

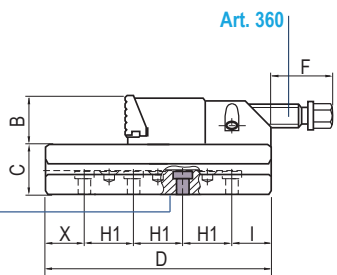
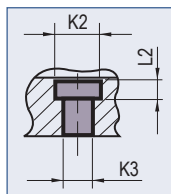
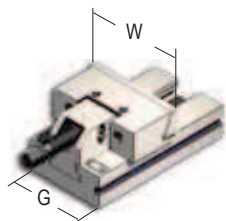


Tipo (grandezza) morsa / Vise (type) size

	1	2	3	4	5	6
	16 kN	25 kN	30 kN	30 kN	40 kN	40 kN
W	100	125	150	175	200	300
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}	16 ^{F7}	16 ^{F7}	16 ^{F7}	16 ^{F7}	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

Art. 102A a reticolo / grid *

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

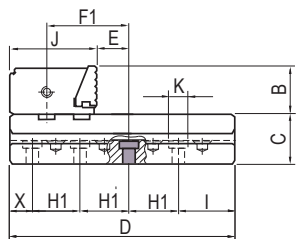
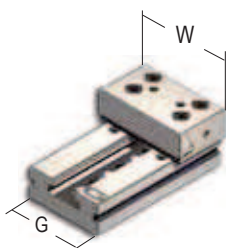


Foro calibrato / Calibrated hole

M = numero fori / M = holes number

Art. 103A a reticolo / grid *

Blocco fisso con ganaschia fissa per posizionamento con viti calibrate
 Fixed jaw section and base for positioning through ground screws

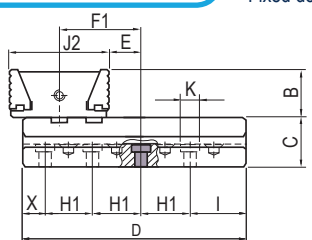
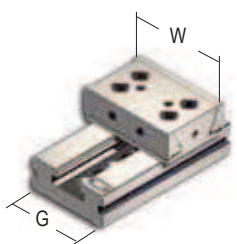


M = numero fori / M = holes number

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
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.	2.10.3A100	2.10.3A200	2.10.3A300	2.10.3A400	2.10.3A500	2.10.3A600

Art. 104A a reticolo / grid *

Blocco fisso con ganaschia doppia per posizionamento con viti calibrate
 Fixed double jaw section and base for positioning through ground screws



M = numero fori / M = holes number

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	2	3	3	4	3	3
Cod.	2.10.4A100	2.10.4A200	2.10.4A300	2.10.4A400	2.10.4A500	2.10.4A600

Art.	Pag.
300	4.21
303	4.21
306	4.21
360	4.28
361	4.28
362	4.20
380	4.20
381	4.20
383	4.20
410	4.28
-	

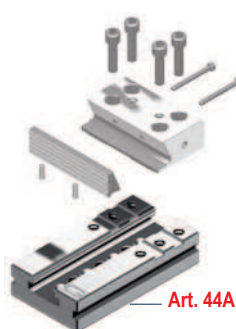
Art. 102A



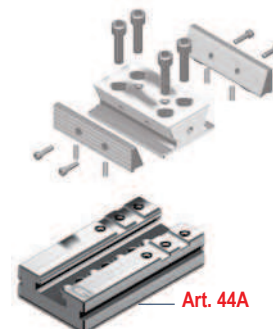
Senza alcuna dotazione
 Without accessory equipment

A richiesta: vite calibrata Art. 83 o 83B
 On request: calibrated screw Art. 83 or 83B

