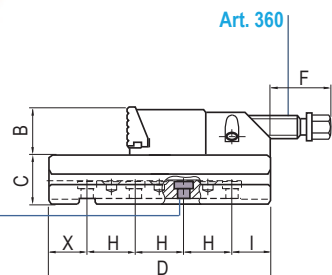
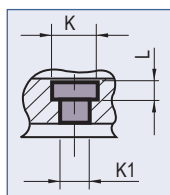
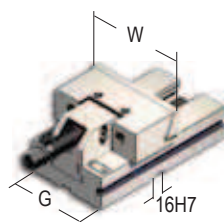




Tipo (grandezza) morsa / Vise (type) size

Art. 102

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



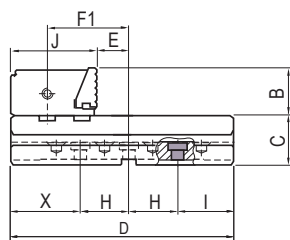
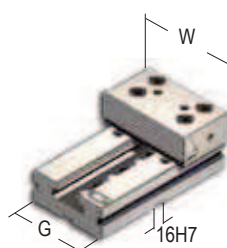
M = numero fori / M = holes number

kN	1 16 kN	2 25 kN	3 30 kN	4 30 kN	5 40 kN	6 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
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
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	31	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

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

Art. 103

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



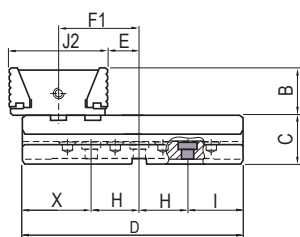
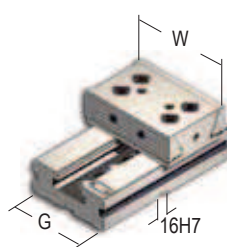
M = numero fori / M = holes number

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	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.	2.10.31000	2.10.32000	2.10.33000	2.10.34000	2.10.35000	2.10.36000

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

Art. 104

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

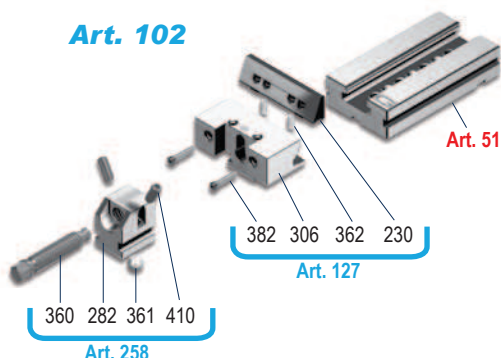


M = numero fori / M = holes number

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	3	3	3	4	5	5
Cod.	2.10.41000	2.10.42000	2.10.43000	2.10.44000	2.10.45000	2.10.46000

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

Art. 102



Dotazione standard:

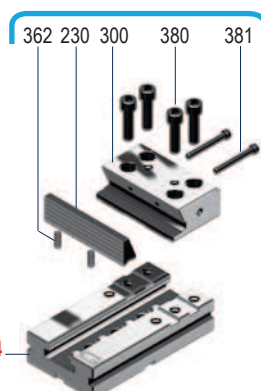
■ 1 coppia di tasselli di posizionamento Art. 297

Standard equipment:

■ 1 pair of positioning key-nuts Art. 297

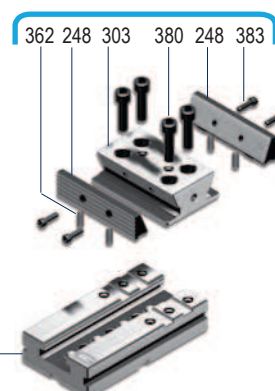
Art. 103

Art. 120



Art. 104

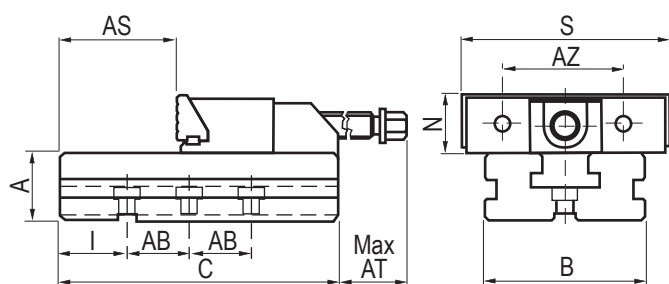
Art. 123



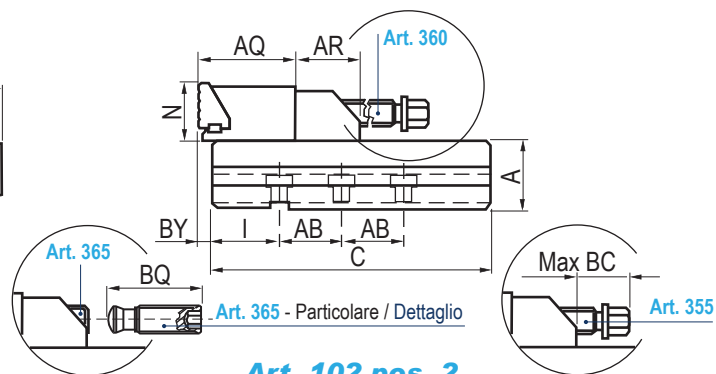
Art. Pag.

