothing 64, L 90-155mm
D4Y65-125	DIA \varnothing 65- \varnothing 66, L 100-165mm

PINZA PRESA PEZZO LOOP GRIP HOLDING FIXTURES



Particolarmente utile per parti difficili da bloccare come tubi a parete sottile, cilindri di vetro, valvole, piccoli particolari con superfici lisce e particolari con sporgenze taglienti come frese.

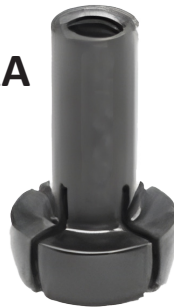
I particolari possono essere inseriti e rimossi facilmente. La maniglia della attrezzatura poggia sulla barra anti-coppia per assorbire la coppia di levigatura e ridurre l'affaticamento dell'operatore.

Especially useful for hard-to-hold parts such as thinwall tubes, glass barrels, valve spools, small parts with smooth surfaces, and parts with sharp projections such as milling cutters.

Parts can be inserted and removed easily. Fixture handle rests on torque bar to absorb honing torque and reduce operator fatigue.

PINZA / FIXTURE PART	LARGHEZZA PINZA / EMERY CLOTH WIDTH mm	TELA ABRASIVA / ABRASIVE CLOTH
HF-75	19,0	TF-20
HF-200	50,0	TF-50
HF-300	76,2	TF-80

DASC - TAMPONE DI MISURA DASC - SENSING UNITS



I tastatori sono costituiti da un tappo fessurato con vite di registrazione centrale. La regolazione compensa l'usura e prolunga la durata del tastatore. È possibile utilizzare lo stesso tastatore sia per la sgrossatura che per la finitura.

Sensing Tips consist of a split plug with central adjusting screw. Adjustment compensates for wear—extends the life of the sensing tip. You can also use the same sensing tip for rough and finish honing.

Part N°	Nominal Ø	Ø Range		DASC-0422	10,72	10,47	10,95	DASC-0734	18,65	18,39	18,87
	mm	low mm	high mm	DASC-0438	11	10,82	11,30	DASC-0750	19	18,80	19,28
DASC-0125	3,18	3,05	3,53	DASC-0453	11,51	11,25	11,74	DASC-0766	19,45	19,20	19,69
DASC-0141	3,57	3,42	3,91	DASC-0469	12	11,71	12,19	DASC-0781	20	19,69	20,17
DASC-0156	4	3,81	4,29	DASC-0484	12,3	12,04	12,52	DASC-0797	20,24	19,99	20,47
DASC-0172	4,36	4,22	4,70	DASC-0500	12,7	12,45	12,93	DASC-0812	20,64	20,37	20,85
DASC-0188	4,76	4,57	5,05	DASC-0516	13	12,83	13,31	DASC-0828	21	20,78	21,26
DASC-0203	5	4,85	5,33	DASC-0531	13,50	13,23	13,72	DASC-0844	21,43	21,18	21,67
DASC-0219	5,56	5,36	5,84	DASC-0547	14	13,72	14,20	DASC-0859	22	21,67	22,15
DASC-0234	6	5,74	6,22	DASC-0562	14,29	14,02	14,50	DASC-0875	22,22	21,97	22,45
DASC-0250	6,35	6,10	6,58	DASC-0578	14,68	14,43	14,91	DASC-0891	22,62	22,38	22,86
DASC-0266	6,75	6,50	6,99	DASC-0594	15	14,81	15,29	DASC-0906	23	22,76	23,24
DASC-0281	7	6,83	7,32	DASC-0609	15,48	15,22	15,70	DASC-0922	23,42	23,17	23,65
DASC-0297	7,54	7,29	7,77	DASC-0625	15,88	15,62	16,10	DASC-0938	24	23,67	24,16
DASC-0312	8	7,72	8,20	DASC-0630	16	15,75	16,23	DASC-0953	24,21	23,95	24,44
DASC-0328	8,33	8,08	8,56	DASC-0641	16,27	16,03	16,51	DASC-0969	24,61	24,36	24,84
DASC-0344	8,73	8,48	8,97	DASC-0656	16,67	16,41	16,89	DASC-0984	25	24,69	25,17
DASC-0359	9	8,81	9,30	DASC-0672	17	16,79	17,27	DASC-1000	25,40	25,15	25,63
DASC-0375	9,53	9,27	9,75	DASC-0688	17,46	17,22	17,70	DASC-1016	26	25,68	26,16
DASC-0391	10	9,73	10,21	DASC-0703	18	17,70	18,19				
DASC-0406	10,32	10,06	10,54	DASC-0719	18,26	18,01	18,49				

