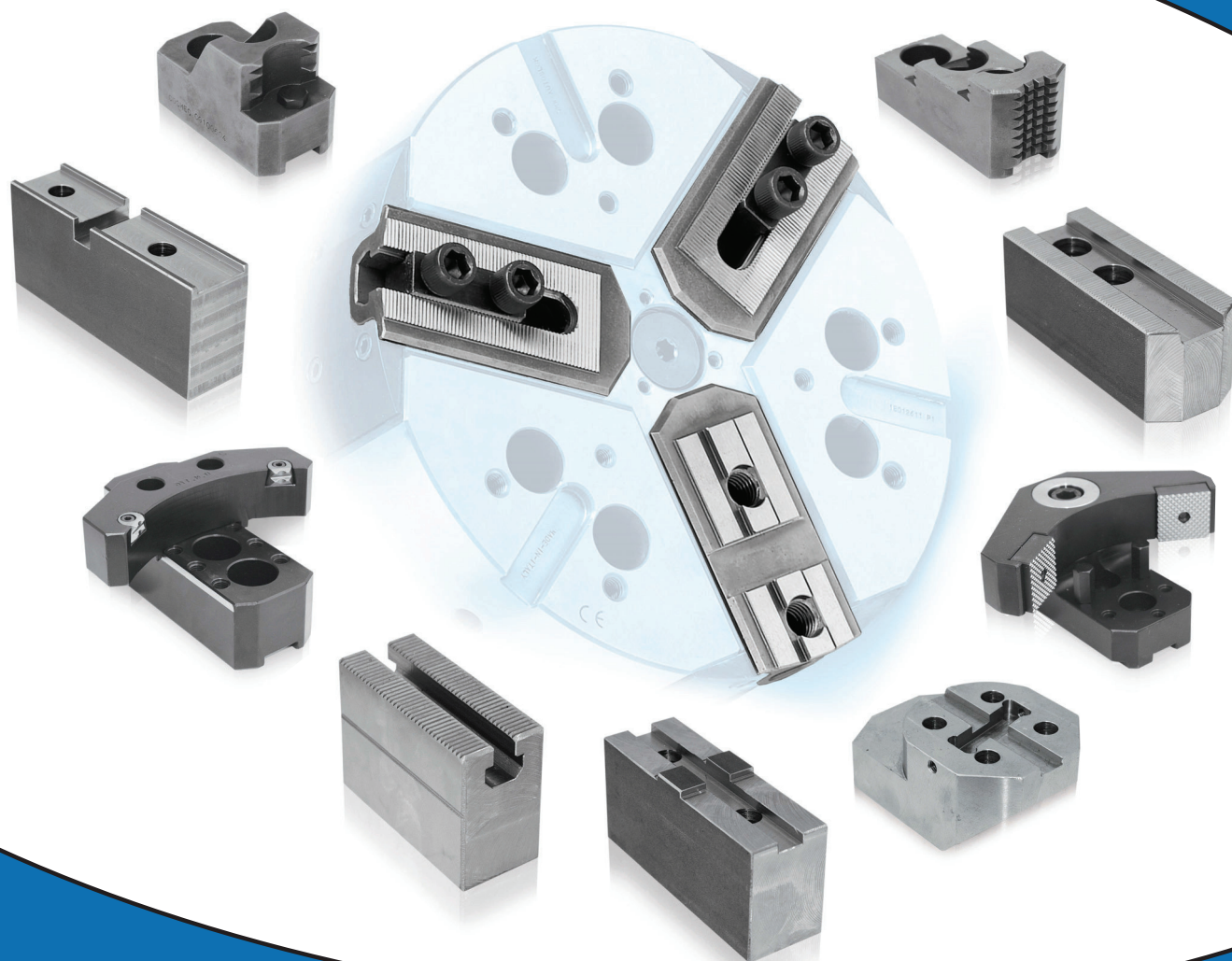




EOSMEG



MORSETTI CHUCK JAWS

2019

SISTEMI DI BLOCCAGGIO PER MANDRINI
SYSTEM CLAMPING FOR CHUCKS

**Cosmec: un'azienda all'avanguardia***Cosmec: a state of the art company*

Cosmec è specializzata nel settore della presa e del bloccaggio del pezzo da lavorare. Vanta una certificazione di qualità conferitaci dal prestigioso ente tedesco TUV Thuringen ai sensi della normativa UNI EN ISO 9001:2000. Cosmec si propone sul mercato italiano ed internazionale con serietà e dinamicità, progettando sistemi di presa singoli e multipli sicuri ed affidabili. Dualblok e Multiblok sono prodotti Cosmec nati da un'attenta valutazione e dalle esigenze degli operatori della meccanica di precisione.

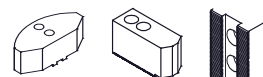
COSMEC is a company specialized in the field of gripping and clamping of the workpiece. We are proud of having a quality certification given to us by the renowned German enterprise Tuv Thuringen according to law UNI EN ISO 9001:2000. Our purpose is to make our competence and dynamism known to Italian and international markets, but above all to be able to propose and design safe and reliable single and multiple gripping systems. Dualblok and Multiblok are COSMEC products resulting from a careful assessment of the needs of many operators of precision mechanics.

COSMEC





MORSETTI TENERI CON DENTATURA 90° E 60°
Soft Top Jaws Serrated 90° & 60°



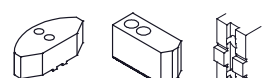
A

MORSETTI DURI CON DENTATURA 90° E 60°
Hard Top Jaws Serrated 90° & 60°



B

MORSETTI TENERI CON INCASTRO A CROCE
Soft Top Jaws Tongue & groove



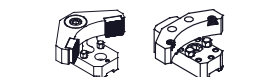
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MORSETTI DURI CON INCASTRO A CROCE
Hard Top jaws tongue & groove



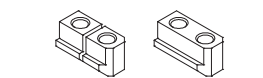
D

MORSETTI SPECIALI
Special Jaws Soft & Hard



E

TASSELLI A T SINGOLI E DOPPI
T-Nuts Single & Double



F

ACCESSORI - Accessories



G

INFORMAZIONE TECNICA - Technical information



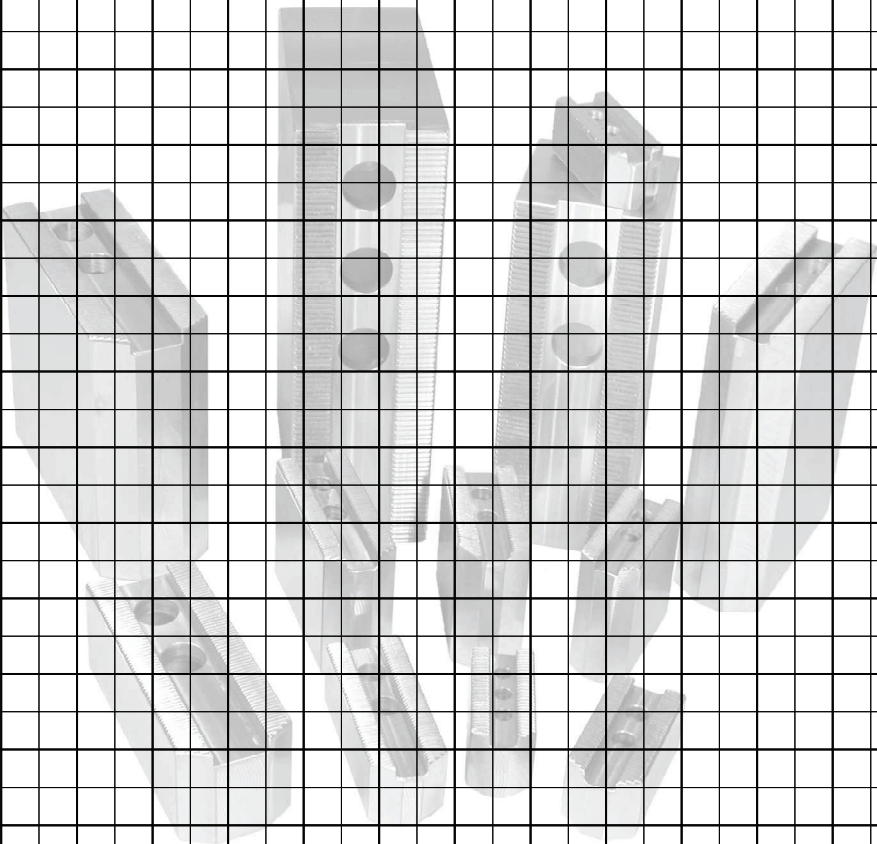
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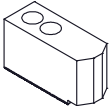
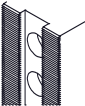
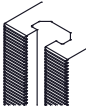
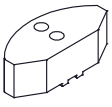
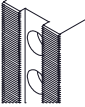
SEZIONI - Sections										
MANDRINI CHUCKS	A		B		C		D		E	
	 DENTATURA 90° E 60° Serrated 90° & 60°				 INCASTRO A CROCE Tongue & Groove				UFFICIO TECNICO Design Office	
	MORSETTI TENERI Soft Top jaws		MORSETTI DURI Hard Top jaws		MORSETTI TENERI Soft Top jaws		MORSETTI DURI Hard Top jaws		MORSETTI SPECIALI Special Jaws	
										
SMW-AUTOBLOK	A2	A40	B2	B6	C2	C17			E2	E4
BERG	A10	A41			C8	C18			E2	E4
CMT	A11									
FIAL SOGIMUT	A13				C9					
FORKARDT	A14	A42			C10	C19			E2	E4
GALVEZ	A16									
HIDRAM	A16									
GAMET	A18									
GFB	A19									
HOWA	A20									
KITAGAWA	A24	A44	B4	B8					E2	E4
MARIO PINTO	A30				C12					
MMK-MATSUMOTO	A32									
PRATT-BURNERD	A34									
ROHM	A36	A43			C10.1	C20			E2	E4
ROTOMORS					C14					
SCHUNK	A38								E2	E4
OMAP TRIBLOC					C16					
TOS SVITAVY					C15					
SAMCHULLY	A24									
BISON					C10.2					
TONFOU	A24									
TDEG					C10.2					
AutoSTRONG	A24									
SEOAM	A24									



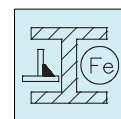
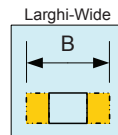
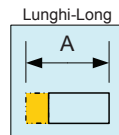
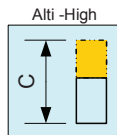
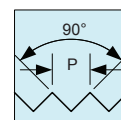
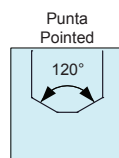
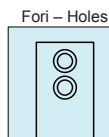
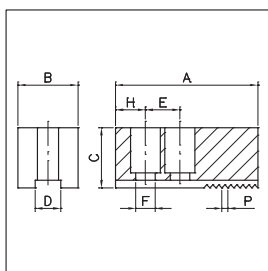
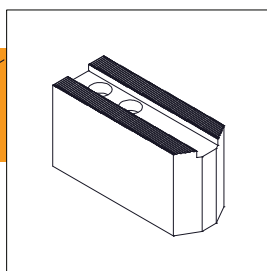
SEZIONI - Sections								
F		G					H	
TASSELLI A T T-Nuts		ACCESSORI Accessories					INFORMAZIONE information	
SINGOLI Single	DOPPI Double	VITI Screws	INSERTI Insert	APPOGGI Stop	ANELLI Rings	FLANGE Flange	Tecnica - Technical	
								
F2	F6	G2	G3	G4	G5	G6	H2	
F4	F8							



SEZIONE – Section A
MORSETTI TENERI CON DENTATURA 90° E 60° - Soft top jaws serrated 90° & 60°

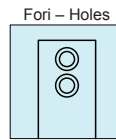
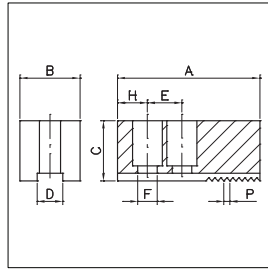
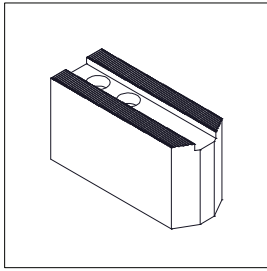
 MORSETTI TORNIBILI Soft top jaws		 																	
 MANDRINI CHUCKS	Tipo Type	90°	60°	90°	60°														
SMW – AUTOBLOK	Standard	A2	A8																
	Extra alti high	A3																	
	Extra materiale material	A4																	
	A5																		
BERG	Standard	A10																	
CMT	Standard	A11	A12																
FIAL	Standard	A13																	
FORKARDT	Standard																		
	Extra alti high	A14																	
GALVEZ - HIDRAM	Standard	A16																	
	Extra alti high	A17																	
GAMET	Standard	A18	A18																
GFB	Standard		A19																
HOWA	Standard		A20																
	Extra alti high		A21																
	Extra materiale material		A22																
KITAGAWA	Standard		A24																
	Extra alti high		A25																
	Extra materiale - Material		A26																
			A27																
MARIO PINTO	Standard																		
	Extra alti - high	A30																	
MMK-MATSUMOTO	Standard		A32																
	Extra alti high																		
	Extra materiale - Material		A33																
PRATT-BURNERD	Standard																		
	Extra alti high	A34	A35																
ROHM	Standard																		
	Extra alti - high	A36																	
SCHUNK	Standard																		
	Extra alti - high	A38																	
 MORSETTOI AVVOLGENTI Soft full grip jaws		 																	
 MANDRINI CHUCKS	Tipo Type	90°	60°	90°	60°														
SMW - AUTOBLOK	Standard	A40																	
BERG	Standard	A41																	
FORKARDT	Standard	A42																	
HOWA	Standard																		
KITAGAWA	Standard		A44																
MMK-MATSUMOTO	Standard																		
ROHM	Standard	A43																	
SCHUNK																			

A
A1

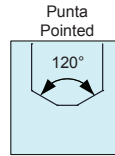


UNIT:mm

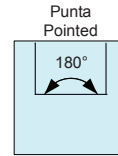
	Code														
Dentatura - Serration 1/16"x90°															
125 - 140	C101001	60	30	30	12	16	9	15	1/16"	120°					
125 - 140	C101001C040	60	30	40	12	16	9	15	1/16"	120°					
125 - 140	C101001C050	60	30	50	12	16	9	15	1/16"	120°					
125 - 140	C101001C060	60	30	60	12	16	9	15	1/16"	120°					
125 - 140	C101001C070	60	30	70	12	16	9	15	1/16"	120°					
160 - 175	C101002	70	35	35	14	16.5	11	16	1/16"	120°					
160 - 175	C101002C050	70	35	50	14	16.5	11	16	1/16"	120°					
160 - 175	C101002C060	70	35	60	14	16.5	11	16	1/16"	120°					
160 - 175	C101002C070	70	35	70	14	16.5	11	16	1/16"	120°					
160 - 175	C101002C080	70	35	80	14	16.5	11	16	1/16"	120°					
170 - 180	C101003	80	40	40	14	20	11	18	1/16"	120°					
170 - 180	C101003C060	80	40	60	14	20	11	18	1/16"	120°					
170 - 180	C101003C070	80	40	70	14	20	11	18	1/16"	120°					
170 - 180	C101003C080	80	40	80	14	20	11	18	1/16"	120°					
210 - 240	C101004	90	40	40	17	23	13	20	1/16"	120°					
210 - 240	C101004C050	90	40	50	17	23	13	20	1/16"	120°					
210 - 240	C101004C060	90	40	60	17	23	13	20	1/16"	120°					
210 - 240	C101004C070	90	40	70	17	23	13	20	1/16"	120°					
210 - 240	C101004C080	90	40	80	17	23	13	20	1/16"	120°					
210 - 240	C101004C100	90	40	100	17	23	13	20	1/16"	120°					
210 - 240	C101004C120	90	40	120	17	23	13	20	1/16"	120°					
210 - 260	C101005	105	40	40	17	23	13	20	1/16"	120°					
210 - 260	C101005C060	105	40	60	17	23	13	20	1/16"	120°					
210 - 260	C101005C080	105	40	80	17	23	13	20	1/16"	120°					
210 - 260	C101005C100	105	40	100	17	23	13	20	1/16"	120°					
210 - 260	C101005C120	105	40	120	17	23	13	20	1/16"	120°					
250 - 315	C101006	110	50	50	21	30	17	20	1/16"	120°					
250 - 315	C101006C05002	155	50	50	21	30	17	20	1/16"	180°					
250 - 315	C101006C045	110	45	45	21	30	17	20	1/16"	120°					
250 - 315	C101006C060	110	50	60	21	30	17	20	1/16"	120°					
250 - 315	C101006C070	110	50	70	21	30	17	20	1/16"	120°					
250 - 315	C101006C080	110	50	80	21	30	17	20	1/16"	120°					
250 - 315	C101006C100	110	50	100	21	30	17	20	1/16"	120°					
250 - 315	C101006C120	110	50	120	21	30	17	20	1/16"	120°					



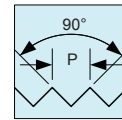
F2



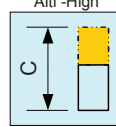
Standard



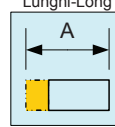
Piana - Flat



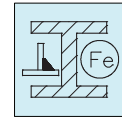
Dentatura
Serration
1/16"x90°
3/32"x90°



Alti -High



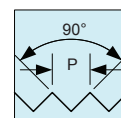
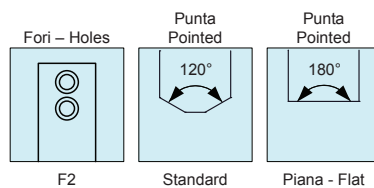
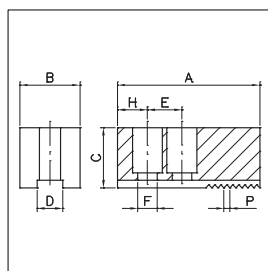
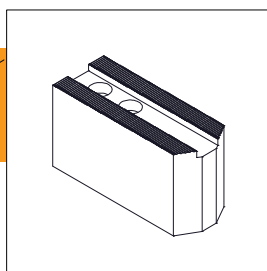
Lunghi-Long



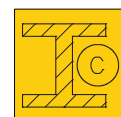
Materiale	Material
Acciaio	Steel
Fe510D	

UNIT:mm

	Code	A	B	C	D	E	F	H	P						
Dentatura - Serration 1/16"x90°															
250 - 315	C101007	120	60	60	25.5	34	21	22	1/16"	180°					
250 - 315	C101007C080	120	60	80	25.5	34	21	22	1/16"	180°					
250 - 315	C101007C100	120	60	100	25.5	34	21	22	1/16"	180°					
315 - 350	C101008	125	50	50	21	30	17	22	1/16"	120°					
315 - 350	C101008C060	125	50	60	21	30	17	22	1/16"	120°					
315 - 350	C101008C070	125	50	70	21	30	17	22	1/16"	120°					
315 - 350	C101008C080	125	50	80	21	30	17	22	1/16"	120°					
315 - 350	C101008C100	125	50	100	21	30	17	22	1/16"	120°					
315 - 350	C101008C120	125	50	120	21	30	17	22	1/16"	120°					
400	C101014	140	60	60	21	30	17	25	1/16"	120°					
400	C101014C06002	155	60	60	21	30	17	25	1/16"	120°					
400	C101014C12002	170	60	120	21	30	17	25	1/16"	180°					
400	C101014C14002	170	60	140	21	30	17	25	1/16"	180°					
400	C101014C080	140	60	80	21	30	17	25	1/16"	120°					
400	C101014C100	140	60	100	21	30	17	25	1/16"	120°					
400	C101014C120	140	60	120	21	30	17	25	1/16"	120°					
Dentatura - Serration 3/32"x90°															
400 - 800	C101015	140	60	60	25.5	38	21	27	3/32"	180°					
400 - 800	C101015C080	140	60	80	25.5	38	21	27	3/32"	180°					
400 - 800	C101015C100	140	60	100	25.5	38	21	27	3/32"	180°					
400 - 800	C101015C120	140	60	120	25.5	38	21	27	3/32"	180°					
400 - 800	C101016C06004	170	60	60	25.5	38	21	27	3/32"	180°					
400 - 800	C101016C08004	170	60	80	25.5	38	21	27	3/32"	180°					
400 - 800	C101016C10004	170	60	100	25.5	38	21	27	3/32"	180°					
400 - 800	C101016C12004	170	60	120	25.5	38	21	27	3/32"	180°					
400 - 800	C101018	160	80	80	25.5	38	21	25	3/32"	180°					
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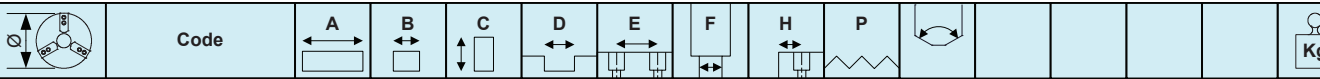


Dentatura
Serration
1/16"x90°
3/32"x90°



Materiale
Material
Acciaio
Steel
C45

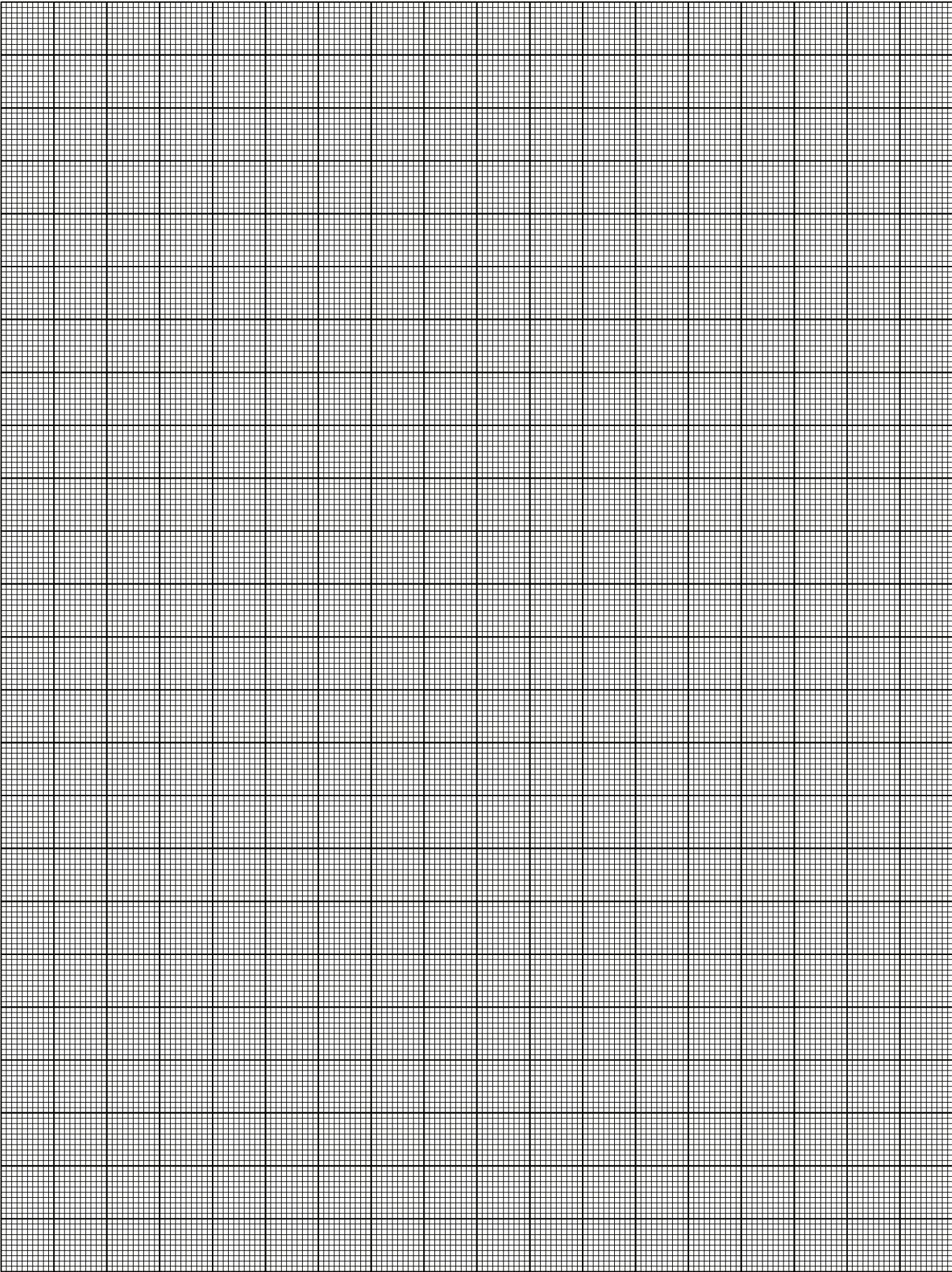
ACCIAIO – STEEL C45

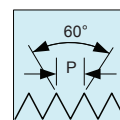
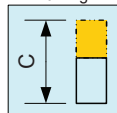
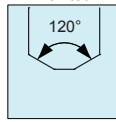
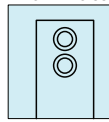
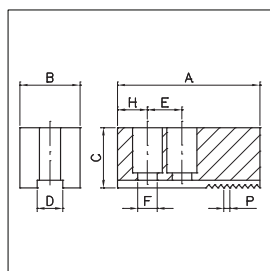
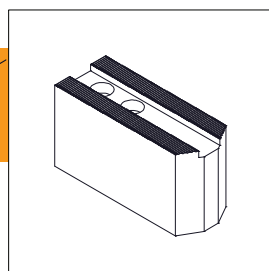
	Code	A	B	C	D	E	F	H	P							Kg
Dentatura - Serration 1/16"x90°																
125 - 140	B101001	60	30	30	12	16	9	15	1/16"	120°						
160 - 175	B101002	70	35	35	14	16.5	11	16	1/16"	120°						
170 - 180	B101003	80	40	40	14	20	11	18	1/16"	120°						
200 - 240	B101004	90	40	40	17	23	13	20	1/16"	120°						
210 - 260	B101005	105	40	40	17	23	13	20	1/16"	120°						
250 - 315	B101006	110	50	50	21	30	17	20	1/16"	120°						
250 - 315	B101007	120	60	60	25.5	34	21	22	1/16"	120°						
315 - 350	B101008	125	50	50	21	30	17	22	1/16"	120°						
400	B101014	140	60	60	21	30	17	25	1/16"	120°						
Dentatura - Serration 3/32" x 90°																
400 - 800	B101015	140	60	60	25.5	38	21	27	3/32"	180°						
400 - 800	B101016C06004	170	60	60	25.5	38	21	27	3/32"	180°						
400 - 800	B101018	160	80	80	25.5	38	21	25	3/32"	180°						



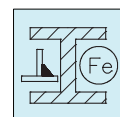


Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks											SMW-AUTOBLOK		
Dentatura – Serration 1/16"x90°											Dentatura - Serration 3/32"x90°		
 	10 1001	10 1002	10 1003	10 1004	10 1005	10 1006	10 1007	10 1008	10 1014		10 1015	10 1016	10 1018
AL-D, AN-D	125	165	165	210		250 315		315			400	400	400
AP		170	170	215	260	315		315			400	400	400
APL				215	260	315		315			400	400	400
CC				240				350					
CL-D						200	250 315						
BB-AZ-ES											500	500	500
BB-D	140	175	175	210		250 315		315					
BB-N Big bore											400 600	400 600	400 600
BB-N ES B.b.											400 600	400 600	400 600
BH-D	130	165	165	210		250 315		315			400,450,500 630,800	400,450,500 630,800	400,450,500 630,800
BHD-FC		165	165	210		250 315		315			400,500 630	400,500 630	400,500 630
HB-D	130	165		210		250 315							
HFKN-D		165	165	210		260 315		315			400 500	400 500	400 500
HYD-S									400		400 500	400 500	400 500
HYND-S		180	180	210 226		250 315		315					
HYDL-S											500,630 800	500,630 800	500,630 800
HYDLL-S											550 630	550 630	550 630
IL-D, IN-D											500 800	500 800	500 800
NT-D		170	170	215	260	315		315			400	400	400
NTL-D					260	315		315			400	400	400
PB-D	130	165		210		250 315							
PBI-D		165		210		250 315							
RC-D		165		210		250		305	400				
SP-L								350					
SP	125	160	160	240		280		350					
STP	125	160	160	240		280							
GHDN									400				
GHD-FC									400				
HDN									400				
HDN-FC									400				
IDN									400				
IDL, HDL									400				
HYD									400				





Dentatura
Serration
1,5x60°



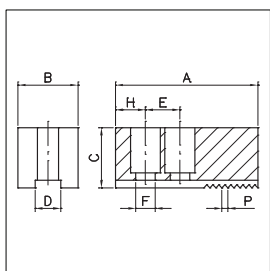
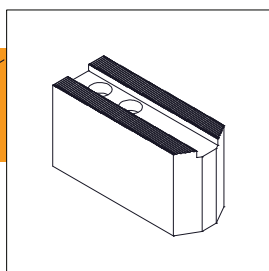
Materiale	Material
Acciaio	Steel
Fe510D	

UNIT:mm

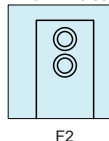
	Code														
Dentatura - Serration 1.5x60°															
165	C102013	75	30	30	12	20	11	15	1.5	120°					
165	C102013C040	75	30	40	12	20	11	15	1.5	120°					
165	C102013C050	75	30	50	12	20	11	15	1.5	120°					
165	C102013C060	75	30	60	12	20	11	15	1.5	120°					
165	C102013C070	75	30	70	12	20	11	15	1.5	120°					
165	C102013C090	75	30	90	12	20	11	15	1.5	120°					
165	C102013C100	75	30	100	12	20	11	15	1.5	120°					
210	C102014	95	35	35	14	25	13	20	1.5	120°					
210	C102014C040	95	35	40	14	25	13	20	1.5	120°					
210	C102014C050	95	35	50	14	25	13	20	1.5	120°					
210	C102014C060	95	35	60	14	25	13	20	1.5	120°					
210	C102015	95	40	40	14	25	13	20	1.5	120°					
210	C102015C050	95	40	50	14	25	13	20	1.5	120°					
210	C102015C060	95	40	60	14	25	13	20	1.5	120°					
210	C102015C080	95	40	80	14	25	13	20	1.5	120°					
210	C102015C100	95	40	100	14	25	13	20	1.5	120°					
254	C102020	110	40	40	16	30	13	20	1.5	120°					
254	C102020C050	110	40	50	16	30	13	20	1.5	120°					
254	C102020C060	110	40	60	16	30	13	20	1.5	120°					
254	C102020C080	110	40	80	16	30	13	20	1.5	120°					
254	C102020C100	110	40	100	16	30	13	20	1.5	120°					
254	C102020C120	110	40	120	16	30	13	20	1.5	120°					
315	C102026	129	50	50	21	30	17	25	1.5	120°					
315	C102026C060	129	50	60	21	30	17	25	1.5	120°					
315	C102026C080	129	50	80	21	30	17	25	1.5	120°					
315	C102026C100	129	50	100	21	30	17	25	1.5	120°					
315	C102026C120	129	50	120	21	30	17	25	1.5	120°					
315	C102026C140	129	50	140	21	30	17	25	1.5	120°					



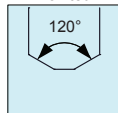
Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks						SMW-AUTOBLOK
Dentatura – Serration 1.5x60°						
 	10 2013	10 2014	10 2015	10 2020	10 2026	
AL-M, AN-M	165	210	210	254	315	
AP-M	170	215	215	260	315	
APL-M		215	215	260	315	
BB-M	175	210	210	250	315	
BH-M	165	210	210	250	315	
BHM-FC	165	210	210	250	315	
HB-M	165	210	210	250	315	
HFKN-M	165	210	210	260	315	
NT-M	170	215	215	260	315	
NTL-M				260	315	
PB-M	165	210	210	250	315	
PBI-M	165	210	210	250	315	
RC-M	165	210	210	250	305	



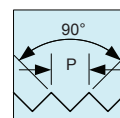
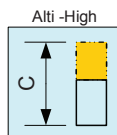
Fori – Holes



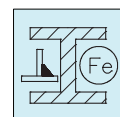
F2

Punta
Pointed

Standard



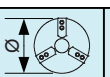
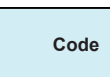
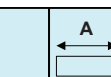
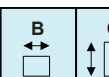
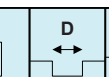
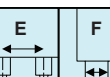
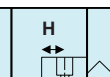
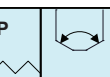
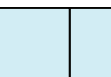
Dentatura
Serration
1/16"x90°



Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD

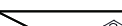
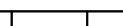
UNIT:mm

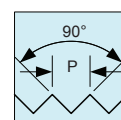
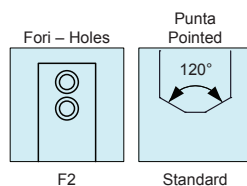
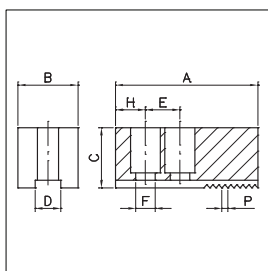
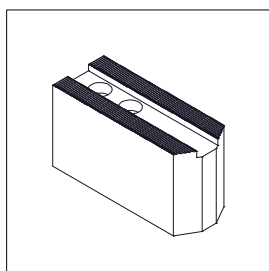
															
	Code	A	B	C	D	E	F	H	P						
Dentatura - Serration 1/16"x90°															
110	C101901	55	25	40	8	14	9.5	10	1/16"	120°					
130	C101902	55	30	40	12	16	9	10	1/16"	120°					
140 - 160	C101903	70	30	50	10	19	11	14	1/16"	120°					
175 - 200	C101904	90	30	60	12	21	13	20	1/16"	120°					
175 - 200	C101904C045	90	30	45	12	21	13	20	1/16"	120°					
200	C101004	90	40	40	17	23	13	20	1/16"	120°					
250 - 315	C101905	110	40	60	16	29	17	21.5	1/16"	120°					
250 - 315	C101906	125	50	80	21	28	17	30	1/16"	120°					

Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks

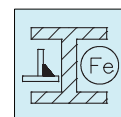
BERG

Dentatura – Serration 1/16"x90°

 	10 1901	10 1902	10 1903	10 1904	10 1004	10 1905	10 1906
KH	110		140 160	175 200		250 315	
KF		130			160 200		250 315
KHF							250 315
KHFF					200		250 315
HES, HESF					160 200		



