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3

*Wide range of standard elements
to clamp special applications*

STD - StandardFLEX

Elementi Modulari / Modular Elements

Elementi modulari / Modular Elements

STD / StdFLEX

Elementi indipendenti per una versatilità estrema!

Independent elements for an extreme versatility!

USURA INESISTENTE / NO WEAR

Grazie all'accurata scelta dei materiali impiegati ed allo studio dimensionale computerizzato dei componenti. Costruzione completamente in speciali leghe di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza 58 ± 2 HRC. Tutto ciò al fine di conferire massima rigidità, elevate prestazioni e usura inesistente. A riprova di tutto ciò assicuriamo **5 ANNI DI GARANZIA** su tutto il programma morsa e organi meccanici in genere.

Thanks to the manufacturing with only the most suitable materials and to the structure of the vise components (developed using computer customised softwares and the experience gained during many years spent working on the specific field). High alloyed quality resistance steel, case hardened HRC 58 ± 2 , is used in manufacturing all the Gerardi vises and accessories in order to give maximum rigidity, high performances and no wear. As evidence we give **5 YEARS WARRANTY** on all the vises and mechanical components.

MODULARITÀ / MODULARITY

Tutte le morsed ed accessori sono elementi componibili, intercambiabili e perfettamente allineabili fra loro e con i quali è possibile ottenere differenti soluzioni di bloccaggio. Secondo tale principio l'unico elemento che differenzia le attrezzature con identica larghezza di presa è la base (la cui lunghezza determina la massima apertura della morsa), mentre gli altri componenti sono identici. Mediante l'aggiunta o semplice sostituzione di alcuni particolari si può variare la tipologia di bloccaggio secondo le proprie esigenze utilizzando la stessa attrezzatura acquistata in un primo momento (bloccaggi singoli, con base girevole, doppi, verticali, di pezzi piani, tondi, piatti e grezzi, manuali, idraulici o pneumatici).

All vises and accessories are modular and components of all our vises will interchange with perfect alignment to provide different workholding solutions. With this basic principle the only difference between fixtures with the same width of clamping is the base (whose length determines the maximum opening of the vise), while the rest of components have same dimensions. Through the simple addition or substitution of some particulars You can change the type of clamping as Your needs require using the same fixture purchased before (single clamping, swivel base, double, vertical, smooth or round or flat or rough workpieces, manual, hydraulic or pneumatic).

DESIGN COMPATTO / SPACE SAVING DESIGN

La semplicità nonché la compattezza costruttiva consentono un'apertura notevole rispetto all'ingombro totale dell'attrezzatura. Inoltre lo stesso peso (solo 25 kg per una morsa da 150 mm di larghezza ganascia) è tale da consentire un facile trasferimento da una macchina all'altra.

The space saving design and solid construction allow a maximum blocking ratio to total overall dimension of the vise. Furthermore the weight (only 25 kg for a 150 mm jaw width vise) allows a simple moving from one machine to another.

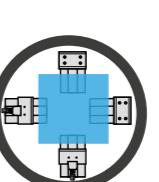
SERRAGGI RAPIDI / QUICK CLAMPING

Grazie allo scorrimento del gruppo di serraggio nella guida della base (a cremagliera) fino in prossimità del pezzo da lavorare dove si adatterà automaticamente alla nicchia più vicina. L'operazione di serraggio si conclude agendo sulla vite di bloccaggio. Oltre a quello manuale meccanico, sono disponibili 4 ulteriori sistemi di serraggio intercambiabili e indipendenti: 1 - Idraulici / 2 - Pneumatici / 3 - Idraulici manuali / 4 - Idraulici elettrici. L'operazione è in termini di secondi.

Thanks to the clamping device sliding in the vise base slide (compact rack type) till the proximity of the workpiece. The clamping is completed with the main screw. Besides the manual mechanic system, 4 further interchangeable and independent clamping systems are available: 1- Hydraulic / 2- Pneumatic / 3- Manual hydraulic / 4- Electrical hydraulic. The change needs only few seconds.



Gli elementi modulari GERARDI sono la parte mobile e la parte fissa della morsa Standard sezionate e rese completamente indipendenti per permettere di ottimizzare i blocchi di pezzi particolarmente grandi, che richiedano le lavorazioni più gravose, sfruttando anche il piano della tavola della macchina come punto di appoggio. Gli elementi modulari sono sicuramente l'esempio più lampante dell'estrema versatilità del sistema modulare Gerardi. La disponibilità di una vastissima gamma di composizioni modulari permette di realizzare con soluzioni standard anche gli allestimenti che credevo speciali.

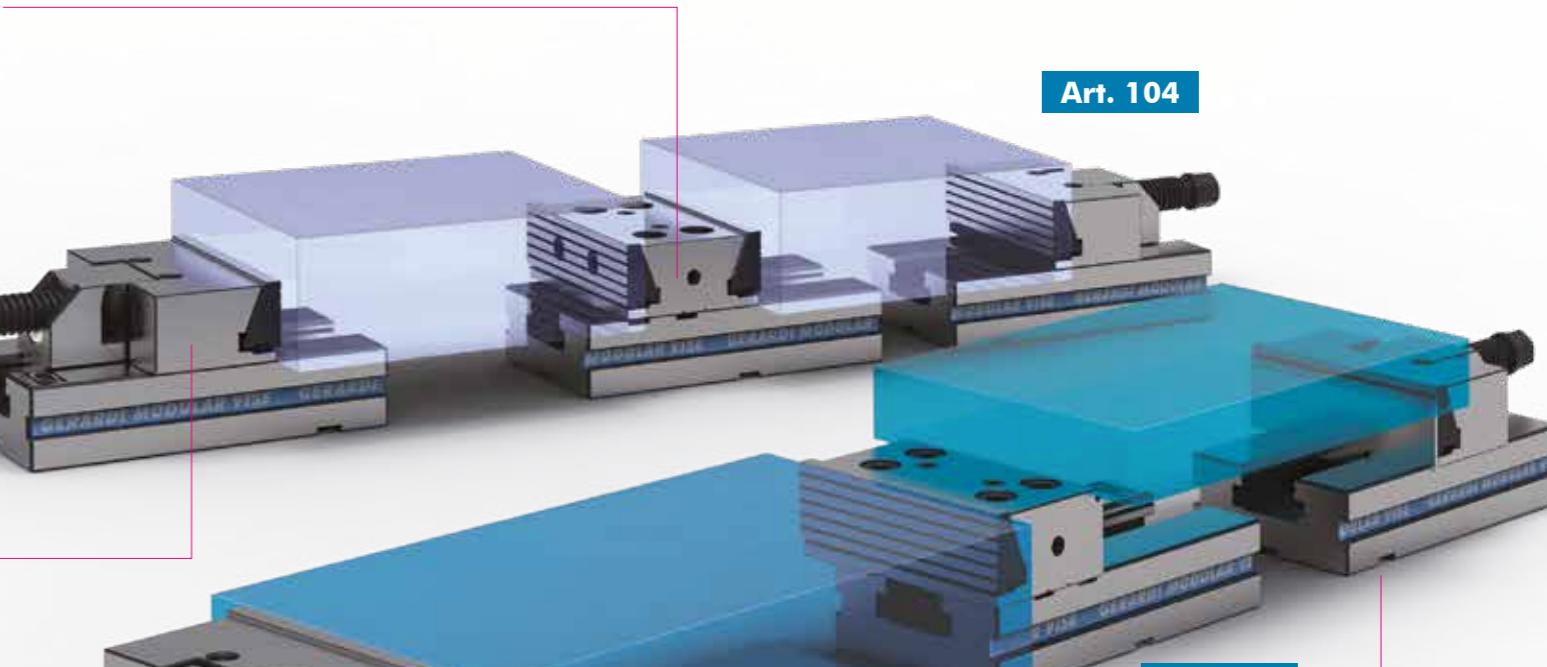
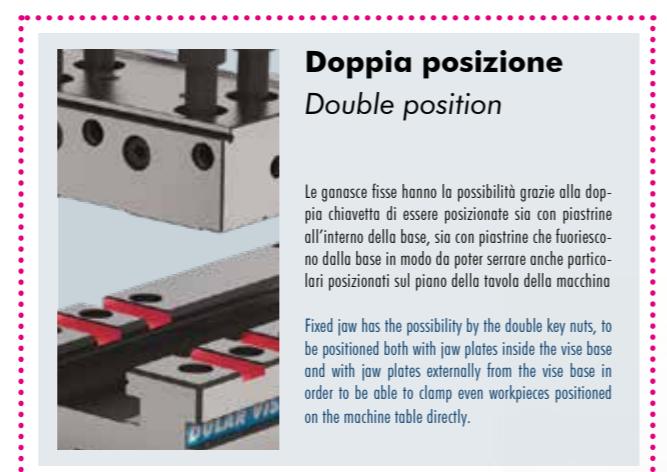


SCAN IT TO WATCH THE
VIDEO PRESENTATION



Ampia gamma di moduli standard per ottenere allestimenti speciali

Wide range of standard elements to clamp special applications



Staffe d'ancoraggio / Vise holding clamps

NEW
22/23

Standard / StandardFLEX

Coppia staffe di fissaggio Art.296, complete di vite e dado a "T"