PTH

UTENSILE PER LA LAPPATURA PORTATILE

PORTABLE HONING TOOL

Questo dispositivo per lappatura con azionamento manuale è composto da: una testa lappatrice, un supporto abrasivo, una barra di estensione, un adattatore e un set di abrasivi.

Vi sono differenti serie di utensili a seconda della tipologia di macchina e/o lavorazione di levigatura, che possono essere applicate su differenti tipologie di macchine utensili, come trapano a mano, trapani a colonna, macchine perforatrici radiali e torni con precisione centesimale.

Questi strumenti sono studiati per le piccole serie, per le campionature o per la lavorazione dei singoli pezzi avendo tolleranze centesimali e la possibilità di essere montati su torni e trapani industriali.

This tool has a manual operation, which is composed by: honing head, abrasive's support, wedge, adaptor.

There are different types of tools, depending on the machine's type and / or on honing process. Moreover, they can work on different types of machines, hand drill, drilling machines and lathe con precisione centesimale.

These tools are designed for small batches, prototypes or single workpiece machining, with tolerances in the hundredths and the possibility to be mounted on industrial lathes and drilling machines



FILTRI FILTERS

Damec offre ai propri clienti diverse tipologie di sistemi di filtraggio.

I Contenitori filtranti PFC 05/06 sono costruiti in AISI 304 o AISI 316, al loro interno possono montare cartucce con differenti gradi di filtrazione. I gradi filtranti delle cartucce si misurano in micron: 05 μ - 10 μ - 20 μ - 30 μ - 40 μ .

Inoltre, essi possiedono una chiusura rapida e sono idonei per liquidi non pericolosi appartenenti al gruppo 2 (in accordo alla Direttiva 97/23/CE PED).

Hanno una configurazione standard ad "L" con uscita sul fondo per permette il totale drenaggio del filtro.

Scheda tecnica:

- » Finitura standard: decapato;
- » Altre finiture su richiesta: satinato esternamente, elettrolucidato;
- » Guarnizione di chiusura: EPDM;
- » Viton, Buna-N, Silicone, PTFE (guaine su richiesta);
- » Gambe di sostegno regolabili.

DAMEC offers to its customer different types of system of filtration.

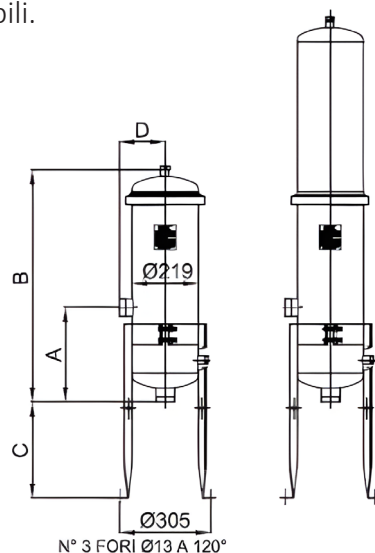
DAMEC containers PFC 05/06 are built in AISI 304 or AISI 316, into which you can put different cartridges of different filtration' grades.

The filtration grades of cartridges are measured in micron: 05 μ - 10 μ - 20 μ - 30 μ - 40 μ .

They also have a special close, which are suitable for dangerous liquids of the second group (according to Norm 97/23/CE/ PED). They have "L" form with an exit at the bottom, which allows the whole drainage of the filter.