Dentatura
Serration
1/16"x90°

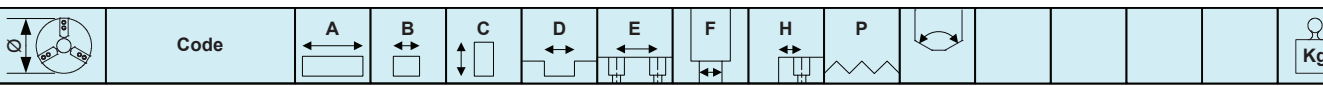


Materiale	Material
Acciaio	Steel
Fe510D	



STANDARD

UNIT:mm

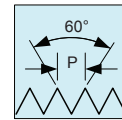
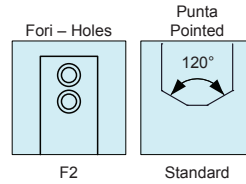
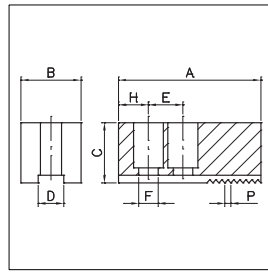
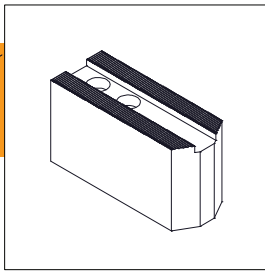
	Code	A	B	C	D	E	F	H	P						
Dentatura - Serration P1/16"x90°															
130	C101001	60	30	30	12	16	9	15	1/16"	120°					
150	C101202	65	25	30	10	16	9	12	1/16"	120°					
165 - 210	C102704	75	35	35	14	16	11	16	1/16"	120°					
200	C101204	90	40	40	12	38	11	12	1/16"	120°					
210	C101004	90	40	40	17	23	13	20	1/16"	120°					
250	C101206	115	50	50	21	36	15	32	1/16"	120°					
250	C101006	110	50	50	21	30	17	20	1/16"	120°					
315	C101208	140	50	50	21	36	15	32	1/16"	120°					

Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks

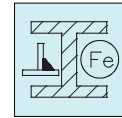
CMT

Dentatura – Serration 1/16"x90°

 	10 1001	10 1202	10 2704	10 1204	10 1004	10 1206	10 1006	10 1208
GB	130		165		210		250	
GH			180				250	
GX			208				250	
K		150		200		250		315
KZ					210		250	



Dentatura
Serration
1,5x60°
2.5x60°



Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD

UNIT:mm

	Code	A	B	C	D	E	F	H	P						
Dentatura - Serration 1.5x60°															
130	C102802	60	30	30	12	16	9	15	1.5	120°					
165	C102804	80	30	30	12	20	11	19	1.5	120°					
165	C102806	75	35	35	14	16	11	16	1.5	120°					
210	C102808	95	40	40	17	23	13	20	1.5	120°					
210	C102015	95	40	40	14	25	13	20	1.5	120°					
250	C102812	115	40	40	16	30	13	30	1.5	120°					
250 - 315	C102814	115	50	50	21	30	17	20	1.5	120°					

Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks

CMT

Dentatura – Serration 1,5x60°

 	10 2802	10 2804	10 2806	10 2808	10 2015	10 2812	10 2814
GB	130	165	165	210	210	250	315
KZ				210	210	250	

STANDARD

UNIT:mm

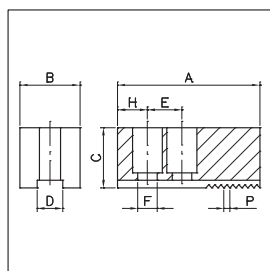
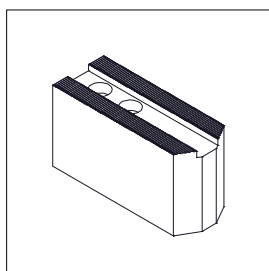
	Code														
Dentatura - Serration 2.5x60°															
90	C101103	45	20	20	7	25	7	7	2.5	120°					
120	C101106	55	25	25	8	22	7	11	2.5	120°					
140	C101109	65	25	25	10	30	9	12	2.5	120°					
170	C101112	80	30	30	10	36	9	16	2.5	120°					
200	C101115	90	35	35	10	36	9	16	2.5	120°					
230	C101118	100	40	40	12	50	11	16	2.5	120°					
250 - 270	C101121	125	40	40	12	50	11	16	2.5	120°					
300 - 330	C101124	120	60	60	18	50	13	20	2.5	120°					
400	C101127	150	60	60	20	75	17	25	2.5	120°					
500	C101130	180	70	70	30	80	21	25	2.5	120°					

Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks

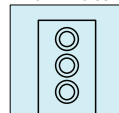
CMT

Dentatura – Serration 2,5x60°

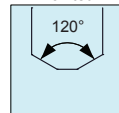
	10 1103	10 1106	10 1109	10 1112	10 1115	10 1118	10 1121	10 1124	10 1127	10 1130	
A	90	120	140	170	200	250	250 270	300 330	400	500	



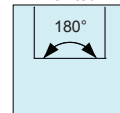
Fori – Holes



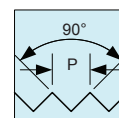
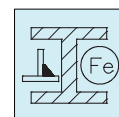
F3

 Punta
Pointed


Standard

 Punta
Pointed


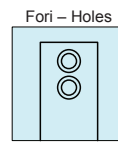
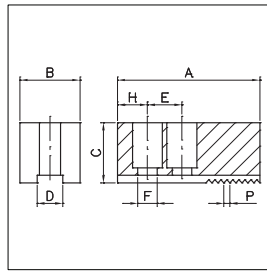
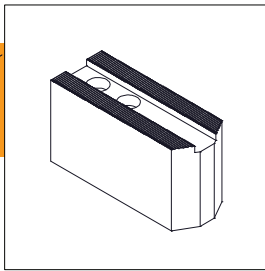
Piana - Flat


 Dentatura
Serration
1/16"x90°

 Materiale
Material
Acciaio
Steel
Fe510D

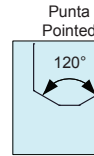
STANDARD

UNIT:mm

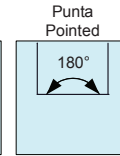
	Code	A	B	C	D	E	F	H	P						
Dentatura - Serration P1/16"x90°															
160	C111402	73	20	40	8	19	7	13	1/16"	120°					
180 - 200	C111404	90	25	40	10	24	9	14.5	1/16"	120°					
230	C111406	105	25	40	10	28.5	9	17.5	1/16"	120°					
250 - 270	C111408	120	30	50	12	33	11	19	1/16"	120°					
315	C111410	140	30	60	14	36.5	13	25	1/16"	180°					



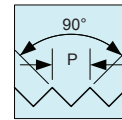
F2



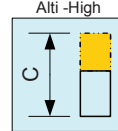
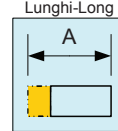
Standard



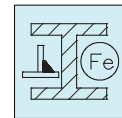
Piana - Flat



Dentatura
Serration
1/16"x90°
3/32"x90°

ti -High

Lunghi-Long



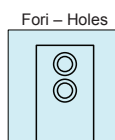
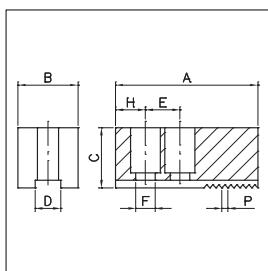
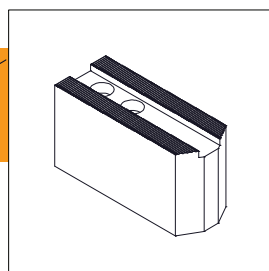
Materiale	Material
Acciaio	Steel
Fe510D	

UNIT:mm

			Code														
Dentatura - Serration 1/16"x90°																	
160	C102100	75	35	35	14	21	13	15	1/16"	120°							
200	C101004	90	40	40	17	23	13	20	1/16"	120°							
200	C101004C050	90	40	50	17	23	13	20	1/16"	120°							
200	C101004C060	90	40	60	17	23	13	20	1/16"	120°							
200	C101004C080	90	40	80	17	23	13	20	1/16"	120°							
200	C101004C100	90	40	100	17	23	13	20	1/16"	120°							
200	C101004C120	90	40	120	17	23	13	20	1/16"	120°							
250	C101304	110	50	50	21	28	17	20	1/16"	120°							
250	C101304C060	110	50	60	21	28	17	20	1/16"	120°							
250	C101304C080	110	50	80	21	28	17	20	1/16"	120°							
250	C101304C100	110	50	100	21	28	17	20	1/16"	120°							
315	C101007	120	60	60	25.5	34	21	22	1/16"	120°							
315	C101007C080	120	60	80	25.5	34	21	22	1/16"	120°							
315	C101007C100	120	60	100	25.5	34	21	22	1/16"	120°							
Dentatura - Serration 3/32" x 90°																	
400+800	C101809	160	60	80	25.5	35	21	30	3/32"	120°							
400+800	C101809C100	160	60	100	25.5	35	21	30	3/32"	180°							
400+800	C101809C120	160	60	120	25.5	35	21	30	3/32"	180°							

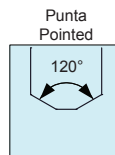


Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks						FORKARDT
Dentatura – Serration 1/16"x90°			Dentatura – Serration 3/32"x90°			
 	10 2100	10 1004	10 1304	10 1007	10 1809	
KTHS	160 175					
KG		200	250 315		400 500	
KGH		200				
KGHF		200				
KL		200 250	250		400 500	
KLNC		200	250 315		400 500	
KP		200	250 315		400 500	
KS		200 250	315 400		500 630	
KSHF		200	250 400		630	
KSF		200				
KSH		200	250 400		500	
KSPS		200	250 300		400	
KT		200	250 315		400 630	
KTH		200				
KTG		200	250 315		400 500	
KTGF		200	250 315		400 630	
KTN		200	250 315		400 500	
NH		200	250 315		400 630	
NHF		200	250 315		400 630	
QLC		200	250 315		400	
QLK		200	250 315		400	
QLC-KS		200 250	315 400			
QLK-KS		200 250	315 400			
UVE		200 250	315		400 800	
2BLE				250 315		
2BLN				250 315		



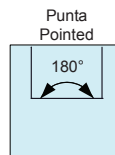
Fori – Holes

F2



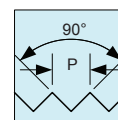
Punta

Standard

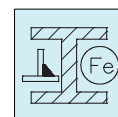


Punta

Piana - Flat



Dentatura
Serration
1/16"x90°
3/32"x90°



Materiale	Material
Acciaio	Steel
Fe510D	

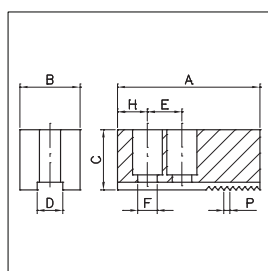
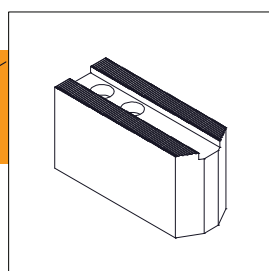
STANDARD – EXTRA ALTI HIGH

UNIT:mm

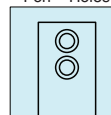
		Code														
Dentatura - Serration 1/16"x90°																
130 - 140	C102604	65	30	30	11	15	9	10	1/16"	120°						
130 - 140	C102604C050	65	30	50	11	15	9	10	1/16"	120°						
130 - 140	C102604C070	65	30	70	11	15	9	10	1/16"	120°						
170 - 180	C102607	75	35	35	12	25	11	13	1/16"	120°						
170 - 180	C102607C050	75	35	50	12	25	11	13	1/16"	120°						
200 - 240	C102610	100	40	40	14	39	13	14	1/16"	120°						
200 - 240	C102610C060	100	40	60	14	39	13	14	1/16"	120°						
200 - 240	C102610C080	100	40	80	14	39	13	14	1/16"	120°						
200 - 240	C102610C100	100	40	100	14	39	13	14	1/16"	120°						
160 - 200	C102614	75	40	40	17	20	13	14	1/16"	120°						
160 - 200	C102614C060	75	40	60	17	20	13	14	1/16"	120°						
160 - 200	C102614C080	75	40	80	17	20	13	14	1/16"	120°						
200 - 250	C102617	90	40	40	17	20	13	14	1/16"	120°						
200 - 210	C102617C060	90	40	60	17	20	13	14	1/16"	120°						
200 - 210	C102617C080	90	40	80	17	20	13	14	1/16"	120°						
250 - 315	C102620	110	50	50	21	25	17	20	1/16"	120°						
250 - 400	C102620C080	110	50	80	21	25	17	20	1/16"	120°						
250 - 400	C102620C100	110	50	100	21	25	17	20	1/16"	120°						
250 - 400	C102620C120	110	50	120	21	25	17	20	1/16"	120°						
315 - 400	C102623	129	50	50	20	45	15	25	1/16"	120°						
300 - 400	C102623C080	129	50	80	20	45	15	25	1/16"	120°						
300 - 400	C102623C100	129	50	100	20	45	15	25	1/16"	120°						
Dentatura - Serration 3/32"x90°																
400 - 800	C102626	150	60	60	25	32	19	30	3/32"	180°						
400 - 800	C102626C08001	250	60	80	25	32	19	30	3/32"	180°						
400 - 800	C102626C080	150	60	80	25	32	19	30	3/32"	180°						
400 - 800	C102626C100	150	60	100	25	32	19	30	3/32"	180°						
400 - 800	C102626C120	150	60	120	25	32	19	30	3/32"	180°						



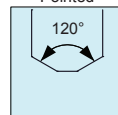
Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks									GALVEZ
Dentatura – Serration 1/16"x90°									Dentatura – Serration 3/32"x90°
 	10 2604	10 2607	10 2610	10 2614	10 2617	10 2620	10 2623	..2626	
A	140	170	200 240						
AS				160		250 315		400	
E	140	170	200 240						
EL-ELS				160 200		250 315		400 500	
KES	130			160 200				400 500	
NE				200	200 250	315		400	
ES								800	
HU	140	170	200 240						
HUSL				160 200		250 315		400 500	
HUFL				160 200		250 315			
KUF	130	160		200		250 315		400 500	
NHF				200 210	210 250	315		400	
NHS				210	210	250 315	315 340		
NHE/6		180 200		250		315			
PUH		170				250 315	340 360		
HUS/4				200		250 315		400 500	
Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks									HIDRAM
KT	130	170			200	250 315		400,500 630	



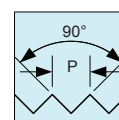
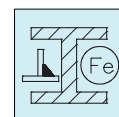
Fori - Holes



F2

Punta
Pointed

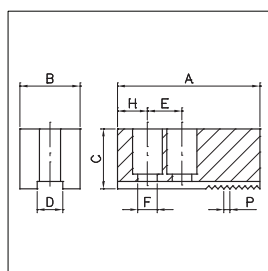
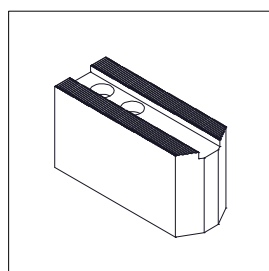
Standard

Dentatura
Serration
1/16"x90°Materiale
Material
Acciaio
Steel
Fe510D

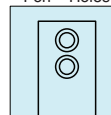
STANDARD

UNIT:mm

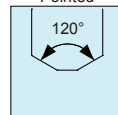
		A	B	C	D	E	F	H	P										
	Code																		
Dentatura - Serration 1/16"x90°																			
130 - 140	C101701	60	25	25	11	15	9		1/16"	120°									
160 - 170	C101702	75	30	30	14	20	11		1/16"	120°									
200 - 220	C101703	95	35	35	17	25	13		1/16"	120°									
250 - 320	C101704	125	45	45	21	32	17		1/16"	120°									



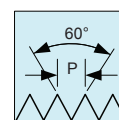
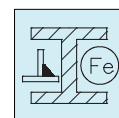
Fori - Holes



F2

Punta
Pointed

Standard

Dentatura
Serration
1,5x60°Materiale
Material
Acciaio
Steel
Fe510D

STANDARD

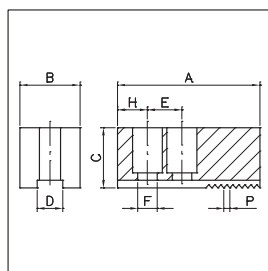
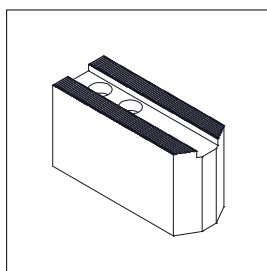
UNIT:mm

		A	B	C	D	E	F	H	P										
	Code																		
Dentatura - Serration 1.5 x 60°																			
105	C101601	55	25	25	10	15	9		1.5	120°									
110	C101602	55	25	25	10	12	7	12	1.5	120°									
160	C101603	65	30	30	11	22	9	10.5	1.5	120°									
160	C101604	77	35	35	11	22	9		1.5	120°									
215	C101605	102	45	45	14	22	11		1.5	120°									
250 - 280	C101606	125	50	50	20	30	13	15	1.5	120°									

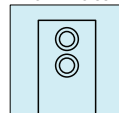
Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks

GAMET

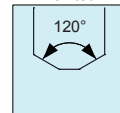
Dentatura – Serration 1/16"x90°										Dentatura – Serration 1,5x60°									
	10 1701	10 1702	10 1803	10 1704	10 1601	10 1602	10 1603	10 1604	10 1605	10 1606									
N,MF					105		160 170	160 170	215	250 280									
GO,MO					105		160	160	215	250 280									
GA,MAC		160 170	200 220	250 315															
DELTA		170	210	260 320															



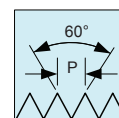
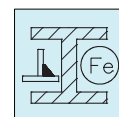
Fori – Holes



F2

 Punta
Pointed


Standard


 Dentatura
Serration
2,5x60°

 Materiale
Material
Acciaio
Steel
Fe510D

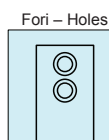
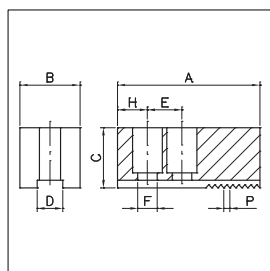
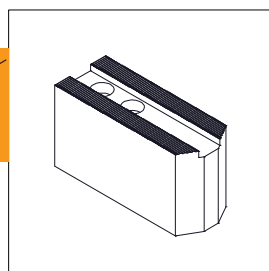
STANDARD

UNIT:mm

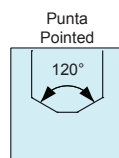
	Code	A	B	C	D	E	F	H	P						
Dentatura - Serration 2.5x60°															
105	C101503	50	15	25	5.3	12	5	15	2.5	120°					
130	C101506	60	20	25	6.2	15	6	15	2.5	120°					
160	C101509	80	20	30	7.5	18	7	18	2.5	120°					
190	C101512	90	25	40	10.2	25	9	20	2.5	120°					
200	C101515	100	25	40	10.2	25	9	20	2.5	120°					
230	C101518	120	30	50	10.2	25	9	25	2.5	120°					
250	C101521	120	30	50	10.2	30	11	25	2.5	120°					
270	C101524	120	30	50	12.2	30	11	30	2.5	120°					
310	C101527	150	30	50	12.2	30	11	30	2.5	120°					



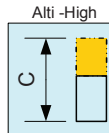
A



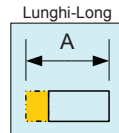
F2



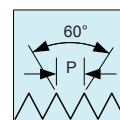
Standard



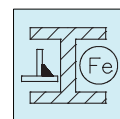
High



Lunghi-Long



Dentatura
Serration
1.5x60°

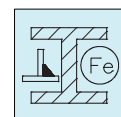
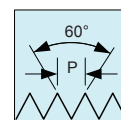
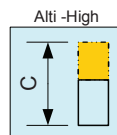
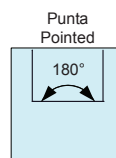
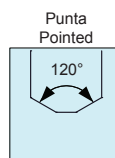
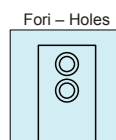
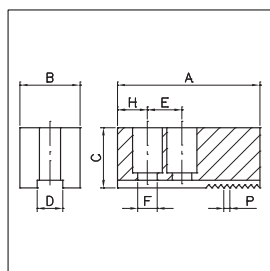
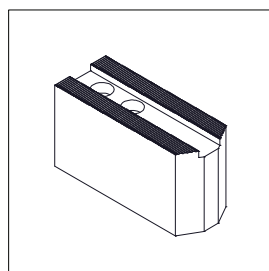


Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD – EXTRA ALTI HIGH

UNIT:mm

	Code														
Dentatura - Serration 1.5x60°															
110	C102003	55	25	25	10	14	9	13	1.5	120°					
110	C102003C03008	65	25	30	10	14	9	13	1.5	120°					
110	C102003C030	55	25	30	10	14	9	13	1.5	120°					
110	C102003C040	55	25	40	10	14	9	13	1.5	120°					
110	C102003C050	55	25	50	10	14	9	13	1.5	120°					
110	C102003C060	55	25	60	10	14	9	13	1.5	120°					
110 - 135	C102005	55	25	25	11	16	9	13	1.5	120°					
110 - 135	C102005C050	55	25	50	11	16	9	13	1.5	120°					
165	C102013	75	30	30	12	20	11	15	1.5	120°					
165	C102013C040	75	30	40	12	20	11	15	1.5	120°					
165	C102013C050	75	30	50	12	20	11	15	1.5	120°					
165	C102013C060	75	30	60	12	20	11	15	1.5	120°					
165	C102013C090	75	30	90	12	20	11	15	1.5	120°					
165	C102013C100	75	30	100	12	20	11	15	1.5	120°					
210	C102014	95	35	35	14	25	13	20	1.5	120°					
210	C102014C040	95	35	40	14	25	13	20	1.5	120°					
210	C102014C050	95	35	50	14	25	13	20	1.5	120°					
210	C102014C060	95	35	60	14	25	13	20	1.5	120°					
210	C102015	95	40	40	14	25	13	20	1.5	120°					
210	C102015C050	95	40	50	14	25	13	20	1.5	120°					
210	C102015C060	95	40	60	14	25	13	20	1.5	120°					
210	C102015C080	95	40	80	14	25	13	20	1.5	120°					
210	C102015C100	95	40	100	14	25	13	20	1.5	120°					
210 - 254	C102018	95	40	40	16	25	13	20	1.5	120°					
210 - 254	C102018C050	95	40	50	16	25	13	20	1.5	120°					
210 - 254	C102018C060	95	40	60	16	25	13	20	1.5	120°					
210 - 254	C102018C080	95	40	80	16	25	13	20	1.5	120°					
254	C102020	110	40	40	16	30	13	20	1.5	120°					
254	C102020C050	110	40	50	16	30	13	20	1.5	120°					
254	C102020C060	110	40	60	16	30	13	20	1.5	120°					
254	C102020C080	110	40	80	16	30	13	20	1.5	120°					
254	C102020C100	110	40	100	16	30	13	20	1.5	120°					
254	C102020C120	110	40	120	16	30	13	20	1.5	120°					



Dentatura
Serration
1.5x60°
3.0x60°

Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD – EXTRA ALTI HIGH

UNIT:mm

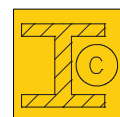
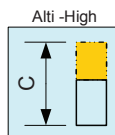
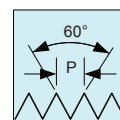
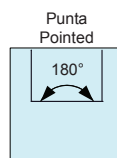
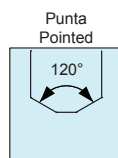
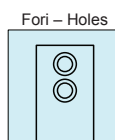
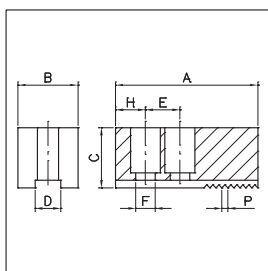
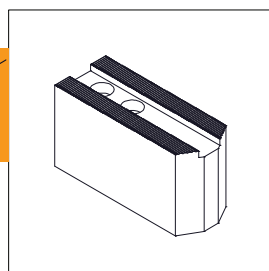
															
Dentatura - Serration 1.5x60°															
210 - 254	C102022	110	50	50	18	30	15	20	1.5	120°					
304	C102024	129	50	50	18	30	15	25	1.5	120°					
304	C102024C060	129	50	60	18	30	15	25	1.5	120°					
304	C102024C080	129	50	80	18	30	15	25	1.5	120°					
304	C102024C100	129	50	100	18	30	15	25	1.5	120°					
304	C102024C120	129	50	120	18	30	15	25	1.5	120°					
304	C102027	129	50	50	21	35	17	20	1.5	120°					
Dentatura - Serration 3,0x60°															
304	C102024P3	129	50	50	18	30	15	25	3.0	120°					
381 - 610	C102034	160	60	80	26	50	21	34	3.0	180°					

Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks

HOWA

Dentatura – Srration 1,5x60°									Dentatura – Serration 3,0x60°		
 	10 2003	10 2005	10 2013	10 2014 2015	10 2018	10 2020	10 2022 2024	10 2027	10 2024	10 2034	
H010D			6	8							
H012D	4		6		8		10				
H01MA	4		6S	8S		10S	12S		12	15;21; 24	
H022M	5		6		8		10				
H023M			8		10		12				
H024D			6		8						
H024M	5		6		8		10				
(H027M)		4;5	6		8		10	12			
H032M		6	8		10		12				
H034M			6		8		10	12			
H037D			6		8						
H037M		4;5	6		8		10	12			
H05M			6		8		10				
H3KT			6	8		10					

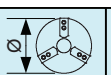
La serie del mandrino tra parentesi sono fuori catalogo – The chuck series in parentheses are out catalog

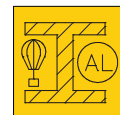


Dentatura
Serration
1.5x60°

Materiale
Material
Acciaio
Steel
C45

UNIT:mm

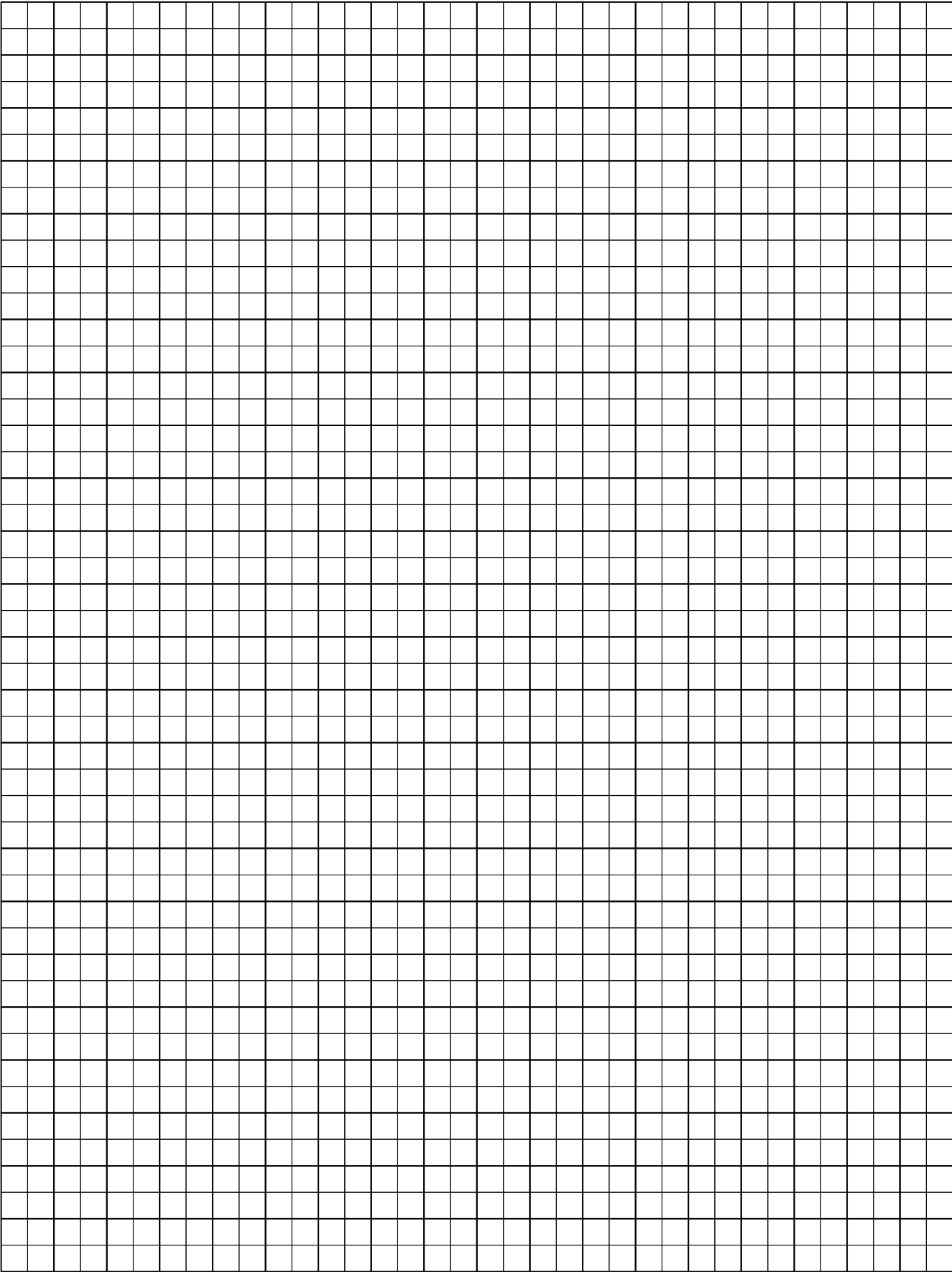
	Code														
Dentatura - Serration 1.5x60°															
110	B102003	55	25	25	10	14	9	13	1.5	120°					
110 - 135	B102005	55	25	25	11	16	9	13	1.5	120°					
165	B102013	75	30	30	12	20	11	15	1.5	120°					
210	B102014	95	35	35	14	25	13	20	1.5	120°					
210	B102015	95	40	40	14	25	13	20	1.5	120°					
210 - 254	B102018	95	40	40	16	25	13	20	1.5	120°					
254	B102020	110	40	40	16	30	13	20	1.5	120°					
210 - 254	B102022	110	50	50	18	30	15	20	1.5	120°					
304	B102024	129	50	50	18	30	15	25	1.5	120°					
304	B102027	129	50	50	21	35	17	20	1.5	120°					

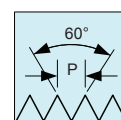
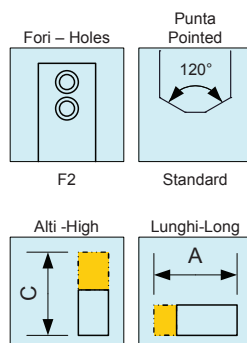
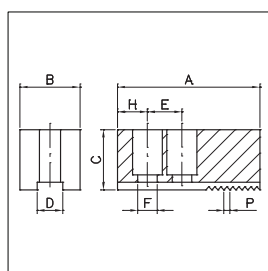
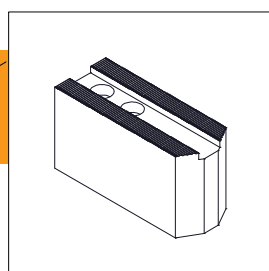


Materiale
 Material
 Alluminio
 Aluminium
 E7075

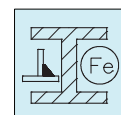
ALLUMINIO – ALUMINUM E7075

			Code													
Dentatura - Serration 1.5x60°																
110	A102003	55	25	25	10	14	9	13	1.5	120°						
110	A102003C050	55	25	50	10	14	9	13	1.5	120°						
110 - 135	A102005	55	25	25	11	16	9	13	1.5	120°						
165	A102013	75	30	30	12	20	11	15	1.5	120°						
165	A102013C060	75	30	60	12	20	11	15	1.5	120°						
210	A102014	95	35	35	14	25	13	20	1.5	120°						
210	A102015	95	40	40	14	25	13	20	1.5	120°						
210 - 254	A102018	95	40	40	16	25	13	20	1.5	120°						
254	A102020	110	40	40	16	30	13	20	1.5	120°						
210 - 254	A102022	110	50	50	18	30	15	20	1.5	120°						
304	A102024	129	50	50	18	30	15	25	1.5	120°						
304	A102027	129	50	50	21	35	17	20	1.5	120°						





Dentatura
Serration
1,5x60°

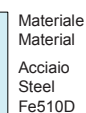


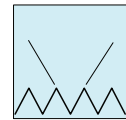
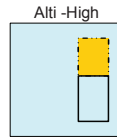
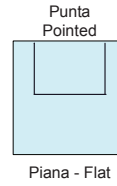
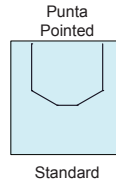
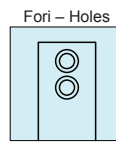
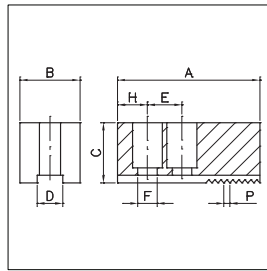
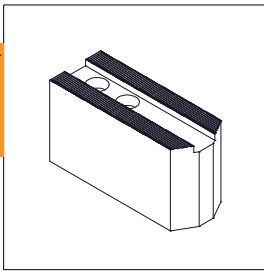
Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD – EXTRA ALTI HIGH

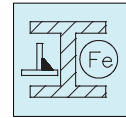
UNIT:mm

	Code															
Dentatura - Serration 1.5x60°																
110	C102001	50	25	25	8	15	7	8	1.5	120°						
110	C102001C030	50	25	30	8	15	7	8	1.5	120°						
110	C102001C040	50	25	40	8	15	7	8	1.5	120°						
135	C102003	55	25	25	10	14	9	13	1.5	120°						
110	C102003C03008	65	25	30	10	14	9	13	1.5	120°						
110	C102003C030	55	25	30	10	14	9	13	1.5	120°						
110	C102003C040	55	25	40	10	14	9	13	1.5	120°						
110	C102003C050	55	25	50	10	14	9	13	1.5	120°						
110	C102003C060	55	25	60	10	14	9	13	1.5	120°						
135	C102007	55	30	30	10	18	9	10	1.5	120°						
135	C102007C050	55	30	50	10	18	9	10	1.5	120°						
165	C102013	75	30	30	12	20	11	15	1.5	120°						
165	C102013C040	75	30	40	12	20	11	15	1.5	120°						
165	C102013C050	75	30	50	12	20	11	15	1.5	120°						
165	C102013C060	75	30	60	12	20	11	15	1.5	120°						
165	C102013C070	75	30	70	12	20	11	15	1.5	120°						
165	C102013C090	75	30	90	12	20	11	15	1.5	120°						
165	C102013C100	75	30	100	12	20	11	15	1.5	120°						
210	C102014	95	35	35	14	25	13	20	1.5	120°						
210	C102014C040	95	35	40	14	25	13	20	1.5	120°						
210	C102014C050	95	35	50	14	25	13	20	1.5	120°						
210	C102014C060	95	35	60	14	25	13	20	1.5	120°						
210	C102015	95	40	40	14	25	13	20	1.5	120°						
210	C102015C050	95	40	50	14	25	13	20	1.5	120°						
210	C102015C060	95	40	60	14	25	13	20	1.5	120°						
210	C102015C080	95	40	80	14	25	13	20	1.5	120°						
210	C102015C100	95	40	100	14	25	13	20	1.5	120°						
254	C102020	110	40	40	16	30	13	20	1.5	120°						
254	C102020C04002	129	40	40	16	30	13	25	1.5	120°						
254	C102020C050	110	40	50	16	30	13	20	1.5	120°						
254	C102020C060	110	40	60	16	30	13	20	1.5	120°						
254	C102020C080	110	40	80	16	30	13	20	1.5	120°						
254	C102020C100	110	40	100	16	30	13	20	1.5	120°						
254	C102020C120	110	40	120	16	30	13	20	1.5	120°						