Art. 103A

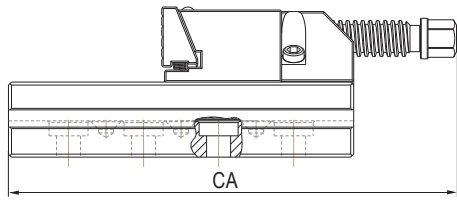


Art. 104A



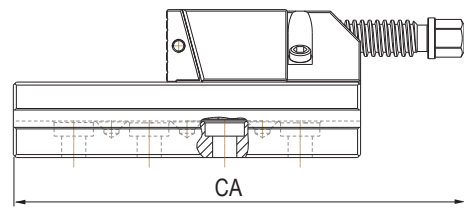
* Passo del reticolo = 50 mm - Vite calibrata Ø 16F7 Pitch of grid = 50 mm - Calibrated screw Ø 16F7

Art. 102A



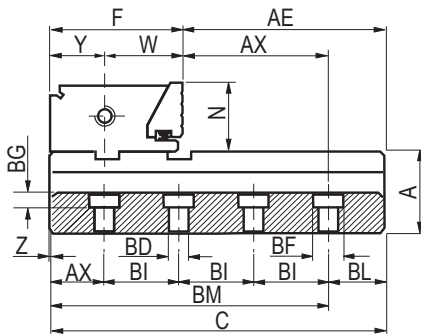
Art. 102A pos. 1

Art. 102Ai

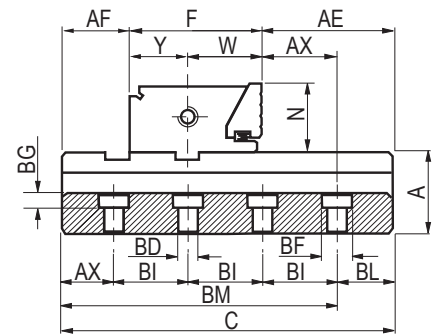


Art. 102Ai pos. 1

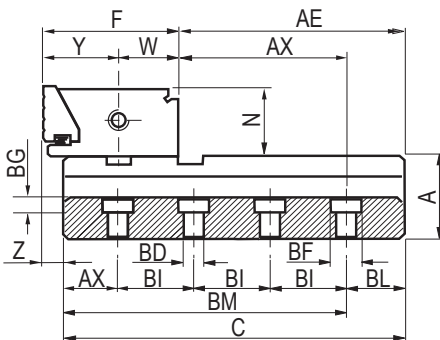
Art. 103A



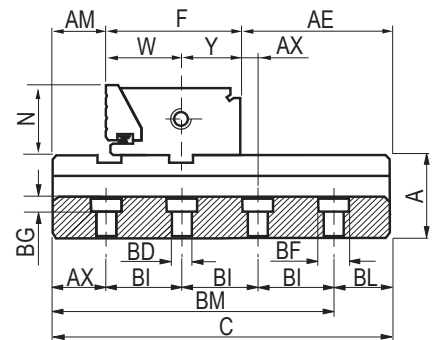
Art. 103A pos. 1



Art. 103A pos. 2

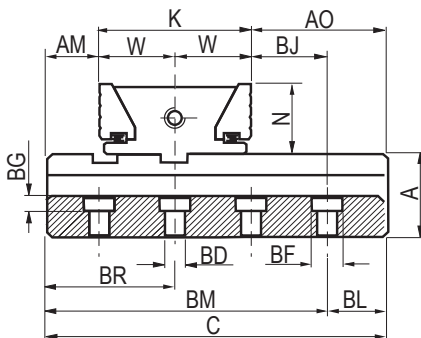


Art. 103A pos. 3

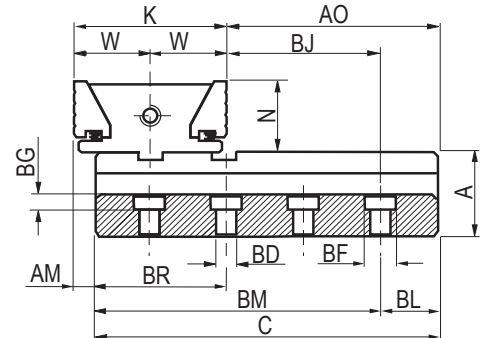


Art. 103A pos. 4

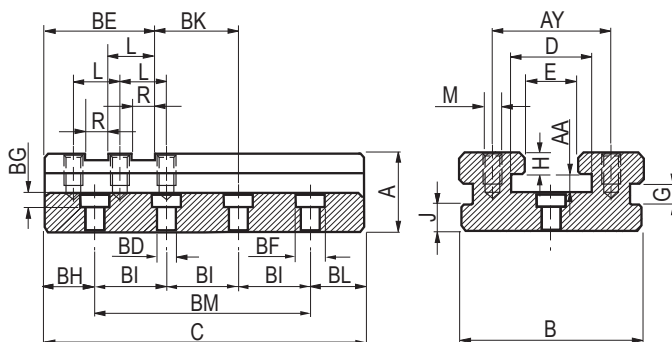
Art. 104A



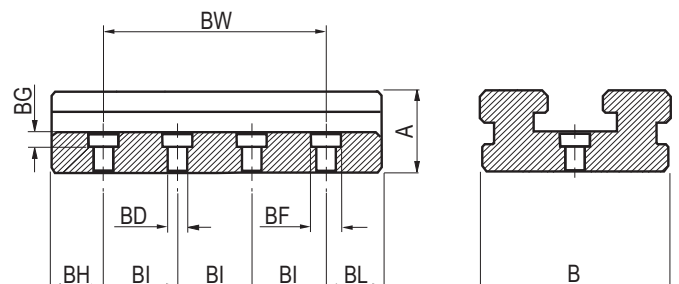
Art. 104A pos. 1



Art. 104A pos. 2



Art. 44A



Art. 51A

Tipo (grandezza) morsa / Vise (type) size

mm	1	2	3	4	5	6	Tolleranza Tolerance
A	35	40	50	58	70	78	- 0.02
B	75	95	125	145	170	195	- 0.02
C	140	160	230	240	300	350	
D	31	41	57	70	80	90	
E	21	28	41	51	61	71	+ 0.02
F	77.9	77.9	89.4	96.9	113.4	120.4	- 0.04
G	9.5	9.5	11.5	11.5	17.5	17.5	