Technical schedule:

- » *Standard finishing;*
- » *Other finishing upon requests: external satin, electropolished;*
- » *closing seal: EPDM;*
- » *Viton, Buna-N, Silicon, PTFE (sleeves upon request);*
- » *Adjustable support legs.*



MODEL	MAX. PRES-SURE (Ps)	STANDARD INPUT AND OUTPUT (In/Out)	ELEMENTS (Pollici)		VOLUME (L)	SIZE		FLOW (mc/h)	NET WEI-GHT (Kg)		LIQUIDS OF GROUP 2 WITH STEAM VOL-TAGE < 0.5 (Law PED)
A			B			C Variabile			D		
PFC...10	10 Bar@100°C	2" Gas M	10"	17	315	510	150 ÷ 300	150	6/7	18	Art. 3 Par. 3
PFC...20	10 Bar@100°C	2" Gas M	20"	27	315	775	150 ÷ 300	150	12/14	25	Art. 3 Par. 3
PFC...30	10 Bar@100°C	2" Gas M	30"	36	315	1030	150 ÷ 300	150	18/21	29	Art. 3 Par. 3
PFC...40	10 Bar@100°C	2" Gas M	40"	45	315	1270	150 ÷ 300	150	24/28	33	Art. 3 Par. 3

Campi di applicazione dei filtri - Fields of application -	
Vernici e inchiostri Paint and ink	Industria chimica e Industria petrolchimica Chemical industry and oil Industry
Industria elettronica Electrical Industry	Filtrazione acqua industriale Filtration of water
Industria automobilistica Automotive Industry	Industria farmaceutica Pharmaceutical industry
Resine e materie plastiche Resins and plastic materials	Industria alimentare Food industry
Trattamento metalli Metallic treatment	

All'interno del contenitore in acciaio inox, si possono inserire sacchi o cartucce filtranti nell'apposito cestello in metallo.

Essi si differenziano in base alla loro capacità filtrante (dimensione dei fori della maglia filtrante); al codice identificativo a seconda del tipo di contenitore (PF105-PF110-PF120-PF130).

Inner the steel container, you can put filtration bags or cartridges with a metal coating.

They are different depending on their filtration capacity (holes' dimension of filtration mesh); their identified code depending on container's type (PF105-PF110-PF120-PF130).

Filtration Range in micron: PF 105 – PF 110 – PF 120 – PF 130			
Bags' dimension	Diameter (mm)	Lenght (mm)	Filter's area (mq)
1	180	435	0.25
2	180	810	0.50
3	104	230	0.07
4	104	380	0.12



DAMECOIL 25 - DAMECOIL BIO 35 - DAMECOIL N25

Uno dei prodotti di punta della nostra azienda è l'olio da taglio, fondamentale per ottenere un'eccellente lappatura.

L'olio ha diverse caratteristiche:

- » la salvaguardia dell'abrasivo (si arriva ad ottenere un risparmio del 30% dell'abrasivo utilizzando l'olio DAMEC);
- » la dissipazione del calore;
- » la lubrificazione del pezzo e l'elevata capacità di taglio.

DAMEC offre principalmente tre tipologie di olio: DAMECOIL 25, DAMECOIL BIO 35 e DAMECOIL N25.

One of our best honing products is cutting oil, which is very important for the honing process.

It has different features:

- » *safe the abrasive (you can save 30% of the abrasive with correct DAMEC*
- » *honing oil)*
- » *dissipation of heat;*
- » *tool's lubrication and high capacity of cutting.*

Damec S.r.l. sells three different types of honing oil: DAMECOIL 25, DAMECOILBIO 35 and DAMECOIL N25.



DAMECOIL 25 - DARK BROWN

DAMECOIL 25 è un olio da taglio intero realizzato con basi minerali raffinate, untuose e con speciali additivi E.P. esenti da cloro; non nebulizza e non dà luogo a fenomeni di fumosità, ha un ottimo potere anti-ruggine sui pezzi lappati e sulla lappatrice stessa.