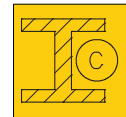
Dentatura
Serration
1.5x60°
3.0x60°



Materiale	Material
Acciaio	Steel
Fe510D	

UNIT:mm

	Code														
Dentatura - Serration 3.0x60°															
530 - 610	C102033	200	70	70	25	60	21	40	3.0	180°					
530 - 610	C102033A250	250	70	70	25	60	21	40	3.0	180°					
530 - 610	C102033C100	200	70	100	25	60	21	40	3.0	180°					
530 - 610	C102033C120	200	70	120	25	60	21	40	3.0	180°					
530 - 610	C102033C140	200	70	140	25	60	21	40	3.0	180°					



Materiale	
Material	
Acciaio	
Steel	
C45	

ACCIAIO – STEEL C45

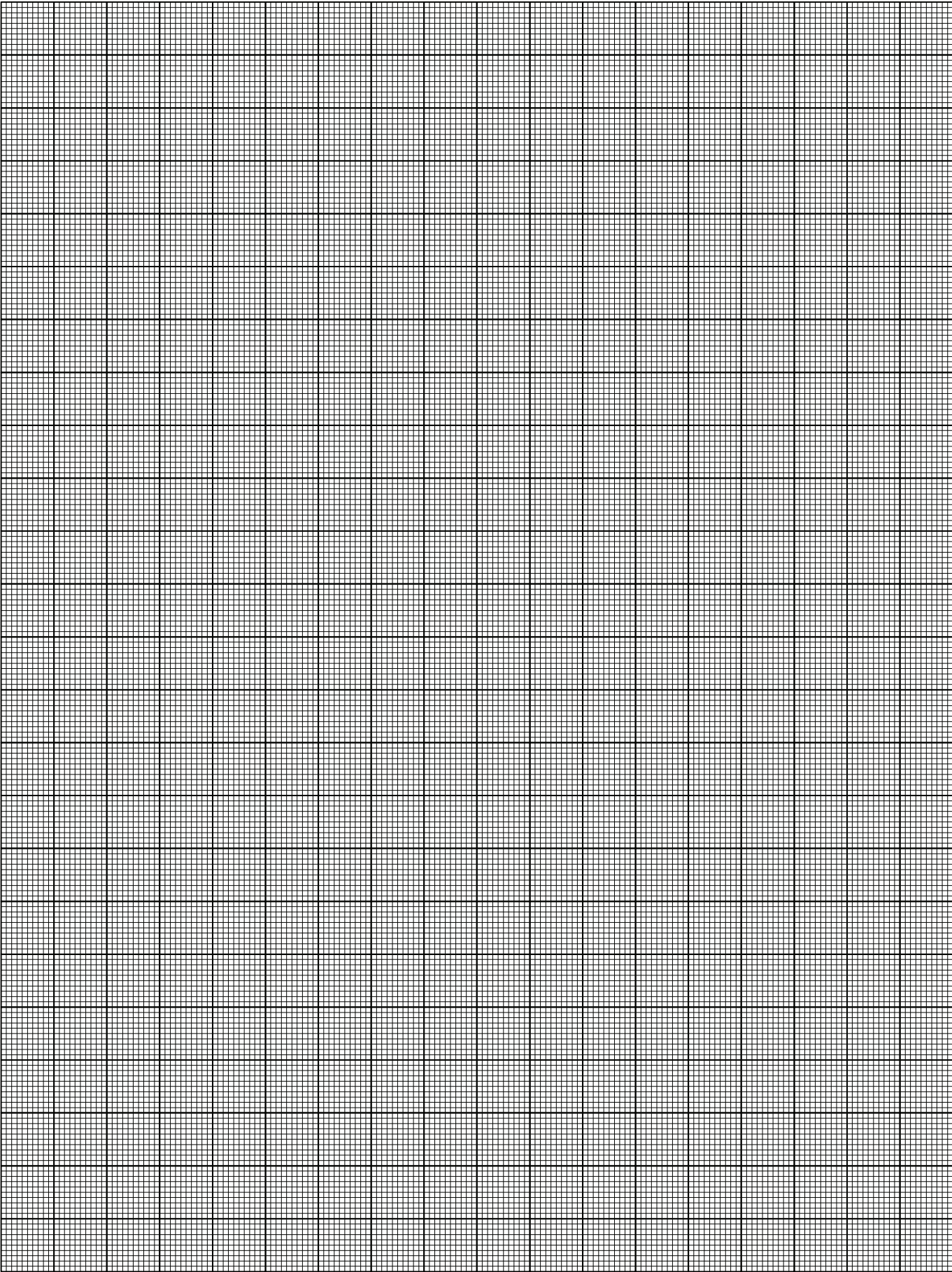
Dentatura - Serration 1.5x60°															
110	B102001	50	25	25	8	15	7	8	1.5	120°					
135	B102003	55	25	25	10	14	9	13	1.5	120°					
135	B102007	55	30	30	10	18	9	10	1.5	120°					
165	B102013	75	30	30	12	20	11	15	1.5	120°					
210	B102014	95	35	35	14	25	13	20	1.5	120°					
210	B102015	95	40	40	14	25	13	20	1.5	120°					
210	B102015C060	95	40	60	14	25	13	20	1.5	120°					
254	B102020	110	40	40	16	30	13	20	1.5	120°					
254	B102021	110	50	50	16	30	13	20	1.5	120°					
254	B102022	110	50	50	18	30	15	20	1.5	120°					
254	B102024	129	50	50	18	30	15	25	1.5	120°					
304	B102026	129	50	50	21	30	17	25	1.5	120°					
381	B102028	135	60	60	25.5	43	21	26	1.5	180°					
381 - 450	B102029	165	60	60	22	43	21	37	1.5	180°					
381 - 450	B102030	165	60	60	25.5	43	21	37	1.5	180°					
Dentatura - Serration 3.0x60°															
530 - 610	B102033	200	70	70	25	60	21	40	3.0	180°					

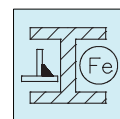
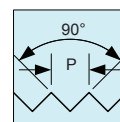
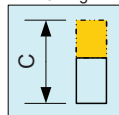
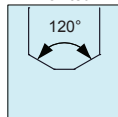
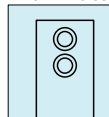
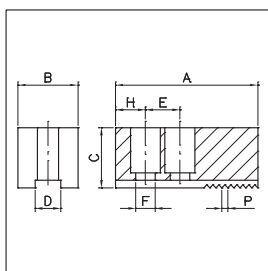
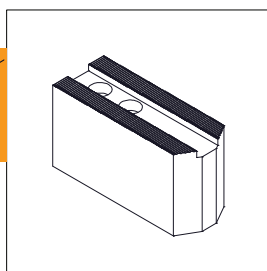




Morsetti tonibili per serie mandrini – Soft Top Jaws for series chucks												KITAGAWA
Dentatura – Serration 1,5x60°											Dentatura – Serration 3,0x60°	
	10 2001	10 2003	10 2007	10 2013	10 2014 2015	10 2020 2021	10 2022 2024	10 2026	10 2028 2030	10 2029	10 2033	
AS		04		06	08	10						
AT		04		06	08	10					21 24	
B	(04)		(05)	(06)	(08)	(10)	(12)			15 18		
B200		204 205			208	210		212	215			
BB200				206	208	210		212				
BL200				206	208	210		212				
BLT200								212				
BS300				306	308	310						
(BT)	04		05	06	08	10				15		
BT200		204 205		206	208	210		212				
(HJ)		4									18 21	
(HJA)				5-6	6-8	6-10 8-10	6-12 8-12				11-18 11-21	
(HO)				6	8	10				15		
(HOB)	4		5	6	8	10	12			15 18	21 24	
(HOBT)	4		5	6	8	10	12			15		
HOH				206 (06K)	(08K) 208	10K	12K			15K		
(HOS)				6	8	10	12			15		
HW				08								
ML				06	08							
MLT				06	08							
N		04		06	08	10	12		15 18		21 24	
NL		04		06	08	10	12		18			
NLT				06	08	10	12					
(NCR)		04		06	08	10						
NT		04		(06)	(08)	(10)	(12)					
UVE..K					160K	200K 250K						

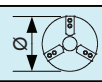
La serie del mandrino tra parentesi sono fuori catalogo – The chuck series in parentheses are out catalog





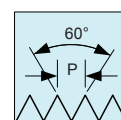
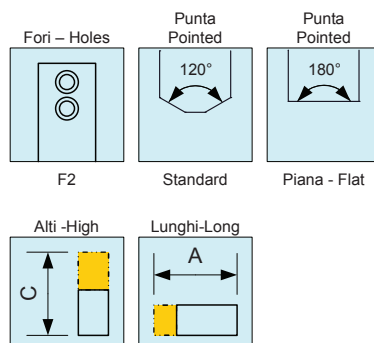
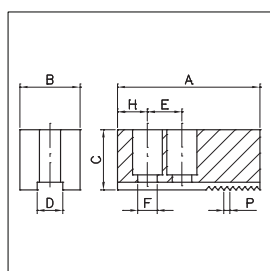
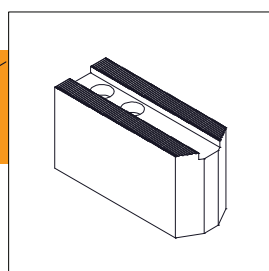
Materiale	Material
Acciaio	Steel
Fe510D	

UNIT:mm

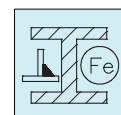
	Code														
Dentatura - Serration 1/16"x90°															
125	C101301	60	30	30	12	13	9	15	1/16"	120°					
160 - 170	C101002	70	35	35	14	16.5	11	16	1/16"	120°					
160 - 170	C101002C050	70	35	50	14	16.5	11	16	1/16"	120°					
160 - 170	C101002C060	70	35	60	14	16.5	11	16	1/16"	120°					
160 - 170	C101002C070	70	35	70	14	16.5	11	16	1/16"	120°					
160 - 170	C101002C080	70	35	80	14	16.5	11	16	1/16"	120°					
200 - 220	C101004	90	40	40	17	23	13	20	1/16"	120°					
200 - 220	C101004C050	90	40	50	17	23	13	20	1/16"	120°					
200 - 220	C101004C060	90	40	60	17	23	13	20	1/16"	120°					
200 - 220	C101004C070	90	40	70	17	23	13	20	1/16"	120°					
200 - 220	C101004C080	90	40	80	17	23	13	20	1/16"	120°					
200 - 220	C101004C100	90	40	100	17	23	13	20	1/16"	120°					
200 - 220	C101004C120	90	40	120	17	23	13	20	1/16"	120°					
200 - 220	C101005	105	40	40	17	23	13	20	1/16"	120°					
200 - 220	C101005C060	105	40	60	17	23	13	20	1/16"	120°					
200 - 220	C101005C080	105	40	80	17	23	13	20	1/16"	120°					
200 - 220	C101005C100	105	40	100	17	23	13	20	1/16"	120°					
200 - 220	C101005C120	105	40	120	17	23	13	20	1/16"	120°					
250	C101304	110	50	50	21	28	17	20	1/16"	120°					
250	C101304C060	110	50	60	21	28	17	20	1/16"	120°					
250	C101304C080	110	50	80	21	28	17	20	1/16"	120°					
250	C101304C100	110	50	100	21	28	17	20	1/16"	120°					
315	C101306	140	50	60	21	30	17	30	1/16"	120°					
315	C101306C080	140	50	80	21	30	17	30	1/16"	120°					
315	C101306C100	140	50	100	21	30	17	30	1/16"	120°					



Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks						MARIO PINTO
Dentatura – Serration 1/16"x90°						
 	10 1301	10 1002	10 1004	10 1304	10 1306	
F						
FV						
MA						
GL					315 400	
GLR	130	165	200 220	250		
FC						
VR						
NR						
TR						



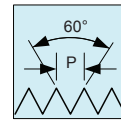
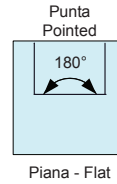
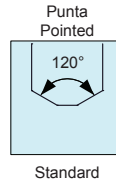
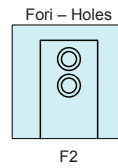
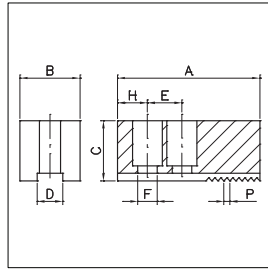
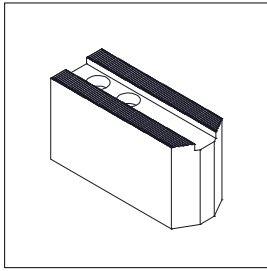
Dentatura
Serration
1,5x60°
3.0x60°



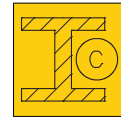
Materiale	Material
Acciaio	Steel
Fe510D	

UNIT:mm

	Code	A	B	C	D	E	F	H	P							
Dentatura - Serration 1.5x60°																
110	C102003	55	25	25	10	14	9	13	1.5	120°						
110	C102003C03008	65	25	30	10	14	9	13	1.5	120°						
110	C102003C030	55	25	30	10	14	9	13	1.5	120°						
110	C102003C040	55	25	40	10	14	9	13	1.5	120°						
110	C102003C050	55	25	50	10	14	9	13	1.5	120°						
110	C102003C060	55	25	60	10	14	9	13	1.5	120°						
165	C102010	70	30	30	11	25	9	12	1.5	120°						
210	C102015	95	40	40	14	25	13	20	1.5	120°						
210	C102015C050	95	40	50	14	25	13	20	1.5	120°						
210	C102015C060	95	40	60	14	25	13	20	1.5	120°						
210	C102015C080	95	40	80	14	25	13	20	1.5	120°						
210	C102015C100	95	40	100	14	25	13	20	1.5	120°						
254	C102020	110	40	40	16	30	13	20	1.5	120°						
254	C102020C04002	129	40	40	16	30	13	25	1.5	120°						
254	C102020C050	110	40	50	16	30	13	20	1.5	120°						
254	C102020C060	110	40	60	16	30	13	20	1.5	120°						
254	C102020C080	110	40	80	16	30	13	20	1.5	120°						
254	C102020C100	110	40	100	16	30	13	20	1.5	120°						
254	C102020C120	110	40	120	16	30	13	20	1.5	120°						
304	C102022	110	50	50	18	30	15	20	1.5	120°						
304	C102024	129	50	50	18	30	15	25	1.5	120°						
304	C102024C060	129	50	60	18	30	15	25	1.5	120°						
304	C102024C080	129	50	80	18	30	15	25	1.5	120°						
304	C102024C100	129	50	100	18	30	15	25	1.5	120°						
304	C102024C120	129	50	120	18	30	15	25	1.5	120°						
Dentatura - Serration 3.0x60°																
381÷450	C102031	165	60	60	22	50	21	30	3.0	180°						



Dentatura
Serration
1,5x60°
3.0x60°

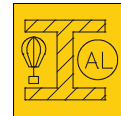


Materiale	Material
Acciaio	Steel
C45	

ACCIAIO – STEEL C45

UNIT:mm

		Code														
Dentatura - Serration 1.5x60°																
110	B102003	55	25	25	10	14	9	13	1.5	120°						
165	B102010	70	30	30	11	25	9	12	1.5	120°						
210	B102015	95	40	40	14	25	13	20	1.5	120°						
254	B102020	110	40	40	16	30	13	20	1.5	120°						
304	B102022	110	50	50	18	30	15	20	1.5	120°						
304	B102024	129	50	50	18	30	15	25	1.5	120°						
Dentatura - Serration 3.0x60°																
381+450	B102031	165	60	60	22	50	21	30	3.0	180°						

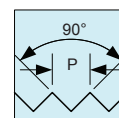
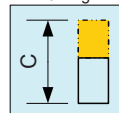
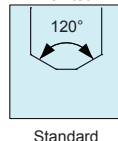
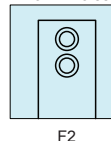
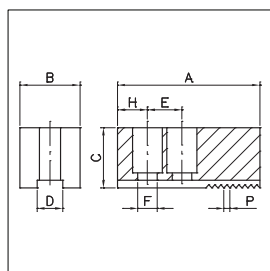
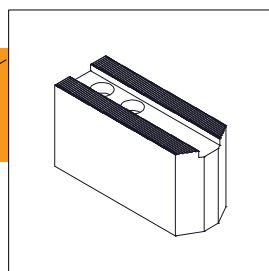


Materiale	Material
Alluminio	Aluminum
E7075	

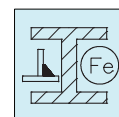
ALLUMINIO – ALUMINUM E7075

Dentatura - Serration 1.5x60°															
110	A102003	55	25	25	10	14	9	13	1.5	120°					
135	A102003C050	55	25	50	10	14	9	13	1.5	120°					
165	A102010	70	30	30	11	25	9	12	1.5	120°					
210	A102015	95	40	40	14	25	13	20	1.5	120°					
254	A102020	110	40	40	16	30	13	20	1.5	120°					
304	A102022	110	50	50	18	30	15	20	1.5	120°					
304	A102024	129	50	50	18	30	15	25	1.5	120°					
Dentatura - Serration 3.0x60°															
381+450	A102031	165	60	60	22	50	21	30	3.0	180°					

Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks							MMK-MATSUMOTO
Dentatura – Serration 1.5x60°						Dentatura – Serration 3.0x60°	
 	10 2003	10 2010	10 2015	10 2020	10 2022 2024	10 2031	
H	5						
Z	4-5						
HA		6	8	10	12	15-18	
ZA		6	8	10	12	15-18	



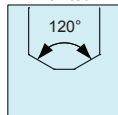
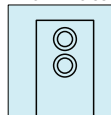
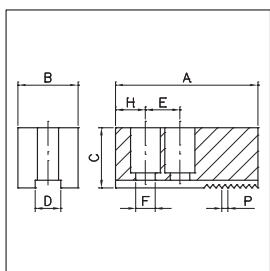
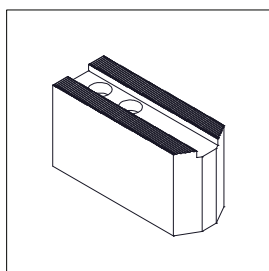
Dentatura
Serration
1/16"x90°



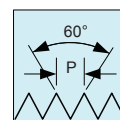
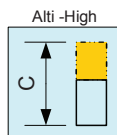
Materiale	Material
Acciaio	Steel
Fe510D	

UNIT:mm

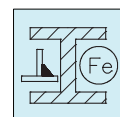
	Code														
165	C102202	70	30	30	12	17	9	11	1/16"	120°					
165	C102202C050	70	30	50	12	17	9	11	1/16"	120°					
210	C101804	90	40	40	17	19	13	12	1/16"	120°					
210	C101804C060	90	40	60	17	19	13	12	1/16"	120°					
210	C101804C080	90	40	80	17	19	13	12	1/16"	120°					
210	C101804C100	90	40	100	17	19	13	12	1/16"	120°					
254 - 265	C102205	110	40	40	17	19	13	12	1/16"	120°					
254 - 265	C102205C060	110	40	60	17	19	13	12	1/16"	120°					
305	C101805	110	50	50	21	25	17	16	1/16"	120°					
305	C101805C080	110	50	80	21	25	17	16	1/16"	120°					
305	C101805C100	110	50	100	21	25	17	16	1/16"	120°					
500	C102208	150	60	60	25.5	31	21	20	1/16"	120°					
500	C102208C080	150	60	80	25.5	31	21	20	1/16"	120°					



Standard



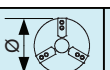
Dentatura
Serration
1,5x60°°

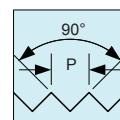
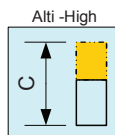
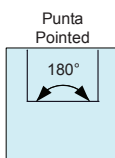
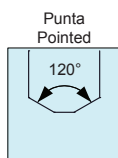
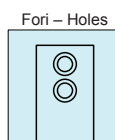
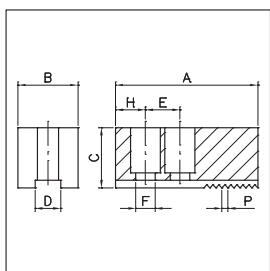
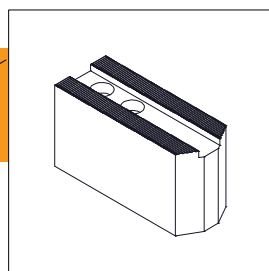


Materiale	Material
Acciaio	Steel
Fe510D	

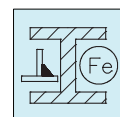


UNIT:mm

	Code														
Dentatura - Serration 1.5x60°															
165	C102502	70	30	30	12	17	9	11	1.5	120°					
165	C102502C050	70	30	50	12	17	9	11	1.5	120°					
210	C102504	95	35	35	14	19	13	12	1.5	120°					
254 - 265	C102507	110	40	40	16	19	13	12	1.5	120°					
254 - 265	C102507C060	110	40	60	16	19	13	12	1.5	120°					
305	C102509	120	50	50	18	25	15	15	1.5	120°					
380	C102511	150	60	60	22	31	21	20	1.5	120°					

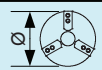


Dentatura
Serration
1/16"x90°
3/32"x90°



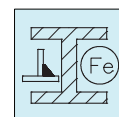
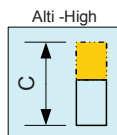
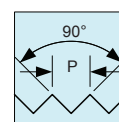
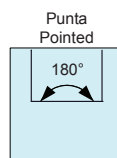
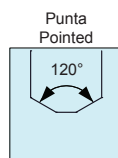
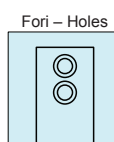
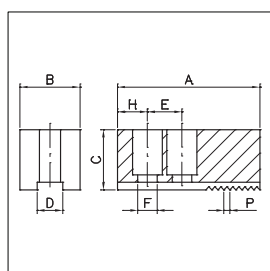
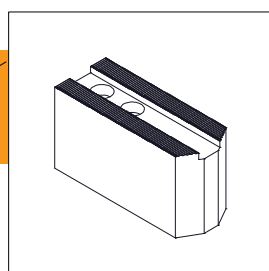
Materiale	Material
Acciaio	Steel
Fe510D	

UNIT:mm

	Code														
Dentatura - Serration 1/16"x90°															
110	C101801	55	25	30	10	12	7	11	1/16"	120°					
110	C101801C050	55	25	50	10	12	7	11	1/16"	120°					
130	C101802	55	30	30	12	15	9	9	1/16"	120°					
130	C101802C050	55	30	50	12	15	9	19	1/16"	120°					
160 - 200	C101804	90	40	40	17	19	13	12	1/16"	120°					
160 - 200	C101804C060	90	40	60	17	19	13	12	1/16"	120°					
160 - 200	C101804C080	90	40	80	17	19	13	12	1/16"	120°					
160 - 200	C101804C100	90	40	100	17	19	13	12	1/16"	120°					
200 - 220	C101004	90	40	40	17	23	13	20	1/16"	120°					
200 - 220	C101004C050	90	40	50	17	23	13	20	1/16"	120°					
200 - 220	C101004C060	90	40	60	17	23	13	20	1/16"	120°					
200 - 220	C101004C080	90	40	80	17	23	13	20	1/16"	120°					
200 - 220	C101004C100	90	40	100	17	23	13	20	1/16"	120°					
200 - 220	C101004C120	90	40	120	17	23	13	20	1/16"	120°					
200 - 220	C101005	105	40	40	17	23	13	20	1/16"	120°					
200 - 220	C101005C060	105	40	60	17	23	13	20	1/16"	120°					
200 - 220	C101005C080	105	40	80	17	23	13	20	1/16"	120°					
200 - 220	C101005C100	105	40	100	17	23	13	20	1/16"	120°					
200 - 220	C101005C120	105	40	120	17	23	13	20	1/16"	120°					
250	C101304	110	50	50	21	28	17	20	1/16"	120°					
250	C101304C060	110	50	60	21	28	17	20	1/16"	120°					
250	C101304C080	110	50	80	21	28	17	20	1/16"	120°					
250	C101304C100	110	50	100	21	28	17	20	1/16"	120°					
315	C101007	120	60	60	25.5	34	21	22	1/16"	120°					
315	C101007C080	120	60	80	25.5	34	21	22	1/16"	120°					</



Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks								ROHM
Dentatura – Serration 1/16"x90°								Dentatura – Serration P3/32"x90°
 	10 1801	10 1802	10 1804	10 1004	10 1304	10 1007	10 1809	
HFD	110			200	250		400,50 630,80	
HFD-HS		160	200				400 500	
DURO-NCGB			200					
KFH-F				200			400 500	
KFH-G				200			400 500	
KFH-NC				200			400 500	
LVE				200			400,50 63,800	
KFD-HF					250		500 630	
KFD-AF					250			
KFD-EC					250			
KFA						250 315		
KFD-G						250 315		
KFH							500	
KFL							500 600	



Dentatura
Serration
1/16"x90°
3/32"x90°

Materiale	Material
Acciaio	Steel
Fe510D	

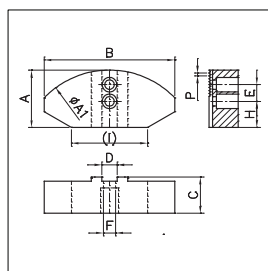
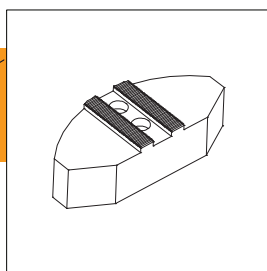
STANDARD – EXTRA ALTI HIGH

UNIT:mm

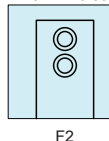
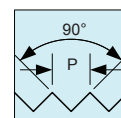
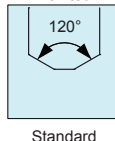
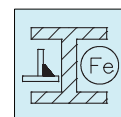
	Code	A	B	C	D	E	F	H	P						
Dentatura - Serration 1/16"x90°															
110	C101801	55	25	30	10	12	7	11	1/16"	120°					
110	C101801C050	55	25	50	10	12	7	11	1/16"	120°					
130	C101802	55	30	30	12	15	9	19	1/16"	120°					
130	C101802C050	55	30	50	12	15	9	19	1/16"	120°					
165	C101003	80	40	40	14	20	11	18	1/16"	120°					
165	C101003C060	80	40	60	14	20	11	18	1/16"	120°					
165	C101003C070	80	40	70	14	20	11	18	1/16"	120°					
165	C101003C080	80	40	80	14	20	11	18	1/16"	120°					
160 - 200	C101804	90	40	40	17	19	13	12	1/16"	120°					
160 - 200	C101804C060	90	40	60	17	19	13	12	1/16"	120°					
160 - 200	C101804C080	90	40	80	17	19	13	12	1/16"	120°					
160 - 200	C101804C100	90	40	100	17	19	13	12	1/16"	120°					
200 - 220	C101004	90	40	40	17	23	13	20	1/16"	120°					
200 - 220	C101004C050	90	40	50	17	23	13	20	1/16"	120°					
200 - 220	C101004C060	90	40	60	17	23	13	20	1/16"	120°					
200 - 220	C101004C080	90	40	80	17	23	13	20	1/16"	120°					
200 - 220	C101004C100	90	40	100	17	23	13	20	1/16"	120°					
200 - 220	C101004C120	90	40	120	17	23	13	20	1/16"	120°					
200 - 220	C101005	105	40	40	17	23	13	20	1/16"	120°					
200 - 220	C101005C060	105	40	60	17	23	13	20	1/16"	120°					
200 - 220	C101005C080	105	40	80	17	23	13	20	1/16"	120°					
200 - 220	C101005C100	105	40	100	17	23	13	20	1/16"	120°					
200 - 220	C101005C120	105	40	120	17	23	13	20	1/16"	120°					
250	C101304	110	50	50	21	28	17	20	1/16"	120°					
250	C101304C060	110	50	60	21	28	17	20	1/16"	120°					
250	C101304C080	110	50	80	21	28	17	20	1/16"	120°					
250	C101304C100	110	50	100	21	28	17	20	1/16"	120°					
315	C101007	120	60	60	25.5	34	21	22	1/16"	120°					
315	C101007C080	120	60	80	25.5	34	21	22	1/16"	120°					
315	C101007C100	120	60	100	25.5	34	21	22	1/16"	120°					
Dentatura - Serration 3/32"x90°															
400	C101809	160	60	80	25.5	35	21	30	3/32"	180°					
400	C101809C100	160	60	100	25.5	35	21	30	3/32"	180°					
400	C101809C120	160	60	120	25.5	35	21	30	3/32"	180°					



Morsetti tornibili per serie mandrini – Soft Top Jaws for series chucks								SCHUNK
Dentatura – Serration 1/16"x90°							Dentatura – Serration 3/32"x90°	
 	10 1801	10 1802	10 1803	10 1004 1005	10 1304	10 1007	10 1809	
ROTA NCD	130	160					500	
ROTA TP			160					
ROTA NCF				165 210			400	
ROTA NC					250		400	
ROTA 2B						250 315		
ROTA NCO							400 800	



Fori – Holes


 Punta
Pointed

 Dentatura
Serration
1/16"x90°
3/32"x90°

 Materiale
Material
Acciaio
Steel
Fe510D

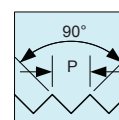
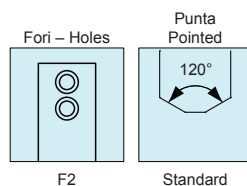
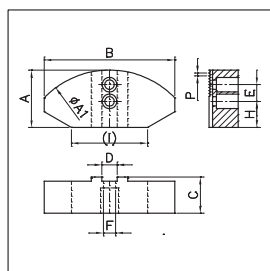
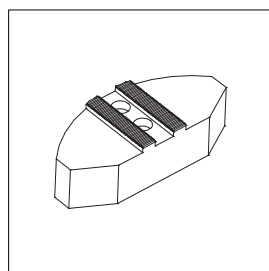
STANDARD

UNIT:mm

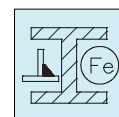
	Code	A	B	C	D	E	F	H	P	(I)	A1								
Dentatura - Serration 1/16"x90°																			
125 - 130	FGC101001	50	100	40	12	16	9	20	1/16"	35	130								
160 - 170	FGC101002	60	120	50	14	16.5	11	25	1/16"	40	160								
200 - 220	FGC101004	80	140	60	17	23	13	35	1/16"	60	200								
250	FGC101006	80	180	60	21	30	17	30	1/16"	100	250								
315	FGC101008	120	240	60	21	30	17	70	1/16"	80	320								
400	FGC101014	145	300	80	21	30	17	85	1/16"	150	420								
Dentatura - Serration 3/32"x90°																			
400 - 500	FGC101015	145	300	80	25.5	38	21	85	3/32"	150	420								
500 - 630	FGC101016	155	330	80	25.5	38	21	85	3/32"	150	440								

Morsetti avvolgenti per serie mandrini – Soft full grip top jaws for series chucks
SMW-AUTOBLOK

Dentatura – Serration 1/16"x90°										Dentatura – Serration 3/32"x90°									
	FG 10 1001	FG 10 1002	FG 10 1004	FG 10 1006	FG 10 1008	FG 10 1014	FG 10 1015	FG 10 1016											
AN-D	125	165	210	250	315		400												
AL-D	125	165	210	250	315		400												
BH-D	130	165	210	250	315		400 450												
BHD-FC		165	210	250	315		400												
AP-D		170	215		315		400												
NT-D		170	215				400												
BB-D	140	175	210	250	315		400												
HFKN-D		165	210	260	315		400 500												
HYND-S	150	180	210 226	250	315														
SP		160	240	280	350														
GHDN	125					400													
GHD-FC						400													
HDN						400													
HDN-FC						400													
IDN	125					400													
IDL, HDL						400													
HYD						400													
IL-D, IN-D						400	500	500 630											
BB-N							460	460 500											



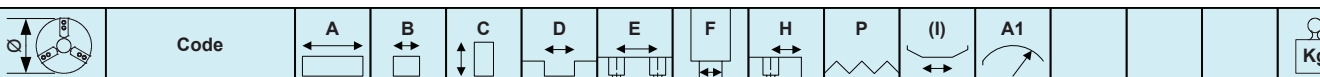
Dentatura
Serration
1/16"x90°
3/32"x90°



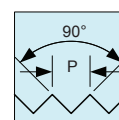
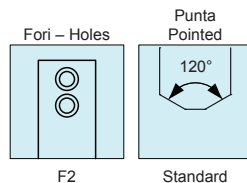
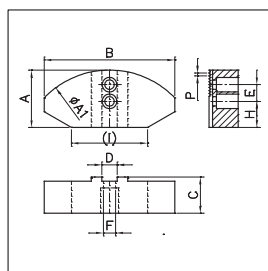
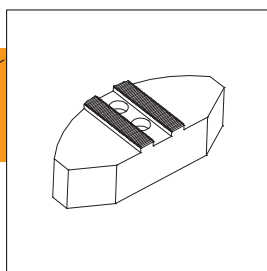
Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD

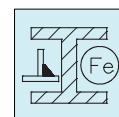
UNIT:mm

	Code	A	B	C	D	E	F	H	P	(I)	A1					Kg
Dentatura - Serration 1/16"x90°																
125 - 130	FGC101001	50	100	40	12	16	9	20	1/16"	35	130					
160 - 170	FGC101002D17	60	120	50	17	23	13	25	1/16"	40	160					
200 - 220	FGC101004	80	140	60	17	23	13	35	1/16"	60	200					
250	FGC101006	80	180	60	21	30	17	30	1/16"	100	250					
315	FGC101008	120	240	60	21	30	17	70	1/16"	80	320					
Dentatura - Serration 3/32"x90°																
400 - 500	FGC101015	145	300	80	25.5	38	21	85	3/32"	150	420					
500 - 630	FGC101016	155	330	80	25.5	38	21	85	3/32"	150	440					

Morsetti avvolgenti per serie mandrini – Soft full grip top jaws for series chucks								BERG
Dentatura – Serration 1/16"x90°					Dentatura – Serration 3/32"x90°			
 	FG 10 1001	FG 10 1002	FG 10 1004	FG 10 1006	FG 10 1008	FG 10 1015	FG 10 1016	
KF	130	160	200	250	315	400	500 630	
HES, HESF		160	200	250	315	400	500 630	



Dentatura
Serration
1/16"x90°
3/32"x90°



Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD

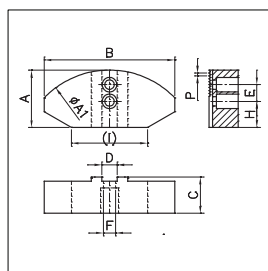
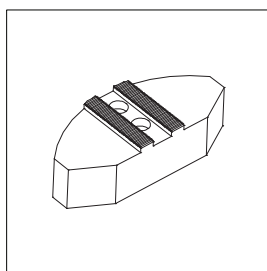
UNIT:mm

