



SAI TRUMAN ENTERPRISES
www.saitruman.in

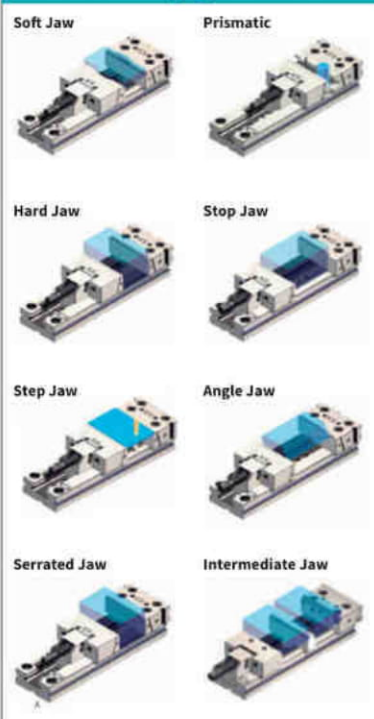


STANDARD FLEX VISES - ART. 1AZ

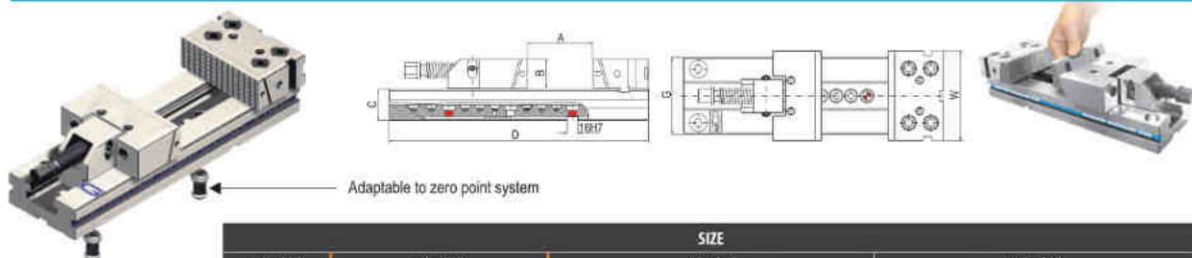

**Size 3 Vices now
Made in India
available at
very Attractive
Prices**

Supplied with Gerardi StandardFLEX Machine Vise:

- 1x workstop ART.370
- 1x pair of positioning keys (16mm)
- 1x box wrench ART.375
- 1x T wrench ART.376
- 4x table clamps (6 with XL vise)

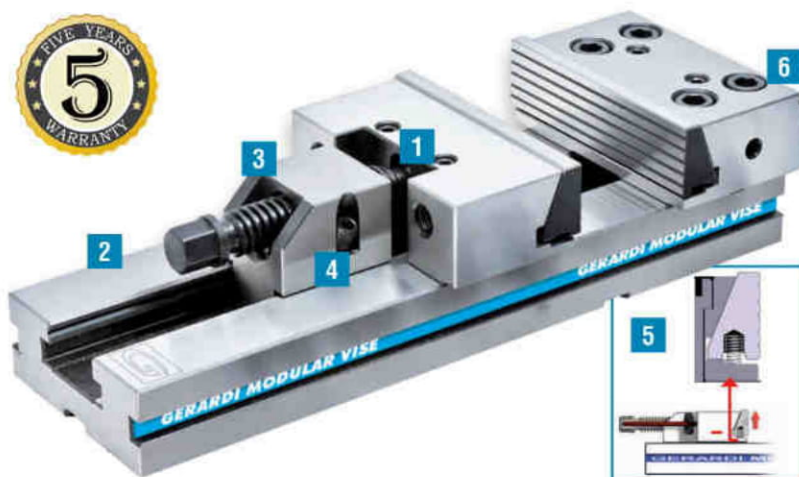

Endless Clamping Possibilities!