Pair of vise holding clamps Art.296 complete of screw and "T" nuts

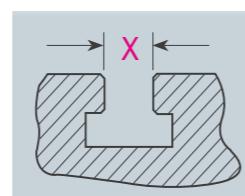


Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: Art.296 T.3 X=18mm

Oppure con codice: 2.29.6300 X=18mm

Order example for Type 3 vise on machine with 18mm T-slots: Art.296 T.3 X=18mm

Also with code: 2.29.6300 X=18mm

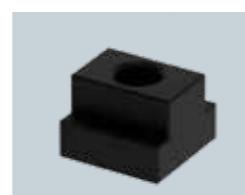


Cava a T

T Slot

Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension



Art.287 (Pag.4.34)

Dadi a T - T Nuts

Per fissaggio morsa alle cave a T della macchina

For vise clamping on the machine T-slots



Art.296

(Art.298 + Art.287)

Consigliate 2 copie di staffe Art.296 per ogni elemento modulare

Suggested 2 pairs of holding clamps Art.296 for each modular element

Tipo (grandezza) morsa Vise type (size)	1	1 - 2		3 - 4		5 - 6															
	Cava a T slot X	12	14	16	18	12*	14	16	16	18	20	18*	20	22	16	18	20	22	18*	20	22
	T-nuts Ref. N°	8	9	10	11	12	13	14	20	21	22	32	33	34	20	21	22	23	32	33	34
Art. 296 Coppia di staffe Holding clamps pair	Screw thread	M8	M10	M12 *	M16	M12 *	M16	M16	M12	M12	M12	M12	M12	M12	M12	M12	M12	M12	M12	M12	M12
1 X M8	A	50	50	50	50	76	76	86	86												
	B	24	24	24	24	30	30	40	40												
	C	6	6	6	6	6	6	10	10												
	Ø D	8,5	11	13	17	13	17	13	17												
	E	10	10	10	10	13	13	15	15												
	Ø F	14	-	-	-	-	-	-	-												
	G	14	16	17,5	19	17	16	26	26												
	G1	17	15	13	9	22	15	27	27												
	H	34	34	34	34	42	42	50	50												
	I	8	10	10	10	-	-	-	-												
	J	4	4	4	4	10	10	10	10												
	T ± 0,1	15	15	15	15	20	20	26	26												
	Cod.	2.29.61000 / M8	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16												
	€	39	39	39	39	50	50	78	78												

* Scelta consigliata - Suggested choice

* Scelta NON consigliata - NO Suggested choice

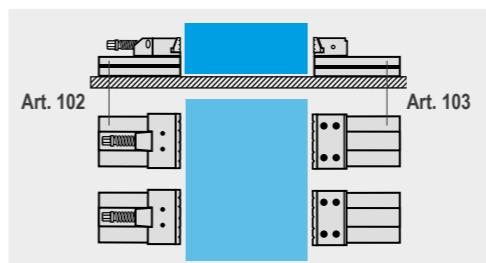
NEW
22/23

Soluzioni personalizzate / Customized solutions

Modular elements

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

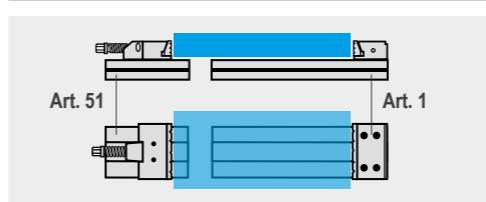


Esempio #1

Example #1

Particolari di grosse dimensioni posizionati direttamente sulla tavola macchina

Huge workpieces clamped directly on the machine table

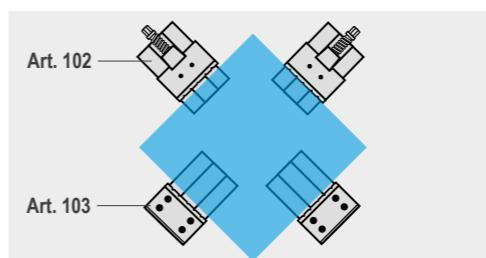


Esempio #2 Art.1+51

Example #2 Art.1 + 51

Art.258 + Art.127 inseriti in un elemento di prolunga Art.51

Art.258 + Art.127 to assemble them on a extension base Art.51

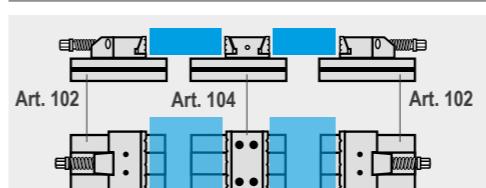


Esempio #3

Example #3

Particolari di medie dimensioni posizionati sugli elementi modulari

Medium size workpieces clamped directly on the vise sections

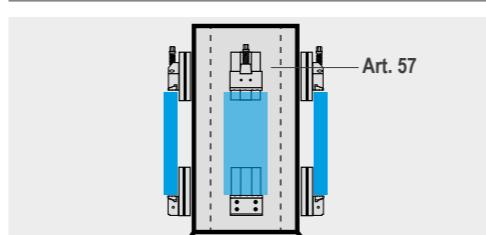


Esempio #4

Example #4

Elemento fisso doppio Art.104 + 2 elementi mobili Art.102

Double fixed vise section Art.104 + 2 movable vise section Art.102



Esempio #5

Example #5

Elementi modulari su cubo a croce Art. 57

Modular elements assembled on cross cube type Art.57



Utilizzo non conforme

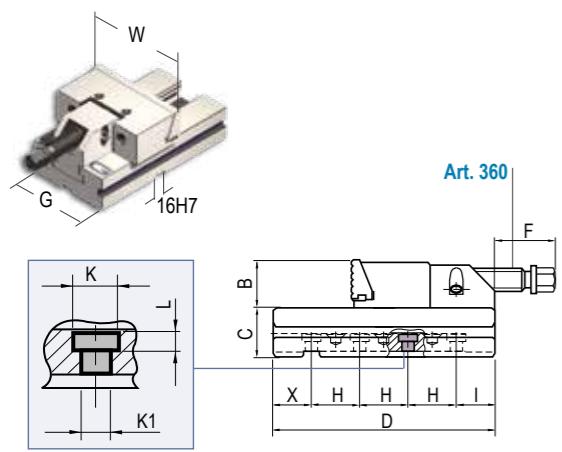
Non compliant use

NON utilizzare gli elementi modulari in modo indipendente su due unità Zero Point senza collegarli tra di loro con una piastra d'interfaccia

NEVER mount modular elements independently on two Zero Point units without connecting them with an interface plate

Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3	4	5	6	
		16 kN	25 kN	30 kN	30 kN	40 kN	40 kN	
Art. 102		W	100	125	150	175	200	300
Blocco tenditore completo di base. Movable jaw section and base assy.		B	30	40	50	60	65	80
		C	35	40	50	58	70	78
		D	140	160	230	240	300	350
		F	55	83	82	62	92	70
		G	75	95	125	145	170	195
		H	40	40	50	50	100	100
		I	29	39	40	82,5	50	83
		K1 Ø	6,5	8,5	13	13	17	17
		K Ø	10,5	13,5	19	19	26	26
		L	4,5	5,5	8,5	8,5	17	17
		X	31	41	40	57,5	50	67
		kg	3,4	6,3	14,2	20,8	35	60
		M	3	3	4	3	5	5
		Cod.	2.10.21000	2.10.22000	2.10.23000	2.10.24000	2.10.25000	2.10.26000

Blocco tenditore completo di base.
Movable jaw section and base assy.

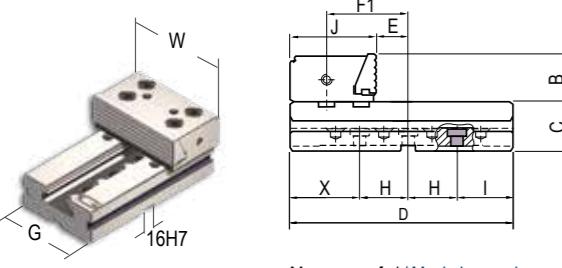


M = numero fori / M = holes number

Disponibile anche versione Art.112 con piastre piane - Also available Art.112 version with straight plate jaws

Art. 103	J	77,9	77,9	89,4	96,9	113,4	120,4
Blocco fisso con ganascia fissa STD. Fixed jaw section and base STD.	E	33,6	33,6	33,6	33,6	33,6	33,6
	F1	76	76	84,5	89	100	107
	X	31	31	72,5	79	45	52
	H	40	40	50	50	100	100
	I	29	49	57,5	61	55	98
	kg	3,3	5,8	12,6	17,8	29,8	50,5
	M	3	3	3	4	5	5
	Cod.	2.10.31000	2.10.32000	2.10.33000	2.10.34000	2.10.35000	2.10.36000

Blocco fisso con ganascia fissa STD.
Fixed jaw section and base STD.