															
Dentatura - Serration 1/16"x90°															
160 - 170	FGC101002D17	60	120	50	17	23	13	25	1/16"	40	160				
200 - 220	FGC101004	80	140	60	17	23	13	35	1/16"	60	200				
250	FGC101006	80	180	60	21	30	17	30	1/16"	100	250				
315	FGC101008	120	240	60	21	30	17	70	1/16"	80	320				
Dentatura - Serration 3/32"x90°															
400 - 500	FGC101015	145	300	80	25.5	38	21	85	3/32"	150	420				
500 - 630	FGC101016	155	330	80	25.5	38	21	85	3/32"	150	440				

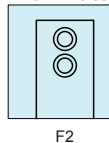
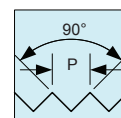
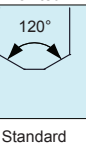
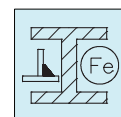
Morsetti avvolgenti per serie mandrini – Soft full grip top jaws for series chucks

FORKARDT

Dentatura – Serration 1/16"x90°					Dentatura – Serration 3/32"x90°		
 	FG 10 1002	FG 10 1004	FG 10 1006	FG 10 1008	FG 10 1015	FG 10 1016	
KHG, KGHF	160	200					
KL	160	200	250				
KS	160	200		315 400	500		
KSH,KSPS	160	200	250	315 400	400 500		
KTH	160	200					
KT, KTGF	160	200	250		400 500		
NK, NHF	160		250				
KSHF	160		250			630	



Fori – Holes


 Punta
Pointed

 Dentatura
Serration
1/16"x90°
3/32"x90°

 Materiale
Material
Acciaio
Steel
Fe510D

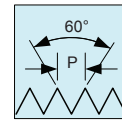
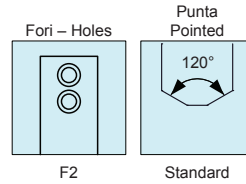
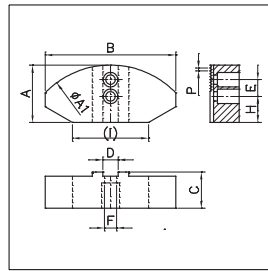
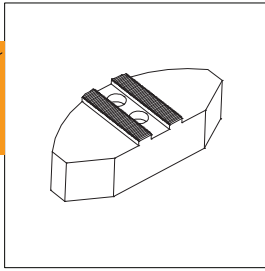
STANDARD

UNIT:mm

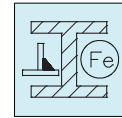
	Code	A	B	C	D	E	F	H	P	(I)	A1					Kg
Dentatura - Serration 1/16"x90°																
125 - 130	FGC101001	50	100	40	12	16	9	20	1/16"	35	130					
160 - 170	FGC101002D17	60	120	50	17	23	13	25	1/16"	40	160					
200 - 220	FGC101004	80	140	60	17	23	13	35	1/16"	60	200					
250	FGC101006	80	180	60	21	30	17	30	1/16"	100	250					
315	FGC101008	120	240	60	21	30	17	70	1/16"	80	320					
Dentatura - Serration 3/32"x90°																
400 - 500	FGC101015	145	300	80	25.5	38	21	85	3/32"	150	420					
500 - 630	FGC101016	155	330	80	25.5	38	21	85	3/32"	150	440					

Morsetti avvolgenti per serie mandrini – Soft full grip top jaws for series chucks
ROHM

Dentatura – Serration 1/16"x90°							Dentatura – Serration 3/32"x90°						
	FG 10 1001	FG 10 1002	FG 10 1004	FG 10 1006	FG 10 1008	FG 10 1015	FG 10 1016						
KFD		160	200	250	315	400	500						
KFH		160	200	250		400							
KFH-F		160	200	250	315	400	500						
KFH-G		160	200	250	315	400	500						
KFD-AF		160	200	250	315								
KFD-HS	160 175					400	500						
KFD-HE	160					400							



Dentatura
Serration
1,5x60°



Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD

UNIT:mm

	Code	A	B	C	D	E	F	H	P	(I)	A1				
Dentatura - Serration 1.5x60°															
165	FGC102013	60	120	50	12	20	11		1.5		160				
210	FGC102014	80	140	60	14	25	13		1.5		200				
210	FGC102018	80	180	60	16	25	13		1.5		250				
254	FGC102020	80	180	60	16	30	13		1.5		250				
254	FGC102022	80	180	60	18	30	15		1.5		250				
304	FGC102024	120	240	60	18	30	15		1.5		300				
304	FGC102026	120	240	60	21	30	17		1.5		300				
381 - 450	FGC102028	120	280	80	25.5	43	21		1.5		380				
381 - 450	FGC102029	120	280	80	22	43	21		1.5		380				

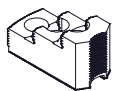
Morsetti avvolgenti per serie mandrini – Soft full grip top jaws for series chucks

KITAGAWA

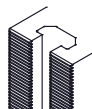
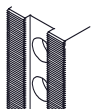
Dentatura – Serration 1.5x60°

	FG 10 2013	FG 10 2014	FG 10 2018	FG 10 2020	FG 10 2022	FG 10 2024	FG 10 2026	FG 10 2028	FG 10 2029
B	06 206	08 208		10 210		12 212	212	215	15 18
BB	06 206	08 208		10 210			212		
BL	206	208		210					
BS	306	308		310					
HJ	A5-6	A6-8		A6-10 A8-18		AS-12 A8-12			
H	06	08		10		12			
HOB	06	08		10		12			15
HOH	06 206	08		10 10K		12	12K		15K
HOS	06	08		10		12			15
ML	06	08							
N	06	08		10		12		15 18	
NL	06	08		10		12			

MORSETTI DURI CON DENTATURA 90° E 60° - Hard Top jaws serrated 90° & 60°



**MORSETTI
REVERSIBILI**
Hard reversible jaws



MANDRINI CHUCKS

Tipo
Type



SMW – AUTOBLOK

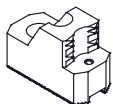
Standard

B2

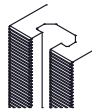
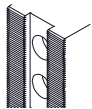
KITAGAWA

Standard

B4



MORSETTI CLAW GRIP
Hard claw jaws



MANDRINI CHUCKS

Tipo
Type

SMW – AUTOBLOK

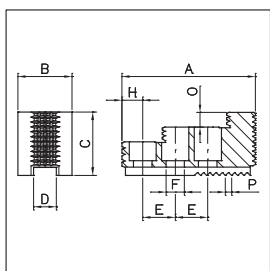
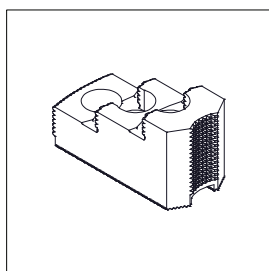
Standard

B6

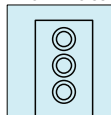
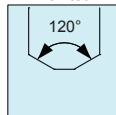
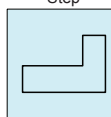
KITAGAWA

Standard

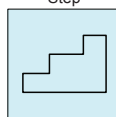
B8



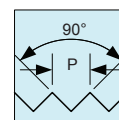
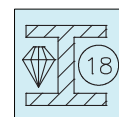
Fori – Holes

F3
Gradino
StepPunta
PointedStandard
Gradino
Step

G1



G2

Dentatura
Serration
1/16"x90°
3/32"x90°Materiale
Material
Acciaio
Steel
18NiCrMo5**B**

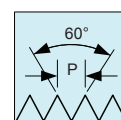
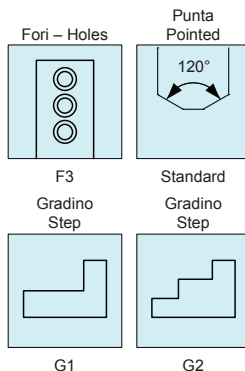
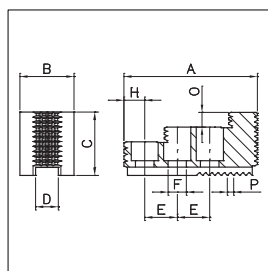
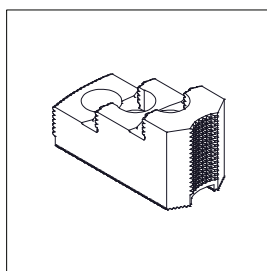
STANDARD

UNIT:mm

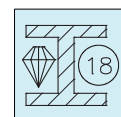
												Step			
Dentatura - Serration 1/16"x90°															
125 - 140	D1001	58	30	34	12	16	9	13	1/16"	120°	8.5	G2			
160 - 175	D1002	65	34	39	14	16.5	11	14	1/16"	120°	10	G2			
210 - 240	D1004	82	40	45	17	23	13	17	1/16"	120°	10.5	G2			
250 - 315	D1006	105	45	56	21	30	17	19	1/16"	120°	13.5	G2			
315 - 350	D1009	123	50	56	21	30	17	19	1/16"	120°	13.5	G2			
400	D1014	120	55	73	21	34	17	22	1/16"	120°	22	G2			
Dentatura - Serration 3/32"x90°															
400 - 630	D1015	140	70	78	25.5	38	21	26	3/32"	120°	19	G2			
630 - 800	D1018	145	70	75	25.5	38	21	23	3/32"	120°	32	G1			



Morsetti reversibili per serie mandrini – Hard reversible top jaws for series chucks								SMW-AUTOBLOK	
Dentatura – Serration 1/16"x90°								Dentatura – Serration 3/32"x90°	
		D 1001	D 1002	D 1004	D 1006	D 1009	D 1014	D 1015	D 1018
AN-D		125 130	160 170	200 220	250 315	315 350		400 630	
AL-D		125 130	160 170	200 220	250 315	315 350		400 630	
AP-D			160 170	200 220	250 315	315 350		400 630	
APL-D				200 220	250 315	315 350		400 630	
NT-D			160 170	200 220	250 315	315 350		400 630	
IN-D								400 630	630 800
IL-D								400 630	630 800
BH-D		125 130	160 170	200 220	250 315	315 350		400 630	630 800
BHD-FC			160 170	200 220	250 315	315 350		400 630	
BB-D		125 130	160 170	200 220	250 315	315 350		400 630	
RC-D			160 170	200 220	250 315	315 350	400		
PB-D		125 130	160 170	200 220	250 315	315 350			
PBI-D			160 170	200 220	250 315	315 350			
HB-D		125 130	160 170	200 220	250 315	315 350			
HYND-S			160 170	200 220	250 315	315 350			
HYD-S								400 630	
HYDL-S								400 630	630 800
HYDLL-S								400 630	
BB-N								400 630	
SP		125 130	160 170	200 220	250 315	315 350			
STP		125 130	160 170	200 220	250 315	315 350			
HFKN-D			160 170	200 220	250 315	315 350		400 630	
GHN		125 130	160 170	200 220	250 315	315 350			
GH-FC			160 170	200 220	250 315	315 350			
ODN		125 130		200 220	250 315	315 350			
ODL				200 220	250 315	315 350			
HDL				200 220	250 315	315 350			
HDN				200 220	250 315	315 350			



Dentatura
Serration
1.5x60°
3.0x60°



Materiale
Material
Acciaio
Steel
18NiCrMo5

B

STANDARD

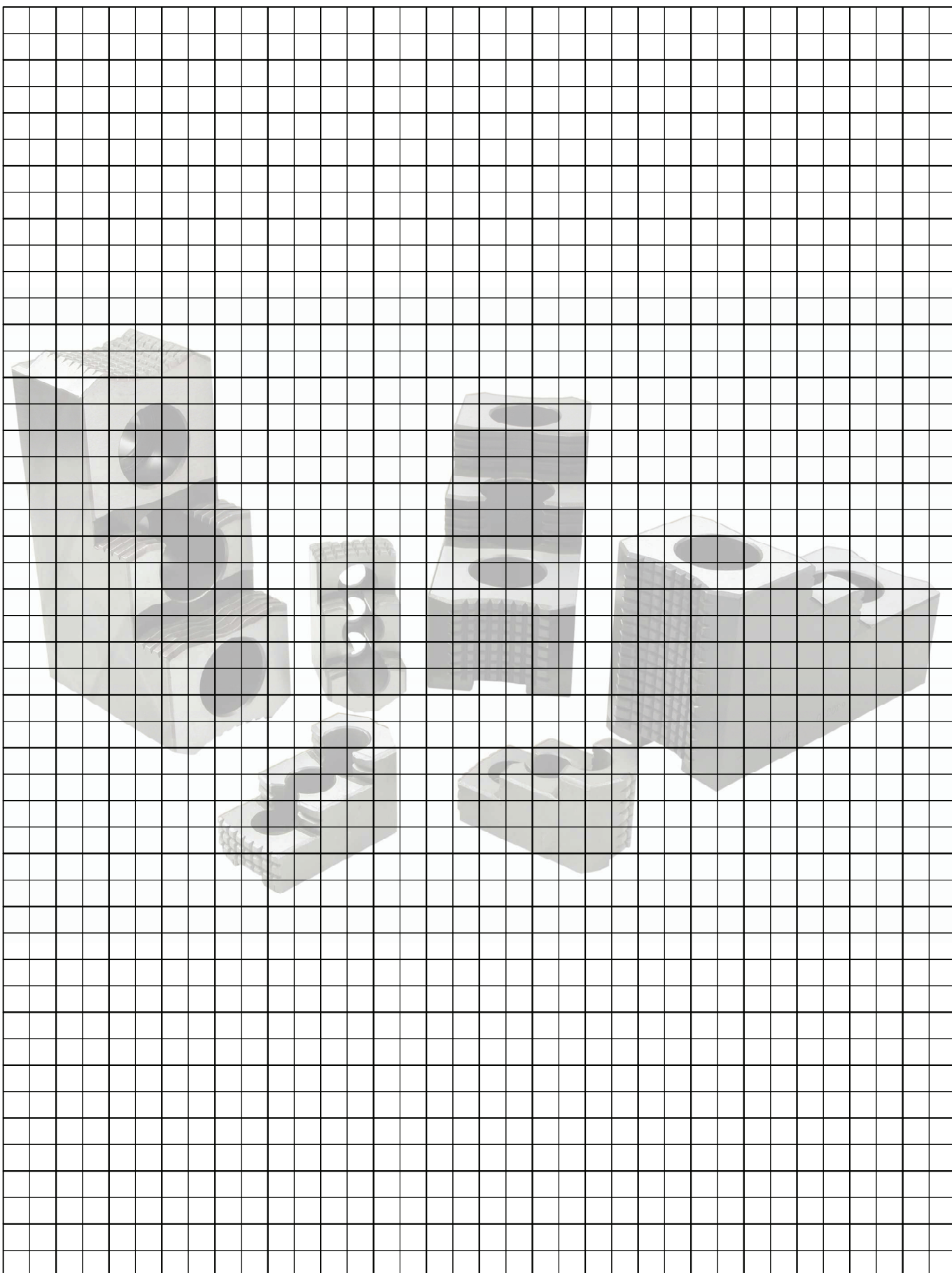
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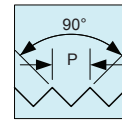
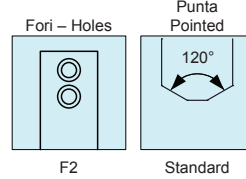
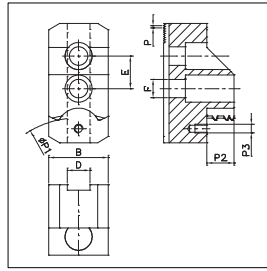
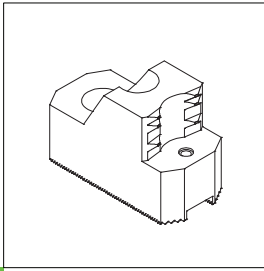
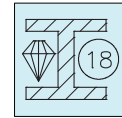
	Code	A	B	C	D	E	F	H	P		O	Step			
Dentatura - Serration P1.5 x 60°															
165	D2013	67	31	35	12	20	11	13	1.5	120°	12	G1			
210	D2014	87	35	51	14	25	13	22	1.5	120°	12	G2			
254	D2020	101	39	54	16	30	13	16	1.5	120°	13	G2			
254 - 304	D2022	106	50	73	18	30	15	23	1.5	120°	18	G2			
254 - 304	D2024	107	50	52	18	30	15	20	1.5	120°	17	G1			
304	D2026	107	50	52	21	30	17	20	1.5	120°	17	G1			
304	D2026G2	107	50	52	21	30	17	20	1.5	120°	17	G2			
381 - 450	D2028	149	60	86	25.5	43	21	34	1.5	120°	20	G2			
381 - 450	D2029	149	60	86	22	43	21	34	1.5	120°	20	G2			
Dentatura - Serration P3.0 x 60°															
304	D2022P3	106	50	73	18	30	15	23	3.0	120°	18	G2			

Morsetti reversibili per serie mandrini – Hard Top Jaws for series chucks										KITAGAWA
Dentatura – Serration 1,5x60°					Dentatura – Serration 3,0x60°					
	D 2013	D 2014	D 2020	D 2022 2024	D 2026	D 2028	D 2029	D 2022		
N	05	08	10	12		15,18				
BB		208	210		212					
BS		308	310							
NL		08	10	12						
B		08 208	10 210	12	212	215	15			
HOH		208	10K	12K			15K			
BL		208	210		212					
Morsetti reversibili per serie mandrini – Hard Top Jaws for series chucks										HOWA
H037M	6			10						
H027M	6			10						
H3KT	6	8	10		12					
H01MA								12		
Morsetti reversibili per serie mandrini – Hard Top Jaws for series chucks										SAMCHULLY
HC	06	08	10	12		15 18	15 18			
HCH	06	08	10	12						
HS	06	08	10		12					



B



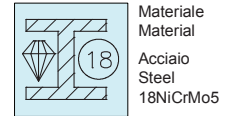
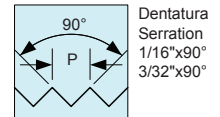
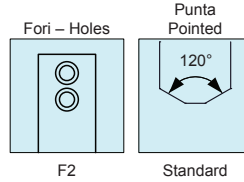
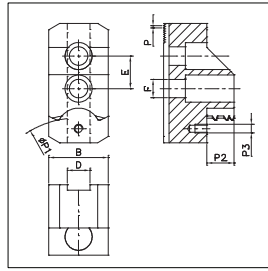
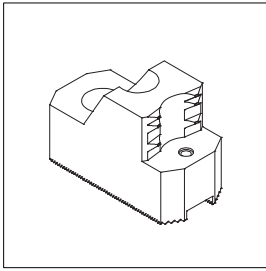
Dentatura
Serration
1/16"x90°
3/32"x90°Materiale
Material
Acciaio
Steel
18NiCrMo5

B

STANDARD

UNIT:mm

Ø165 - Dentatura - Serration 1/16"x90°														
165	CG100202	30÷50	35	50	14	16.5	11	25	M6	1/16"	120°			
165	CG100204	50÷70	35	50	14	16.5	11	25	M6	1/16"	120°			
165	CG100206	70÷90	35	50	14	16.5	11	25	M6	1/16"	120°			
165	CG100208	90÷110	35	50	14	16.5	11	25	M6	1/16"	120°			
165	CG100210	100÷130	38	50	14	16.5	11	25	M6	1/16"	120°			
165	CG100212	130÷160	38	50	14	16.5	11	25	M6	1/16"	120°			
Ø210 - Dentatura - Serration 1/16"x90°														
210	CG100402	30÷60	40	55	17	23	13	25	M6	1/16"	120°			
210	CG100404	60÷90	40	55	17	23	13	25	M6	1/16"	120°			
210	CG100406	90÷120	40	55	17	23	13	25	M6	1/16"	120°			
210	CG100408	120÷150	40	55	17	23	13	25	M6	1/16"	120°			
210	CG100410	150÷180	40	55	17	23	13	25	M6	1/16"	120°			
210	CG100412	180÷210	40	55	17	23	13	25	M6	1/16"	120°			
Ø250 - Dentatura - Serration 1/16"x90°														
250	CG100602	40÷80	50	57	21	30	17	25	M8	1/16"	120°			
250	CG100604	80÷120	50	57	21	30	17	25	M8	1/16"	120°			
250	CG100606	120÷160	50	57	21	30	17	25	M8	1/16"	120°			
250	CG100608	160÷200	50	57	21	30	17	25	M8	1/16"	120°			
250	CG100610	200÷250	50	57	21	30	17	25	M8	1/16"	120°			
Ø315 - Dentatura - Serration 1/16"x90°														
315	CG100802	50÷100	55	65	21	30	17	25	M8	1/16"	120°			
315	CG100804	100÷150	55	65	21	30	17	25	M8	1/16"	120°			
315	CG100806	150÷200	55	65	21	30	17	25	M8	1/16"	120°			
315	CG100808	200÷250	55	65	21	30	17	25	M8	1/16"	120°			
315	CG100810	250÷310	55	65	21	30	17	25	M8	1/16"	120°			
Ø400 - Dentatura - Serration 1/16"x90°														
400	CG101402	100÷160	55	65	21	30	17	25	M8	1/16"	120°			
400	CG101404	160÷220	55	65	21	30	17	25	M8	1/16"	120°			
400	CG101406	220÷280	55	65	21	30	17	25	M8	1/16"	120°			
400	CG101408	280÷340	55	65	21	30	17	25	M8	1/16"	120°			
400	CG101410	340÷400	55	65	21	30	17	25	M8	1/16"	120°			



STANDARD

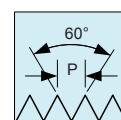
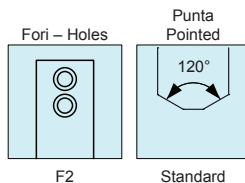
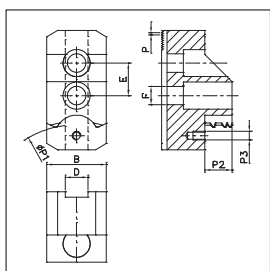
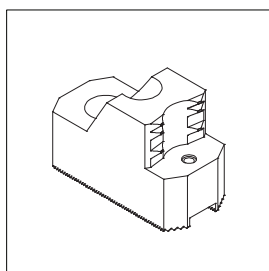
UNIT:mm

	Code													
Ø400 - Dentatura - Serration 3/32"x90°														
400	CG101504	100÷170	65	78	25.5	38	21	35	M10	3/32"	120°			
400	CG101506	170÷240	65	78	25.5	38	21	35	M10	3/32"	120°			
400	CG101508	240÷310	65	78	25.5	38	21	35	M10	3/32"	120°			
400	CG101510	310÷380	65	78	25.5	38	21	35	M10	3/32"	120°			
Ø500 - Dentatura - Serration 3/32"x90°														
500	CG101604	130÷260	65	78	25.5	38	21	35	M10	3/32"	120°			
500	CG101606	215÷345	65	78	25.5	38	21	35	M10	3/32"	120°			
500	CG101608	300÷430	65	78	25.5	38	21	35	M10	3/32"	120°			
500	CG101610	370÷500	65	78	25.5	38	21	35	M10	3/32"	120°			
Ø630 - Dentatura - Serration 3/32"x90°														
630	CG101804	205÷365	65	78	25.5	38	21	35	M10	3/32"	120°			
630	CG101806	305÷465	65	78	25.5	38	21	35	M10	3/32"	120°			
630	CG101808	390÷550	65	78	25.5	38	21	35	M10	3/32"	120°			
630	CG101810	465÷625	65	78	25.5	38	21	35	M10	3/32"	120°			

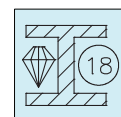
Morsetti Claw Grip per serie mandrini – Claw Grip Jaws for series chucks

SMW-AUTOBLOK

Dentatura – Serration 1/16"x90°						Dentatura – Serration 3/32"x90°			
 	CG 1002	CG 1004	CG 1006	CG 1008	CG 1014	CG 1015	CG 1016	CG 1018	
AL-D	165	210	250	315		400			
AN-D	165	210	250	315		400			
AP-D	170	210		315		400			
APL-D		215 260		315		400			
BB-D	175	210	250	315					
BH-D	165	210	250	315		400	500	630	
BHD-FC	165	210	250	315		400	500	630	
HFKN-D	165	210	260	315		400	500		
NT-D	170	215	260	315		400			
GHD-FC	165	210	250						
GHDN	165	210	250						
RC					400				



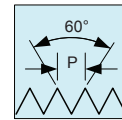
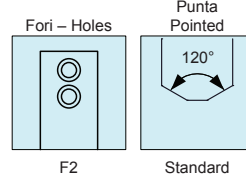
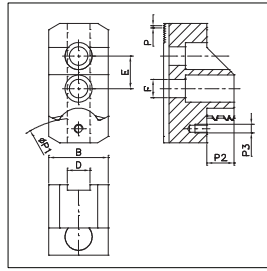
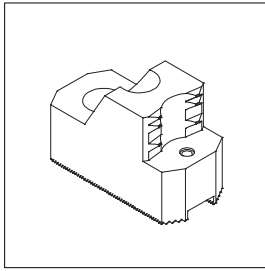
Dentatura
Serration
1.5x60°



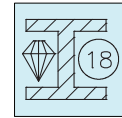
Materiale	Material
Acciaio	Steel
18NiCrMo5	

UNIT:mm

	Code														
Ø165 (6") - Dentatura - Serration 1.5x60°															
165	CG201302	30÷50	35	50	12	20	11	25	M6	1.5	120°				
165	CG201304	50÷70	35	50	12	20	11	25	M6	1.5	120°				
165	CG201306	70÷90	35	50	12	20	11	25	M6	1.5	120°				
165	CG201308	90÷110	35	50	12	20	11	25	M6	1.5	120°				
165	CG201310	110÷130	35	50	12	20	11	25	M6	1.5	120°				
165	CG201312	130÷150	35	50	12	20	11	25	M6	1.5	120°				
Ø210 (8") - Dentatura - Serration 1.5x60°															
210	CG201402	30÷60	40	55	14	25	13	25	M6	1.5	120°				
210	CG201404	60÷90	40	55	14	25	13	25	M6	1.5	120°				
210	CG201406	90÷120	40	55	14	25	13	25	M6	1.5	120°				
210	CG201408	120÷150	40	55	14	25	13	25	M6	1.5	120°				
210	CG201410	150÷180	40	55	14	25	13	25	M6	1.5	120°				
210	CG201412	180÷210	40	55	14	25	13	25	M6	1.5	120°				
Ø254 (10") - Dentatura - Serration 1.5x60°															
254	CG202002	40÷80	45	57	16	30	13	25	M8	1.5	120°				
254	CG202004	80÷120	45	57	16	30	13	25	M8	1.5	120°				
254	CG202006	120÷160	45	57	16	30	13	25	M8	1.5	120°				
254	CG202008	160÷200	45	57	16	30	13	25	M8	1.5	120°				
254	CG202010	200÷250	45	57	16	30	13	25	M8	1.5	120°				
Ø304 (12") - Dentatura - Serration 1.5x60°															
304	CG202402	50÷100	55	65	18	30	15	25	M8	1.5	120°				
304	CG202404	100÷150	55	65	18	30	15	25	M8	1.5	120°				
304	CG202406	150÷200	55	65	18	30	15	25	M8	1.5	120°				
304	CG202408	200÷250	55	65	18	30	15	25	M8	1.5	120°				
304	CG202410	250÷300	55	65	18	30	15	25	M8	1.5	120°				
Ø304 (12") - Dentatura - Serration 1.5x60°															
304	CG202602	50÷100	55	65	21	30	17	25	M8	1.5	120°				
304	CG202604	100÷150	55	65	21	30	17	25	M8	1.5	120°				
304	CG202606	150÷200	55	65	21	30	17	25	M8	1.5	120°				
304	CG202608	200÷250	55	65	21	30	17	25	M8	1.5	120°				
304	CG202610	250÷300	55	65	21	30	17	25	M8	1.5	120°				



Dentatura
Serration
1,5x60°
3.0x60°



Materiale
Material
Acciaio
Steel
18NiCrMo5

UNIT:mm

B

	Code														
Ø381 (15") - Dentatura - Serration 1.5x60°															
381	CG202902	60÷100	65	78	22	43	21	35	M8	1.5	120°				
381	CG202904	100÷160	65	78	22	43	21	35	M10	1.5	120°				
381	CG202906	160÷220	65	78	22	43	21	35	M10	1.5	120°				
381	CG202908	220÷280	65	78	22	43	21	35	M10	1.5	120°				
381	CG202910	280÷340	65	78	22	43	21	35	M10	1.5	120°				
381	CG202912	340÷400	65	78	22	43	21	35	M10	1.5	120°				
Ø454 (18") - Dentatura - Serration 1.5x60°															
454	CG203002	105÷165	65	78	25.5	43	21	35	M8	1.5	120°				
454	CG203004	160÷220	65	78	25.5	43	21	35	M10	1.5	120°				
454	CG203006	220÷280	65	78	25.5	43	21	35	M10	1.5	120°				
454	CG203008	280÷340	65	78	25.5	43	21	35	M10	1.5	120°				
454	CG203010	340÷400	65	78	25.5	43	21	35	M10	1.5	120°				
454	CG203012	400÷450	65	78	25.5	43	21	35	M10	1.5	120°				
Ø610 (24") - Dentatura – Serration 3.0x60°															
610	CG203304	210÷350	65	95	25	60	21	45	M10	3.0	120°				
610	CG203306	340÷480	65	95	25	60	21	45	M10	3.0	120°				
610	CG203308	465÷605	65	95	25	60	21	45	M10	3.0	120°				

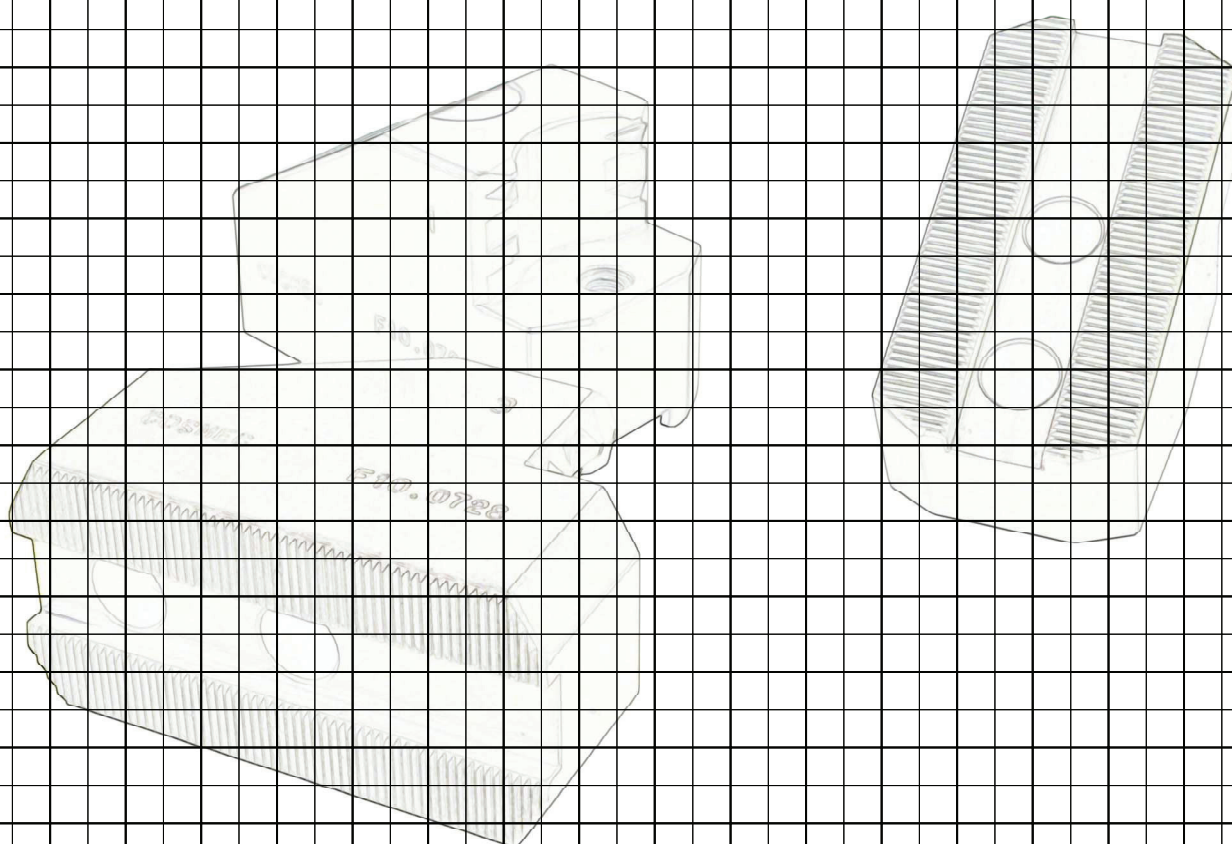
Morsetti Claw Grip per serie mandrini – Claw Grip Jaws for series chucks

KITAGAWA

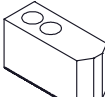
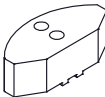
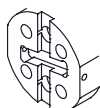
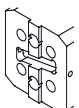
Dentatura – Serration 1.5x60°								Dentatura – Serration 3.0x60°	
 	CG 2013	CG 2014	CG 2020	CG 2024	CG 2026	CG 2029	CG 2030	CG 2030	
B	06 07	08	10	12		15		24	
B200	206	208	210		212	215			
BB200	206	208	210		212				
BL200	206	208	210		212				
BS300	306	308	310						
HOH	06	08	10	12		15			
ML	06	08							
N	06	08	10	12		15	18	24	
NL	06	08	10	12					



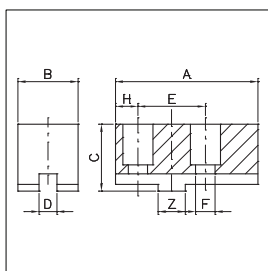
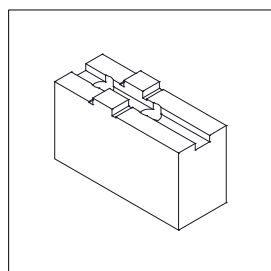
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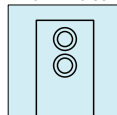
SEZIONE - Section C
MORSETTI TENERI CON INCASTRO A CROCE – Soft top jaws tongue & groove

 MORSETTI TORNIBILI Soft top jaws		   																			
 MANDRINI CHUCKS	Tipo Type																				
SMW – AUTOBLOK	Standard	C2																			
BERG	Standard	C8																			
FIAL	Standard	C9						C9													
FORKARDT	Standard	C10																			
MARIO PINTO	Standard	C12					C12														
ROTOMORS	Standard					C14		C14													
TOS	Standard	C15				C15															
OMAP	Standard					C16															
ROHM	Standard	C10.1																			
BISON	Standard	C10.2																			
TDEG	Standard	C10.2																			
 MORSETTI AVVOLGENTI Soft full grip jaws		   																			
 MANDRINI CHUCKS	Tipo Type																				
SMW – AUTOBLOK	Standard	C17																			
BERG	Standard	C18																			
FORKARDT	Standard	C19																			
ROHM	Standard	C20																			
SCHUNK																					
MORSETTI TORNIBILI Soft top jaws TS																					
 MANDRINI CHUCKS	Tipo Type																				
SMW – AUTOBLOK	Standard	C4	C4	C6	C6																