1	MODULAR	The world's largest range of modular accessories means clamping almost ANYTHING is possible with Gerardi's standard jaws.
2	NO WEAR	Made 100% from high quality, case hardened alloyed resistance steel in order to give maximum rigidity, high performance and no wear.
3	QUICK CLAMPING	Sliding movable jaw is pushed close to the work piece then fully tightened with 1/4 turn of the wrench. Also available with Hydraulic, Pneumatic, Manual hydraulic & Electrical hydraulic clamping.
4	HIGHEST ACCURACY +/-0.02mm	Every sliding and working surface is ground. Centesimal tolerances are guaranteed by checking cycles with CNC measuring machine. The perfect alignment with the machine axis is given by longitudinal and cross keyways (16H7).
5	QUICK HAND CHANGE JAWS	ONLY with Gerardi Standard Flex Vise is it possible to change the vise jaw plates in under 5 seconds. The special comb design ensures jaw plates slide into place. All working surfaces are ground and hardened as standard on jaw plates.
6	BETTER PULL DOWN ACTION	Increased and better pull down straight action and better protection from chips.

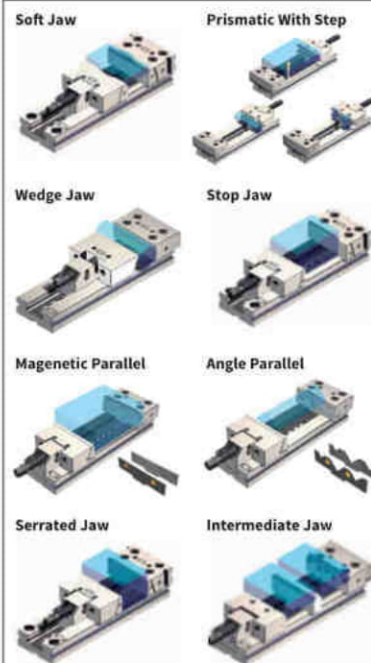
Standard Flex Vises - Art. 1AZ


	SIZE								
	2 (25kN)	3 (30kN)		4 (30kN)			5 (40kN)		
A	150	200	300	200	300	400	200	300	400
W	121	146		171			196		
B	38	48		58			63		
C	40	50		60			70		
D	345	420	520	455	555	655	495	595	695
G	95	125		145			170		
kg	12,9	25	29	37	42	47	64	69	75
ART. 1AZ ORDER CODES	1.1AZ.2000	1.1A.Z3200	1.1A.Z3300	1.1A.Z4200	1.1A.Z4300	1.1A.Z4400	1.1A.Z5200	1.1A.Z5300	1.1A.Z5400

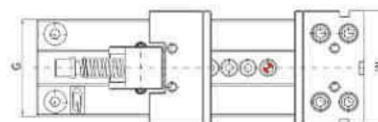
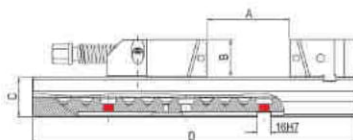
MADE IN INDIA

STANDARD SERIES VISES - ART. 1

Supplied with Gerardi Standard Series Machine Vise:

- 1x workstop ART.370
- 1x pair of positioning keys (16mm)
- 1x box wrench ART.375
- 1x T wrench ART.376
- 4x table clamps (6 with XL vise)


Endless Clamping Possibilities!


1	MODULAR	The world's largest range of modular accessories means clamping almost ANYTHING is possible with Gerardi's standard jaws:
2	NO WEAR	Made 100% from high quality, case hardened HRC 60 alloyed resistance steel in order to give maximum rigidity, high performance and no wear. As evidence we give 5 YEARS WARRANTY on all the vises and mechanical components:
3	QUICK CLAMPING	Sliding movable jaw is pushed close to the work piece then fully tightened with 1/4 turn of the wrench. NO WINDING! Also available with Hydraulic, Pneumatic, Manual hydraulic & Electrical hydraulic clamping.
4	HIGHEST ACCURACY +/0.02mm	Every sliding and working surface is ground. Centesimal tolerances are guaranteed by checking cycles with CNC measuring machine. The perfect alignment with the machine axis is given by longitudinal and cross keyways (16H7)
5	'ON/OFF' PULL DOWN JAWS	ONLY with Gerardi Standard Series vises is it possible to change from pull down action to non-pull down action. By turning the screw 1/4 turn in the rear of the jaw, the pull-down action can be turned on or off.
6	5mm STEP ON FIXED JAW	The fixed jaw is supplied as standard with a 5mm step on the rear. Reverse the jaw and combine with ART.217 (Prismatic Jaw with Step) for through hole drilling/tapping operations.