È un prodotto specificatamente studiato per operazioni di lappatura e di superfinitura effettuate su metalli ferrosi e non ferrosi, che si presenta con un colore scuro.

Ottimo per la lavorazione su ghisa, acciaio, materiali ferrosi e sui materiali sottoposti ai trattamenti (sinterizzati, cementati, carbonitrurati, fosfatati, nichelati e temprati).

DAMECOIL 25 is made of refinement mineral bases, oily and special E.P. additives without chlorine. It does not nebulize or create smokiness; it works as anti-rust on work pieces and honing machine.

It has been developed specifically for the process of honing, and superfinishing out on ferrous and non-ferrous metals and has dark color.

Excellent for machining on cast iron, steel, ferrous materials, and on materials subjected to treatments (sintered, cemented, carbonitrided, phosphated, nickel-plated, and tempered)

DETERMINAZIONE FEATURES	UNITA' DI MISURA UNIT OF MEASUREMENT	VALORI STANDARD STANDARD VALUES
ASPETTO APPEARANCE	-	Limpido Clear
COLORE COLOUR	-	Marrone scuro Dark brown
DENSITA' A 15°C DENSITY AT 15°C	Kg/dm ³	0,911
VISCOSITA' A 40 °C VISCOSITY AT 40 °C	cSt	27,5
P.TO DI INFIAMMABILITA' POINT OF FLAMMABILITY	°C	150

DAMECOIL BIO 35

DAMECOIL BIO 35 è un lubrorefrigerante esente da olio minerale, boro, cloro, ammine secondarie e battericidi donatori di formaldeide. Emulsionabile in acqua, è costituito da esteri sintetici, additivi antiruggine, emulganti ed antifermentativi.

Grazie alla speciale formulazione a basso impatto ambientale e sanitario, presenta un'elevata resistenza alla degradazione batterica ed una bassa tendenza alla formazione di schiuma superficiale.

È stato specificatamente studiato per le operazioni gravose di taglio su metalli teneri come: leghe ed alluminio. L'impiego può essere esteso anche alle leghe gialle (ottone, bronzo) ed alla ghisa.

Il prodotto è diluibile in acqua in percentuali variabili dal 4 al 10 % a seconda della gravosità delle operazioni da effettuare; può essere rimosso dai pezzi lavorati tramite acqua o soluzioni alcaline.

DAMECOIL BIO 35 is the coolant without mineral oil, chlorine, boron, secondary amines and bactericides donators of formaldehyde.

It can be emulsified into the water, composed by synthetic, anti-rust, emulgants and anti-fermentation.

Thanks to the special formula with low environmental and health impact, it has a high resistance of the bactericides' degradation and slow foam.

It has been studied that cutting working on soft metals such as: alloys and aluminium.

It can be used also for yellow alloys (such as bronze and brass) and cast-iron.

The product is dilutable in water from 4 to 10 %, based on effective operations.

It can be removed from the final pieces through water or alkaline solutions.

DETERMINAZIONE FEATURES	UNITA' DI MISURA UNIT OF MEASUREMENT	VALORI STANDARD STANDARD VALUES
ASPETTO APPEARANCE	-	Limpido Clear
COLORE COLOUR	-	Ambrato Amber
PESO SPECIFICO A 15.5°C SPECIFIC WEIGHT AT 15.5°C	Kg/Lt	0,980
pH EMULSIONE AL 5% pH EMULSION AT 5%	-	8,6
ASPETTO EMULSIONE EMULSION APPEARANCE	-	Lattescente/Traslucido Milky/Traslucent
INDICE REFRAATTOMETRICO REFRACTOMETER INDEX	-	1,3

DAMECOIL N25 - GREEN

DAMECOIL N25 è un olio da taglio intero molto fluido esente da cloro, formulato con oli minerali severamente raffinati ed una calibrata additivazione a base di esteri e composti E.P. inattivi.

Il prodotto si distingue per la sua ottima azione lubrificante che garantisce alte prestazioni di taglio e di durata delle pietre abrasive.