44	3.10
44A	3.10
51	3.10
51A	3.10
120	4.6
123	4.6
127	4.6
230	4.7
248	4.7
258	4.28
282	4.28

Art. 102

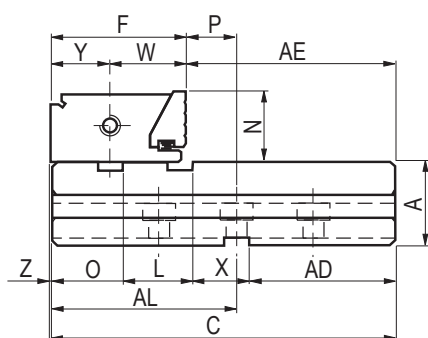


Art. 102 pos. 1

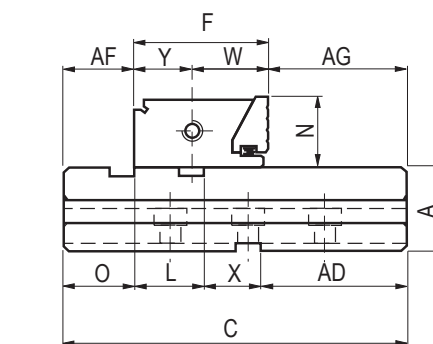


Art. 102 pos. 2

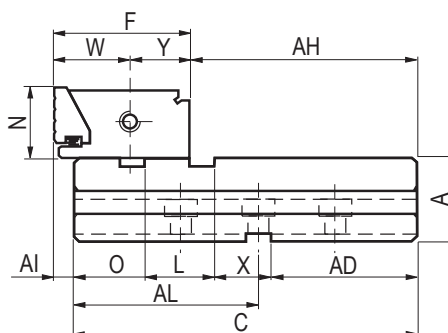
Art. 103



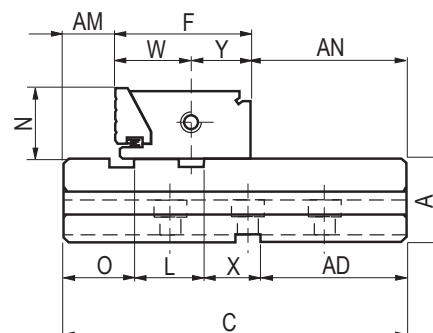
Art. 103 pos. 1



Art. 103 pos. 2

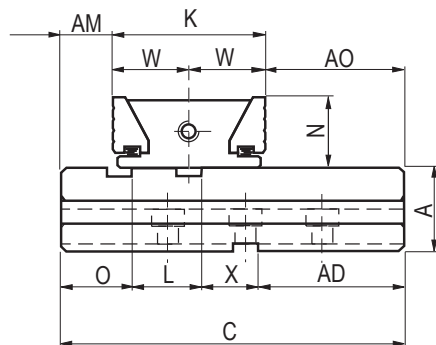


Art. 103 pos. 3

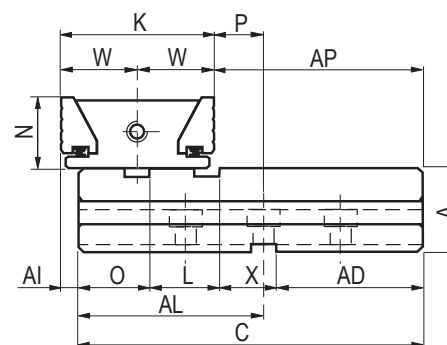


Art. 103 pos. 4

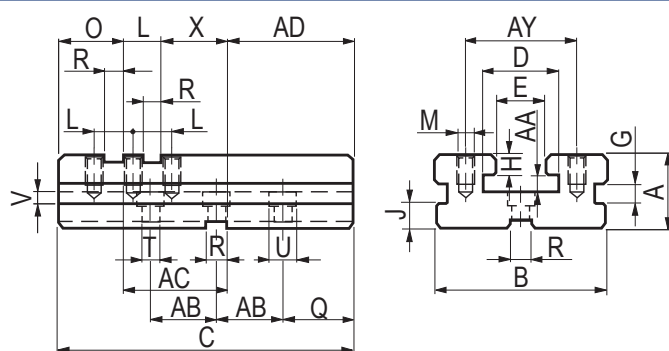
Art. 104



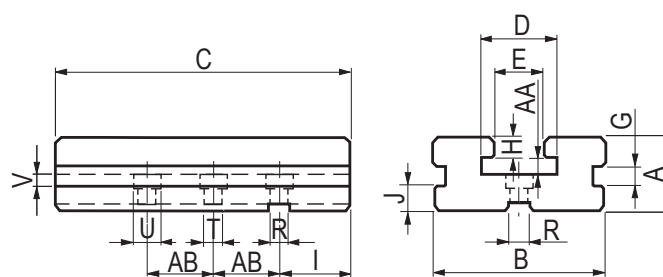
Art. 104 pos. 1



Art. 104 pos. 2



Art. 44



Art. 51

Tipo (grandezza) morsa / Vise (type) size								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		3 x Ø16	3 x Ø16	4 x Ø16	4 x Ø16	3 x Ø16	3 x Ø16	
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	18	24	24	
	3 x Ø12	3 x Ø12	4 x Ø12	4 x Ø12	3 x Ø12	4 x Ø12		CF	15	15	20	20	30	30	
AL	111	111	122.5	129	145	152		CG	4	5	12	12	16	16	
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									

SERRAGGIO MECCANICO CON CHIAVE DINAMOMETRICA

MECHANICAL CLAMPING WITH TORQUE WRENCH

GRUPPI DI SERRAGGIO MECCANICI (Art. 258 e similari)

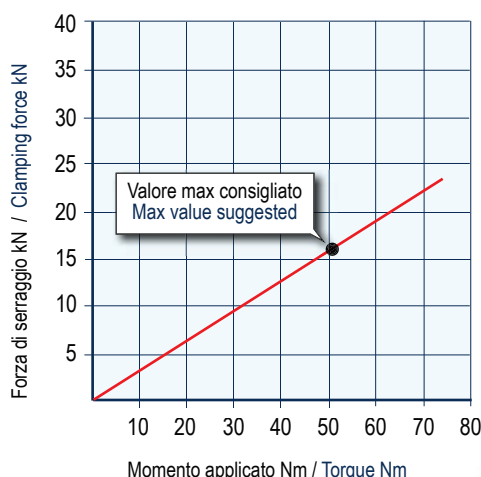
I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), in funzione del momento applicato