Standard Series Vises - Art. 1


	SIZE								
	2 (25kN)	3 (30kN)		4 (30kN)			5 (40kN)		
A	150	200	300	200	300	400	300	400	500
W	125	150		175			200		
B	40	50		60			65		
C	40	50		58			70		
D	345	420	520	455	555	655	595	695	795
G	95	125		145			170		
kg	12.9	25.5	29	37	42	47	69	74	79
ART. 1A ORDER CODES	3.02.10000	3.03.20000	3.03.30000	3.04.20000	3.04.30000	3.04.40000	3.05.30000	3.05.40000	3.05.50000

PRECISION MODULAR VISES XL SERIES

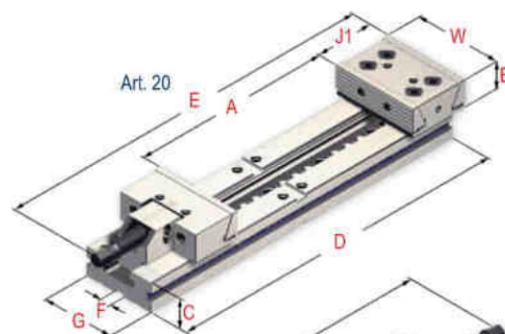
XL series EXTRA LARGE MACHINING

Vises with much longer base than standard ones
A range of vises without any opening limit

Art. 20

Single opening **XL** vise
with solid movable
guided Jaw

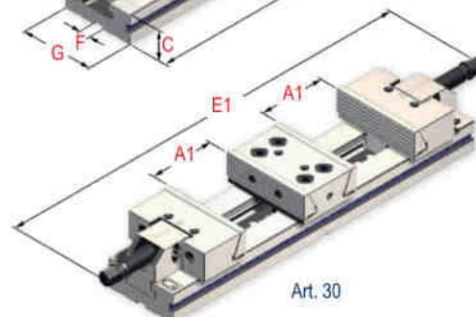
Single clamping



Art. 30

Double opening **XL** vise
with solid movable
guided Jaw

Double clamping



Vise (type) size		1	2	3	4	
Maximum spread	A	290	320	360	460	400 500 600 700
	A1	2 x 90	2 x 100	2 x 110	2 x 160	2 x 120 2 x 170 2 x 220 2 x 270
	W	100	125	150		175
	W1	96	121	146		171
	W2	75	95	125		145
	B	30	40	50		60
	B1	28	38	48		58
	C	35	40	50		58
	D	460	520	580	680	666 766 866 966
	E	510	585	660	760	740 840 940 1040
	E1	546	640	730	830	786 886 986 1086
	F	16	16	16		16
	G	75	95	125		145
	J1	84,78	84,78	101,78		110,78
Weight	Art. 20 - Art. 20A	kg	10	17	31	34 46 51 56 61
Weight	Art. 30 - Art. 30A	kg	14	20,5	38	42 58 63 68 73

- HIGHEST ACCURACIES $\pm 0,02\text{mm}$
- VERSATILITY
- RIGIDITY & SAFETY
- QUICK CLAMPING
- NO WEAR
- MODULARITY
- SPACE SAVING DESIGN & HANDY
- HIGHEST REPOSITIONING ACCURACY (Art. 20A - 30A)
- INCREASED AND BETTER PULL DOWN ACTION AND BETTER PROTECTION FROM CHIPS FOR Art. 20A - 30A
- GREAT SAVINGS IN VISE RESETTIMG TIMES (Art. 20A - 30A)
- VERTICAL GANG OPERATION (Art. 20A - 30A)

Art. 22

Single opening **XL** vise
with narrow ground Jaws



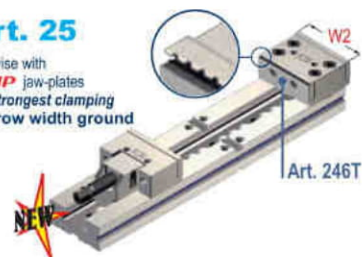
Art. 24

XL Vise with
straight plate Jaw



Art. 25

XL vise with
GRIP jaw-plates
for strongest clamping
narrow width ground



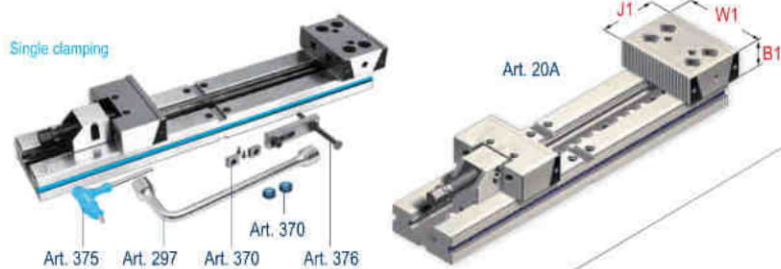
PRECISION MODULAR VISES XL SERIES

XL series EXTRA LARGE MACHINING

Vises with much longer base than standard ones
A range of vises without any opening limit