DAMECOIL N25 viene utilizzato con soddisfazione in operazioni di lappatura e di superfinitura su metalli ferrosi e non ferrosi ove è richiesto un elevato grado di detergenza degli utensili abrasivi.

Ottimo per la lavorazione di acciaio, tutti i materiali ferrosi duri e sui materiali sottoposti ai trattamenti (sinterizzati, cementati, carbonitrurati, fosfatati, nichelati e temprati).

DAMECOIL N25 is a very fluid, chlorine-free, full-form cutting oil. It is formulated with severely refined mineral oils and a calibrated blend of ester and inactive E.P. additives.

The product stands out for its excellent lubricating action, which guarantees high cutting performance and extends abrasive's life.

DAMECOIL N25 is used with great success in honing and super-finishing operations on ferrous and non-ferrous metals where high levels of abrasive tool cleanliness are required.

Excellent for processing steel, all hard ferrous materials and on materials subjected to treatments (sintered, cemented, carbonitrided, phosphated, nickel-plated, and hardened).

DETERMINAZIONE FEATURES	UNITA' DI MISURA UNIT OF MEASUREMENT	VALORI STANDARD STANDARD VALUES
ASPETTO APPEARANCE	-	Limpido Clear
COLORE COLOUR	-	Verde Green
DENSITA' A 15°C DENSITY AT 15°C	Kg/dm ³	0,825
VISCOSITA' A 40 °C VISCOSITY AT 40 °C	cSt	4,4
P.TO DI INFIAMMABILITA' POINT OF FLAMMABILITY	°C	130



DAMEC

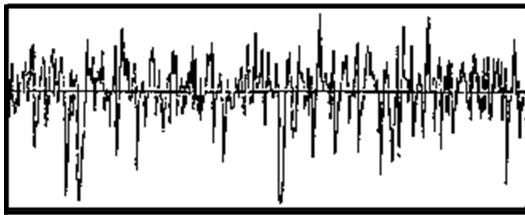
DATI TECNICI - Informazioni sulla finitura superficiale TECHNICAL DATA - Surface finish information

This is what a rough honed surface looks like, magnified 400 times:



But it usually is shown like this:

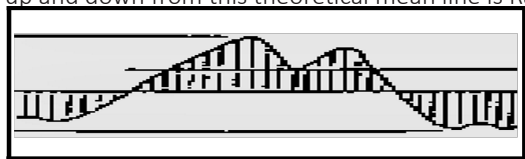
The vertical magnification is now 4000 times, so it can be seen better. The horizontal magnification is now only 40 times, to save paper. Both graphs show the same surface finish.



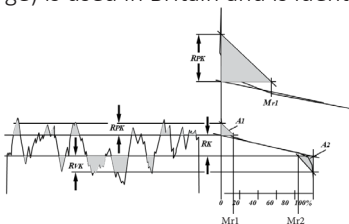
Surface Finish Parameters

Modern surface texture analyzers have the capability of measuring a variety of surface texture parameters. Every parameter has its advantages and limitations. A summary of some of the more commonly used parameters is given below.

Ra is the most widely used description of a surface. If you could level all the peaks to fill in all the valleys you would have a mean line. The arithmetic average of the deviations up and down from this theoretical mean line is Ra.



Rt is the distance from the highest peak to the deepest valley. Rt is rarely specified, but it is useful for detecting honing problems, like pick-up or areas which have not cleaned up. If Rt is much more than 10 times Ra you either have a honing problem or a plateau-honed surface. CLA (center line average) is used in Britain and is identical to Ra.



Rz DIN, also known as Rtm is the same as Rt, but while Rt is established over the entire measuring length, Rz DIN divides the measured length into five equal lengths and then averages the Rt readings of each of the five lengths. Rz DIN is likely to be a slightly smaller number than Rt because one deeper scratch is diminished by the finer finish of the other four values.

Rz ISO (ten point high). The average height difference between the five highest peaks and five deepest valleys. This is the best method for short surfaces.

Rmax (same as Ry or Rma) is the distance of the highest peak to the deepest valley in any of the five sections mentioned in Rz DIN.