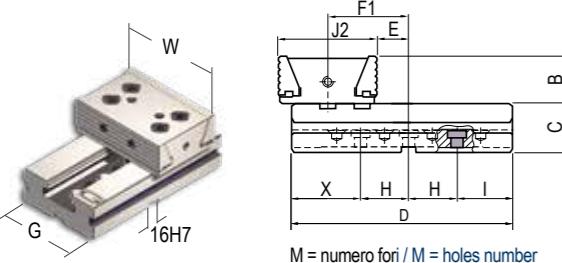


M = numero fori / M = holes number

Disponibile anche versione Art.113 con piastre piane - Also available Art.113 version with straight plate jaws

Art. 104	J2	84,8	84,8	101,8	110,8	132,8	146,8
Blocco fisso con ganascia doppia STD. Fixed double jaw section and base STD.	E	33,6	33,6	33,6	33,6	33,6	33,6
	F1	76	76	84,5	89	100	107
	X	61	21	72,5	29	45	52
	H1	50	50	50	50	100	100
	I	29	49	57,5	61	55	98
	kg	3,3	5,8	12,6	17,8	29,8	50,5
	M	2	2	3	4	3	3
	Cod.	2.10.41000	2.10.42000	2.10.43000	2.10.44000	2.10.45000	2.10.46000

Blocco fisso con ganascia doppia STD.
Fixed double jaw section and base STD.



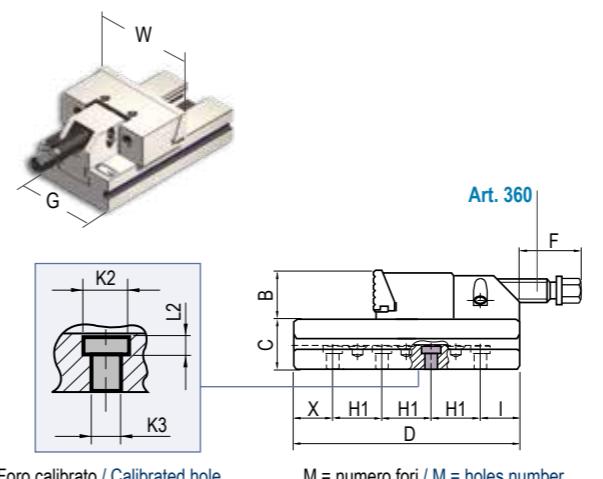
Disponibile anche versione Art.114 con piastre piane - Also available Art.114 version with straight plate jaws

Art.	Pag.
Art. 102	4.29
Art. 103	4.29
Art. 104	4.36
Art. 120	4.8
Art. 123	4.8
Art. 127	4.8
Art. 230	4.9
Art. 248	4.9
Art. 258	4.36
Art. 282	4.36

Datazione standard:
■ 1 coppia di tasselli di posizionamento Art. 297
Standard equipment:
■ 1 pair of positioning key-nuts Art. 297

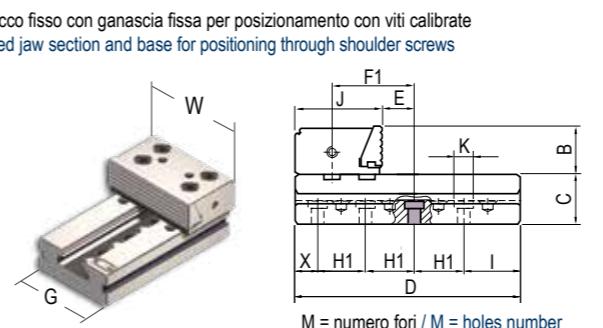
Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3	4	5	6	
		16 kN	25 kN	30 kN	30 kN	40 kN	40 kN	
Art. 102A a reticolo / grid *		W	100	125	150	175	200	300
Blocco tenditore completo di base per posizionamento con viti calibrate Movable jaw section and base assy for positioning through shoulder screws		B	30	40	50	60	65	80
		C	35	40	50	58	70	78
		D	140	160	230	240	300	350
		F	55	83	82	62	92	70
		G	75	95	125	145	170	195
		H1	50	50	50	50	100	100
		I	54	39	40	57,5	69	83
		K2 Ø	25	25	25	25	25	25
		K3 Ø	16 F7					
		L2	8	8	10	10	10	10
		X	36	21	40	32,5	31	67
		kg	3,4	6,3	14,2	20,8	35	60
		M	2	3	4	4	3	3
		Cod.	2.10.2A100	2.10.2A200	2.10.2A300	2.10.2A400	2.10.2A500	2.10.2A600

Blocco tenditore completo di base per posizionamento con viti calibrate
Movable jaw section and base assy for positioning through shoulder screws



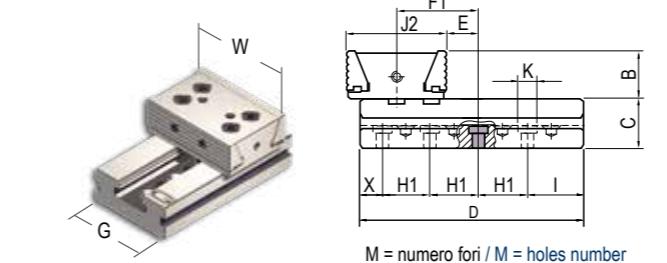
M = numero fori / M = holes number

Foro calibrato / Calibrated hole



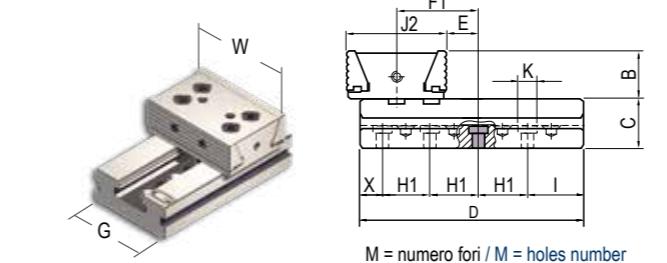
M = numero fori / M = holes number

Disponibile anche versione Art.112 con piastre piane - Also available Art.112 version with straight plate jaws

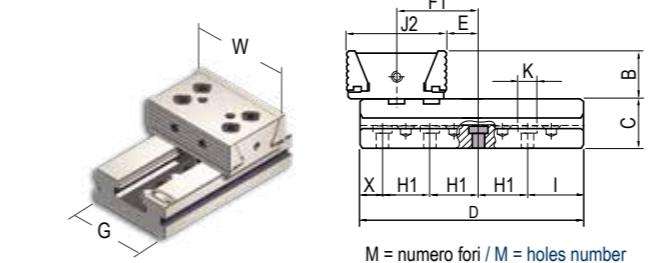


M = numero fori / M = holes number

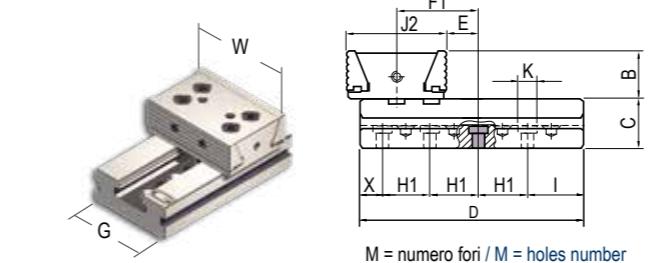
Disponibile anche versione Art.113 con piastre piane - Also available Art.113 version with straight plate jaws



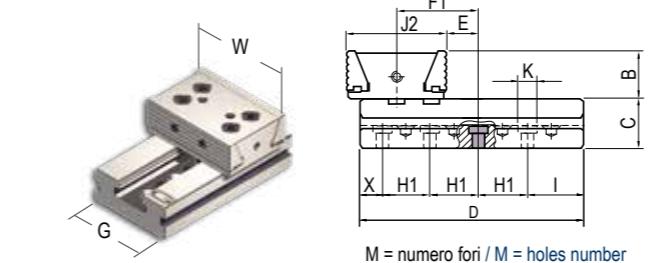
Disponibile anche versione Art.114 con piastre piane - Also available Art.114 version with straight plate jaws

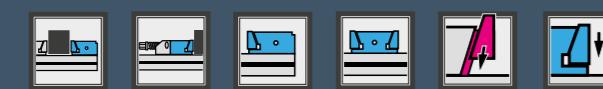


M = numero fori / M = holes number

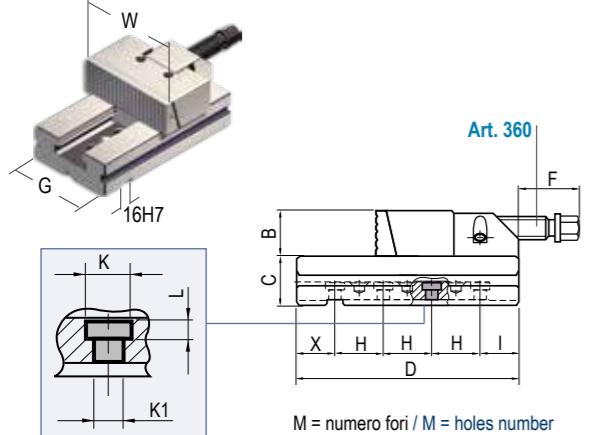


Disponibile anche versione Art.114 con piastre piane - Also available Art.114 version with straight plate jaws