Art. 20A

Single opening XL vise
with quick manual change jaw plates
(Comb System)



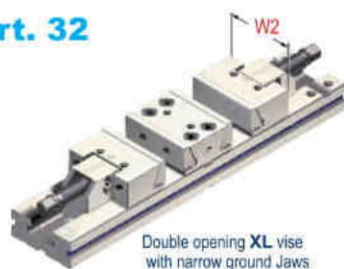
Art. 30A

Double opening XL vise
with quick manual change jaw plates
(Comb system)



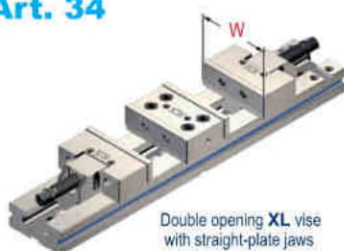
5					6						
500	600	700	800	900	500	600	700	800	900	1000	1100
2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410	2 x 460
		200						300			
		196						296			
		170						195			
		70						78			
		63						76			
		70						78			
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
890	990	1090	1190	1290	995	1095	1195	1295	1395	1495	1595
965	1065	1165	1265	1365	1060	1160	1260	1360	1460	1560	1660
		16						16			
		170						195			
		132,78						146,78			
85	92	99	106	113	127	137	147	157	167	177	187
95	101	107	113	119	154	162	170	178	186	194	212

Art. 32



Double opening XL vise
with narrow ground Jaws

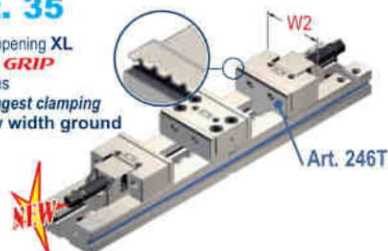
Art. 34



Double opening XL vise
with straight-plate jaws

Art. 35

Double opening XL
vise with **GRIP**
jaw-plates
for **strongest clamping**
narrow width ground



Art. 246T

MODULAR ELEMENTS

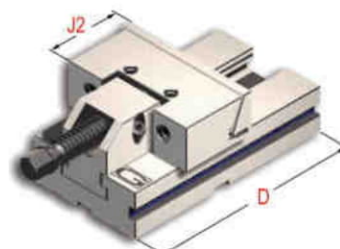
MODULAR ELEMENTS are simply standard vises sections, the movable section and the fixed one, which in this way result completely independent for an extreme versatility

Art. 102

Movable section

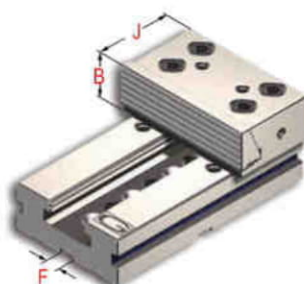


OPTION:
Ground holes $\varnothing 12$ o $\varnothing 16$
only for jaws with **COMB SYSTEM**