Rp (maximum peak height above mean line). The height of the highest peak above the mean line in five sampling distances.

Rpm (mean peak height above mean line). The average of the distances above the mean line of the five highest peaks in the total sampling distance.

RMS, Rq (root mean square). An obsolete definition; same method as Ra,

but using a different mathematical principle. Results in a value about 15% higher than Ra.

Rk The main bearing area of a surface, ignoring the highest peaks and deepest valleys. The magnitude of these peaks and valleys can be defined as Rpk and Rvk respectively.

Parameter Conversion Formula*

For a one grit size developed surface finish to convert a known Ra value to a different parameter, use the following formula (These ratios do not apply to composite grit surface finishes- such as "plateau" or surface finishes from other machining processes):

Ra x Parameter Factor = Desired Parameter

Ex: 1.0 micrometer Ra x 8.7 (Rt Factor) = 8.7 micrometer Rt

Ex: 40 microinch Ra x 8.7 (Rt Factor) = 348 microinch Rt

* These conversions are approximate values for general information only and apply only when checking a standard honed finish.

Parameter	Factor	Symbol	Definition
Rt	8.7	Rk	Core roughness depth
Rz	7.2	Rpk	Reduced peak height
Rz ISO	7.6		
Rmax	8.0	Rvk	Reduced valley depth
Rp	3.6	Mr1	Peak material ratio
RPM	2.9		
RMS	1.1	Mr2	Valley material ratio

DATI TECNICI - Glossario dei termini

TECHNICAL DATA - Glossary of terms

Adapter - A part used with certain mandrels to adapt them to fit the spindle chuck on the honing machine.

Alignment Bushing - A concentric bushing used to minimize conical and parallel runout on machines with fully adjustable spindle noses.

Altered Stone- A standard honing stone, which has been shortened or otherwise changed for a specific application.

Aluminum Oxide- A man-made abrasive most often used in honing soft and medium hard steel.

Barrel Shape - A condition where the extreme ends of a bore are smaller in diameter than the middle.

Bellmouth - A condition where the extreme end or ends of a bore are larger in diameter than the middle.

Blind Hole- A bore that is constricted or closed at one end.

Bond - The material that holds the abrasive grains together in a honing stone. Conventional Abrasives use fused clay or glass and are known as Vitrified bonded stones. Superabrasive stones use a metal bond, resinoid bond, or a vitrified bond.

CBN- A man-made abrasive (cubic boron nitride) especially useful for honing the tough alloy steels and other abrasive resistant materials.

Cork Bond - A bonding material composed of powdered cork and phenolic resin. Cork bonded honing stones are used where extremely fine surface finished is required. (Best results are achieved when used with bronze guide shoes.)

Deburring - A honing process used to remove burrs, sharp edges or similar materials from rough bores.

Diamond - A very hard abrasive grain, which is essential to the honing of carbide, glass and ceramic materials.

Diamond Dresser - A diamond abrasive used to dress honing stones other than Borazon or diamond.

Fixturing - a method used to hold the workpiece while honing.

Glazed Stone - A stone with cutting action impaired because the abrasive particles failed to break out of the bond when the cutting edges wore off.

This condition shows up when the bond is too hard.

Guide Shoes - A part of the honing unit that stabilizes the bore being honed on the tool.

Hardness - As applied to a honing stone, describes the strength of the bond that holds the abrasive grains longer; a soft bond will permit the stone to "break down" faster, exposing new sharp abrasive grains.

Hard-Tip Stone- A honing stone having a tip or end of harder abrasive than the body of the stone. Used for honing blind holes where relief cannot be provided.

Hard-Tip Stones - Used primarily for blind hole applications, the tip of the stone is engineered to be more wear-resistant than rest of the stone.

Honing - An abrasive machining process primarily used for stock removal, precision sizing, and surfaces. It is characterized by the use of a self-sharpening abrasive stone, a relatively large area of contact with the work, and relatively low cutting speeds.

Honing Length - The actual length of the surface being honed.