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

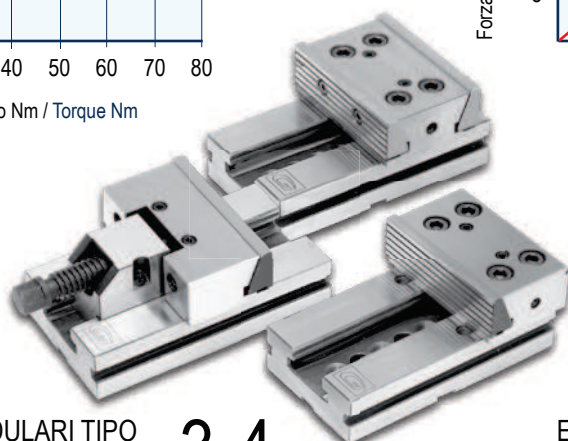
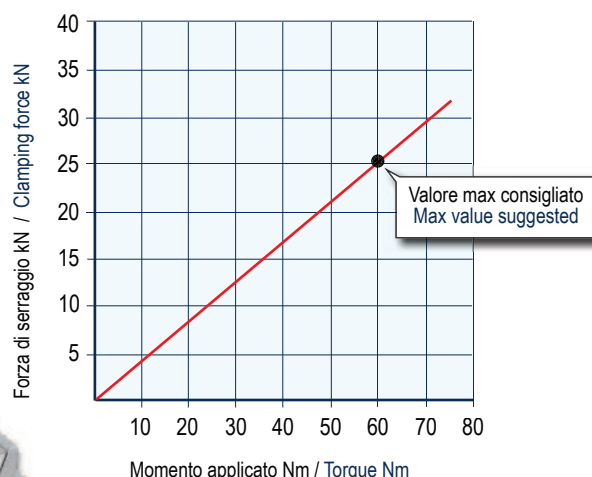
ELEMENTI MODULARI TIPO 1
MODULAR ELEMENTS TYPE 1

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



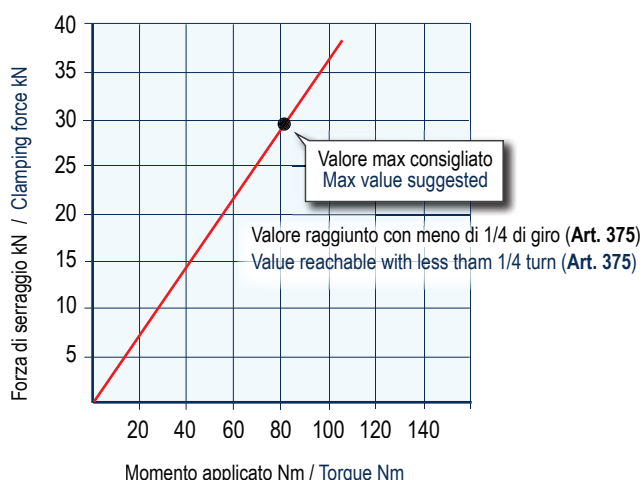
ELEMENTI MODULARI TIPO 2
MODULAR ELEMENTS TYPE 2

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



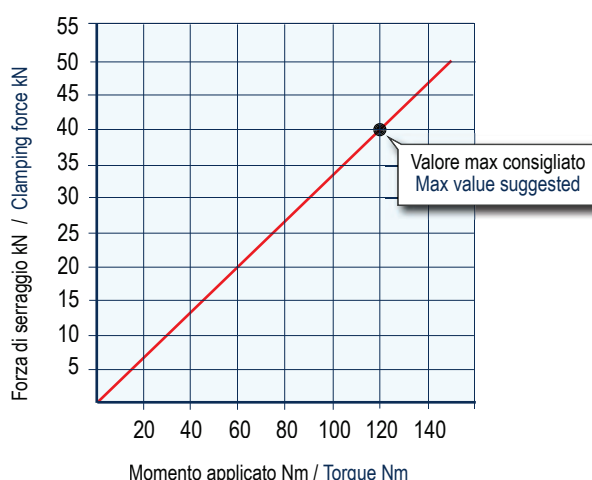
ELEMENTI MODULARI TIPO 3-4
MODULAR ELEMENTS TYPE 3-4

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 $\pm 10\%$.
 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 $\pm 10\%$ range. For optimum operation do not exceed chart values.