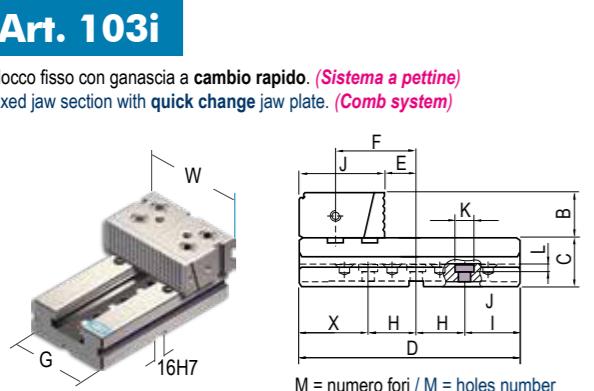




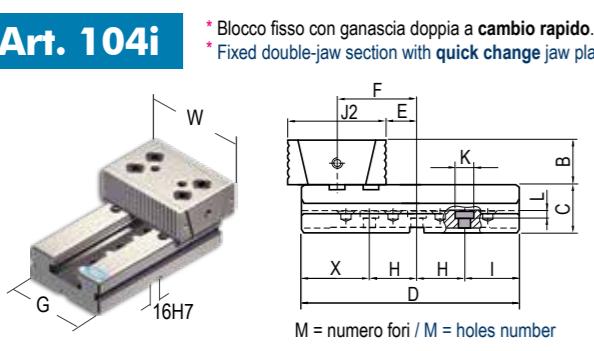
Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3	4	5	6	
		16 kN	25 kN	30 kN	30 kN	40 kN	40 kN	
Art. 102i		W	96	121	146	171	196	296
	B	28	38	48	58	63	78	
	C	35	40	50	58	70	78	
	D	140	160	230	240	300	350	
	F	55	83	82	62	92	70	
	G	75	95	125	145	170	195	
	H	40	40	50	50	100	100	
	I	29	39	40	82,5	69	83	
	K1 Ø	6,5	8,5	13	13	17	17	
	KØ	10,5	13,5	19	19	26	26	
	L	4,5	5,5	8,5	8,5	17	17	
	X	31	41	40	57,5	31	67	
	kg	3,4	6,3	14,2	20,8	35	60	
	M	3	3	4	3	5	5	
	Cod.	3.10.2i100	3.10.2i200	3.10.2i300	3.10.2i400	3.10.2i500	3.10.2i600	



J	77,9	77,9	89,4	96,9	113,4	120,4
E	33,6	33,6	33,6	33,6	33,6	33,6
F	76	76	84,5	89	100	107
X	31	31	72,5	29	45	52
H	40	40	50	50	100	100
I	29	49	57,5	61	55	98
kg	3,3	5,8	12,6	17,8	29,8	50,5
M	3	3	3	4	5	5
Cod.	3.10.3i100	3.10.3i200	3.10.3i300	3.10.3i400	3.10.3i500	3.10.3i600



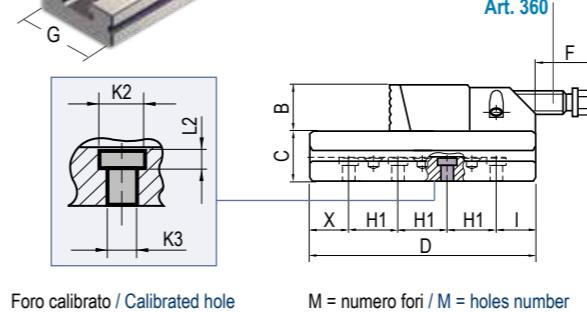
J2	84,8	84,8	101,8	110,8	132,8	146,8
E	33,6	33,6	33,6	33,6	33,6	33,6
kg	3,4	6	13,3	18,8	30	52,5
M	3	3	3	4	5	5
Cod.	3.10.4i100	3.10.4i200	3.10.4i300	3.10.4i400	3.10.4i500	3.10.4i600



Art. 102i	Art. 103i	Art. 104i	Art.	Pag.
Art. 258	Art. 127A	Art. 120A	303A	4.30
360 282 361 410	801I 306B 306A 230D	605G1 605G2 605G3 605G1	44	3.12
		380	44A	3.12
		380	51	3.12
		380	51A	3.12
		380	120A	4.20
		380	123A	4.20
		380	127A	4.20
		380	230D	4.21
		380	258	4.36
		380	282	4.36
		380	300A	4.30
		380	605G1	4.22
		380	605G2	4.22
		380	605G3	4.22
		380	801I	5.61

Dotazione standard:
 ■ 1 coppia di tasselli di posizionamento Art. 297 + 2 tappi Art. 291
 Standard equipment:
 ■ 1 pair of positioning key-nuts Art. 297 + 2 insert Art. 291

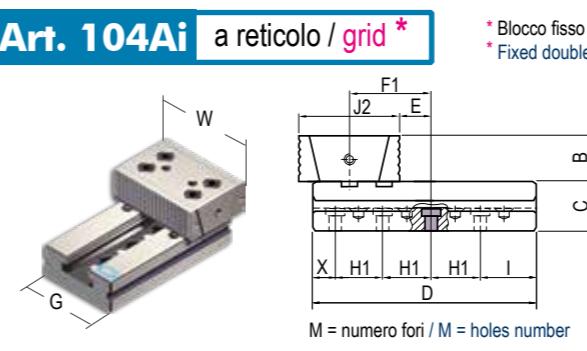
Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3	4	5	6
		16 kN	25 kN	30 kN	30 kN	40 kN	40 kN
Art. 102Ai		W	96	121	146	171	296
	B	28	38	48	58	63	78
	C	35	40	50	58	70	78
	D	140	160	230	240	300	350
	F	55	83	82	62	92	70
	G	75	95	125	145	170	195
	H1	50	50	50	50	100	100
	I	54	39	40	57,5	69	83
	K3 Ø	16 F7					
	K2 Ø	25	25	25	25	25	25
	L2	8	8	10	10	10	10
	X	36	21	40	32,5	31	67
	kg	3,4	6,3	14,2	20,8	35	60
	M	2	3	4	4	3	3
	Cod.	3.10.2Ai10	3.10.2Ai20	3.10.2Ai30	3.10.2Ai40	3.10.2Ai50	3.10.2Ai60



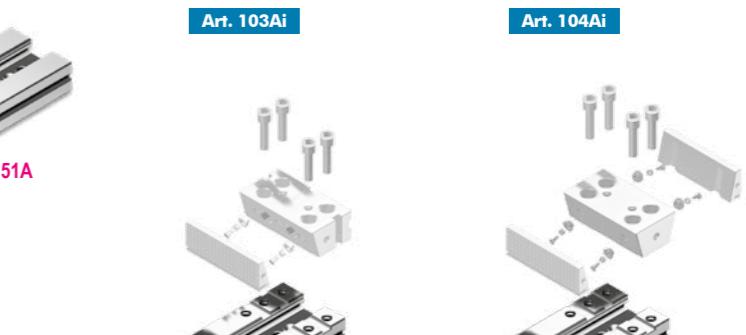
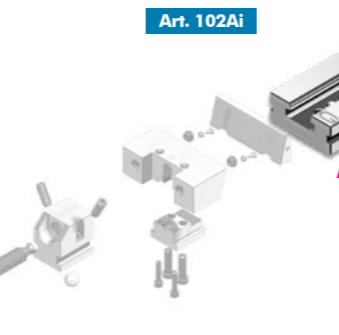
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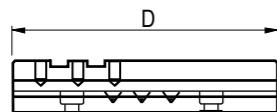


ELEMENTI MODULARI BASE / Supplemento Extra per ogni foro calibrato +92€

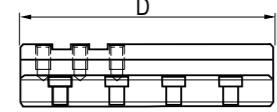
BASIC MODULAR UNITS / Extra supplement for each ground hole +92€

Tipo (grandezza) / Type (size)

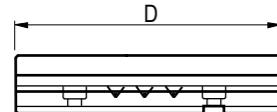
Art. 44

Slitline base per ganascia fissa
Split base for fixed jaw

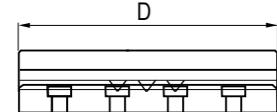
Art. 44A

Slitline base a reticolo (Passo 50 mm, Ø 16 per blocco fisso)
Split grid (50 mm) pitch, Ø 16 base for fixed section

Art. 51

Elemento di prolunga base per
ganascia mobile
Base extension for
movable jaw

Art. 51A

Elemento di prolunga base a reticolo
(Passo 50 mm, Ø 16)
Grid (50 mm) pitch, Ø 16
base extension
ACCESSORI
ACCESSORIES

Tipo (grandezza) / Type (size)