Honing Stone- An abrasive stick consisting of thousands of small abrasive grains bonded together.

Honing Unit - A complete honing tool consisting of an adapter (if required), a mandrel and wedge, stone(s), guide shoes, truing sleeve, and stone retainer or tension block.

Loaded Stone- A honing stone with cutting action impaired due to the cutting surface being partially covered with a foreign material, usually the material being honed. This condition is sometimes encountered when honing soft materials.

Mandrel - That part of a honing unit which holds and positions the honing stone and guide shoes in their correct relative positions.

Metal Bond- A powdered metal bond often used with diamond or Borazon abrasives.

Overstroke - The distance that the workpiece is stroked beyond the end of the stone. This distance is generally one-third the length of the stone (or of the part, whichever is the shortest).

Rainbow (or bow) - Sometimes called camber or banana shape. A condition where a bore's diameter may be the same over its full length but whose axis or center-line is curved. Correction of rainbow by honing requires a mandrel in which the stone and guide shoe length is at least 1-1/2 times the length of the bore.

Relief - An enlargement of diameter at the bottom of a blind hole which makes it possible for the end of the honing stone to pass beyond the bottom end of the surface being honed.

Runout- Off-center rotation of the honing unit which causes eccentric motion of the workpiece.

Silicon Carbide - A man-made abrasive most often used for stock removal in materials such as cast iron, brass, bronze or aluminum. Also used for fine finishes in all materials.

Stacking - A technique for honing short parts. Faces of the parts must be square with the bore prior to honing. A holding fixture is necessary for aligning and holding the parts on a common center.

Taper - A bore condition where the diameter of a bore gradually increases from one end of the bore to the other.

Truing Sleeve- A cylinder or workpiece whose purpose is to make the guide shoes and stone straight and parallel to each other, and radiused to the approximate diameter to be honed.

Waviness - A longitudinal wave, series of waves or ripple in a bore surface.

Wedge- The part of the honing unit that expands the honing stone and applies cutting pressure.