H	10	10	13	15	20	20	- 0.02
I	31	41	40	57.5	31	67	
J	15	15	20	20	26	26	
K	84.8	84.8	101.8	101.8	132.8	146.8	- 0.04
L	32	32	36	36	44	44	- 0.02
M	M10	M12	M14	M16	M20	M20	
N	30	40	50	60	65	80	± 0.02
O	43	43	46	48	53	53	
P	33.6	33.6	33.6	33.6	33.6	33.6	± 0.02
Q	29	49	157.5	61	55	98	
R	16	16	16	16	16	16	H7
S	100	125	150	175	200	300	
T	6.5	8.5	13	13	17	17	
U	10.5	13.5	19	19	26	26	
V	4.5	5.5	8.5	8.5	17	17	
W	42.4	42.4	50.9	55.4	66.4	73.4	± 0.02
X	44	44	48.5	53	56	63	± 0.02
Y	35.5	35.5	35.5	41.5	47	47	± 0.02
Z	0.5	0.5	0.5	1.5	2	2	
AA	10	10	12	18	18	18	+ 0.04
AB	40	40	50	50	100	100	
AC	76	76	84.5	89	100	107	- 0.02
AD	21	41	99.5	103	147	190	
AE	62.6	82.6	141.6	144.6	188.6	231.6	
AF	31.5	31.5	35.5	35.5	42	42	
AG	30.6	50.6	105.1	108.6	144.6	187.6	
AH	69.5	89.5	153.5	158.5	208	258	
AI	7.4	7.4	12.9	15.4	21.4	28.4	
AJ	36	36	40.5	45	48	55	± 0.1
AK	80	80	120	120	160	240	± 0.01
	3 x Ø12	3 x Ø12	4 x Ø12	4 x Ø12	3 x Ø12	4 x Ø12	
AL	111	111	122.5	129	145	152	
AM	24.6	24.6	23.6	20.6	22.6	15.6	
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	