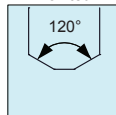
C



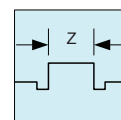
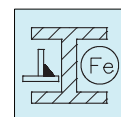
Fori – Holes



F2

 Punta
Pointed


Standard


 Incastro a
croce
Tongue &
Groove

 Materiale
Material
Acciaio
Steel
Fe510D

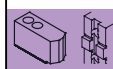
STANDARD

UNIT:mm

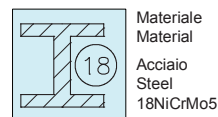
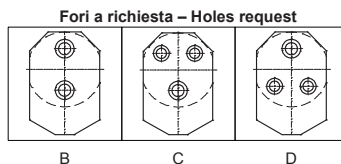
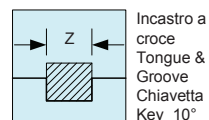
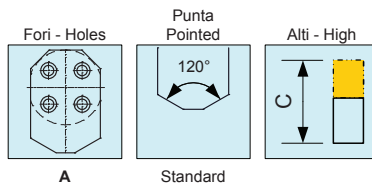
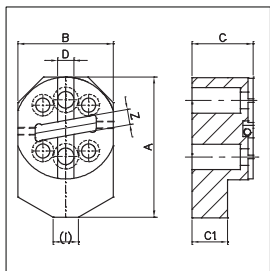
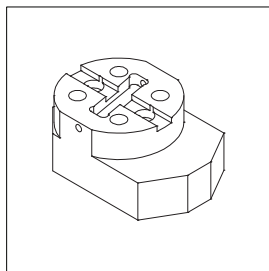
Code															
Incastro a croce – Tongue & groove															
140	C113202	70	20	40	8	32	9	18	18	180°					
160 - 170	C113204	85	20	40	8	32	9	18	18	180°					
200 - 225	C113206	105	25	50	10	40	9	25	20	180°					
260 - 340	C113208	125	30	60	12	40	13	25	20	180°					
400	C113210	145	35	60	12	54	13	31	26	180°					
500	C113212	180	50	80	18	60	17	35	30	180°					
Incastro a croce – Tongue & groove ISO 3442															
160 - 170	C113205	80	30	40	7.94	38.1	11	11	12.68	180°					
200 - 215	C113207	105	40	50	7.94	44.4	13	13	12.68	180°					
250 - 260	C113209	125	50	50	12.7	54	17	18	19.03	180°					
300 - 315	C113214	140	50	60	12.7	63.5	17	18	19.03	180°					
400	C113216	165	60	60	12.7	76.2	21	22	19.03	180°					
500 - 800	C113218	165	80	80	12.7	76.2	21	22	19.03	180°					



Morsetti Tornibili per serie mandrini – Soft Top Jaws for series chucks													SMW-AUTOBLOK
Incastro a croce – Tongue & groove							Incastro a croce – Tongue & groove ISO 3442						
 	11 3202	11 3204	11 3206	11 3208	11 3210	11 3212	11 3205	11 3207	11 3209	11 3214	11 3216	11 3218	
AN-C; AL-C							165	210	250	315	400		
AP-C							165	210	250	315	400		
APL-C								210	250	315	400		
HB-C							165	210	250	315			
IN-C												500;63 800	
IL-C												500;63 800	
NT-C							165	210	250	315	400		
PB-C							165	210	250	315			
PBI-C							165	210	250	315			
RAN-C							160	200	250	315	400		
KNCS-N	140	170	210	260	400	500							
KNCS-NB			210	260	325 340	500							
HG-N		160	200	260	400	500							
HG-F		160	210	260	315	500							



C

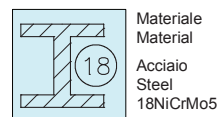
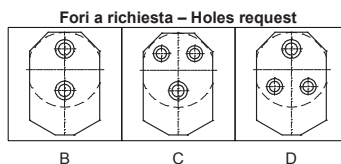
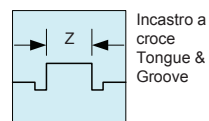
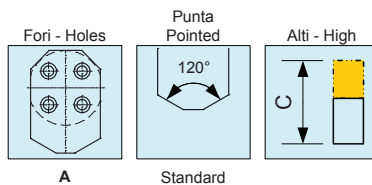
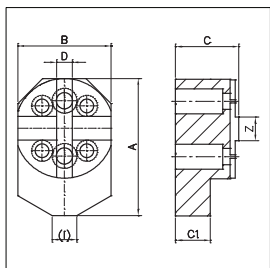
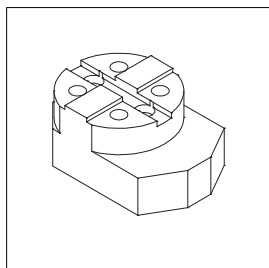


STANDARD - EXTRA ALTI HIGH

UNIT:mm

				Code	Fori Holes	A 	B 	C 	C1 	D 	Z 	(I) 						
Incastro a croce per chiavetta – Tongue & groove for key																		
170	TSC01A	A	78	57	48	33	7.94	9	10									
170	TSC01C68A	A	78	57	68	53	7.94	9	10									
210	TSC02A	A	90	67	48	28	7.94	9	20									
210	TSC02C68A	A	90	67	68	48	7.94	9	20									
250 - 315	TSC03A	A	110	75	48	28	12.7	12	20									
250 - 315	TSC03C68A	A	110	75	68	48	12.7	12	20									

Questi sono morsetti ad incastro a croce che permettono la regolazione fine della concentricità del pezzo tramite la chiavetta inclinata di 10°
 These are tongue and groove top jaws that allow the fine radial adjustment of the component's concentricity by means of the inclined cross key



STANDARD - EXTRA ALTI HIGH

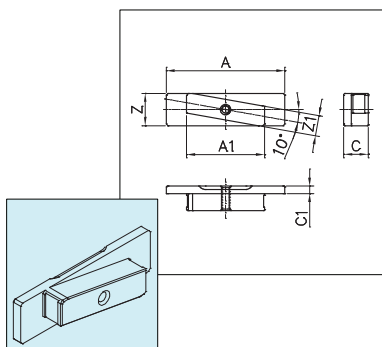
UNIT:mm

	Code	Fori Holes	A 	B 	C 	C1 	D 	Z 	(l) 						 Kg
Incastro a croce – Tongue & groove ISO 3442															
170	TSN01A	A	78	57	48	33	7.94	12.68	10						
170	TSN01C68A	A	78	57	68	53	7.94	12.68	10						
210	TSN02A	A	90	67	48	28	7.94	12.68	20						
210	TSN02C68A	A	90	67	68	48	7.94	12.68	20						
250 - 315	TSN03A	A	110	75	48	28	12.7	19.03	20						
250 - 315	TSN03C68A	A	110	75	68	48	12.7	19.03	20						

Questi sono morsetti ad incastro a croce che non permettono la regolazione fine della concentricità del pezzo.
These are tongue and groove top jaws that don't allow the fine radial adjustment of the component's concentricity



UNIT:mm

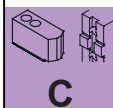


	Code	A	A1	C	C1	Z (h7)	Z1 (h7)		Kg
Chiavetta inclinata – Inclined keys 10°									
170	C633	38	24	11	3	12.68	9		
210	C133	46	32	11	3	12.68	9		
250 - 315	C533	56	38	11	3	19.03	12		
400	C033	70	46	14.5	4.5	19.03	12		

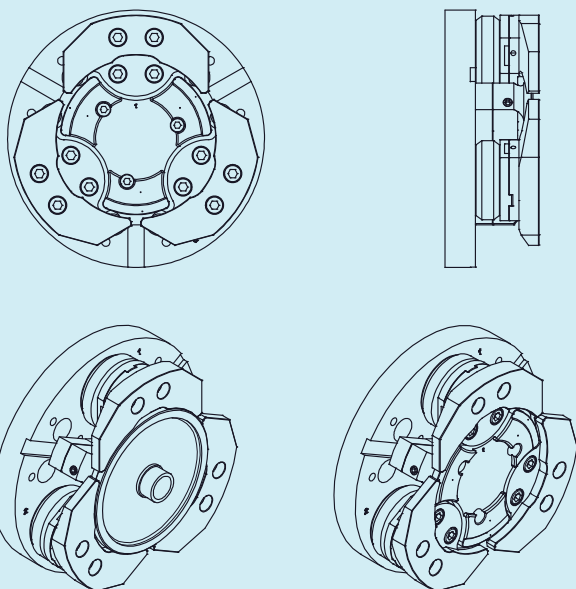
Morsetti Tornibili TS per serie mandrini – Soft Top Jaws TS for series chucks

SMW-AUTOBLOK

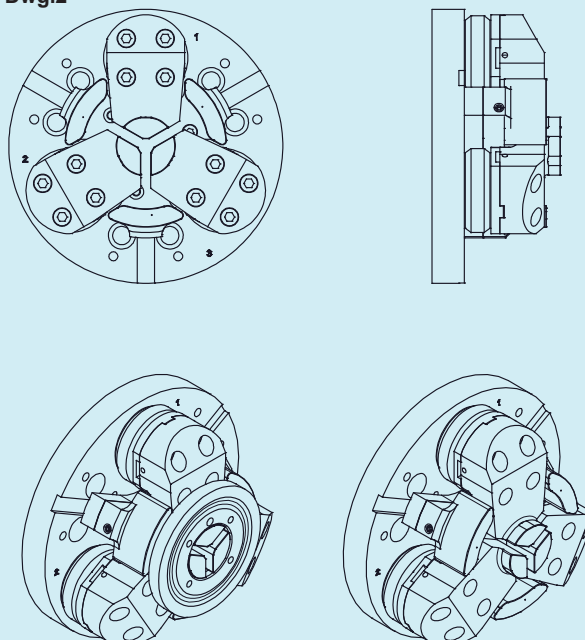
Incastro a croce per chiavetta – Tongue & groove for key				Incastro a croce – Tongue & groove ISO 3442			
	TSC 01	TSC 02	TSC 03		TSN 01	TSN 02	TSN 03
TSF-C	170	210	250 315		170	210	250 315
TSR-C	170	210	250 315		170	210	250 315
TSF-CP	170	210	250 315		170	210	250 315
TSR-CP	170	210	250 315		170	210	250 315

ESEMPI DI APPLICAZIONI
Clamping examples

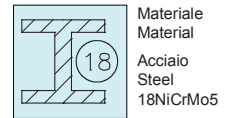
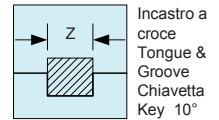
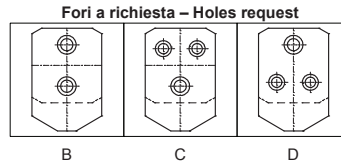
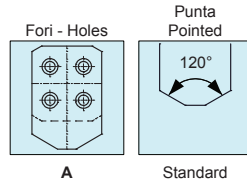
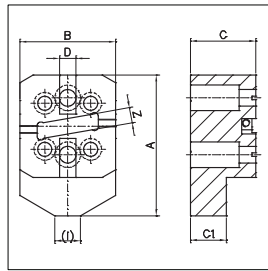
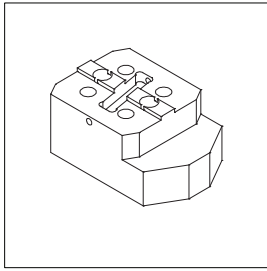
Dwg.1



Dwg.2



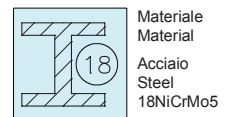
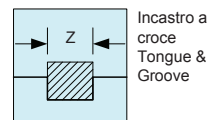
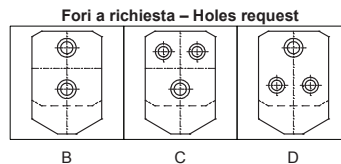
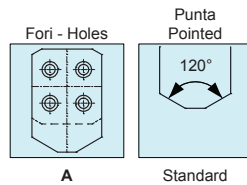
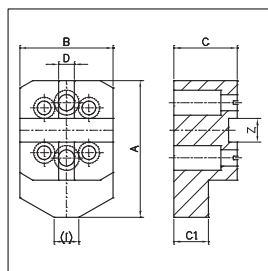
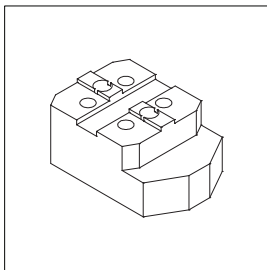
A RICHIESTA SI REALIZZANO ELEMENTI DI APPOGGIO CON CONTROLLO P.E.L. DI POSIZIONAMENTO ASSIALE DEI PEZZI
A REQUEST IS REALIZED BY THE ELEMENTS OF SUPPORT CONTROL P.E.L. AXIAL POSITION OF THE PIECES



UNIT:mm

	Code	Fori Holes	A 	B 	C 	C1 	D 	Z 	(l) 						Kg
Incastro a croce per chiavetta – Tongue & groove for key															
170	TSP01A	A	78	57	58	43	7.94	9	10						
210	TSP02A	A	96	67	68	53	7.94	9	10						
250 - 315	TSP03A	A	115	75	68	53	12.7	12	20						

Questi sono morsetti ad incastro a croce che permettono la regolazione fine della concentricità del pezzo tramite la chiavetta inclinata di 10°
These are tongue and groove top jaws that allow the fine radial adjustment of the component's concentricity by means of the inclined cross key



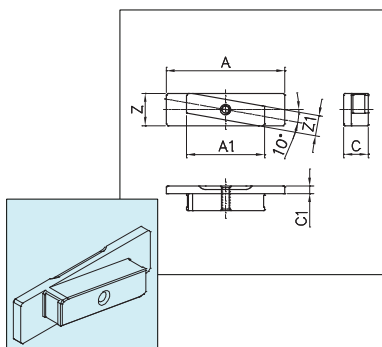
UNIT:mm

	Code	Fori Holes	A 	B 	C 	C1 	D 	Z 	(I) 						Kg
Incastro a croce – Tongue & groove															
170	TSQ01A	A	78	57	58	43	7.94	12.68	10						
210	TSQ02A	A	96	67	68	53	7.94	12.68	10						
250 - 315	TSQ03A	A	115	75	68	53	12.7	19.03	20						

Questi sono morsetti ad incastro a croce che non permettono la regolazione fine della concentricità del pezzo.
These are tongue and groove top jaws that don't allow the fine radial adjustment of the component's concentricity



UNIT:mm

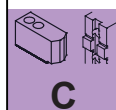


	Code	A	A1	C	C1	Z (h7)	Z1 (h7)		Kg
Chiavetta inclinata – Cross Keys 10°									
170	C633	38	24	11	3	12.68	9		
210	C133	46	32	11	3	12.68	9		
250 - 315	C533	56	38	11	3	19.03	12		
400	C033	70	46	14.5	4.5	19.03	12		

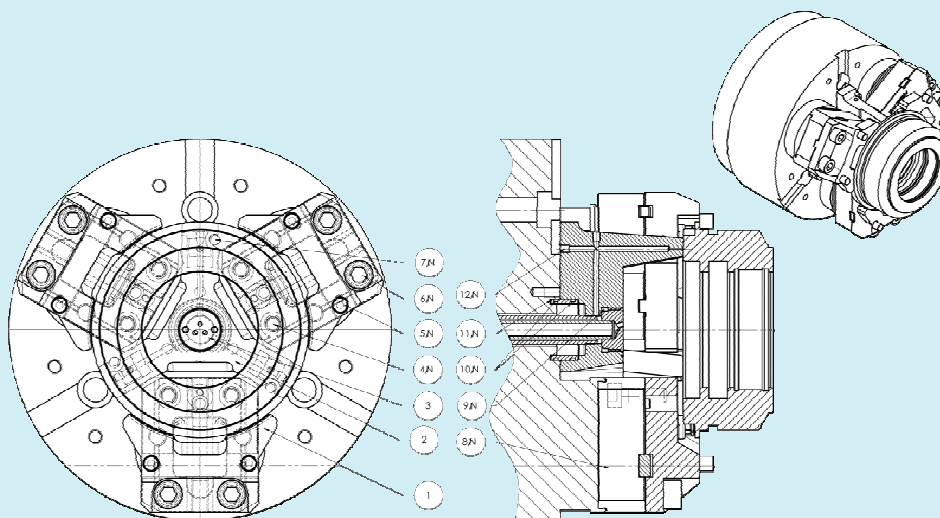
Morsetti Tornibili TS per serie mandrini – Soft Top Jaws TS for series chucks

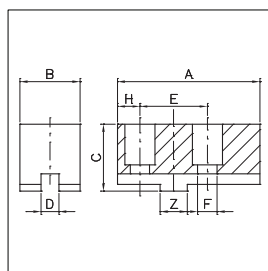
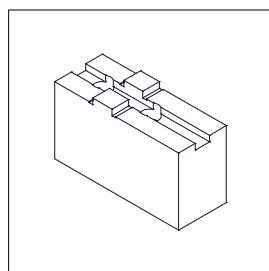
SMW-AUTOBLOK

Incastro a croce per chiavetta – Tongue & groove for key				Incastro a croce – Tongue & groove			
	TSP 01	TSP 02	TSP 03		TSQ 01	TSQ 02	TSQ 03
TSF-RM	170	210	250 315		170	210	250 315
TSR-RM	170	210	250 315		170	210	250 315

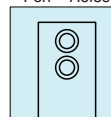

ESEMPI DI APPLICAZIONI
Clamping examples

Dwg.1

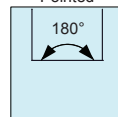

 A RICHIESTA SI REALIZZANO ELEMENTI DI APPOGGIO CON CONTROLLO P.E.L. DI POSIZIONAMENTO ASSIALE DEI PEZZI
 A REQUEST IS REALIZED BY THE ELEMENTS OF SUPPORT CONTROL P.E.L. AXIAL POSITION OF THE PIECES



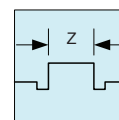
Fori – Holes



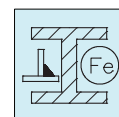
F2

Punta
Pointed

Piana - Flat



Incastro a
croce
Tongue &
Groove



Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD

UNIT:mm

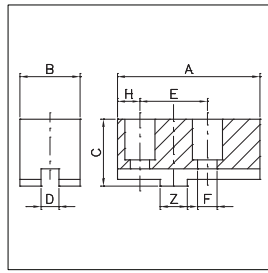
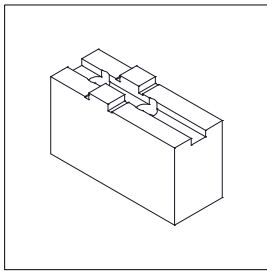
	Code															
Incastro a croce – Tongue & groove																
140	C113202	70	20	40	8	32	9	18	18	180°						
160	C113204	85	20	40	8	32	9	18	18	180°						
200	C113206	105	25	50	10	40	9	25	20	180°						
250 - 315	C113208	125	30	60	12	40	13	25	20	180°						
400	C113210	145	35	60	12	54	13	30	26	180°						
500	C113212	180	50	80	18	60	17	35	30	180°						

Morsetti Tornibili per serie mandrini – Soft Top Jaws for series chucks

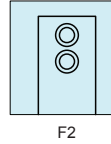
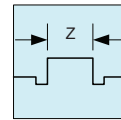
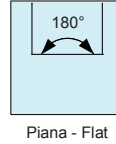
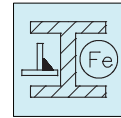
BERG

Incastro a croce – Tongue & groove

		11	11	11	11	11	11
		3202	3204	3206	3208	3210	3212
KHNC		140	160 185	200	250 315	400	500



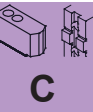
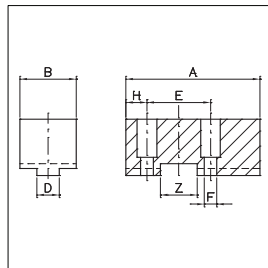
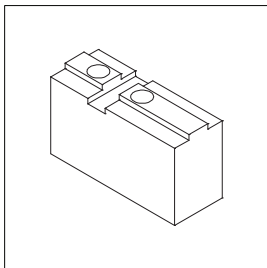
Fori – Holes


 Punta
Pointed

 Incastro a
croce
Tongue &
Groove

 Materiale
Material
Acciaio
Steel
Fe510D

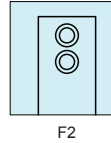
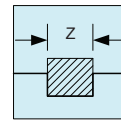
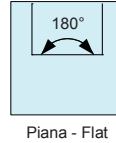
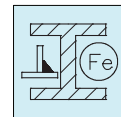
STANDARD

UNIT:mm

		A	B	C	D	E	F	H	Z						Kg
	Code														
Incastro a croce – Tongue & groove ISO 3442															
125	C113704	65	25	40	7.94	32	9	16	12.68	180°					
160	C113707	75	30	45	7.94	38.1	11	19.5	12.68	180°					
200	C113709	90	30	45	7.94	44.4	11	22.8	12.68	180°					
250	C113710	105	35	50	12.7	54	13	26	19.03	180°					
315	C113712	120	40	60	12.7	63.5	13	30.8	19.03	180°					
400 - 500	C113714	140	50	70	12.7	76.2	17	35	19.03	180°					
630 - 800	C113716	160	50	80	12.7	76.2	21	35	19.03	180°					


C


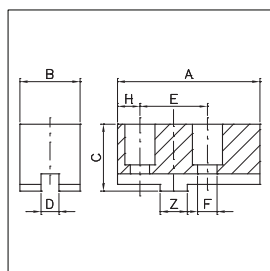
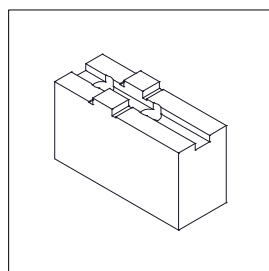
Fori – Holes


 Punta
Pointed

 Incastro a
croce
Tongue &
Groove

 Materiale
Material
Acciaio
Steel
Fe510D

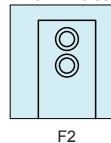
STANDARD

UNIT:mm

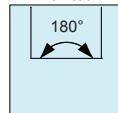
		A	B	C	D	E	F	H	Z						Kg
	Code														
Incastro a croce – Tongue & groove															
85	C113802	50	15	25	8	19	5		12	180°					
105	C113804	55	15	25	8	19	6		12	180°					
130	C113806	65	20	30	10	22.25	7		14	180°					
160	C113808	75	20	35	10	33.5	9	20	20	180°					
190 - 200	C113810	85	25	40	10	33.5	9	20	20	180°					
230	C113812	100	25	40	10	39.5	9		20	180°					
250 - 270	C113814F9	110	30	50	12	45.5	9	27	22	180°					
250 - 270	C113814	110	30	50	12	45.5	11	27	22	180°					
310 - 350	C113816	130	30	60	14	61	13	34	28	180°					
400	C113818	180	40	70	16	91	13		32	180°					



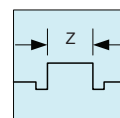
Fori – Holes



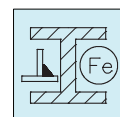
F2

Punta
Pointed

Piana - Flat



Incastro a
croce
Tongue &
Groove



Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD

UNIT:mm

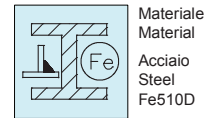
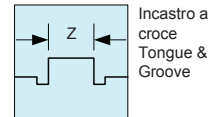
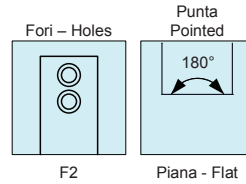
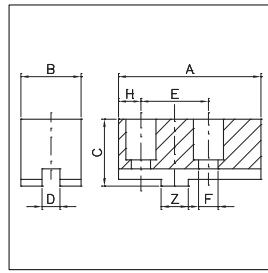
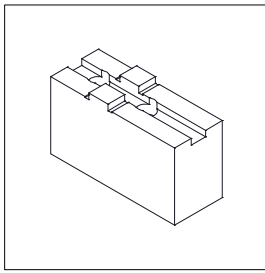
																
Incastro a croce – Tongue & groove																
140	C113202	70	20	40	8	32	9	18	18	180°						
160	C113204	85	20	40	8	32	9	18	18	180°						
200	C113206	105	25	50	10	40	9	25	20	180°						
250 - 315	C113208	125	30	60	12	40	13	25	20	180°						
400	C113210	145	35	60	12	54	13	30	26	180°						
500	C113212	180	50	80	18	60	17	35	30	180°						

Morsetti Tornibili per serie mandrini – Soft Top Jaws for series chucks

FORKARDT

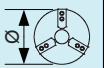
Incastro a croce – Tongue & groove

 	11 3202	11 3204	11 3206	11 3208	11 3210	11 3212
F+	160	160	200	250	315	400 500
F	160	160	200	250	315	400 500
KTNC	160	160	200	250 315	360 400	500
KTNCV	160	160 175	200	250 315	400	500
FNC		160 175	200	250 315	400	500

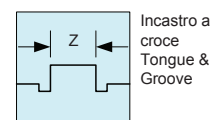
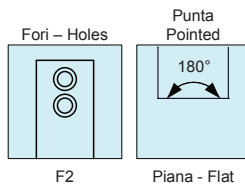
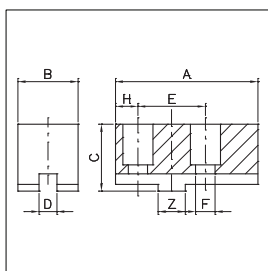
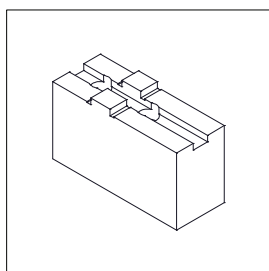


STANDARD

UNIT:mm

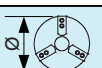
	Code														
Incastro a croce – Tongue & groove															
140	C113202	70	20	40	8	32	9	18	18	180°					
160	C113204	85	20	40	8	32	9	18	18	180°					
200	C113206	105	25	50	10	40	9	25	20	180°					
250 - 315	C113208	125	30	60	12	40	13	25	20	180°					
400	C113210	145	35	60	12	54	13	30	26	180°					
500	C113212	180	50	80	18	60	17	35	30	180°					
Incastro a croce – Tongue & groove ISO 3442															
125	C113704	65	25	40	7.94	32	9	16	12.68	180°					
160	C113706	75	30	45	7.94	38.1	9	19.5	12.68	180°					
160	C113707	75	30	45	7.94	38.1	11	19.5	12.68	180°					
200	C113708	90	30	45	7.94	44.4	9	22.8	12.68	180°					
200	C113709	90	30	45	7.94	44.4	11	22.8	12.68	180°					
250	C113710	105	35	50	12.7	54	13	26	19.03	180°					
315	C113712	120	40	60	12.7	63.5	13	30.8	19.03	180°					
350 - 400	C113714	140	50	70	12.7	76.2	17	35	19.03	180°					
500 - 630	C113716	160	50	80	12.7	76.2	21	35	19.03	180°					

Morsetti Tornibili per serie mandrini – Soft Top Jaws for series chucks															ROHM
Incastro a croce – Tongue & groove							Incastro a croce – Tongue & groove ISO 3442								
 	11 3202	11 3204	11 3206	11 3208	11 3210	11 3212	 	11 3704	11 3706 3707	11 3708 3709	11 3710	11 3712	11 3714	11 3716	
DURO	160	160			315	400,500 630	ZGF	125	160	200	250	315	350		
DURO-NC	140 160	140 175	200 225	250	315	400,500 630	ZGU	125	140 160	200	250	315	350 400	500,630,700	
DURO-NCE			200	250	315 400	500	ZSU	125	160 160	200	250	315	350 400	500,630,700	
							ZGD			200 230	250 270	315	400	500	
							USU			200	260	310 350	400 450	500,560,600 630,710	
							UGU			200	260	310 350	400 450	500,560,600 630,710	



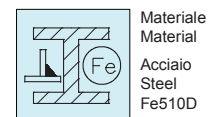
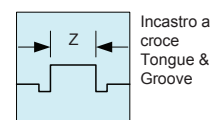
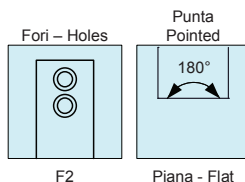
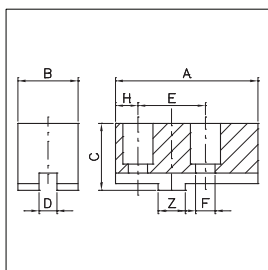
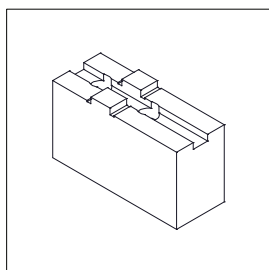
STANDARD

UNIT:mm

			Code														
Incastro a croce – Tongue & groove ISO 3442																	
100	C113702	55	25	30	7.94	24	7	15	9.5	180°							
125	C113704	65	25	40	7.94	32	9	16	12.68	180°							
160	C113706	75	30	45	7.94	38.1	9	19.5	12.68	180°							
160	C113707	75	30	45	7.94	38.1	11	19.5	12.68	180°							
200	C113708	90	30	45	7.94	44.4	9	22.8	12.68	180°							
200	C113709	90	30	45	7.94	44.4	11	22.8	12.68	180°							
250	C113710	105	35	50	12.7	54	13	26	19.03	180°							
315	C113712	120	40	60	12.7	63.5	13	30.8	19.03	180°							
400 - 500	C113714	140	50	70	12.7	76.2	17	35	19.03	180°							
630 - 800	C113716	160	50	80	12.7	76.2	21	35	19.03	180°							



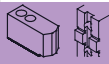
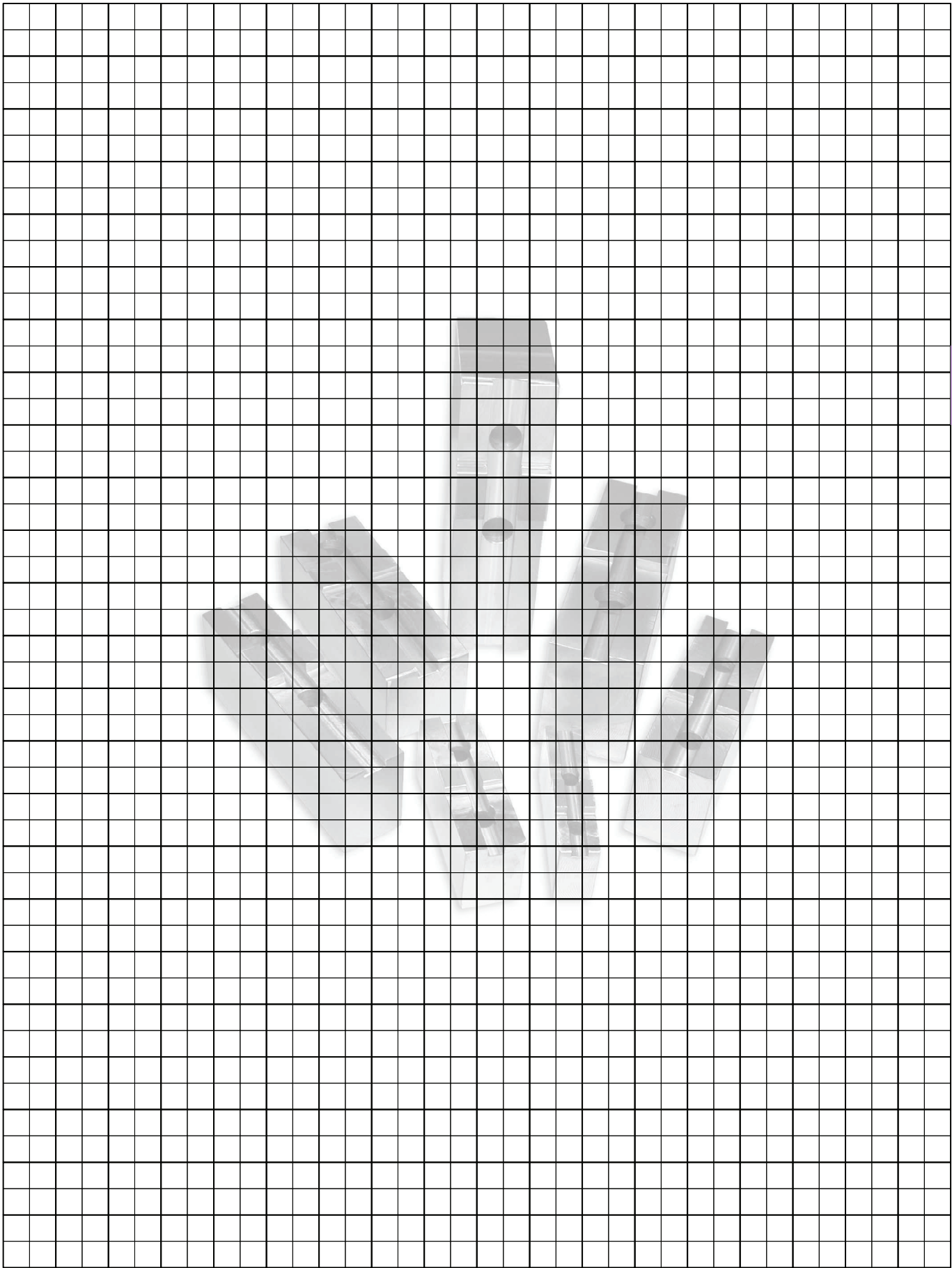
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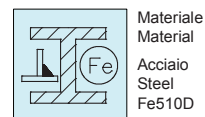
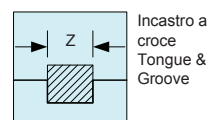
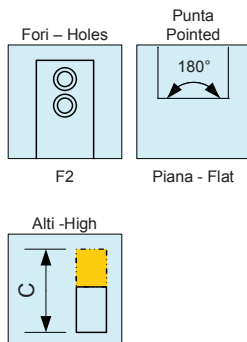
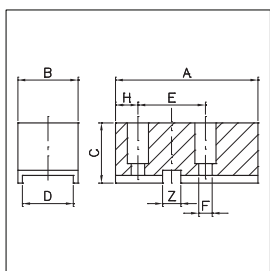
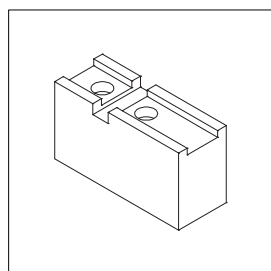
STANDARD

UNIT:mm

			Code														
Incastro a croce – Tongue & groove ISO 3442																	
160	C113707	75	30	45	7.94	38.1	11	19.5	12.68	180°							
200	C113709	90	30	45	7.94	44.4	11	22.8	12.68	180°							
250	C113710	105	35	50	12.7	54	13	26	19.03	180°							
315	C113712	120	40	60	12.7	63.5	13	30.8	19.03	180°							
400 - 500	C113714	140	50	70	12.7	76.2	17	35	19.03	180°							
630 - 800	C113716	160	50	80	12.7	76.2	21	35	19.03	180°							