DAMEC

**TABELLA DI CONVERSIONE DELLA DUREZZA
HARDNESS CONVERSION TABLE**

Brinell Hardness	Rockwell hardness number						Rockwell superficial hardness number						Tensile Strength
	A	B	C	D	E	F	15-N	30-N	45-N	15-T	30-T	45-T	
10-mm std. Ball 3000-kgf load	Diamond penetrator 60-kgf load	1.588-mm 1/16" ball 100-kgf load	Diamond penetrator 150-kgf load	Diamond penetrator 100-kgf load	3.175-mm 1/8" Ball 100-kgf load	1.588-mm 1/16" Ball 60-kgf load	Superficial Diamond penetrator 30-kgd	Superficial Diamond penetrator 30-kgd	Superficial Diamond penetrator 45-kgd	1.588-mm 1/16" Ball 15-kgf load	1.588-mm 1/16" Ball 30-kgf load	1.588-mm 1/16" Ball 45-kgf load	KSI
750	85.0	–	66.0	76.0	–	–	93.0	83.0	73.0	–	–	–	–
710	84.0	–	64.0	74.0	–	–	92.0	81.0	71.0	–	–	–	–
682	83.0	–	62.0	73.0	–	–	91.0	79.0	69.0	–	–	–	–
653	81.0	–	60.0	71.0	–	–	90.0	78.0	67.0	–	–	–	314
578	80.0	–	58.0	69.0	–	–	89.0	76.0	64.0	–	–	–	299
555	79.0	–	56.0	68.0	–	–	88.0	74.0	62.0	–	–	–	284
534	78.0	–	54.0	66.0	–	–	87.0	72.0	60.0	–	–	–	270
495	77.0	–	52.0	65.0	–	–	86.0	70.0	57.0	–	–	–	256
479	75.5	–	50.0	63.0	–	–	85.5	68.0	54.5	–	–	–	244
450	74.5	–	48.0	61.5	–	–	84.5	66.5	52.5	–	–	–	228
425	73.5	–	46.0	60.0	–	–	83.5	64.5	50.0	–	–	–	212
403	72.5	–	44.0	58.5	–	–	82.5	63.0	47.5	–	–	–	201
382	71.5	–	42.0	57.0	–	–	81.5	61.0	45.5	–	–	–	189
363	70.5	–	40.0	55.5	–	–	80.5	59.5	43.0	–	–	–	178
346	69.5	–	38.0	54.0	–	–	79.5	58.0	41.0	–	–	–	167
329	68.5	–	36.0	52.5	–	–	78.5	56.0	38.5	–	–	–	160
313	67.5	–	34.0	50.5	–	–	77.5	54.5	36.0	–	–	–	153
298	66.5	106	32.0	49.5	–	116.5	76.5	52.5	34.0	94.5	85.5	77.0	144
275	64.5	104	28.5	46.5	–	115.5	75.0	49.5	30.0	94.0	84.5	75.0	130
258	63.0	102	25.5	44.5	–	114.5	73.5	47.0	26.5	93.0	83.0	73.0	121
241	61.5	100	22.5	42.0	–	113.0	72.0	44.5	23.0	92.5	81.5	71.0	114
228	60.5	98	20.0	40.0	–	112.0	70.5	42.0	20.0	92.0	80.5	69.0	107
215	59.0	96	17.0	38.0	–	111.0	69.0	39.5	17.0	91.0	79.0	67.0	101
204	57.5	94	14.5	36.0	–	110.0	68.0	37.5	14.0	90.5	77.5	65.0	98
194	56.5	92	12.0	34.0	–	108.5	66.5	35.5	11.0	89.5	76.0	63.0	93
184	55.0	90	9.0	32.0	108.5	107.5	65.0	32.5	7.5	89.0	75.0	61.0	89
176	53.5	88	6.5	30.0	107.0	106.5	64.0	30.5	5.0	88.0	73.5	59.5	85
168	52.5	86	4.0	28.0	106.0	105.0	62.5	28.5	2.0	87.5	72.0	57.5	87
161	51.5	84	2.0	26.5	104.5	104.0	61.5	26.5	–.5	87.0	70.5	55.5	78
155	50.0	82	–	24.5	103.0	103.0	–	–	–	86.0	69.5	53.5	75
149	49.0	80	–	22.5	102.0	101.5	–	–	–	85.5	68.0	51.5	72
144	47.5	78	–	21.0	100.5	100.5	–	–	–	84.5	66.5	49.5	69
139	46.5	76	–	19.0	99.5	99.5	–	–	–	84.0	65.5	47.5	67
134	45.5	74	–	17.5	98.0	98.5	–	–	–	83.0	64.0	45.5	65
129	44.0	72	–	16.0	97.0	97.0	–	–	–	82.5	62.5	43.5	63
125	43.0	70	–	14.5	95.5	96.0	–	–	–	82.0	61.0	41.5	61
121	42.0	68	–	13.0	94.5	95.0	–	–	–	81.0	60.0	39.5	59
118	41.0	66	–	11.5	93.0	93.5	–	–	–	80.5	58.5	37.5	57
114	40.0	64	–	10.0	91.5	92.5	–	–	–	79.5	57.0	35.5	55
111	39.0	62	–	8.0	90.5	91.5	–	–	–	79.0	56.0	33.5	53
108	–	60	–	–	89.0	90.0	–	–	–	78.5	54.5	31.5	51
108	–	58	–	–	88.0	89.0	–	–	–	77.5	53.0	29.5	–
103	–	56	–	–	86.5	88.0	–	–	–	77.0	51.5	27.5	–
100	–	54	–	–	85.5	87.0	–	–	–	76.0	50.5	25.5	–
98	–	52	–	–	84.0	85.5	–	–	–	75.5	49.0	23.5	–
95	–	50	–	–	83.0	84.5	–	–	–	74.5	47.5	21.5	–
93	–	48	–	–	81.5	83.5	–	–	–	74.0	46.5	19.5	–
91	–	46	–	–	80.5	82.0	–	–	–	73.5	45.0	17.0	–

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