Tipo (grandezza) morsa / Vise (type) size

mm	1	2	3	4	5	6	Tolleranza Tolerance
AV	29	49	107.5	111	155	198	
AW	111	111	122.5	129	145	152	
AX	33.6	33.6	33.6	33.6	33.6	33.6	± 0.02
AY	50	62	88	100	120	133	
AZ	62	80	90	116	138	184	
BA							
BB	20	32	50	50	76	90	
BC	45	38	47	32	52	55	
BD	16	16	16	16	16	16	F7
BE	75	75	82	84	97	97	
BF	20.5	25	25	25	25	25	
BG	8	8	10	10	10	10	
BH	36	21	40	32.5	31	67	
BI	50	50	50	50	50	50	± 0.01
BJ	33.6	33.6	33.6	33.6	33.6	33.6	± 0.02
BK	36	36	40.5	45	48	55	± 0.01
BL	29	39	40	57.5	69	83	
BM	111	121	190	182.5	231	267	
BN	320	320	400	400	500	500	
BO	11	11	18	18	20	20	
BP	24.6	24.6	23.1	20.6	22.6	15.6	
BQ	35	35	38	40	45	45	
BR	67	67	74	76	89	89	
BS	12	12	12	12	12	12	F7
BT	20	20	20	20	20	20	
BU	8	8	8	8	8	8	
BV	31	31	42.5	49	65	72	
BW	100	100	150	150	200	200	± 0.01
	3 x Ø16	3 x Ø16	4 x Ø16	4 x Ø16	3 x Ø16	3 x Ø16	
BX	10	10	15	15	20	20	
BY	10	10	15	20	25	30	
BZ	40	40	40	40	40	40	± 0.01
CA	195	228	312	302	392	420	
CB							
CC	20	20	25	25	25	25	
CD	M6	M8	M12	M12	M16	M16	
CE	9	12	18	18	24	24	
CF	15	15	20	20	30	30	
CG	4	5	12	12	16	16	

SERRAGGIO MECCANICO CON CHIAVE DINAMOMETRICA

MECHANICAL CLAMPING WITH TORQUE WRENCH

GRUPPI DI SERRAGGIO MECCANICI (Art. 258 e similari)

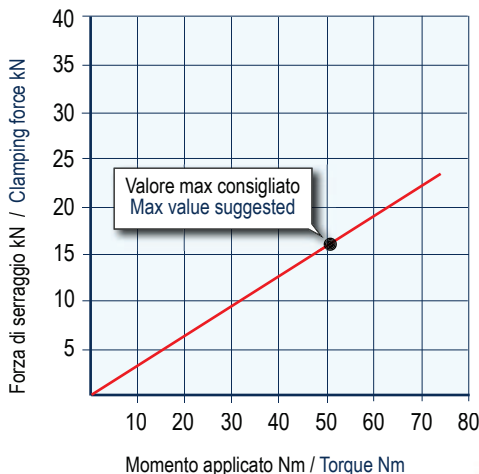
I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), in funzione del momento applicato

MECHANICAL CLAMPING DEVICES (Art. 258 and similar)

The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) as a function of the torque