Art. 358 Barra di tensione / Tension bar

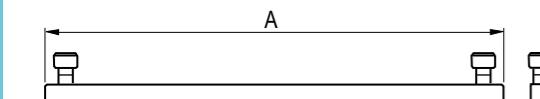
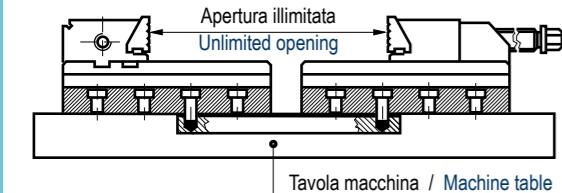
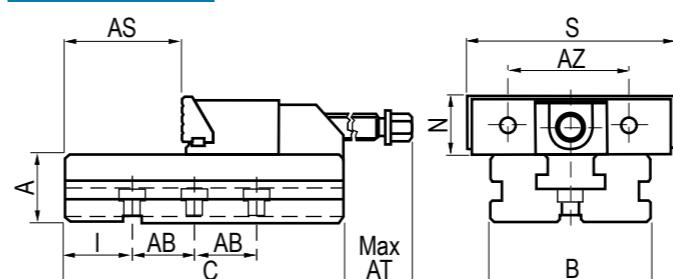
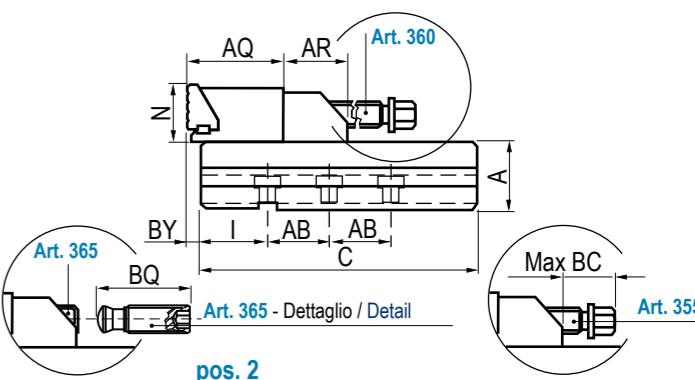
Accessori per Art. 51 e 102
A richiesta altre larghezze senza variazione di prezzoAccessories for Art. 51 and 102
Other widths available on request without price change