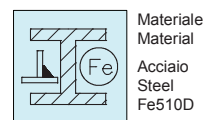
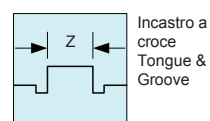
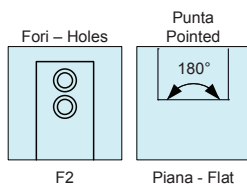
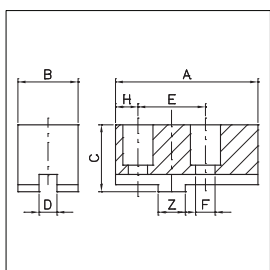
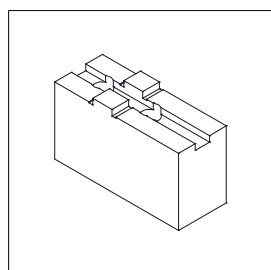
C



STANDARD

UNIT:mm

			Code	A 	B 	C 	D 	E 	F 	H 	Z 						
Incastro a croce – Tongue & groove																	
105	C112902	55	20	20	14	25	7	8.5	9	180°							
130	C112904	70	20	25	16	36	7	8	9	180°							
160	C112906	80	25	35	18	40	7	10	9	180°							
180 - 200	C112910	90	30	40	20	53	9	14	10	180°							
180 - 200	C112910C050	90	30	50	20	53	9	14	10	180°							
180 - 200	C112910C060	90	30	50	20	53	9	14	10	180°							
230 - 250	C112912	110	30	40	22	62	9	16.5	11	180°							
230 - 250	C112912C050	110	30	50	22	62	9	16.5	11	180°							
230 - 250	C112912C060	110	30	60	22	62	9	16.5	11	180°							
270	C112914	125	30	50	25	68	11	17	12	180°							
270	C112914C060	125	30	60	25	68	11	17	12	180°							
270 - 315	C112916	135	35	60	28	76	13	20	12	180°							
350 - 380	C112918	160	40	60	30	92	13	24	12	180°							
430	C112920	190	50	70	36	120	13	25	12	180°							
510	C112922	220	50	80	40	120	13	30	12	180°							
600	C112924	250	60	100	46	130	13	35	12	180°							



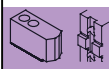
STANDARD

UNIT:mm

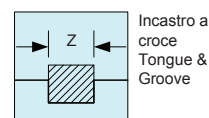
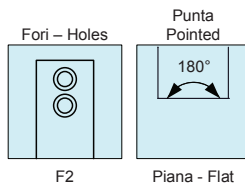
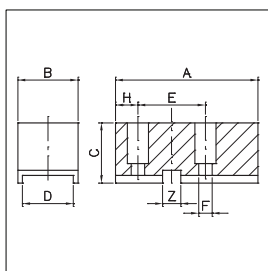
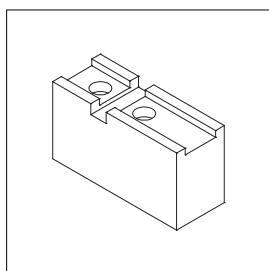
	Code	A	B	C	D	E	F	H	Z							Kg
Incastro a croce – Tongue & groove ISO 3442																
400 - 450	C113714	140	50	70	12.7	76.2	17	35	19.03	180°						
500 - 800	C113716	160	50	80	12.7	76.2	21	35	19.03	180°						



Morsetti Tornibili per serie mandrini – Soft Top Jaws for series chucks										MARIO PINTO
Incastro a croce – Tongue & groove							Tongue & groove ISO 3442			
 	11 2902	11 2904	11 2906	11 2910	11 2912	11 2916	11 3714	11 3716		
DG				180 200	230 250	270 315	400 450	400,630 800		
DGF				180 200	230 250	270 315	400 450	400,630 800		
DGB				180 200	230 250	270 315	400 450	400,630 800		
DGBF				180 200	230 250	270 315	400 450	400,630 800		

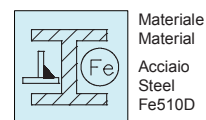
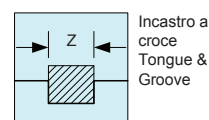
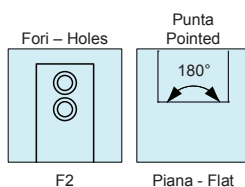
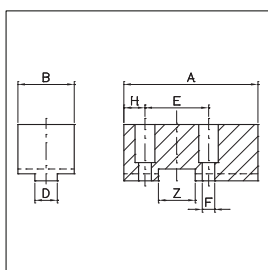
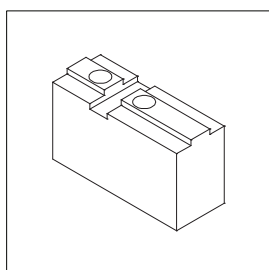


C



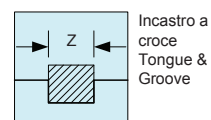
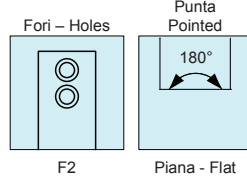
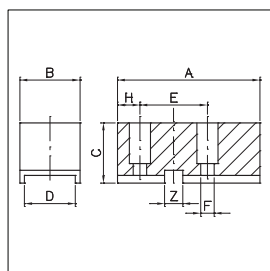
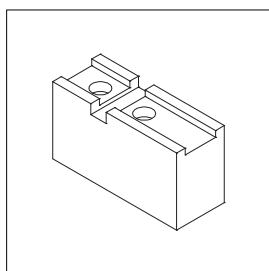
UNIT:mm

			Code														
Incastro a croce – Tongue & groove																	
160	C112302	70	35	35	27	36	9		12	180°							
180	C112304	75	35	35	27	36	9		12	180°							
200	C112202	100	35	35	30	50	11		12	180°							
200	C112306	80	40	40	32	40	11		12	180°							
220	C112308	85	40	40	35	40	11		12	180°							
230	C112204	110	35	35	30	50	11		12	180°							
250	C112310	100	55	55	45	54	13		12	180°							
270	C112206	120	35	35	30	70	11	17.5	12	180°							
300 - 400	C112312	130	55	55	45	65	15		12	180°							
310	C112208	140	50	50	40	70	13	24.5	12	180°							
400	C112212	170	60	60	40	90	17		12	180°							



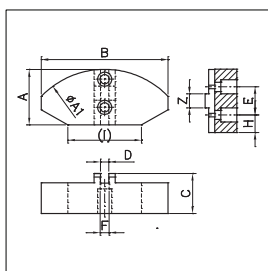
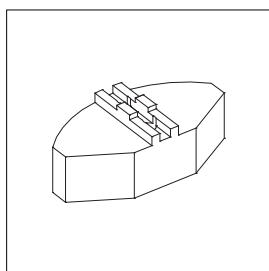
UNIT:mm

	Code	A	B	C	D	E	F	H	Z						
Incastro a croce – Tongue & groove															
160	C112602	70	35	35	10.5	36	9		18	180°					
180 - 200	C112604	80	35	35	10.5	36	9		18	180°					
220	C112606	85	40	40	13	36	9		18	180°					
250	C112608	100	55	55	16	40	13		18	180°					
300 - 400	C112610	120	55	55	16	54	15	16	26	180°					

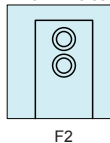
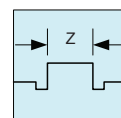
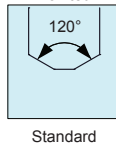
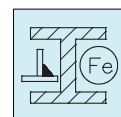


UNIT:mm

	Code														
Incastro a croce – Tongue & groove															
100	C113102	50	20	30	12	20	7		6	180°					
125	C113104	65	25	30	16	20	9	16	6	180°					
130	C113002	60	20	30	15	20	7		6	180°					
160	C112502	70	30	40	22	26	9		10	180°					
160	C113004	70	20	30	15	20	9		6	180°					
160	C113106	70	25	30	16	20	9	16	6	180°					
175	C113006	80	30	40	20	26	9		10	180°					
175 - 200	C113108	90	30	45	19	26	9	19	8	180°					
175 - 225	C112506	95	30	50	22	26	9	15	10	180°					
200 - 225	C113008	95	30	50	20	26	9	21	10	180°					
225 - 250	C113110	110	30	50	22	32	11	22	10	180°					
225 - 250	C113110Z12	110	30	50	22	32	11	22	12	180°					
250 - 275	C112512	115	35	50	26	30	11	25	10	180°					
250 - 275	C113014	115	35	50	25	32	11	25	12	180°					
275	C113111	130	35	60	25	32	13	25	12	180°					
275 - 315	C113112	130	35	60	27	38	13	25	12	180°					
300	C112514	125	35	60	26	36	11	25	12	180°					
300	C113016	130	35	50	25	32	11	25	12	180°					
250 - 400	C113114	160	40	70	32	48	17	30	16	180°					
375	C112516	130	40	70	32	42	13		16	180°					
375	C113018	130	40	70	32	42	13	30	16	180°					
450	C113116	200	50	80	38	60	17	35	19	180°					



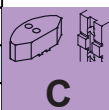
Fori – Holes


 Punta
Pointed

 Incastro a
croce
Tongue &
Groove

 Materiale
Material
Acciaio
Steel
Fe510D

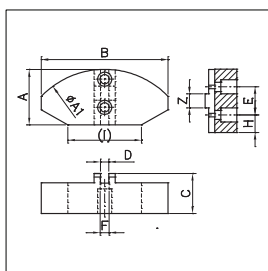
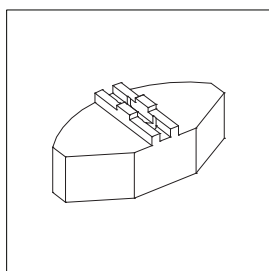
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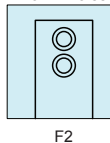
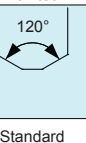
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Incastro a croce – Tongue & groove																
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200	FGC113206	70	140	60	10	40	9	17	20	65	200					
250	FGC113208	90	180	60	12	40	13	34	20	70	250					
315	FGC113210	110	240	75	12	54	13	40	26	120	320					
400	FGC113212	160	330	85	18	60	17	80	30	150	440					


C
Morsetti Tornibili Avvolgenti per serie mandrini – Soft Full Top Jaws for series chucks
SMW-AUTOBLOK
Incastro a croce – Tongue & groove

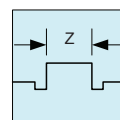
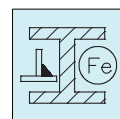
	FG 11 3204	FG 11 3206	FG 11 3208	FG 11 3210	FG 11 3212	
HG	160	200	250 315	400	500 630	
HG-F	160	210	260	315	500	
HG-N	160	210	260	400	500 630	
KNCS	160 175	200	250 260	400	500 630	
KNCS-N	170	210 225	260 275	400	500 630	
KNCS-NB		210 225	260 275	400	500 630	



Fori – Holes


 Punta
Pointed


Standard


 Incastro a
croce
Tongue &
Groove

 Materiale
Material
Acciaio
Steel
Fe510D

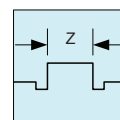
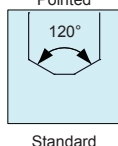
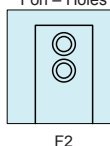
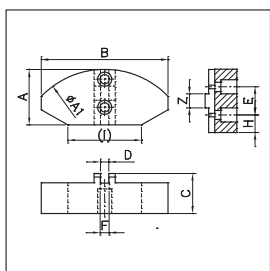
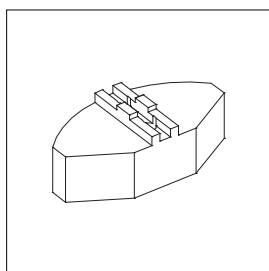
STANDARD

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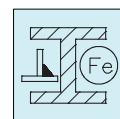
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Incastro a croce – Tongue & groove																	
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	200	FGC113206	70	140	60	10	40	9	17	20	65	200					
	250	FGC113208	90	180	60	12	40	13	34	20	70	250					
	315	FGC113210	110	240	75	12	54	13	40	26	120	320					
	400	FGC113212	160	330	85	18	60	17	80	30	150	440					

Morsetti Tornibili Avvolgenti per serie mandrini – Soft Full Top Jaws for series chucks
BERG
Incastro a croce – Tongue & groove

	FG 11 3204	FG 11 3206	FG 11 3208	FG 11 3210	FG 11 3212	
KHNC	160 185	200	250 315	400	500	



Incastro a
croce
Tongue &
Groove



Materiale	Material
Acciaio	Steel
Fe510D	

STANDARD

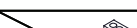
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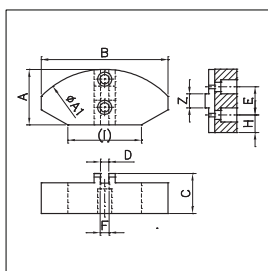
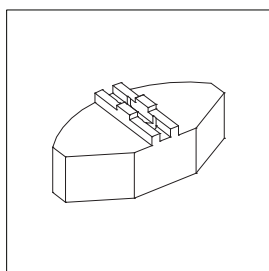
			Code														
Incastro a croce – Tongue & groove																	
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200	FGC113206	70	140	60	10	40	9	17	20	65	200						
250	FGC113208	90	180	60	12	40	13	34	20	70	250						
315	FGC113210	110	240	75	12	54	13	40	26	120	320						
400	FGC113212	160	330	85	18	60	17	80	30	150	440						

Morsetti Tornibili Avvolgenti per serie mandrini – Soft Full Top Jaws for series chucks

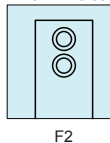
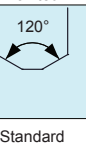
FORKARDT

Incastro a croce – Tongue & groove

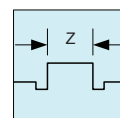
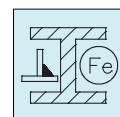
 	FG 11 3204	FG 11 3206	FG 11 3208	FG 11 3210	FG 11 3212
F+	160	200	250	315	400 500
F	160	200	250	315	400 500
KTNC	160	200	250	360 400	500 630
KTNCV	160 175	200	250	400	500 630
FNC	175	200	250	400	500 630



Fori – Holes


 Punta
Pointed


Standard


 Incastro a
croce
Tongue &
Groove

 Materiale
Material
Acciaio
Steel
Fe510D

STANDARD

UNIT:mm

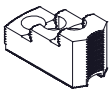
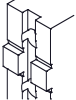
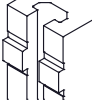
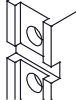
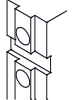
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Incastro a croce – Tongue & groove																	
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	250	FGC113208	90	180	60	12	40	13	34	20	70	250					
	315	FGC113210	110	240	75	12	54	13	40	26	120	320					
	400	FGC113212	160	330	85	18	60	17	80	30	150	440					

Morsetti Tornibili Avvolgenti per serie mandrini – Soft Full Top Jaws for series chucks
FORKARDT
Incastro a croce – Tongue & groove

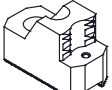
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DURO	160	200	250	315	400 500	
DURO-NC	160 175	200 225	250	315	400 500	
DURO-NCE	160	200	250	400	500	
DURO-NCES	175	200	250	400		

SEZIONE – Section **D**

MORSETTI DURI CON INCASTRO A CROCE – Hard Top jaws tongue & groove

	MORSETTI REVERSIBILI Hard reversible jaws						
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	MANDRINI CHUCKS	Tipo Type												

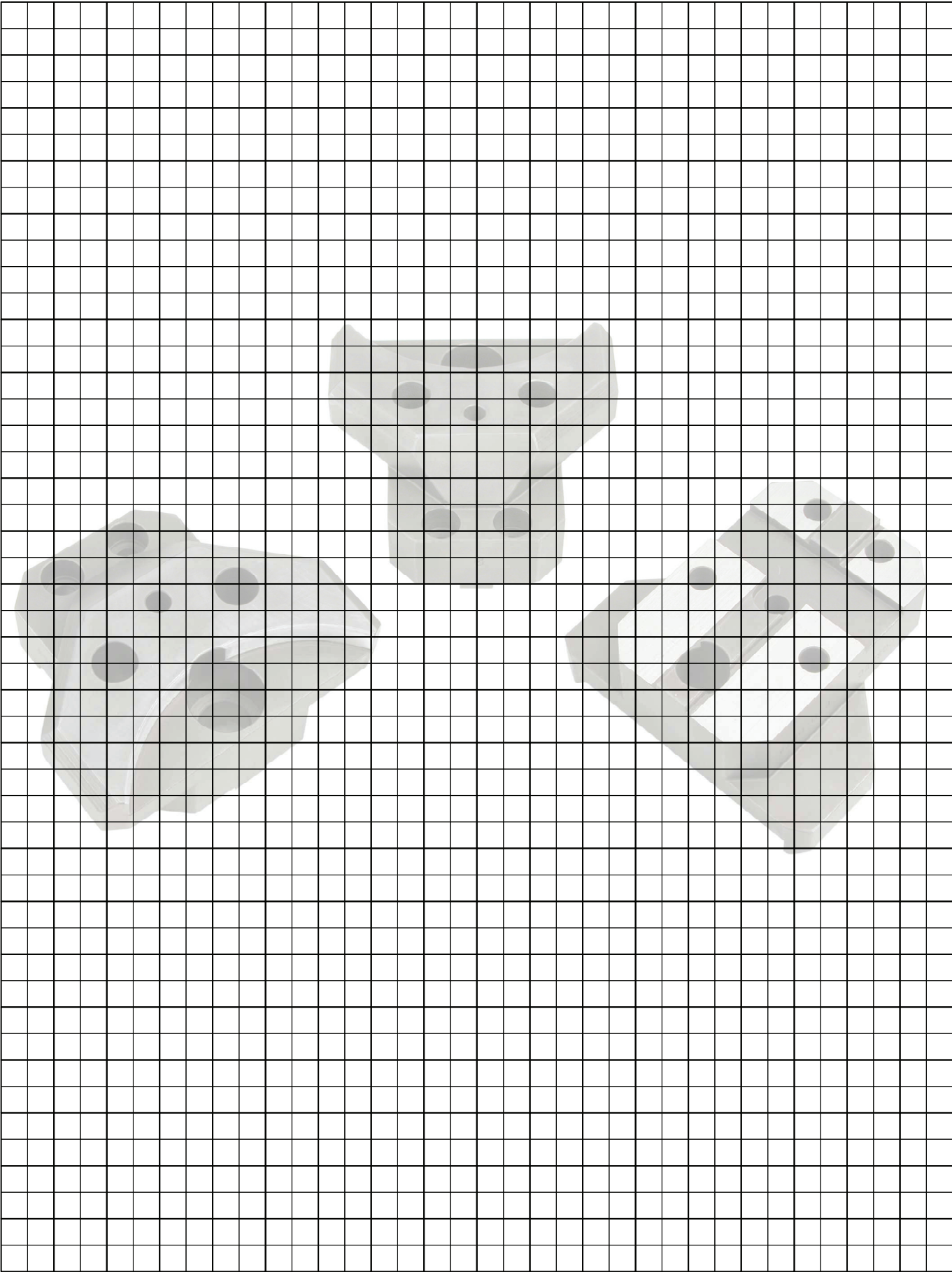
	MORSETTI CLAW GRIP Hard claw jaws						
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	MANDRINI CHUCKS	Tipo Type												

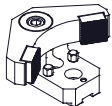
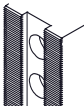
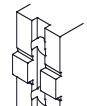
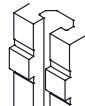
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

	MANDRINI CHUCKS	Tipo Type												

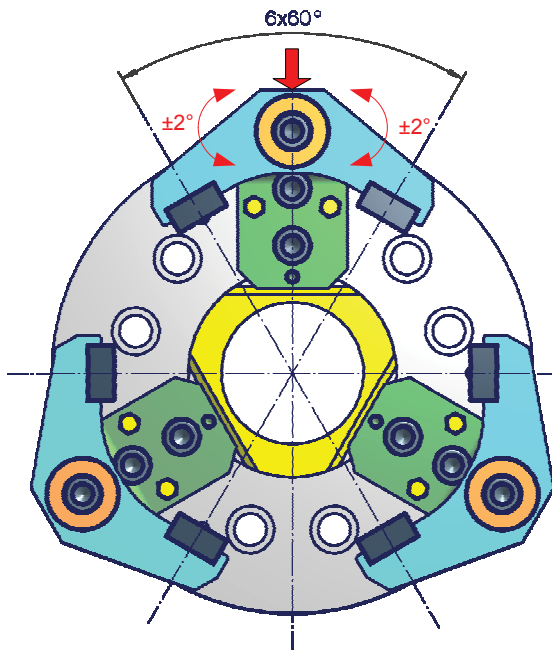
D



SEZIONE – Section E
MORSETTI SPECIALI DURI E TENERI – Special Jaws Soft & Hard

		MORSETTI BASCULANTI Pendulum Jaws													
		MANDRINI CHUCKS		Tipo Type											
SMW-AUTOBLOK		Standard		E2	E2	E2	E2	E2							
FORKARDT		Standard		E2	E2	E2	E2	E2							
KITAGAWA		Standard		E2	E2	E2	E2	E2							
ROHM		Standard		E2	E2	E2	E2	E2							
SCHUNK		Standard		E2	E2	E2	E2	E2							

E



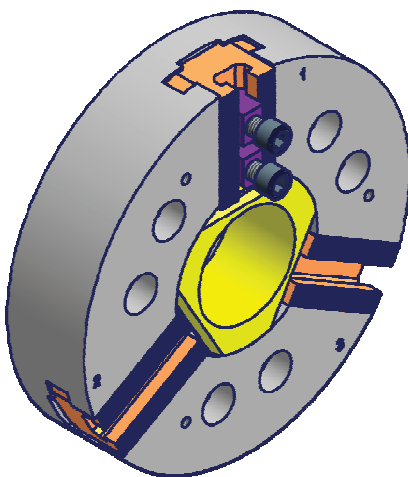
Morsetto basculante - 6 punti

Il morsetto basculante è stato studiato per esigenze particolari, specialmente dove c'è la necessità di seguire le irregolarità della superficie di presa, su particolari fragili e facilmente deformabili, su pezzi grezzi e prefiniti sia interni che esterni, con distribuzione della forza di serraggio su almeno 6 punti distribuiti a 60° sulla circonferenza del diametro di presa.

Pendulum Jaw - 6 point

The pendulum jaw system has been designed for special needs, especially where it is necessary to follow irregularities on the gripped surface, on fragile and easily deformed parts, on rough pieces and ones prefinished internally and externally, with distribution of the clamping force on at least 6 points arranged every 60° around the gripping diameter.

- | | |
|---|---|
| <p>1 MORSETTO BASE
Base jaw</p> <p>2 SETTORE BASCULANTE
Pendulum sector</p> | <p>a DIAMETRO DI PRESA Ø100
Clamping diameter Ø100</p> <p>b DIAMETRO DI PRESA Ø150
Clamping diameter Ø150</p> <p>c DIAMETRO DI PRESA Ø200
Clamping diameter Ø200</p> |
|---|---|



- Cambio rapido del settore basculante
- Quick change pendulum sector

Modularità

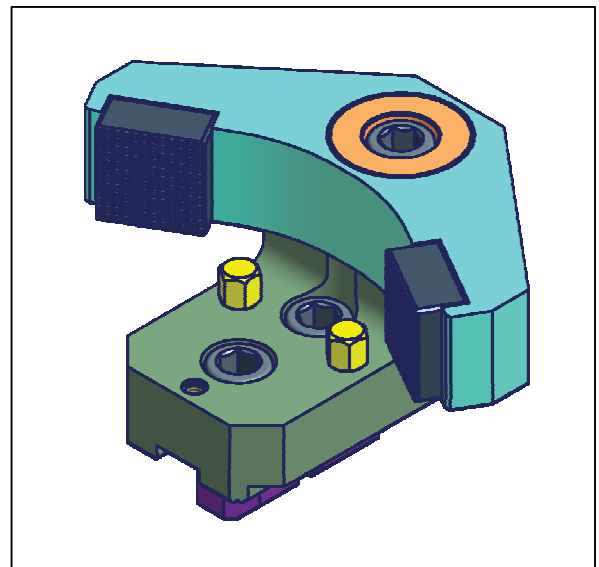
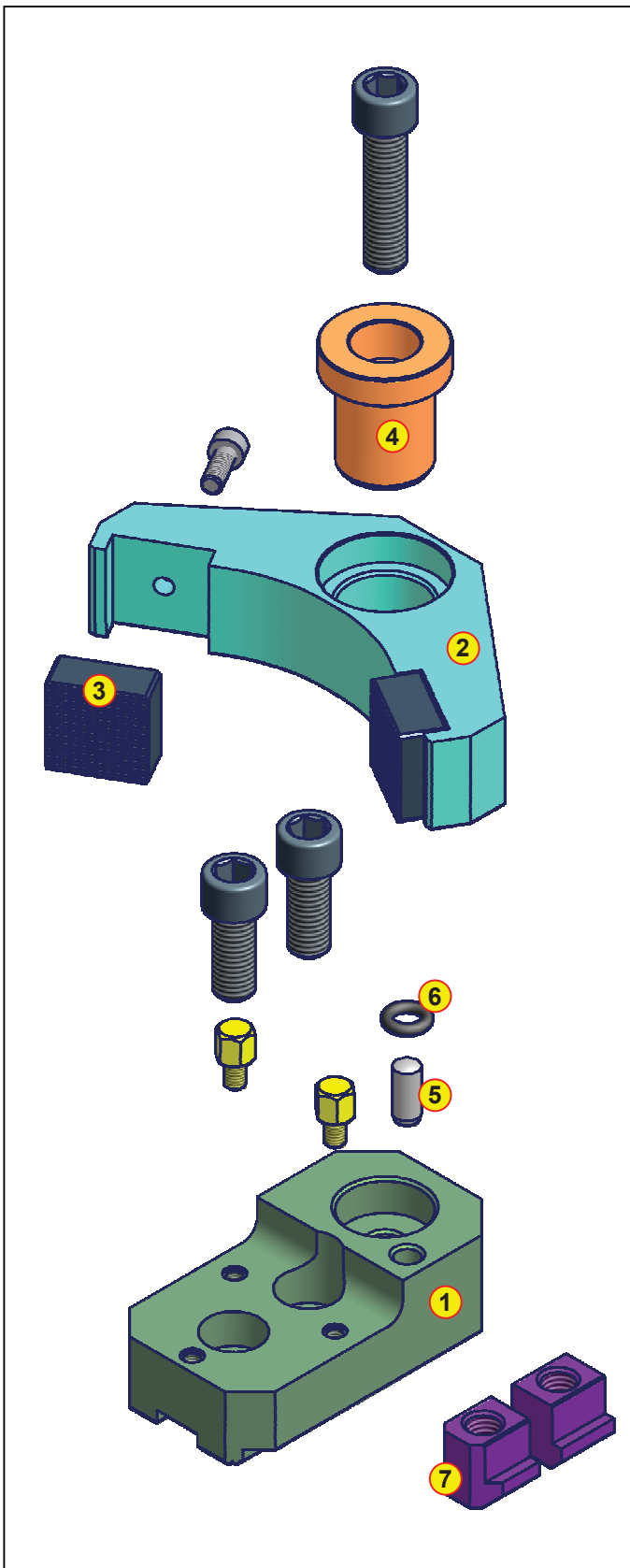
Questo tipo di morsetto, COSMEC lo presenta con dei grossi vantaggi:

- La modularità, cioè la possibilità di sostituire i settori di presa con altri moduli, lasciando fermo il morsetto base
- Il vantaggio economico non indifferente, avendo la possibilità di acquistare un morsetto basculante con settori di un certo diametro e successivamente settori intercambiabili per serraggi di diametro diversi.

Modularity

COSMEC present this type of clamp with great advantages:

- Modularity, i.e. the possibility of interchanging the gripping sectors with other modules while leaving the same base clamp
- A significant economic benefit, as it is possible to buy a pendulum jaw with sectors of a certain diameter and then get interchangeable sectors at a later stage for different diameters.



- 1** MORSETTO BASE
Base jaw
- 2** SETTORE BASCULANTE
Pendulum Sector
- 3** INSERTO DI BLOCCAGGIO
Clamping inserts
- 4** PERNO FULCRO
Pivot bolt
- 5** SPINA CILINDRICA
Cylindrical pin
- 6** O-RING
O-Ring
- 7** TASSELLO A T
T-Nut

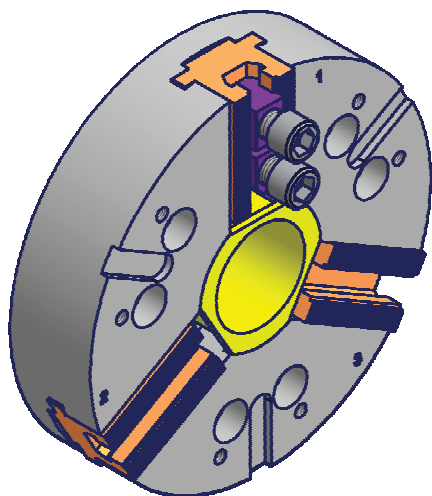
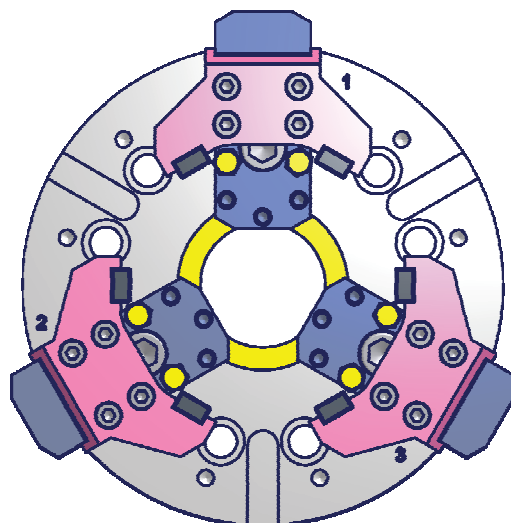
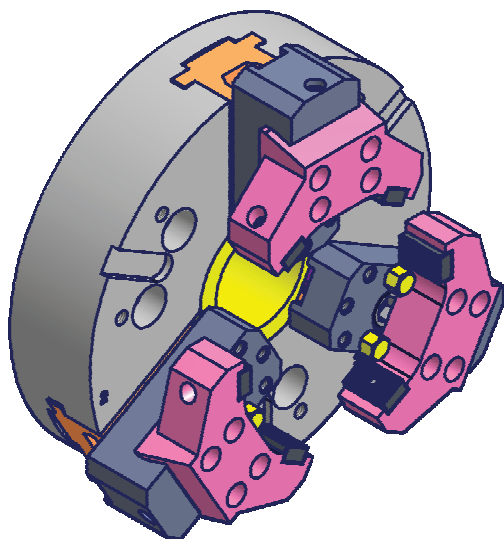
Modalità di utilizzo

Il morsetto base viene montato sul mandrino e il perno inserito tra il morsetto base e il settore fa ruotare quest'ultimo di circa $\pm 2^\circ$ permettendo l'adattamento sul pezzo da lavorare, annullando così possibili deformazioni.

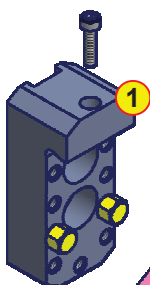
Procedure for use

The base jaw is fitted on the chuck and the pin inserted between the base jaw and the sector makes the latter turn about $\pm 2^\circ$ to let it adapt to the piece to be machined, thereby eliminating any possible deformations.

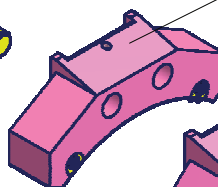




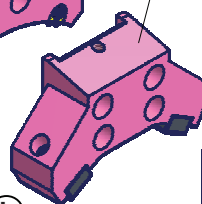
- Cambio rapido del settore fisso di presa
- Quick change fixed sector clamping



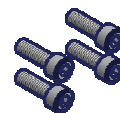
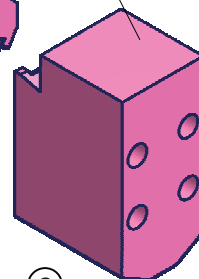
(a)



(b)



(c)



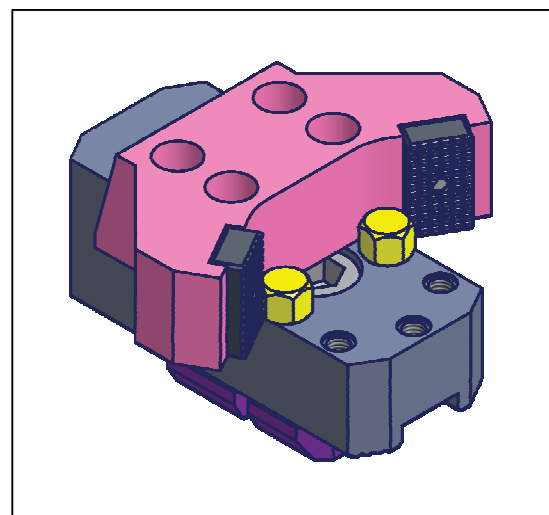
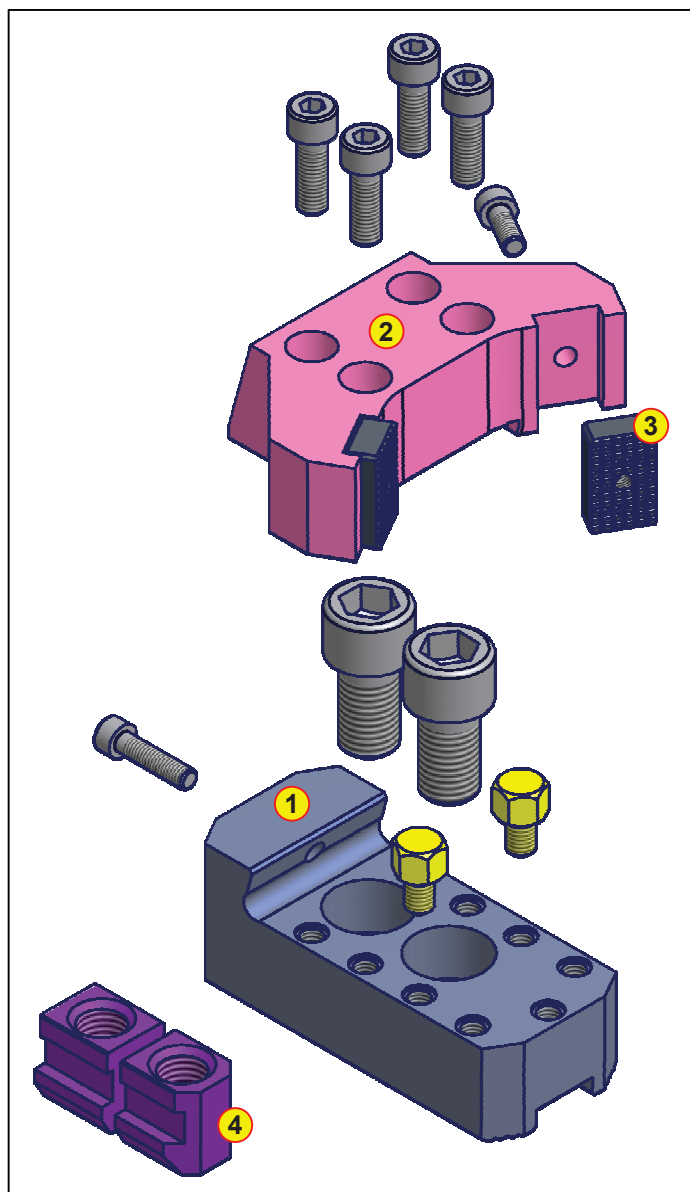
1 MORSETTO BASE
Base jaw

2 SETTORE FISSO
Fixed sector

(a) INSERTO DI BLOCCAGGIO
Clamping Insert uge20

(b) INSERTO DI BLOCCAGGIO
Clamping Insert uge40

(c) TORNIBILE
soft jaw



- 1** MORSETTO BASE
Base jaw
- 2** SETTORE FISSO
Fixed sector
- 3** INSERTO DI BLOCCAGGIO
Clamping inserts
- 4** TASSELLO A T
T-Nut



Morsetto Settorfix – Cambio rapido del settore fisso di presa

Il sistema modulare SETTORFIX è stato studiato e progettato per dare la possibilità all'operatore di cambiare facilmente i settori di presa di un certo diametro con settori di presa di un diametro diverso, oppure con settori teneri tornibili, o settori teneri avvolgenti tipo Full grip, oppure con moduli per presa interna sia di materiale lavorabile che in materiale temprato; in questo modo c'è la possibilità di poter sfruttare le innumerevoli soluzioni previste da questo sistema.