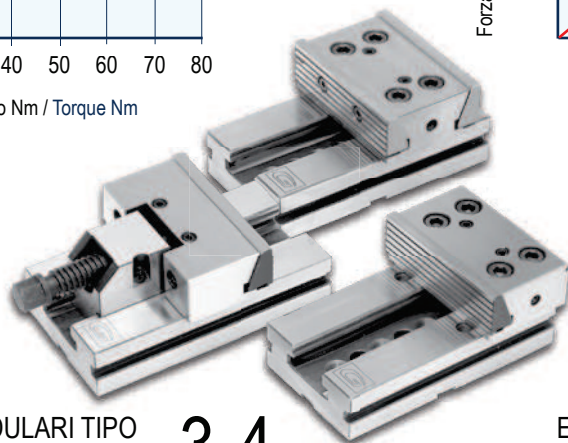
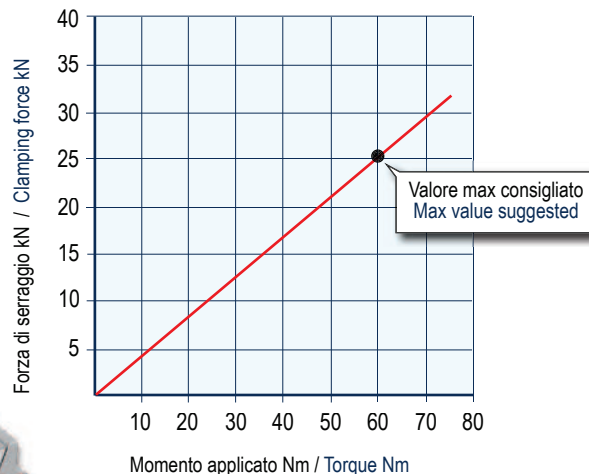
ELEMENTI MODULARI TIPO 1
MODULAR ELEMENTS TYPE 1

Vite Ø 14 - Passo 4 mm
 Screw Ø 14 - Pitch 4 mm



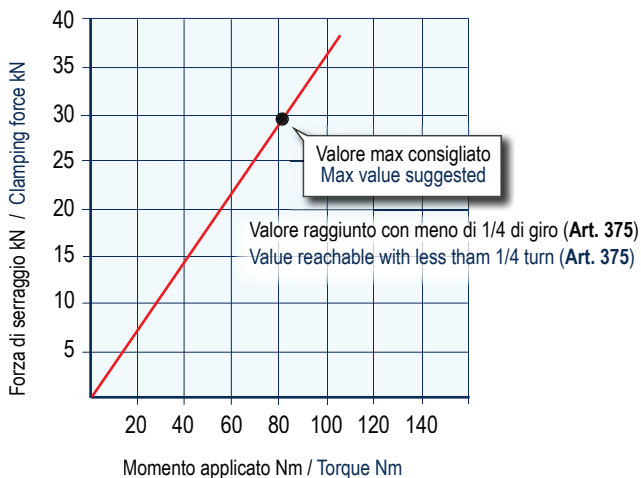
ELEMENTI MODULARI TIPO 2
MODULAR ELEMENTS TYPE 2

Vite Ø 18 - Passo 4 mm
 Screw Ø 18 - Pitch 4 mm



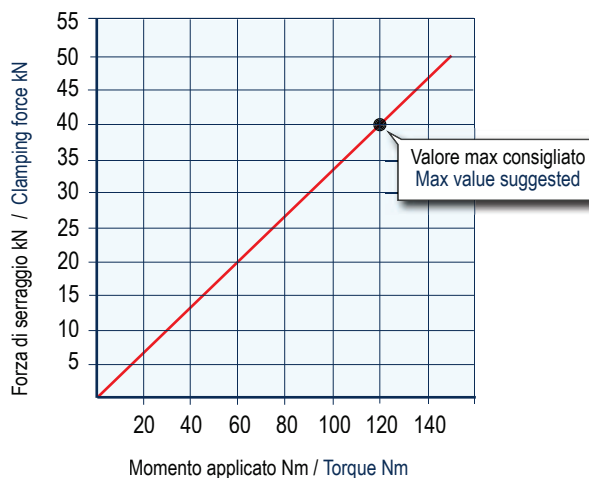
ELEMENTI MODULARI TIPO 3-4
MODULAR ELEMENTS TYPE 3-4

Vite Ø 24 - Passo 5 mm
 Screw Ø 24 - Pitch 5 mm



ELEMENTI MODULARI TIPO 5-6
MODULAR ELEMENTS TYPE 5-6

Vite Ø 30 - Passo 5 mm
 Screw Ø 30 - Pitch 5 mm



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 factor 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.