Tavola macchina / Machine table

Art. 102

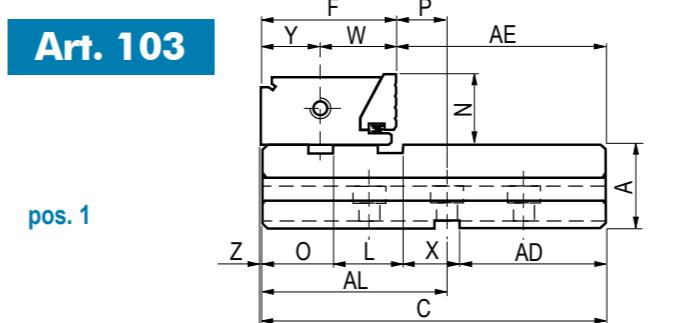


pos. 1

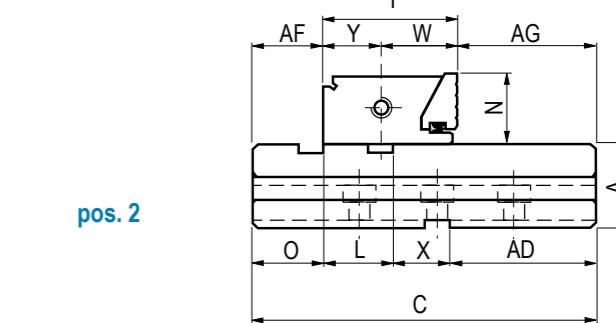


pos. 2

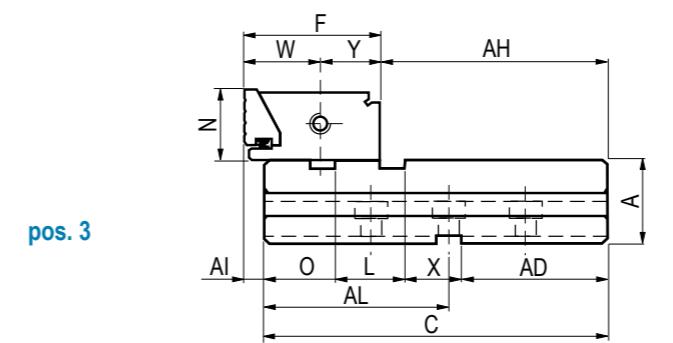
Art. 103



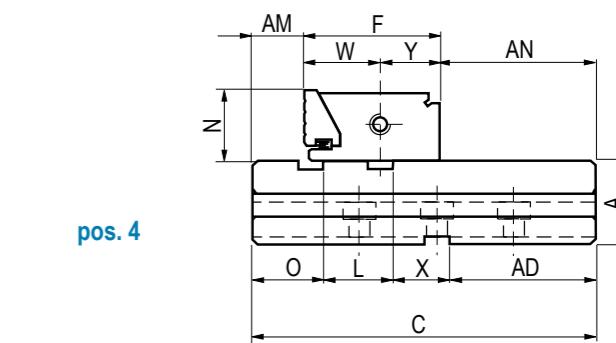
pos. 1



pos. 2

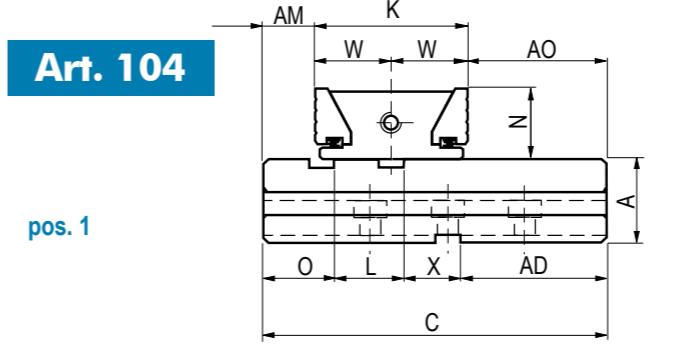


pos. 3

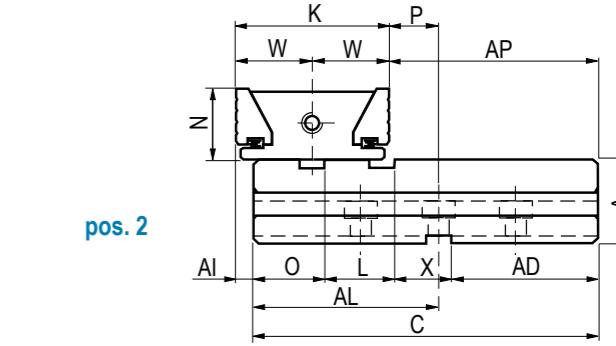


pos. 4

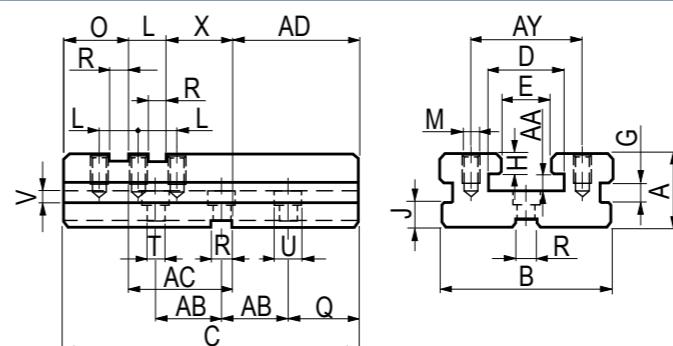
Art. 104



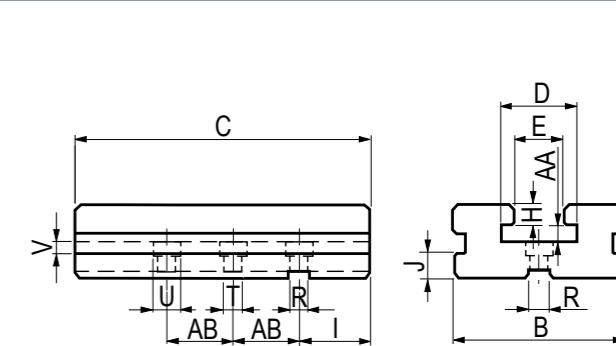
pos. 1



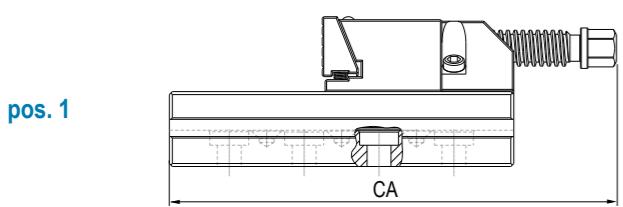
pos. 2



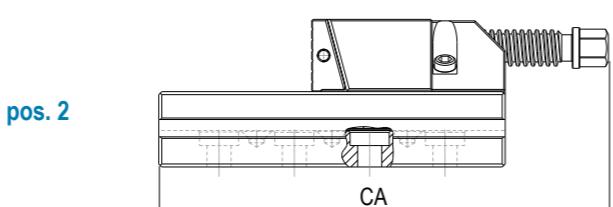
Art. 44



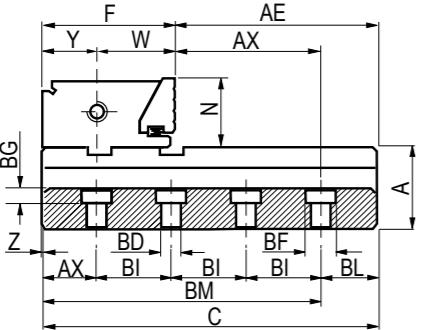
Art. 51

Art. 102A

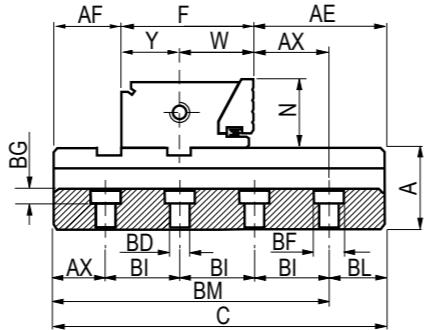
pos. 1

Art. 102Ai

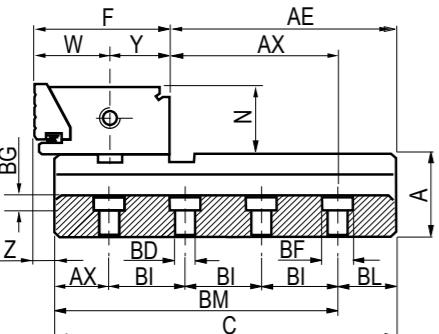
pos. 2

Art. 103A

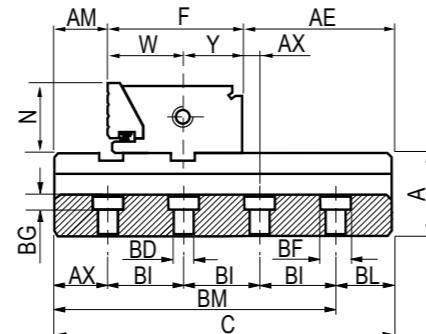
pos. 1



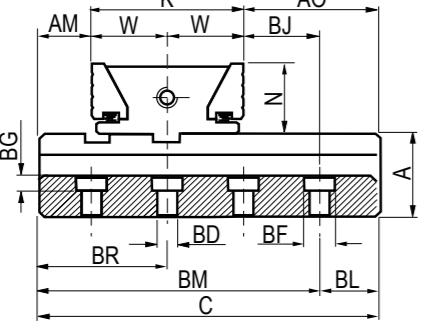
pos. 2



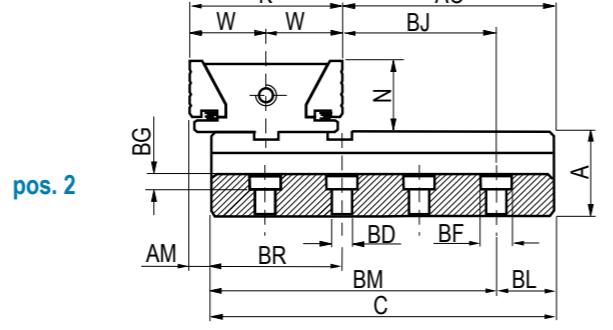
pos. 3



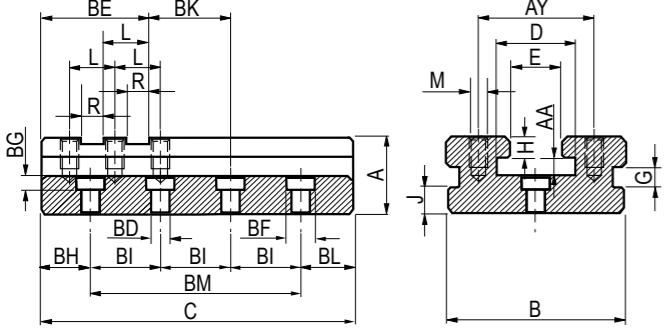
pos. 4

Art. 104A

pos. 1



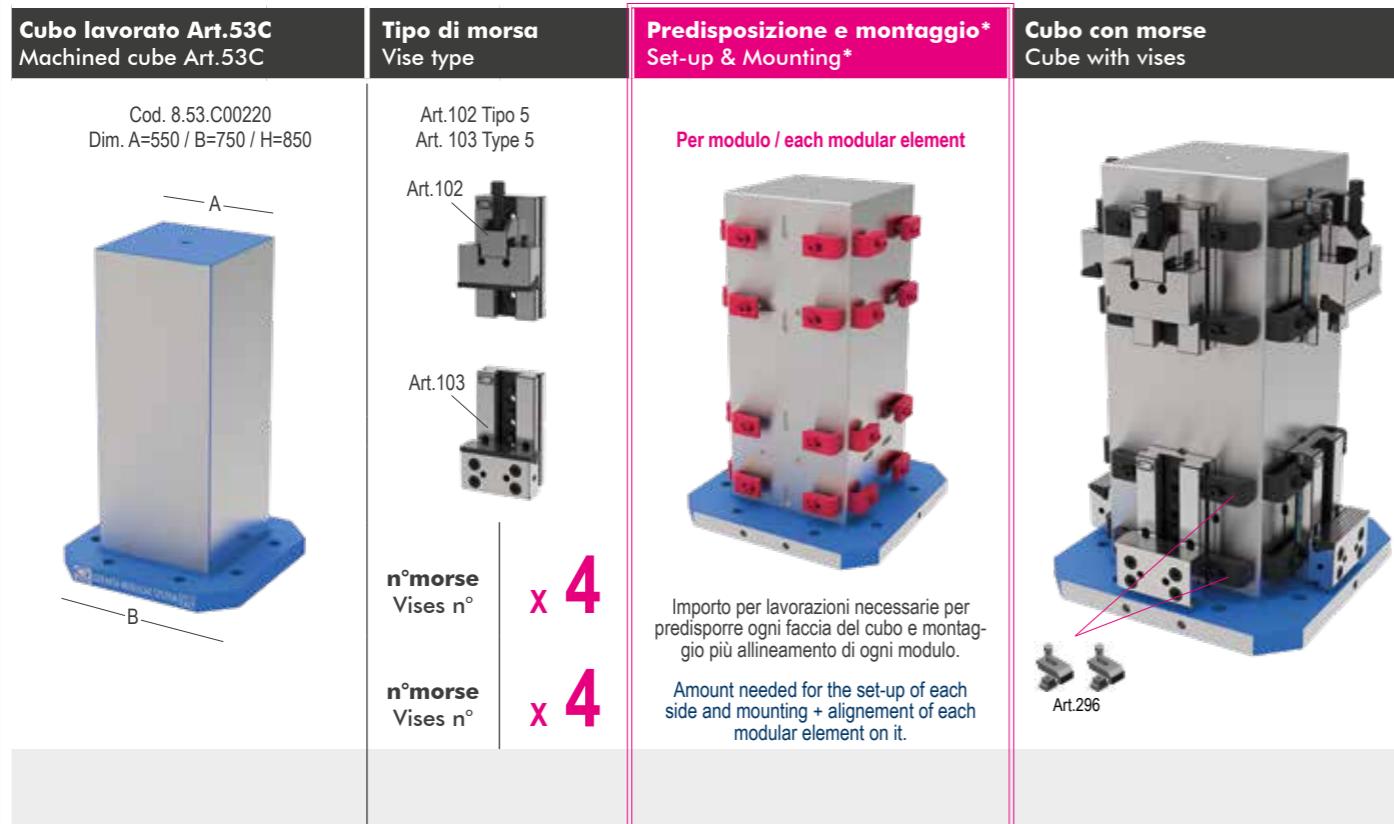
pos. 2

Art. 44A

Tipo (grandezza) morsa / Vise (type) size

mm	1	2	3	4	5	6	Tolleranza Tolerance	mm	1	2	3	4	5	6	Tolleranza Tolerance
A	35	40	50	58	70	78	-0.02	AV	29	49	107.5	111	155	198	
B	75	95	125	145	170	195	-0.02	AW	111	111	122.5	129	145	152	
C	140	160	230	240	300	350		AX	33.6	33.6	33.6	33.6	33.6	33.6	±0.02
D	31	41	57	70	80	90		AY	50	62	88	100	120	133	
E	21	28	41	51	61	71	+0.02	AZ	62	80	90	116	138	184	
F	77.9	77.9	89.4	96.9	113.4	120.4	-0.04	BA							
G	9.5	9.5	11.5	11.5	17.5	17.5		BB	20	32	50	50	76	90	
H	10	10	13	15	20	20	-0.02	BC	45	38	47	32	52	55	
I	31	41	40	57.5	31	67		BD	16	16	16	16	16	16	F7
J	15	15	20	20	26	26		BE	75	75	82	84	97	97	
K	84.8	84.8	101.8	101.8	132.8	146.8	-0.04	BF	20.5	25	25	25	25	25	
L	32	32	36	36	44	44	-0.02	BG	8	8	10	10	10	10	
M	M10	M12	M14	M16	M20	M20		BH	36	21	40	32.5	31	67	
N	30	40	50	60	65	80	±0.02	BI	50	50	50	50	50	50	±0.01
O	43	43	46	48	53	53		BJ	33.6	33.6	33.6	33.6	33.6	33.6	±0.02
P	33.6	33.6	33.6	33.6	33.6	33.6	±0.02	BK	36	36	40.5	45	48	55	±0.01
Q	29	49	157.5	61	55	98		BL	29	39	40	57.5	69	83	
R	16	16	16	16	16	16	H7	BM	111	121	190	182.5	231	267	
S	100	125	150	175	200	300		BN	320	320	400	400	500	500	