Anche in questo caso, COSMEC, risulta essere all'avanguardia nel produrre nuove soluzioni e nuove opportunità, per contribuire a risolvere e semplificare il problema della presa e bloccaggio pezzo sulla macchina utensile.

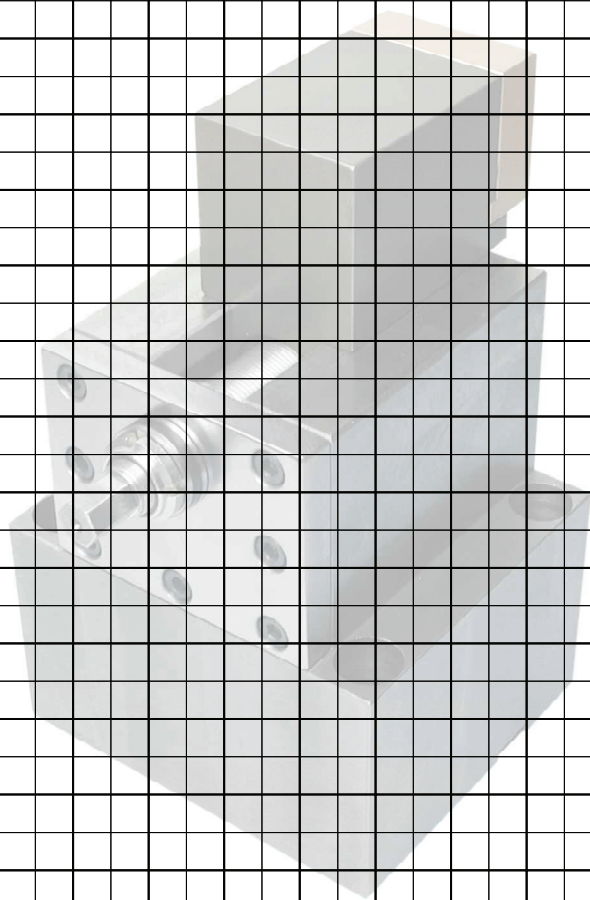
Inoltre, con questo sistema modulare vogliamo dare all'acquirente, la possibilità di comprare un kit completo di tre morsetti base con tre settori di presa, ed eventualmente in un secondo tempo acquistare moduli di qualsiasi altro tipo secondo le necessità, certi della modularità e dell'intercambiabilità.

Settorfix Jaws – Quick change fixed sector clamping

The SETTORFIX modular system was conceived and designed to allow the operator to easily replace gripping sectors of a certain diameter with those of a different diameter, or with soft turnable sectors or Full Grip enveloping sectors, or also with internal gripping modules made of both workable and hardened material. As a result it is possible to exploit the countless solutions envisaged by this system.

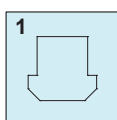
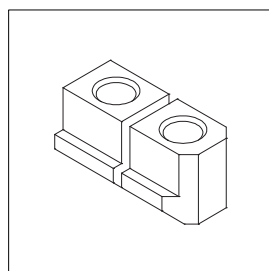
In this case too, COSMEC is in the vanguard in proposing new solutions and new opportunities in order to contribute to solving and simplifying the problem of gripping and clamping workpieces on machine tools.

Furthermore, with this system buyers can purchase a complete kit of three base jaws with three gripping sectors and later buy modules of any other type as required, with guaranteed modularity and interchangeability.

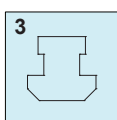


TASELLI A T – T-Nuts for Jaws

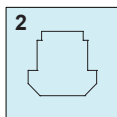
F



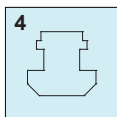
1 Profilo piano una guida
Flat profile a guide



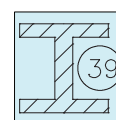
3 Profilo scanalato una guida
Profile grooved a guide



2 Profilo piano doppia guida
Flat profile double guide



4 Profilo scanalato doppia guida
Profile grooved double guide



Acciaio da bonifica
Steel for hardening
39NiCrMo3

Trattamento superficiale: Brunitura
Surface treatment: Burnishing

Versione 1

UNIT:mm

	Code	A	B	C	D	F	G				Kg
130 - 140	C1210003	15	17	15	12	M8	6.5				
165 - 180	C1210006	15	20	20	14	M10	7.5				
200 - 210	C1210009	20	22.5	22	17	M12	8				
200 - 400	C1210012	25	29	25	21	M16	11				
400 - 800	C1210018	30	35	34	25.5	M20	15				

Versione 2

	Code	A	B	C	D	D1	F	G			Kg
400 - 450	C1210714	30	35	35	22	25.5	M20	15			
500	C1210715	30	35	34	25.5	28	M20	15			
500 - 800	C1210721	32	39	39	25.5	28	M20	15			

Versione 3

	Code	A	B	C	D	F	G				Kg
165 - 180	C1210306	15	17	18.5	14	M10	6.5				
210 - 260	C1210309	19	19	20	17	M12	7.5				
250 - 315	C1210312	25	25	26.5	21	M16	10				

Versione 4

	Code	A	B	C	D	D1	F	G			Kg
165 - 175	C1210902	18	17	18.5	12	14	M10	6.5			
210 - 215	C1210904	22	19	20.5	14	17	M12	7.5			
250	C1210906	28	25	26.5	16	21	M12	10			
260	C1210908	25	19	20.5	16	17	M12	7.5			

Per mandrini con dentatura metrica compatibili con i morsetti Kitagawa. - For metric serrated master jaws to use existing Kitagawa top jaws.

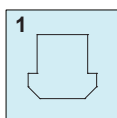
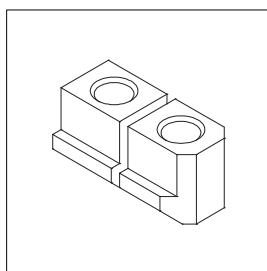


Tasselli-T per serie mandrini – T-Nut for series chucks																SMW-AUTOBLOK			
Versione 1						Versione 2			Versione 3				Versione 4						
 	12 10003	12 10006	12 10009	12 10012	12 10018	12 10714	12 10715	12 10721	12 10306	12 10309	12 10312		12 10902	12 10904	12 10906	12 10908			
AL,AN					D400	M400			D165	D210	D250 DM315		M165	M210	M250				
AP									D170	D215 D260	DM315	400	M170	M215		M260			
APL										D215 D260	DM315	400		M215		M260			
BB	DM140								D175	D210	DM315		M175	M210	M250				
BB-N Big bore					D400,460 500,600														
BB-N ES B.b.					D400,460 500,600														
BH	DM130				D400 D800	M400 M450			D165	D210	D250 DM315		M165	M210	M250				
BH-FC					D400 D630				D165	D210	D250 DM315		M165	M210	M250				
CD*			D200	D250 D315															
CL,2CL*				D200	D250 D315														
GH*				D400	D500		D500	D610											
GHDN*		D165	D210	D250 D400	D500		D500	D610 D800											
GHD-FC*		D165	D210	D250 D400															
HB	DM130								D165	D210	D250 DM315		M165	M210	M250				
HDB*		D170	D200	D300															
HDL*		D170	D200	D250 D400															
HDN*		D170	D200	D250 D400															
HDN-FC*				D400	D500														
HFKN									D165	D210	D260 DM315								
HYD-S		D170* D180*	D210*	D400			D500												
HYDL-S							D500,550 630	D800											
HYDLL-S							D550 D630												
HYND-S									D180	D210 D226	D250 D315								
IL,IN								D500 D800											
NT									D170	D215 D260	DM315	400	M170	M215		M260			
NTL										D260	DM315	400				M260			
ODL*,ODN*		D170	D200	D250 D400															
PB	DM130								D165	D210	D250 DM315		M165	M210	M250				
PBI									D165	D210	D250 DM315		M165	M210	M250				
RC*				DM400					D165	D210	D250 DM305		M165	M210	M250				

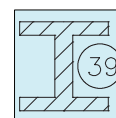
(-D)=Dentatura pollici - Serration inch. (-M)=Dentatura metrica - Serration metric. (*) Obsolete



F



1
 Profilo piano una guida
 Flat profile a guide



Acciaio da bonifica
 Steel for hardening
 39NiCrMo3

Trattamento superficiale: Brunitura
 Surface treatment: Burnishing

Versione 1

UNIT:mm

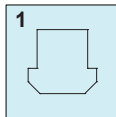
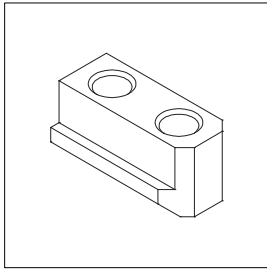
	Code	A	B	C	D	F	G					Kg
165 - 6"	C1210509	16	18	18.5	12	M10	7.5					
210 - 8"	C1210512	21	21	20.5	14	M12	8.5					
254 - 10"	C1210515	21	23	21.5	16	M12	8.5					
304 - 12"	C1210518	25	26	33.5	18	M14	13.5					
304 - 12"	C1210521	25	29	28	21	M16	11.5					
381 - 15"	C1210524	33	35	39	25.5	M20	19					
530 - 21"	C1210526	46	37.5	45	25	M20	19					

**F**

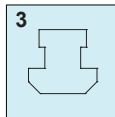


Tasselli-T per serie mandrini – T-Nut for series chucks								KITAGAWA
Versione 1								
	12 10509	12 10512	12 10515	12 10518	12 10521	12 10524	12 10526	
AS								
AT								
B				12			21,24	
B200	206	208	210		212	215		
BB	206	208	210					
BL200	206	208	210		212			
BLT200	206	208	210		212			
BT				12				
BT200	206	208	210		212			
BS300	306	308	310					
HJ							18,21	
HW	08							
HOH	206	208						
N				12			21,24	
NL				12		15,18		
NT				12				
NLT				12				
NRC								

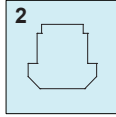
**F**



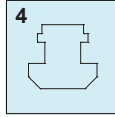
1 Profilo piano una guida
Flat profile a guide



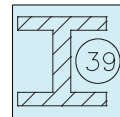
3 Profilo scanalato una guida
Profile grooved a guide



2 Profilo piano doppia guida
Flat profile double guide



4 Profilo scanalato doppia guida
Profile grooved double guide



Acciaio da bonifica
Steel for hardening
39NiCrMo3

Trattamento superficiale: Brunitura
Surface treatment: Burnishing

Versione 1

UNIT:mm

		Code	A	B	C	D	E	F	G			Kg
	130 - 140	C1210202	30	17	15	12	16	M8	6.5			
	165 - 180	C1210203	35	20	20	14	16	M10	7.5			
	200 - 210	C1210206	41	22.5	22	17	23	M12	8			
	200 - 400	C1210209	54	29	25	21	30	M16	11			
	400 - 800	C1210215	68	35	34	25.5	38	M20	15			

Versione 2

		Code	A	B	C	D	D1	E	F	G		Kg
	400 - 450	C1211014*	73	35	34	22	25.5	43	M20	15		
	400 - 450	C1211014E38	68	35	34	22	25.5	38	M20	15		

* Per mandrini con dentatura metrica compatibili con i morsetti Kitagawa. - For metric serrated master jaws to use existing Kitagawa top jaws.

Versione 3

		Code	A	B	C	D	E	F	G			Kg
	165 - 180	C1210103	32	17	18.5	14	16.5	M10	6.5			
	210 - 260	C1210106	43	19	20	17	23	M12	7.5			
	250 - 315	C1210109	56	25	26.5	21	30	M16	10			

Versione 4

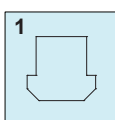
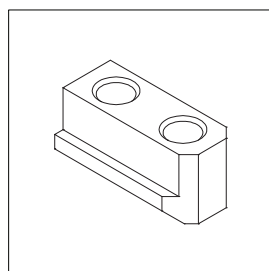
		Code	A	B	C	D	D1	E	F	G		Kg
	165 - 175	C1210802	36	17	18.5	12	14	20	M10	6.5		
	210 - 215	C1210804	45	19	20.5	14	17	25	M12	7.5		
	250	C1210806	56	25	26.5	16	21	30	M12	10		
	260	C1210808	50	19	20.5	16	17	30	M12	7.5		

Per mandrini con dentatura metrica compatibili con i morsetti Kitagawa. - For metric serrated master jaws to use existing Kitagawa top jaws.

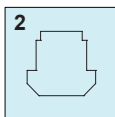


Tasselli-T per serie mandrini – T-Nut for series chucks																SMW-AUTOBLOK			
Versione 1						Versione 2				Versione 3				Versione 4					
	12 10202	12 10203	12 10206	12 10209	12 10215	12 11014				12 10103	12 10106	12 10109		12 10802	12 10804	12 10806	12 10808		
AL,AN					D400	M400				D165	D210	D250 DM315		M165	M210	M250			
AP										D170	D215 D260	DM315	400	M170	M215		M260		
APL											D215 D260	DM315	400		M215		M260		
BB	DM140									D175	D210	DM315		M175	M210	M250			
BB-N Big bore					D400,460 500,600														
BB-N ES B.b.					D400,460 500,600														
BH	DM130				D400,630 800	M400 M450				D165	D210	D250 DM315		M165	M210	M250			
BH-FC					D400 D630					D165	D210	D250 DM315		M165	M210	M250			
CD*			D200	D250 D315															
CL,2CL*				D200	D250 D315														
GH*				D400	D500														
GHDN*		D165	D210	D250 D400	D500														
GHD-FC*		D165	D210	D250 D400															
HB	DM130									D165	D210	D250 DM315		M165	M210	M250			
HDB*		D170	D200	D300															
HDL*		D170	D200	D250 D400															
HDN*		D170	D200	D250 D400															
HDN-FC*				D400	D500														
HFKN										D165	D210	D260 DM315							
HYD-S		D170* D180*	D210*	D400															
HYDL-S																			
HYDLL-S																			
HYND-S										D180	D210 D226	D250 D315							
IL,IN																			
NT										D170	D215 D260	DM315	400	M170	M215		M260		
NTL											D260	DM315	400				M260		
ODL*,ODN*		D170	D200	D250 D400															
PB	DM130									D165	D210	D250 DM315		M165	M210	M250			
PBI										D165	D210	D250 DM315		M165	M210	M250			
RC*				DM400						D165	D210	D250 DM305		M165	M210	M250			

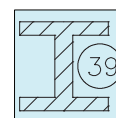




1 Profilo piano una guida
Flat profile a guide



2 Profilo piano doppia guida
Flat profile double guide



Acciaio da bonifica
Steel for hardening
39NiCrMo3

Trattamento superficiale:
Brunitura
Surface treatment: Burnishing

Versione 1

UNIT:mm

		Code										
		110 - 4"	C1210403	24	12	13.5	8	15	M6	4.5		
		135 - 5"	C1210406	26	15	15	10	14	M8	5.5		
		135 - 5"	C1210406C18	26	15	18	10	14	M8	5.5		
		165 - 6"	C1210409	36	18	18.5	12	20	M10	7.5		
		165 - 6"	C1210409C22.5	36	18	22.5	12	20	M10	7.5		
		210 - 8"	C1210412	46	21	20.5	14	25	M12	8.5		
		210 - 8"	C1210412C25.5	46	21	25.5	14	25	M12	9.5		
		254 - 10"	C1210415	51	23	21.5	16	30	M12	8.5		
		254 - 10"	C1210415C25.5	51	23	25.5	16	30	M12	9.5		
		304 - 12"	C1210418	54	26	33.5	18	30	M14	13.5		
		304 - 12"	C1210421	57	29	28	21	30	M16	11.5		
		381 - 15"	C1210424	75	35	39	25.5	43	M20	19		
		530 - 21"	C1210426	100	37.5	45	25	60	M20	19		

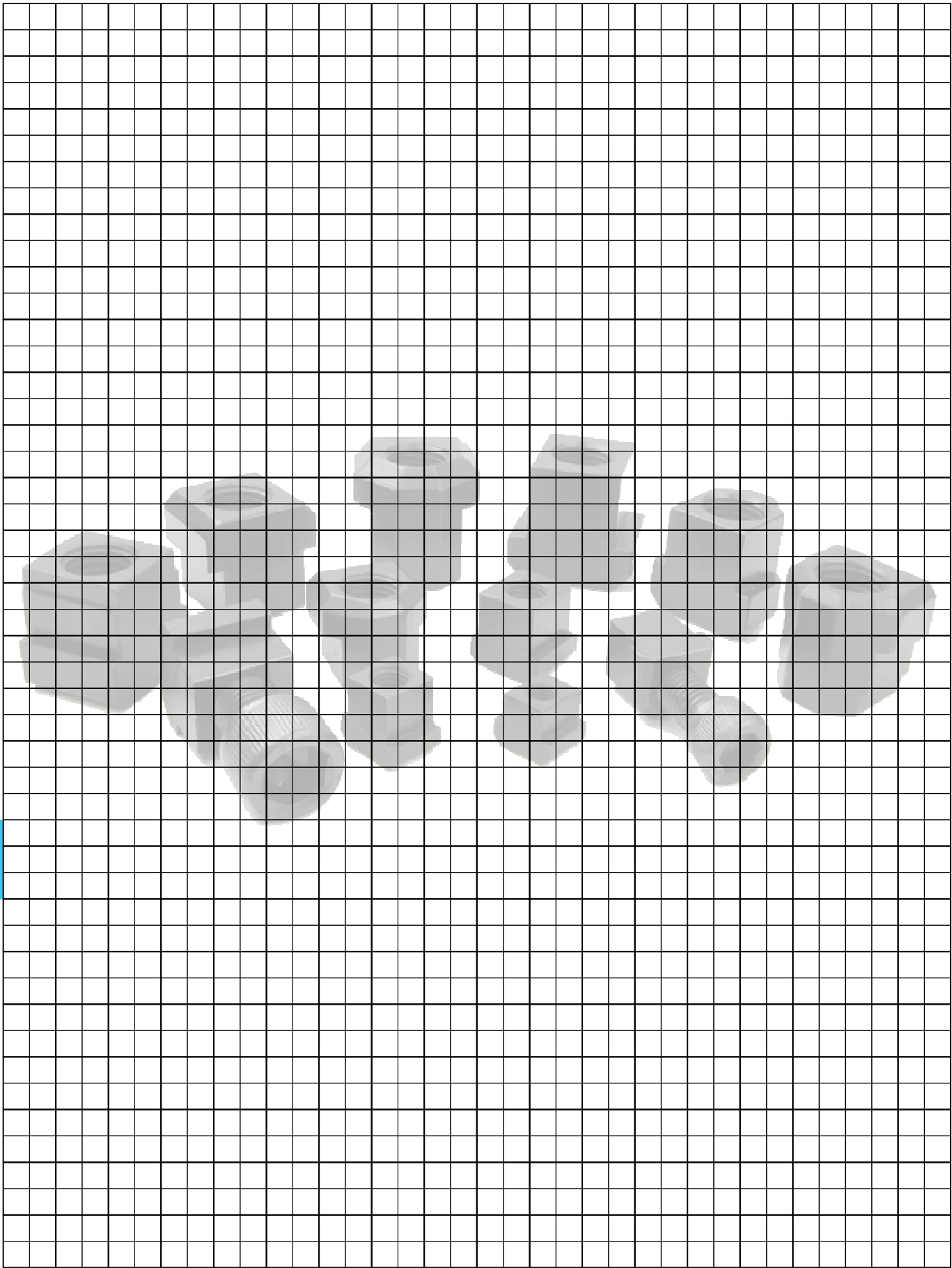
Versione 2

		Code										
		381 - 15"	C1210427	80	34	40.5	22	24	43	M20	16.5	
		381 - 15"	C1210427C45.5	80	34	45.5	22	24	43	M20	16.5	

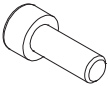
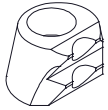
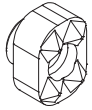
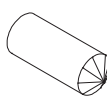
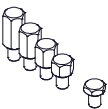
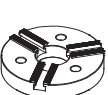


Tasselli-T per serie mandrini – T-Nut for series chucks																KITAGAWA	
Versione 1																Versione 2	
	12 10403	12 10406	12 10406 C18	12 10409	12 10409 C25.5	12 10412	12 10412 C25.5	12 10415	12 10415 C25.5	12 10418	12 10421	12 10424	12 10426	12 10427	12 10427 C45.5		
AS			04		06		08		10								
AT			04		06		08		10								
B	04				06		08		10	12			21,24		15,18		
B200		204 205		206		208		210			212	215					
BB				206		208		210									
BL200				206		208		210			212						
BLT200				206		208		210			212						
BT	04				06		08		10	12					15		
BT200		204 205		206		208		210			212						
BS300				306		308		310									
HJ			4		6		8		10				18,21				
HW				08					10,12								
HOH				206	06K	208	08K		10K					15K	15		
N			04		06		08		10	12			21,24				
NL			04		06		08		10	12		15,18					
NT			04		06		08		10	12							
NLT					06		08		10	12							
NRC			04		06		08		10								

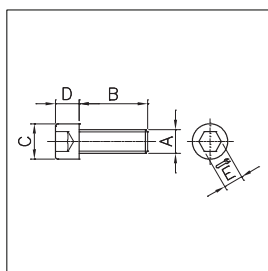
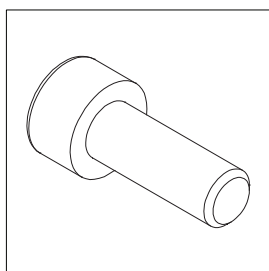




SEZIONE – Section G
ACCESSORI - Accessories

VITI DI BLOCCAGGIO clamping screws							
NOME NAME	Tipo Type	Metrica Metric					
VITI TCEI DIN 912	Standard	G2					
INSERTI DI BLOCCAGGIO Clamping insert							
NOME NAME	Tipo Type						
UGE 10	Standard		G3				
UGE 20	Standard	G3					
PICOT	Standard			G3			
	Standard						
APPOGGI Workpiece stop							
NOME NAME	Tipo Type	Metrica Metric					
PIEDINI FISSI	Standard	G4					
ATTREZZI PER TORNITURA MORSETTI Jaw turning device							
NOME NAME	Tipo Type						
ANELLI DI TORNITURA	standard	G5					
FLANGE DI TORNITURA	Standard		G6				

G
G1



Materiale – Material
Acciaio – Steel 12.9

TCEI – Metrica - Metric

UNIT:mm

Code	A	B	C	D	E	Kg
------	---	---	---	---	---	----

M6

TC618	M6	18	Ø10	6	5	
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M8

TC820	M8	20	Ø13	8	6	
TC822	M8	22	Ø13	8	6	
TC825	M8	25	Ø13	8	6	
TC830	M8	30	Ø13	8	6	

M10

TC1020	M10	20	Ø16	10	8	
TC1025	M10	25	Ø16	10	8	
TC1030	M10	30	Ø16	10	8	
TC1035	M10	35	Ø16	10	8	

M12

TC1225	M12	25	Ø18	12	10	
TC1230	M12	30	Ø18	12	10	
TC1235	M12	35	Ø18	12	10	

M14

TC1430	M14	30	Ø21	14	12	
TC1440	M14	40	Ø21	14	12	
TC1445	M14	45	Ø21	14	12	

TCEI – Metrica - Metric

UNIT:mm

Code	A	B	C	D	E	Kg
------	---	---	---	---	---	----

M16

TC1630	M16	30	Ø24	16	14	
TC1635	M16	35	Ø24	16	14	
TC1640	M16	40	Ø24	16	14	

M18

TC1855	M18	55	Ø27	18	14	
TC1890	M18	90	Ø27	18	14	

M20

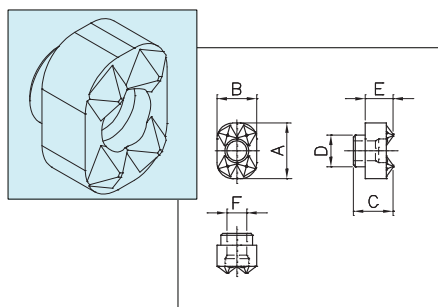
TC2040	M20	40	Ø30	20	17	
TC2045	M20	45	Ø30	20	17	
TC2050	M20	50	Ø30	20	17	
TC2055	M20	55	Ø30	20	17	
TC2060	M20	60	Ø30	20	17	
TC2070	M20	70	Ø30	20	17	

M24

TC2450	M24	50	Ø36	24	19	
TC2470	M24	70	Ø36	24	19	



G

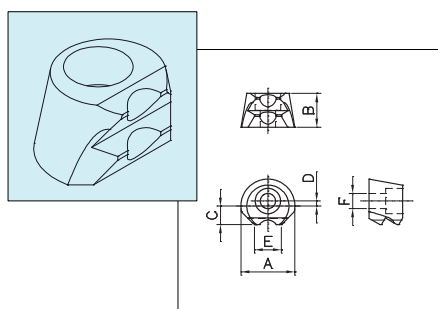


UGE 10

UNIT:mm

Code	A	B	C	D	E	F	Kg
Acciaio rapido temprato – Hardened Steel							
C250002	14	10	10	Ø8	7	4.5	

Parti incluse: Vite di fissaggio a Torx M4x13.5 Istruzioni per il montaggio: pag.H7
Part included: Gripper with Torx screw (Cod.C250003) Mounting instruction: pag.H7

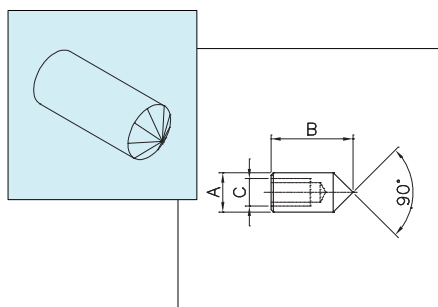


UGE 20

UNIT:mm

Code	A	B	C	D	E	F	Kg
Acciaio rapido temprato – Hardened Steel							
C250001	Ø16	10	5.5	1.5	8	4.5	

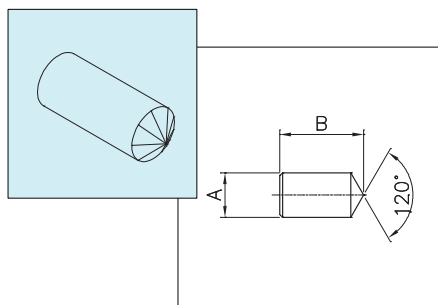
Parti incluse: Vite di fissaggio a testa cilindrica M4x12 DIN 912 Istruzioni per il montaggio: pag.H6
Part included: Gripper with head socket screw (Cod. N410001) Mounting instruction: pag.H6



PICOT

UNIT:mm

Code	A	B	C	Kg			
Acciaio rapido temprato – Hardened Steel							
C250037	Ø6	10	M3				
C250041	Ø8	12	M4				
C250007	Ø10	14	M5				
C250042	Ø12	16	M6				

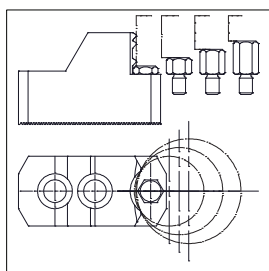
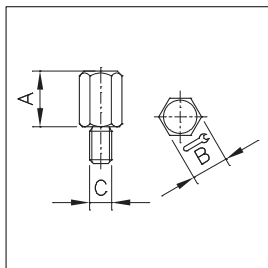
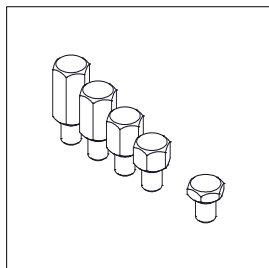


PICOT

UNIT:mm

Code	A	B	Kg				
Materiale metallo duro – Material carbide							
F190021-3	Ø4	12					
F190021-1	Ø6	15					
F190021-6	Ø6	20					
F190021-2	Ø8	15					
F190021-4	Ø8	20					





STANDARD

UNIT:mm

Code	A	B	C	Kg
------	---	---	---	----

M6

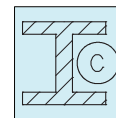
PFA 6.5	5	10	M6	
PFA 6.10	10	10	M6	
PFA 6.15	15	10	M6	
PFA 6.20	20	10	M6	
PFA 6.25	25	10	M6	

M8

PFA 8.5	5	13	M8	
PFA 8.10	10	13	M8	
PFA 8.15	15	13	M8	
PFA 8.20	20	13	M8	
PFA 8.25	25	13	M8	

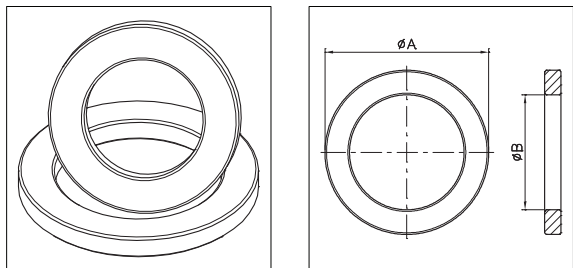
M10

PFA 10.5	5	17	M10	
PFA 10.10	10	17	M10	
PFA 10.15	15	17	M10	
PFA 10.20	20	17	M10	
PFA 10.25	25	17	M10	



Materiale
Material
Acciaio
Steel
C45





Materiale: 39NiCrMo3
Trattamento superficiale: Brunitura

Material: 39NiCrMo3
Surface treatment: Burnishing

STANDARD

UNIT:mm

Code	A min.	A max.	B min.	B max.	Pezzi Pieces	Passo Steps	Kg
------	--------	--------	--------	--------	--------------	-------------	----

Tutti - All

ATA 020-125	20	125			106	1	
ATA 126-250	126	250	60	184	125	1	

Pari - Even

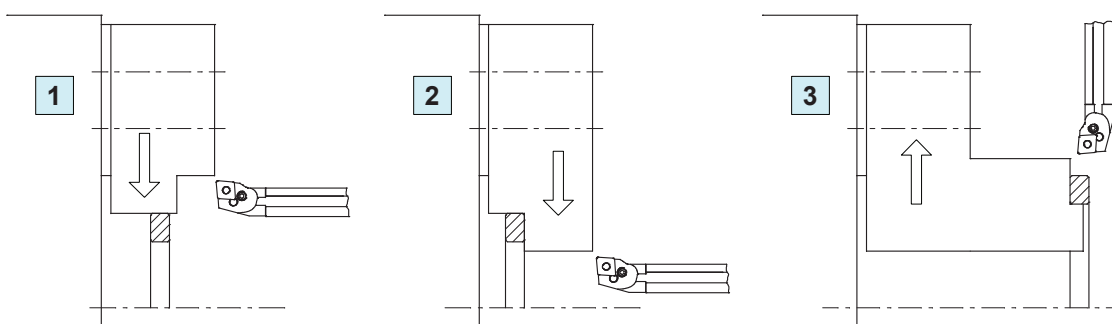
ATP 020-124	20	124			53	2	
ATP 126-250	126	250	60	184	63	2	

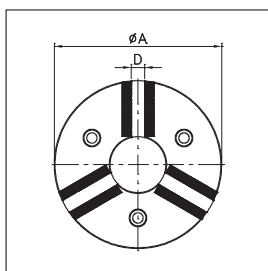
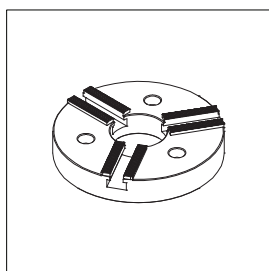
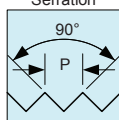
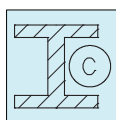
Dispari - Odd

ATD 021-125	21	125			53	2	
ATD 127-249	127	249	61	183	62	2	

ESEMPI DI APPLICAZIONI

Clamping examples



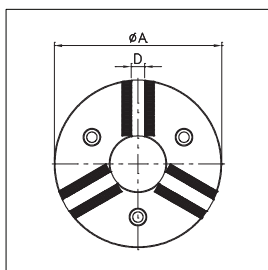
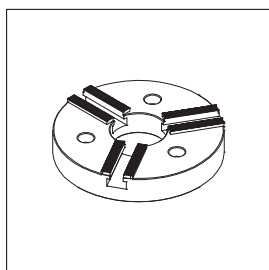
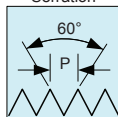
Dentatura
SerrationP 1/16"x90°
P 3/32"x90°Materiale
Material
Acciaio
Steel
C45Trattamento superficiale: Brunitura
Surface treatment: Burnishing

STANDARD

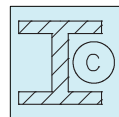
Code					
Dentatura - Serration 1/16"x90°					
160	FT-D 16014	165	14	1/16"	
200	FT-D 20017	210	17	1/16"	
250	FT-D 25021	254	21	1/16"	
315	FT-D 31521	315	21	1/16"	
400	FT-D 40021	400	21	1/16"	
Dentatura - Serration 3/32"x90°					
400	FT-D 40025.5	390	25.5	3/32"	
450	FT-D 45025.5	450	25.5	3/32"	

MANDRINI - Chucks

- ☐ SMW/AUTOBLOK
- ☐ BERG
- ☐ CMT
- ☐ FORKARDT
- ☐ GAMET
- ☐ MARIO PINTO
- ☐ ROHM

Dentatura
Serration

P 1,5x60°

Materiale
Material
Acciaio
Steel
C45Trattamento superficiale: Brunitura
Surface treatment: Burnishing

STANDARD

Code					
Dentatura - Serration 1.5x60°					
165	FT-M 16512	165	12	1,5	
210	FT-M 21014	210	14	1,5	
254	FT-M 25416	254	16	1,5	
304	FT-M 30418	304	18	1,5	
304	FT-M 30421	304	21	1,5	
381	FT-M 38122	381	22	1,5	