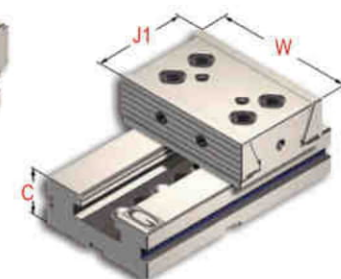
Art. 103

Fixed section



Art. 104

Double fixed section

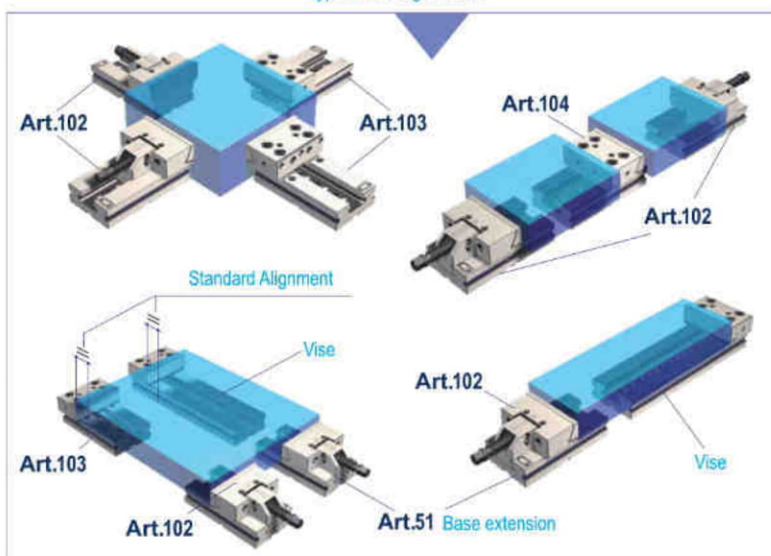


Without accessory equipment

Vise (type) size

mm	1	2	3	4	5	6
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	330	350
F	16	16	16	16	16	16
J	77,9	77,9	89,4	96,9	113,4	120,4
J1	84,78	84,78	101,78	110,78	132,78	146,78
J2	50	60	80	90	100	120

Typical arrangements



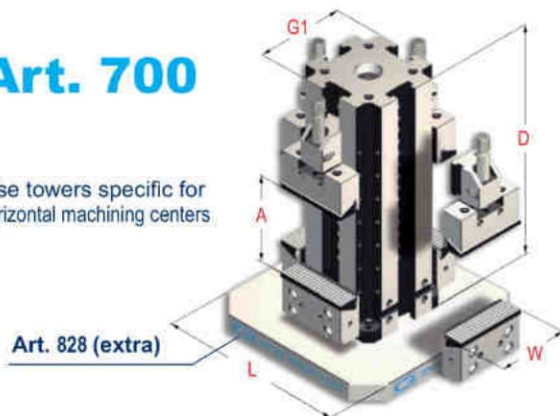
- HIGHEST ACCURACIES $\pm 0,02\text{mm}$
- VERSATILITY
- RIGIDITY & SAFETY
- QUICK CLAMPING
- NO WEAR
- MODULARITY
- SPACE SAVING DESIGN & HANDY

- HIGHEST REPOSITIONING ACCURACY (Art. 20A - 30A)
- INCREASED AND BETTER PULL DOWN ACTION AND BETTER PROTECTION FROM CHIPS FOR Art. 20A - 30A
- GREAT SAVINGS IN VISE RESETTING TIMES (Art. 20A - 30A)
- VERTICAL GANG OPERATION (Art. 20A - 30A)

WISE TOWERS: Standard Series

Art. 700

Vise towers specific for horizontal machining centers

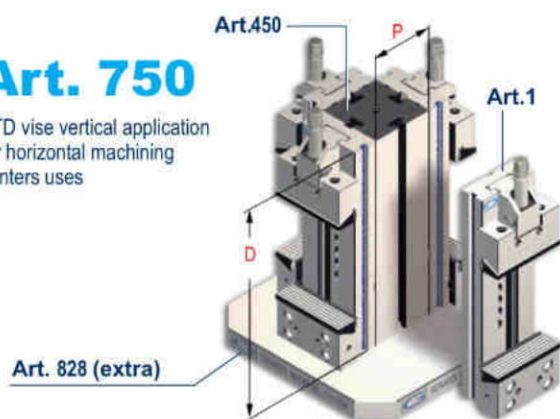


Art. 700

mm	1		2		3			4			
A	80	130	155	205	180	280	380	145	245	345	445
W	120		160		190			230			
D	250	300	350	400	400	500	600	400	500	600	700
G1	100		125		150			175			
L	300		350		400			450			