T	6.5	8.5	13	13	17	17		BO	11	11	18	18	20	20	
U	10.5	13.5	19	19	26	26		BP	24.6	24.6	23.1	20.6	22.6	15.6	
V	4.5	5.5	8.5	8.5	17	17		BQ	35	35	38	40	45	45	
W	42.4	42.4	50.9	55.4	66.4	73.4	±0.02	BR	67	67	74	76	89	89	
X	44	44	48.5	53	56	63	±0.02	BS	12	12	12	12	12	12	F7
Y	35.5	35.5	35.5	41.5	47	47	±0.02	BT	20	20	20	20	20	20	
Z	0.5	0.5	0.5	1.5	2	2		BU	8	8	8	8	8	8	
AA	10	10	12	18	18	18	+0.04	BV	31	31	42.5	49	65	72	
AB	40	40	50	50	100	100		BW	100	100	150	150	200	200	±0.01
AC	76	76	84.5	89	100	107	-0.02	3xØ16	3xØ16	4xØ16	4xØ16	3xØ16	3xØ16		
AD	21	41	99.5	103	147	190		BX	10	10	15	15	20	20	
AE	62.6	82.6	141.6	144.6	188.6	231.6		BY	10	10	15	20	25	30	
AF	31.5	31.5	35.5	35.5	42	42		BZ	40	40	40	40	40	40	±0.01
AG	30.6	50.6	105.1	108.6	144.6	187.6		CA	195	228	312	302	392	420	
AH	69.5	89.5	153.5	158.5	208	258		CB							
AI	7.4	7.4	12.9	15.4	21.4	28.4		CC	20	20	25	25	25	25	
AJ	36	36	40.5	45	48	55	±0.1	CD	M6	M8	M12	M12	M16	M16	
AK	80	80	120	120	160	240	±0.01	CE	9	12	18	24	24	24	
AL	111	111	122.5	129	145	152		CF	15	15	20	20	30	30	
AM	24.6	24.6	23.6	20.6	22.6	15.6		CG	4	5	12	12	16	16	
AN	37.5	57.5	117.5	122.5	164.	214									
AO	30.6	50.6	105.1	108.6	144.6	187.6									
AP	62.6	82.6	141.6	144.6	188.6	231.6									
AQ	50	60	80	90	100	120									
AR	32	51	48	68	78	94									
AS	28	49	102	82	122	136									
AT	55	68	82	62	92	70									
AU	45	38	47	27	52	45									

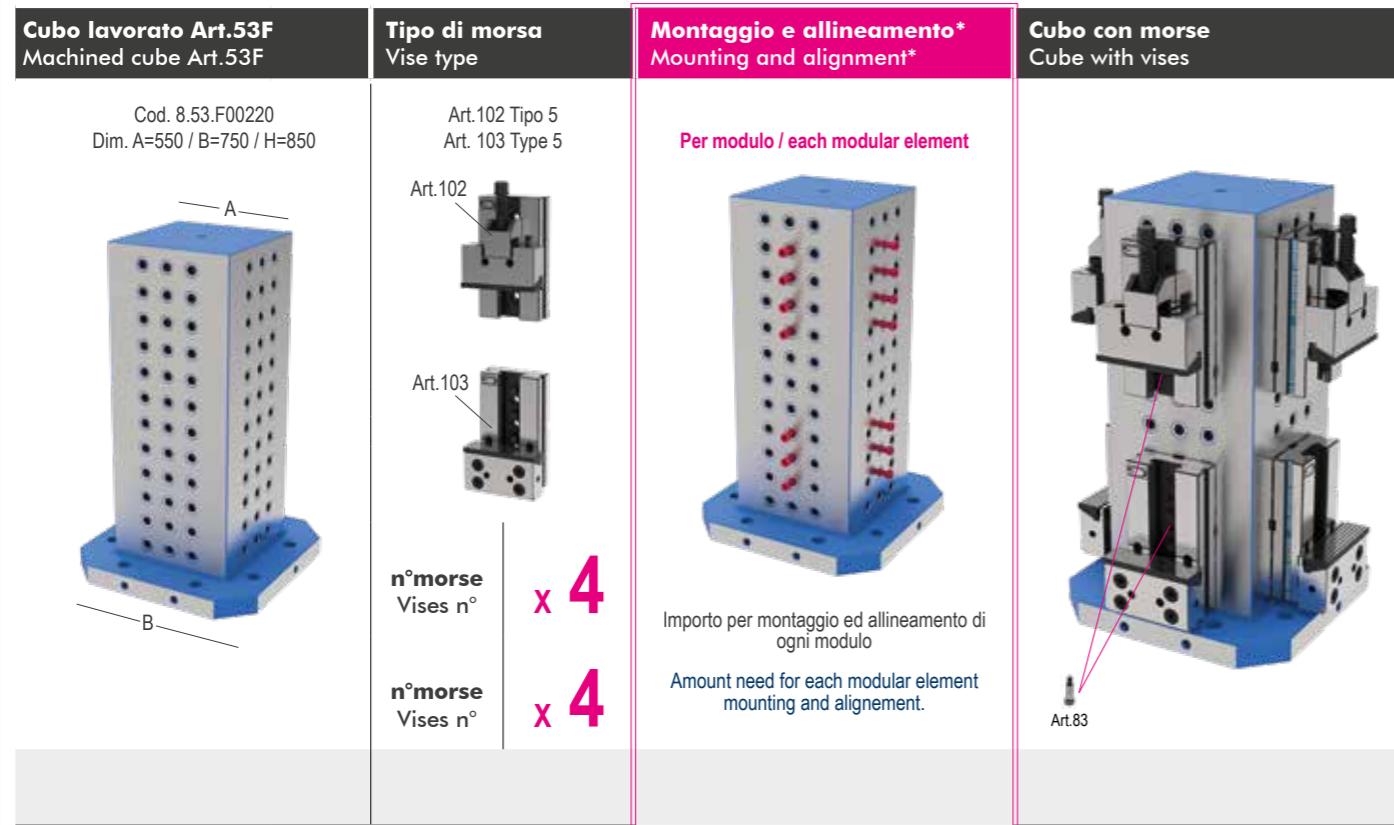
PREDISPOSIZIONE e MONTAGGIO ELEMENTI MODULARI su CUBI LAVORATI CUBE SET UP and MODULAR ELEMENTS MOUNTING on MACHINED TOMBSTONES



* Predisposizione 4 facce, montaggio ed allineamento morse incluso di viti, chiavette, staffe e quant'altro necessario.

4 Faces set-up, vises mounting including screws, keyways, holding clamps and all the necessary equipment.

MONTAGGIO e ALLINEAMENTO ELEMENTI MODULARI su CUBI a RETICOLO ALIGNEMENT and MODULAR ELEMENTS MOUNTING on GRID TOMBSTONES



* Montaggio e allineamento 4 morsie inclusi di viti, chiavette, staffe e quant'altro necessario.

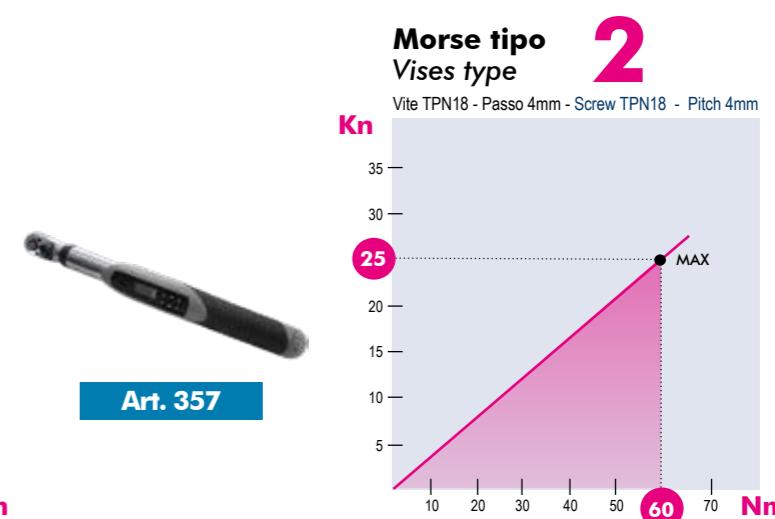
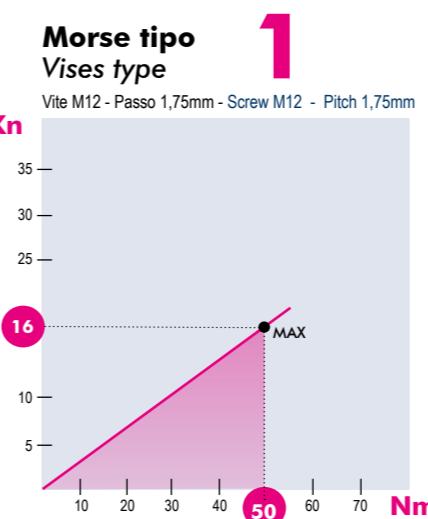
4 vises mounting and alignment includes screws, keyways, holding clamps and all the necessary equipment.