MANDRINI - Chucks

- ☐ KITAGAWA
- ☐ HOWA
- ☐ MMK-MATSUMOTO
- ☐ SAMCHULLY



INFORMAZIONE TECNICA - Technical information

TIPOLOGIA MORSETTO – Type top jaw

H2

DIAGRAMMA DI FLUSSO PER SELEZIONARE IL TIPO DI MORSETTO – Flowchart for selection type top jaw

H3

TIPOLOGIA ATTACCO MORSETTO – Type attack top jaw

H4

TIPOLOGIA PUNTA MORSETTO – Type pointed top jaw

H5

TIPOLOGIA MATERIALE – Type material

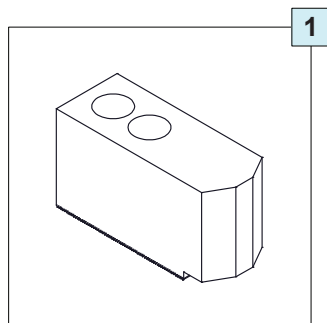
H6

ISTRUZIONE MONTAGGIO – Mounting instruction – UGE 20

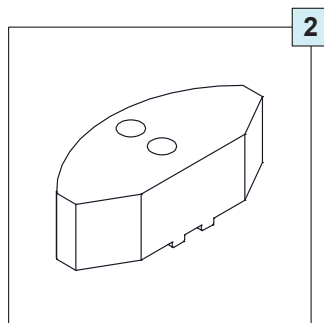
H7

ISTRUZIONE MONTAGGIO – Mounting instruction – UGE 10

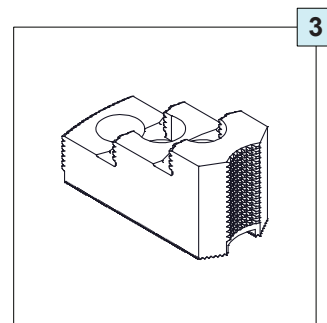
H8



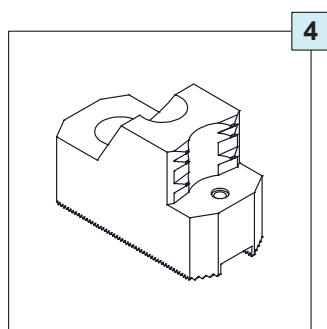
**MORSETTO TORNIBILE
STANDARD**
Soft Top Jaw



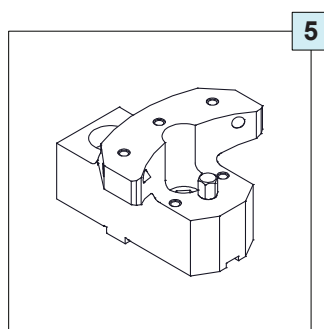
**MORSETTO TORNIBILE
AVVOLGENTE**
Soft Full Grip Jaw



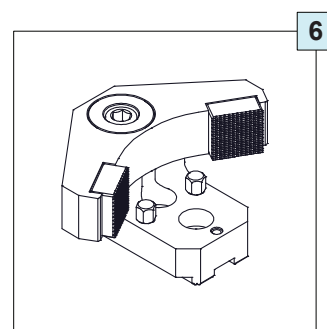
**MORSETTO REVERSIBILE
STANDARD**
Hard Reversible Jaw



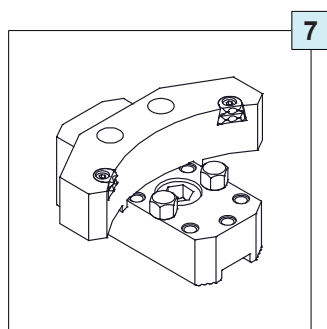
MORSETTO CLAW GRIP
Hard Claw Grip Jaw



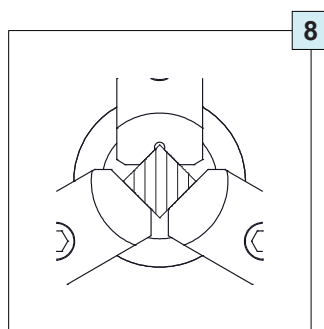
**MORSETTO PORTA
INSERTO**
Hard Insert Grip Jaw



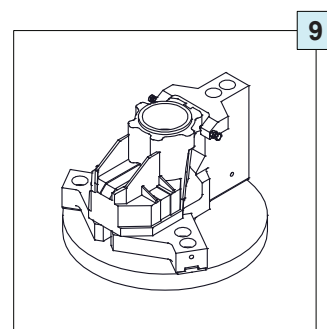
MORSETTO BASCULANTE
Hard Pendulum Jaw



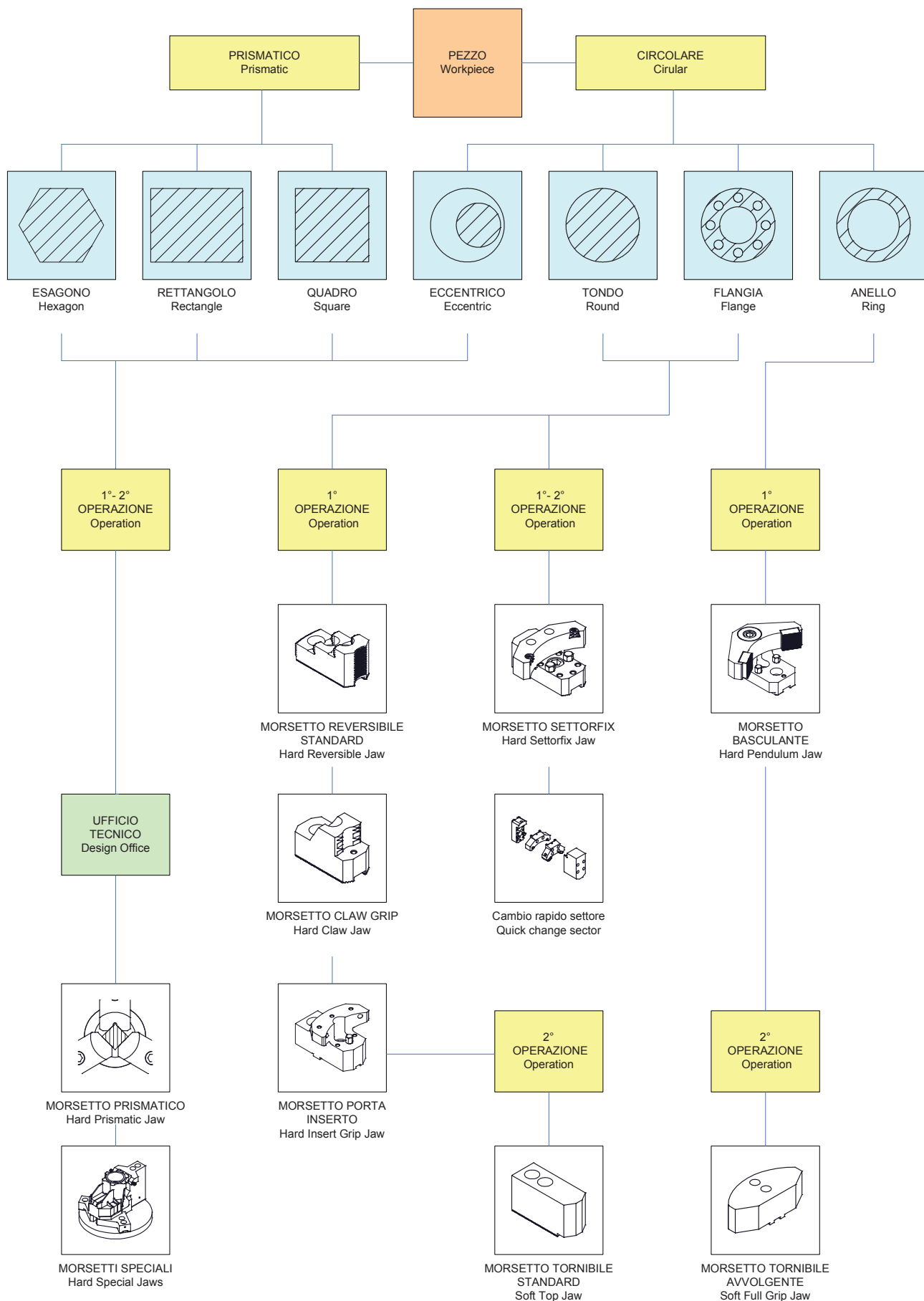
MORSETTO SETTORFIX
Sistema a cambio rapido
Jaw quick-change System

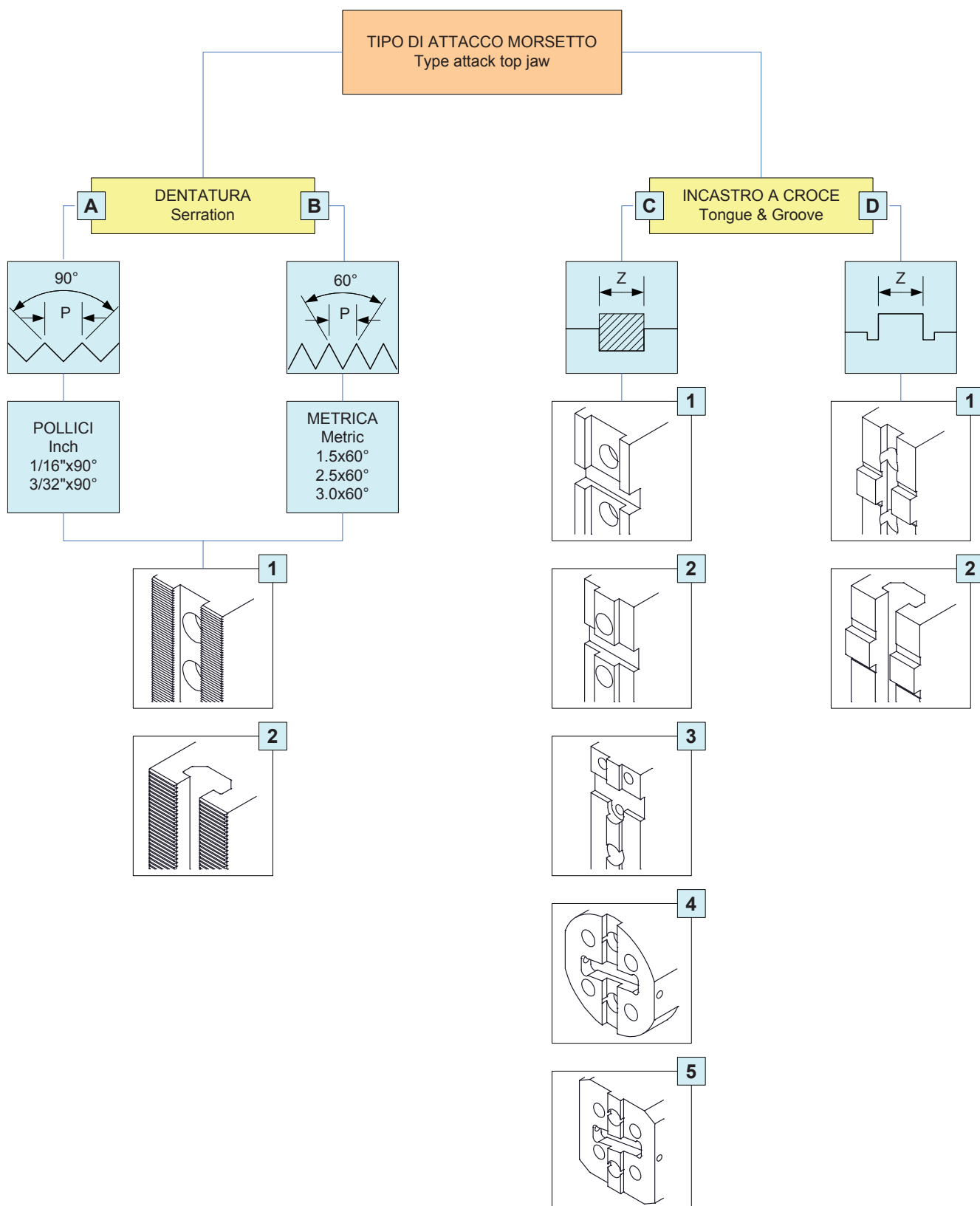


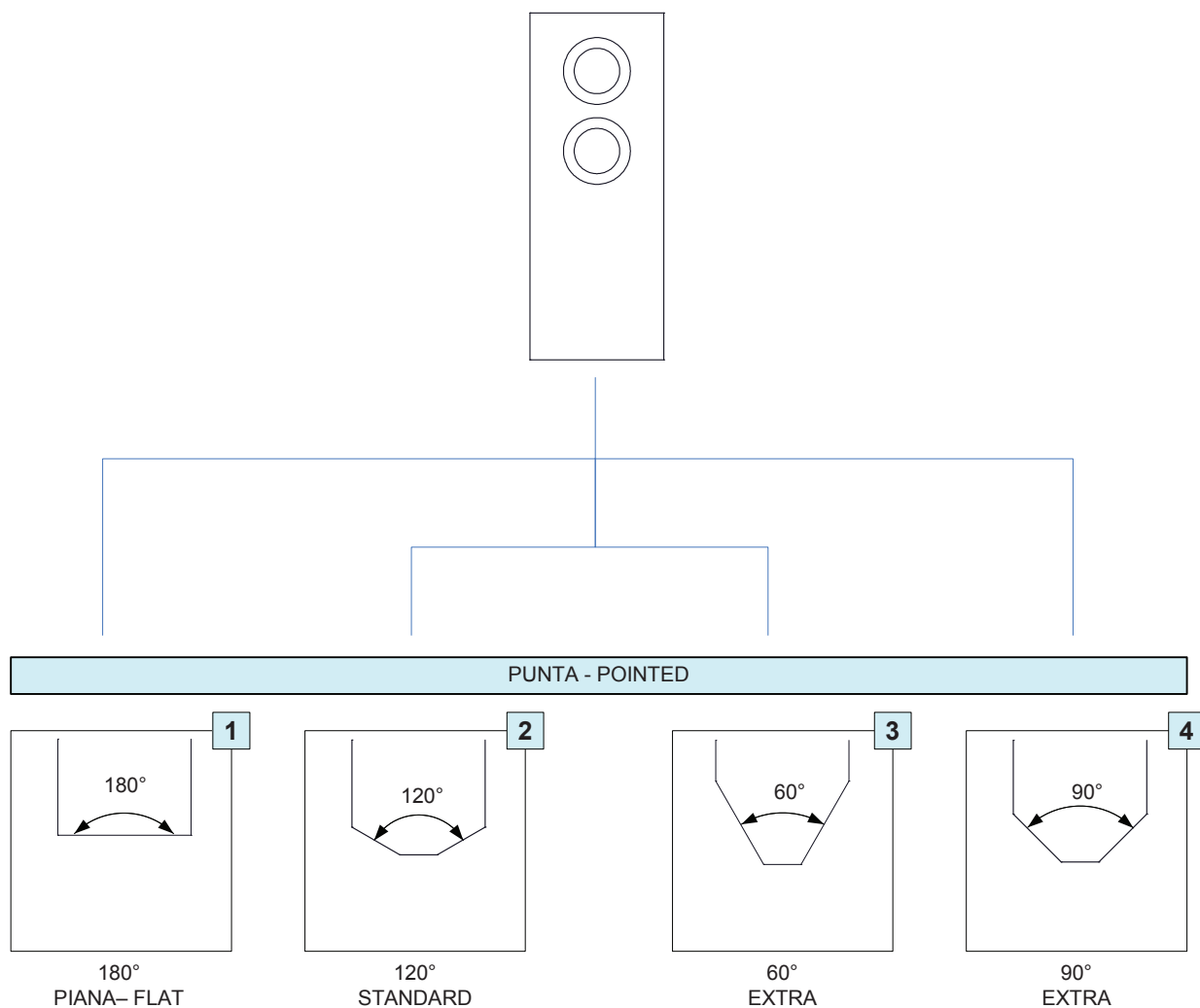
MORSETTO PRISMATICO
Hard Prismatic Jaw

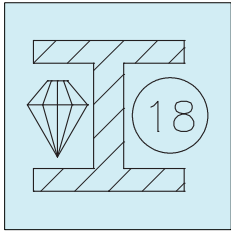


MORSETTI SPECIALI
Special Jaws





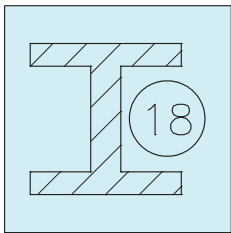


**ACCIAIO 18NiCrMo5 Temprato**

- Acciaio di alta qualità
- Carico unitario di rottura $R_m=1000\div1300$ N/mm²
- Trattamento cementazione e tempra
- Alta durezza superficiale 50÷60 HRc
- Profondità di indurimento 0.5÷1 mm circa

Steel 18NiCrMo5 case hardened

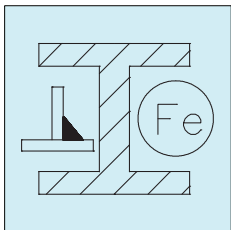
- Steel high quality
- Tensile strength $R_m=1000\div1300$ N/mm²
- High surface hardness of 50÷60 HRc
- Clamping depth of 0.5÷1 mm

**ACCIAIO 18NiCrMo5 da cementazione**

- Acciaio di alta qualità
- Carico unitario di rottura $R_m=1000\div1300$ N/mm²
- Da cementazione e tempra
- Alta durezza superficiale 50÷60 HRc
- Profondità di indurimento 0.5÷1 mm circa

Steel 18NiCrMo5 suitable for case hardening

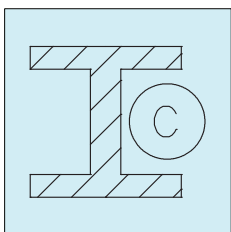
- Steel high quality
- Tensile strength $R_m=1000\div1300$ N/mm²
- High surface hardness of 50÷60 HRc
- Clamping depth of 0.5÷1 mm

**ACCIAIO Fe510D saldabile**

- Acciaio saldabile
- Carico unitario di rottura $R_m=510\div600$ N/mm²

Steel Fe510D weldable

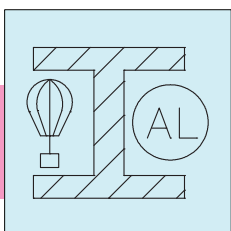
- Steel weldable
- Tensile strength $R_m=510\div600$ N/mm²

**ACCIAIO C45 da tempra ad induzione**

- Acciaio al carbonio
- Carico unitario di rottura $R_m=700\div800$ N/mm²
- Alta durezza superficiale 48÷60 HRc
- Profondità di indurimento 1÷8 mm circa

Steel C45 inductive hardenable

- Carbon steel
- Tensile strength $R=700\div800$ N/mm²
- High surface hardness of 50÷60 HRc
- Clamping depth of 0.5÷1 mm

**ALLUMINIO ERGAL 7075 T6**

- Alluminio di alta qualità
- 3 volte più leggero dell'acciaio
- Carico unitario di rottura $R_m=400\div500$ N/mm²

ALUMINIUM ERGAL 7075 T6

- Aluminium high quality
- Low weight (appr. 3 x lighter than steel)
- Tensile strength $R=400\div500$ N/mm²



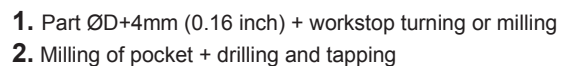
H

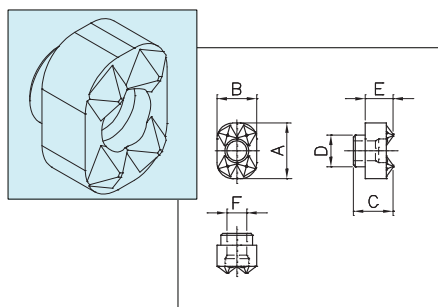


UNIT:mm

Parti incluse: Vite di fissaggio a testa cilindrica M4x12 DIN 912
Part included: Gripper with head socket screw (Cod. N410001)

- ☐ Front mounting of bolt
- ☐ Pull-down effect by wedge shape design
- ☐ Can be used for self-centering or swivelling
- ☐ Gripper deat: Milling,deilling and tapping can easily be machined with the inclined milling tool (cod.C250004)
- ☐ No hardening of jaws necessary
- ☐ For external or internal clamping

A large grid of graph paper, consisting of 20 columns and 20 rows of squares. A vertical pink margin is located on the right side of the grid, spanning the entire height of the page.



UGE 10

UNIT:mm

Code	A	B	C	D	E	F	Kg
Acciaio rapido temprato – Hardened Steel							
C250002	14	10	10	Ø8	7	4.5	

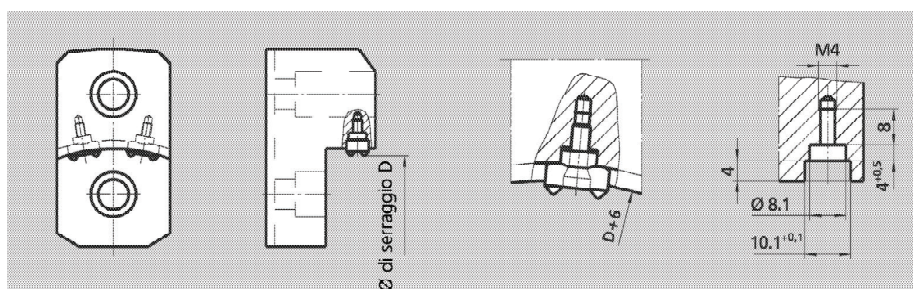
Parti include: Vite di fissaggio a Torx M4x13.5
 Part included: Gripper with Torx screw (Cod.C250003)

Inserto di bloccaggio universale con caratteristiche uniche per serraggio esterno o interno (brevettato):

- ☐ Per superfici di bloccaggio piane o rotonde
- ☐ Per serraggio interno o esterno
- ☐ Superficie di appoggio piana o rotonda
- ☐ Fissaggio anteriore
- ☐ La reallozzazione della sede dell'inserto nel morsetto è estremamente semplice
- ☐ La cementazione + tempra è necessaria

The universal gripper with unique features (patented):

- ☐ For flat and round clamping surfaces
- ☐ For exsternal and internal gripping
- ☐ Front mounting of bolts
- ☐ Gripper seat,round or flat,and thread is easy to produce
- ☐ Hardening of gripper seat necessary

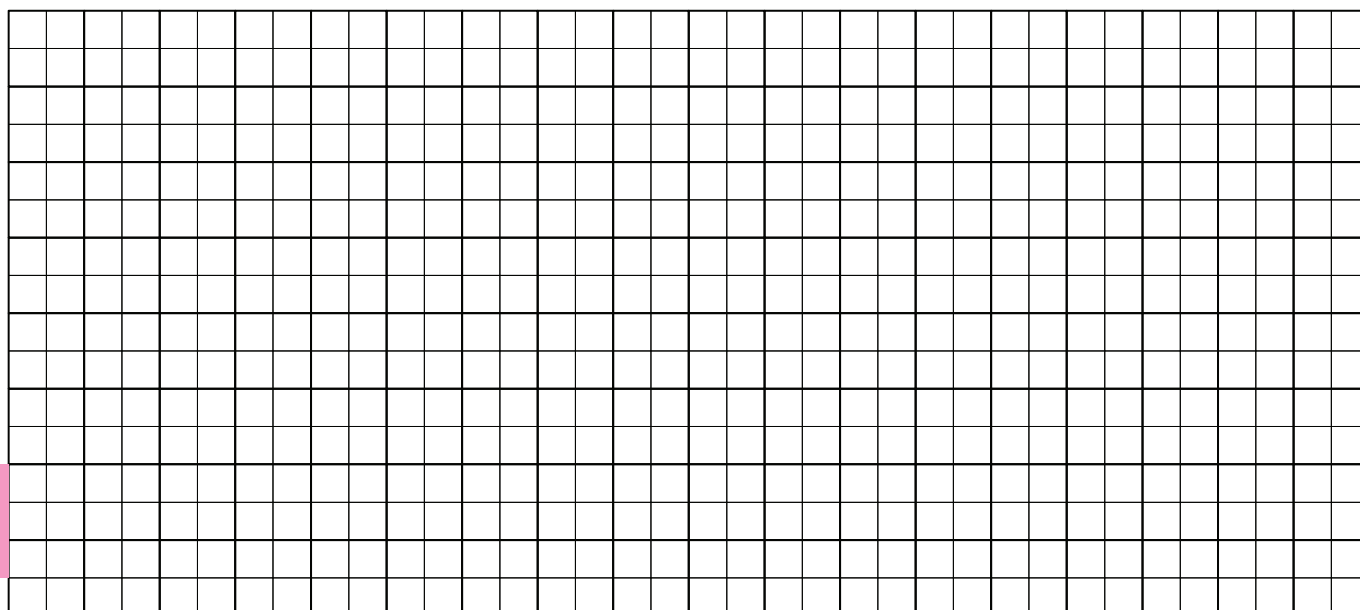


Istruzioni per il montaggio:

1. Tornire o fresare il diametro di serraggio D+6 mm
2. Forare e filettare
3. Cementare e temprare i morsetti

Mounting instruction:

1. Part ØD+6 mm (0.23 inch) + workstop + slot has to be turned or milled
2. Drill and tap
3. Harden jaw



H



NOME SOCIETA':
Company Name: _____

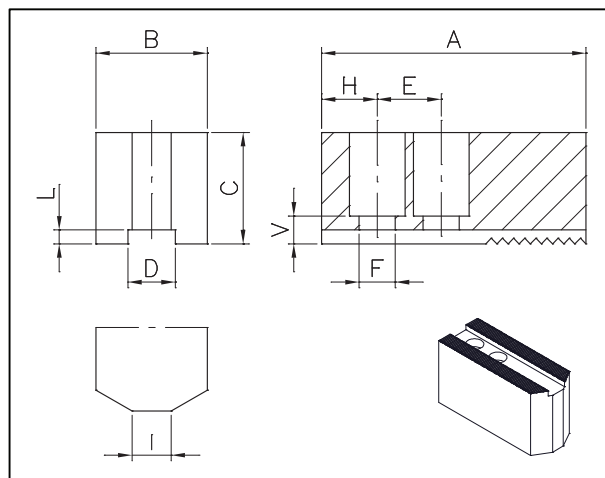
DATA:
Date: _____

IL TUO NOME:
Your Name: _____

TELEFONO:
Phone: _____

QUANTITA' PEZZI:
Quantity pcs: _____

➤ NOTE



MARCA MANDRINO CODICE MODELLO:
Chuck Make & Model Number: _____

PER AIUTARVI A FORNIRE UN SERVIZIO MIGLIORE PER VOI.
Chuck Make & Model Number may help us provide better service to you.

A	B	C	D	E	F	H	I	L	V		

➤ MATERIALE - Material

☐ A Acciaio Steel Fe510D	☐ B Acciaio Steel C45	☐ C Alluminio Aluminium E7075 T6	☐ D Acciaio Steel 18NiCrMo5
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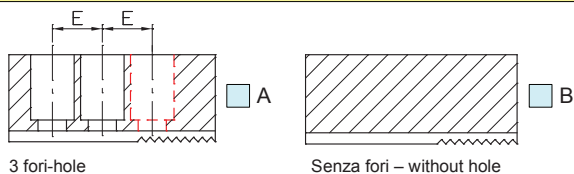
➤ DENTATURA - Serration

☐ 1/16"X90° ☐ 3/32"X90° Imperial	☐ 1.5X60° ☐ 2.5X60° ☐ 3.0X60° Metric
--	--

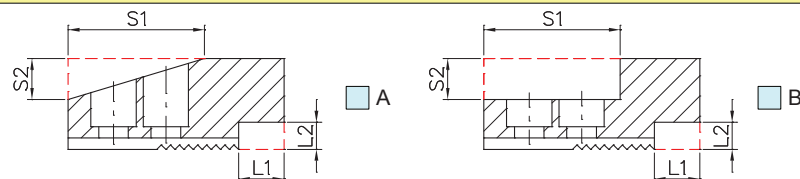
➤ ANGOLO PUNTA - Angle pointed

☐ A Piana - Flat	☐ B	☐ C	☐ D
--	----------------------------	----------------------------	----------------------------

➤ FORATURA - Hole



➤ ALLEGGERIRE - Lighten



S1	S2	L1	L2



NOME SOCIETA':
Company Name: _____

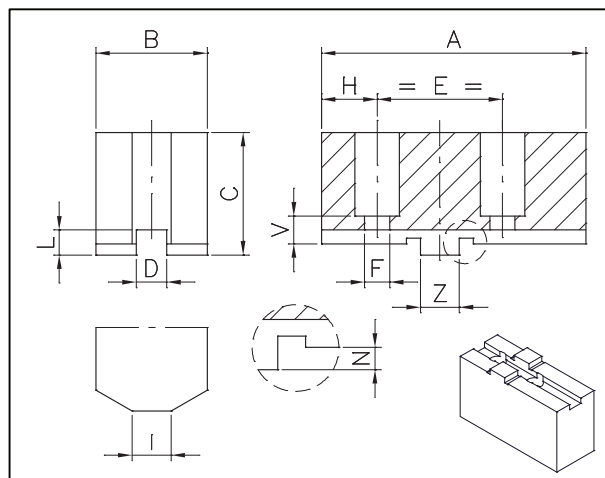
DATA:
Date: _____

IL TUO NOME:
Your Name: _____

TELEFONO:
Phone: _____

QUANTITA' PEZZI:
Quantity pcs: _____

➤ NOTE



MARCA MANDRINO CODICE MODELLO:
Chuck Make & Model Number: _____

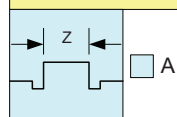
PER AIUTARVI A FORNIRE UN SERVIZIO MIGLIORE PER VOI.
Chuck Make & Model Number may help us provide better service to you.

A	B	C	D	E	F	H	I	L	N	V	Z

➤ MATERIALE - Material

☐ A Acciaio Steel Fe510D	☐ B Acciaio Steel C45	☐ C Alluminio Aluminium E7075 T6	☐ D Acciaio Steel 18NiCrMo5
---	--	---	--

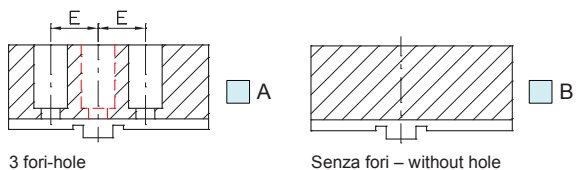
➤ INCASTRO A CROCE – Tongue & Groove



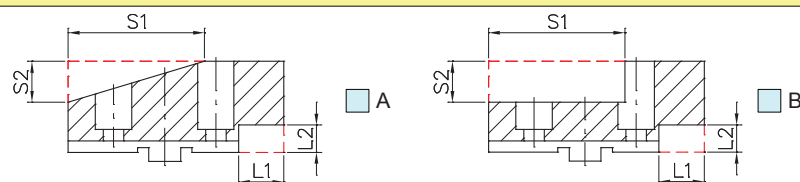
➤ ANGOLO PUNTA - Angle pointed

☐ A	☐ B	☐ C	☐ D
Piana - Flat			

➤ FORATURA - Hole



➤ ALLEGGERIRE - Lighten



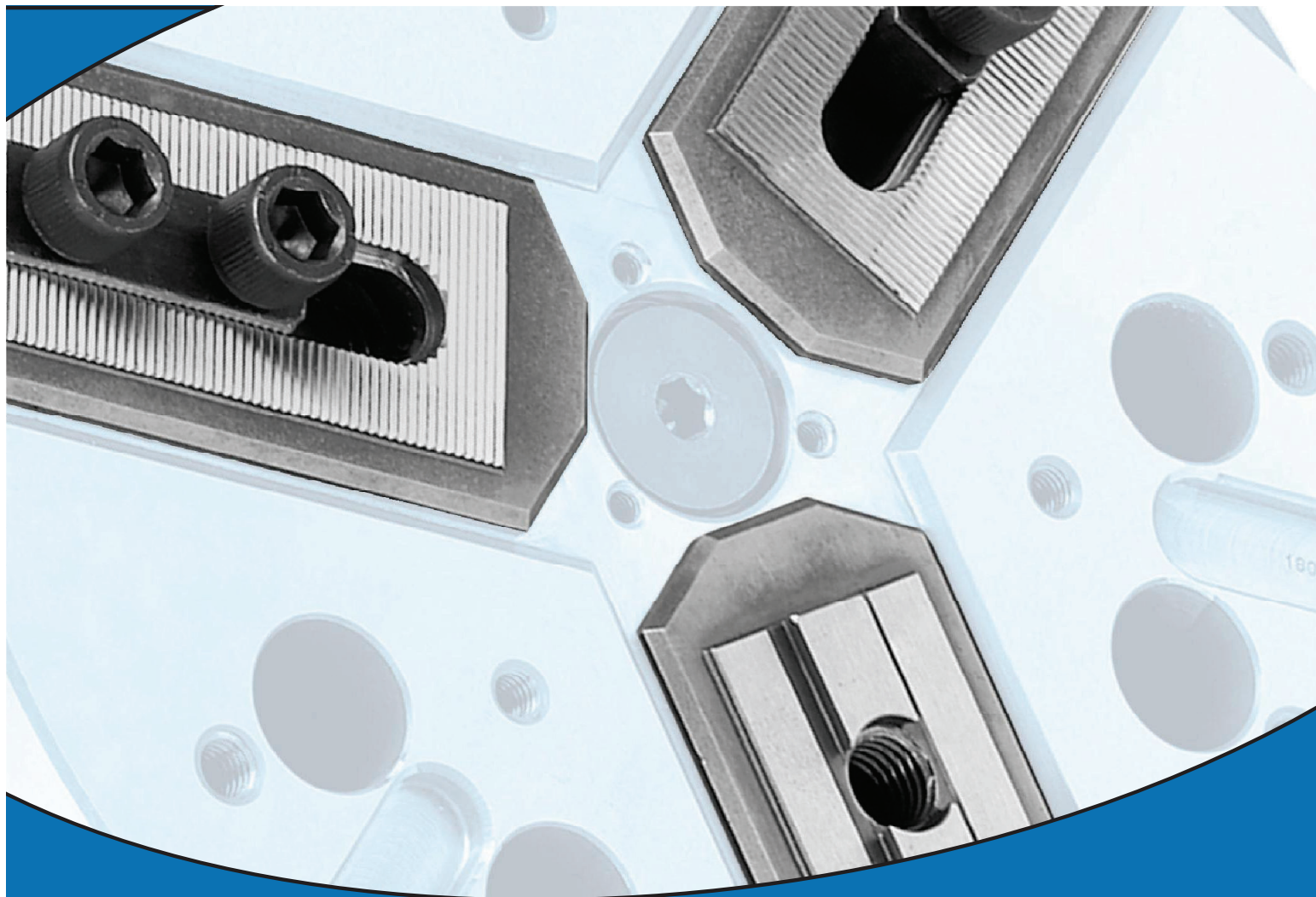
S1	S2	L1	L2



H

MORSETTI

CHUCK JAWS



COSMEC

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Fax +39 045 8510018

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info@cosmec.com