Diagrammi di serraggio / Clamping diagrams

Modular elements

Diagrammi di serraggio meccanico con chiave dinamometrica

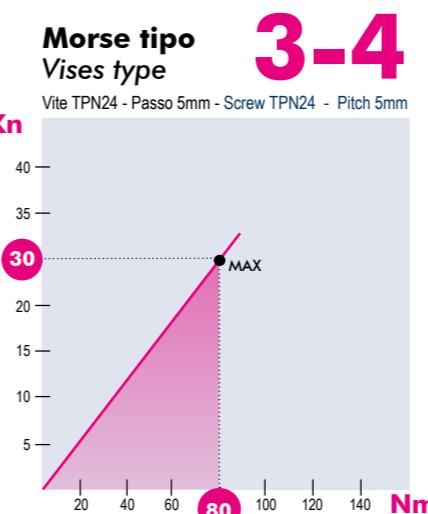
Mechanical clamping diagrams with torque wrench



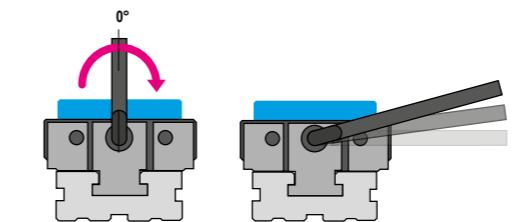
Art. 357

Gruppi di serraggio meccanici (Art. 258 e simili) / Mechanical clamping devices (Art. 258 and similar)

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morsie di varia grandezza (da 1 a 6), in funzione del momento applicato
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) depending on the torque



Art. 357



Serrare il pezzo agendo sulla vite di spinta con la chiave in dotazione senza utilizzare tubi o martelli.
Attenzione: nel serraggio basta 1/4 di giro della chiave dal momento in cui la ganascia tocca il particolare.
Clamp the workpiece turning clockwise the main spindle through the box wrench without using tubes or hammers. Attention: for the right clamping operation 1/4 of a turn of the box wrench is enough

Type (Size)	1	2	3	4	5	6	Valori indicativi Kn raggiunte a 90°
Kn	12	26	36	46	50	50	Kn indicative values at 90°

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a ± 10%. Per un corretto utilizzo non superare i valori indicati nel grafico
Some factors as lubrication, clamping on the machine table, frictions and more can modify above values within a ± 10% range. For optimum operation do not exceed chart values.

CONTROLLO ALLINEAMENTO TRA CAVA TRASVERSALE E GANASCIA FISSA

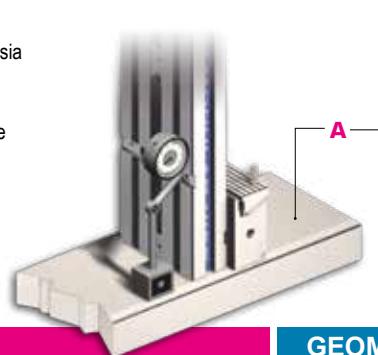
ALIGNEMENT BETWEEN THE CROSS KEYWAY AND THE FIXED JAW PLATE



Libretto Istruzioni / Instruction Book

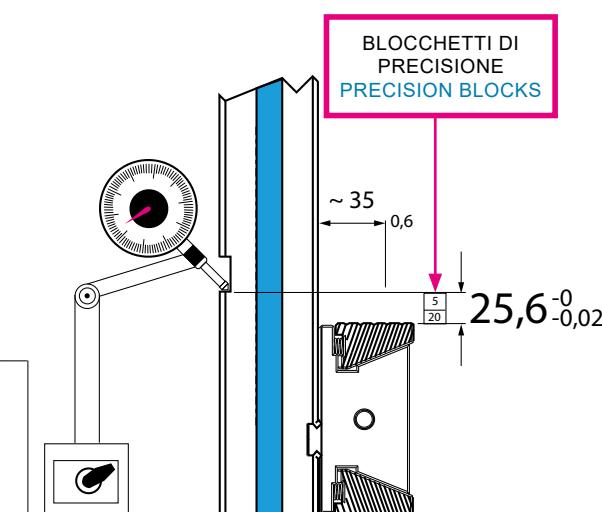
Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions



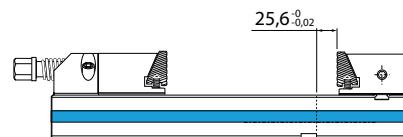
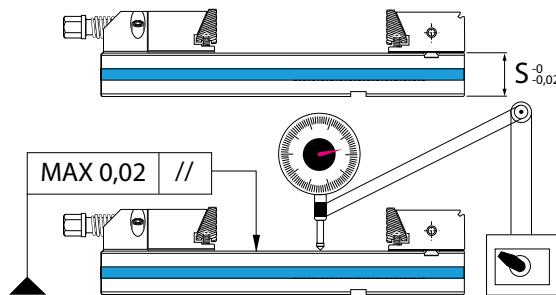
Posizionare la morsa verticalmente assicurandosi che sia perfettamente parallela al piano di appoggio **A** nei due sensi. Successivamente, con un comparatore centesimale, controllare il parallelismo del piano cava e della ganascia fissa.

Set the vise vertically ensuring that it is perfectly at parallel to the table **A** in both sides. Then with an indicator check the parallelism of the keyway and its alignment with the fixed jaw plate.



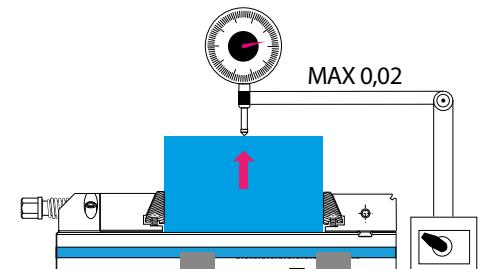
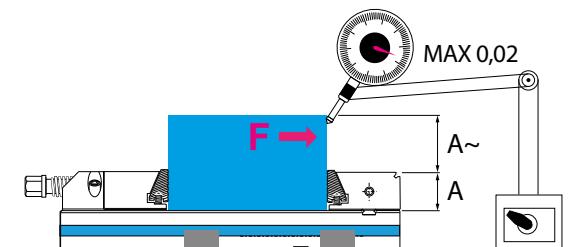
TOLLERANZE GEOMETRICHE

GEOMETRIC ACCURACIES



TOLLERANZE DINAMICHE

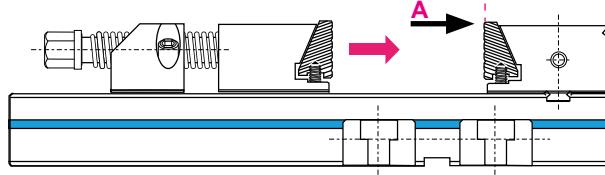
DYNAMIC ACCURACIES



Morsa ancorata con 2 coppie di staffe Art.296 / Vise clamped with n. 2 pairs of Art.296

Valori di flessione nel punto "A" in relazione alle forze di serraggio **PER MORSE TIPO 3**
Deflection values at "A" in relation to clamping powers **FOR TYPE 3 VISES**

$$1 \text{ kgf} \cdot \text{m} = 9.806 \text{ Nm}$$



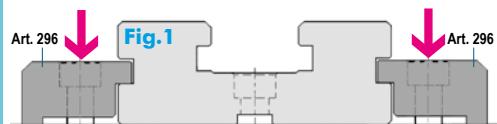
Kn	mm
60	0.1
50	0.07
40	0.05
30	0.03
20	0.02
10	0.01
5	0.004
2	0.002

Il sistema consigliato per l'ancoraggio della morsa sulla tavola macchina è tramite STAFFE Art.296. (Fig.1)

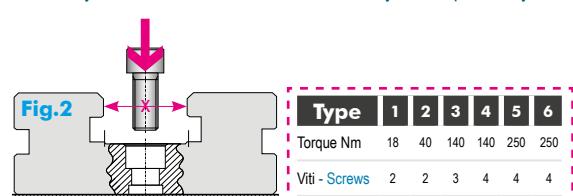
E' possibile ancorare la morsa tramite viti centrali, ma in questo caso la quota X potrebbe flettere e compromettere lo scorrimento della ganascia mobile. (Fig.2)
Nella tabella seguente sono riportati i valori di coppia massima applicabile mediante chiave dinamometrica

We recommend to fix the vises to the machine table using clamps Art. 296. (Fig. 1) The vise can be also fixed by means of central screws, but, this way, the X quota may suffer a bending and compromise the sliding of the movable jaws. (Fig. 2)

In the following table you can find the maximum torque values applicable through torque wrench.



Vite / Screw	M8	M10	M12	M16
Torque Nm	40	80	140	345



Type	1	2	3	4	5	6
Torque Nm	18	40	140	140	250	250
Viti - Screws	2	2	3	4	4	4