Art. 750

STD vise vertical application for horizontal machining centers uses



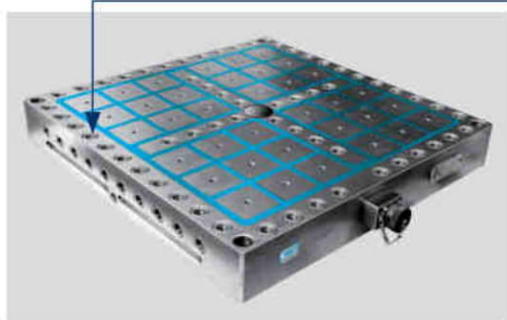
Art. 750 Composed by 1 Art. 450 + 4 Art. 1

mm	1	2	3	4	5	6
D	270	345	420	455	495	635
P	75	95	125	145	170	195

SQUARE POLARITY MAGNETIC CHUCKS

Electro-permanent system for milling

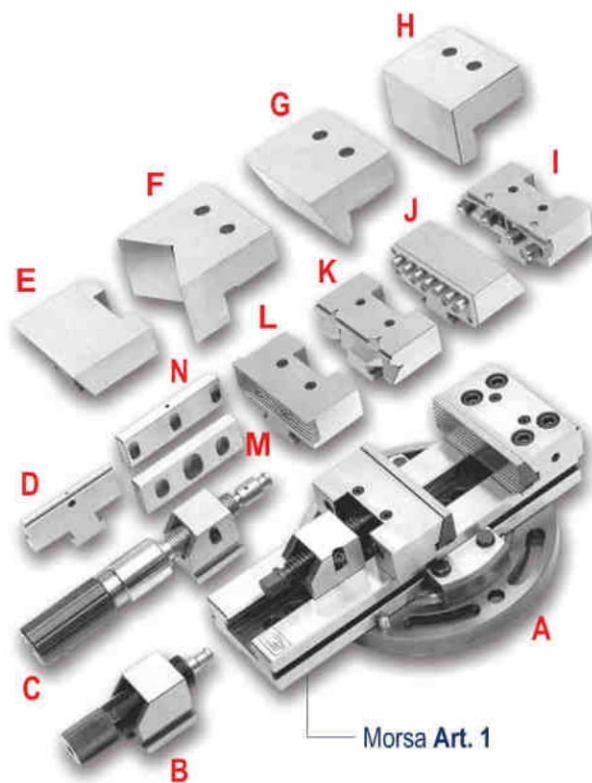
Magnetic chuck with bushings and helicoils



Ten good reasons for choosing the electro permanent system Gerardi

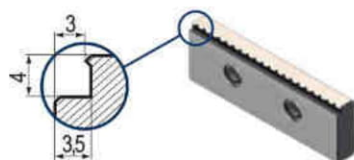
- 1 No energy consumption
- 2 Always safe
- 3 Immediate work loading/unloading piece
- 4 Simple and practical
- 5 Extremely accurate machining
- 6 Perfect clamping
- 7 Totally free working surface
- 8 Flexibility
- 9 Reduction of other costs
- 10 Machine full exploitation

SPARE PARTS AND ACCESSORIES



Morsa Art. 1

Hardened straight jaw plates **GRIP** for fixed and movable jaw - Art. 140, 143, 146



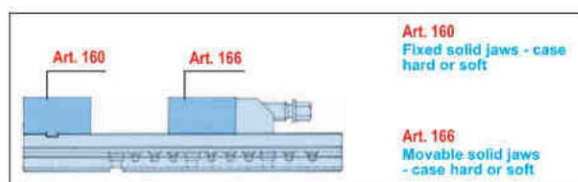
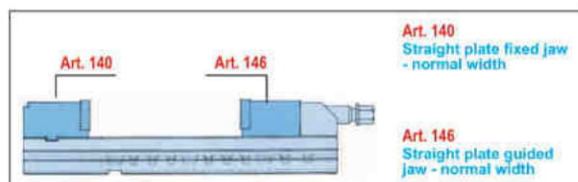
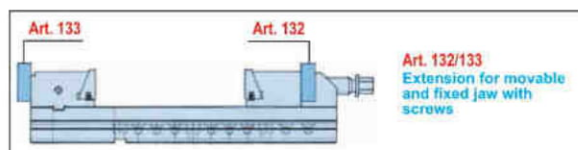
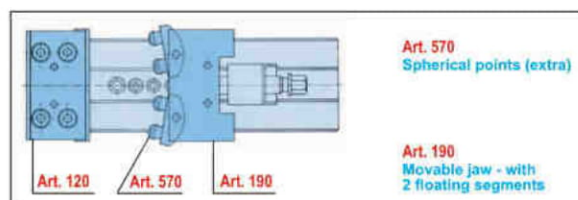
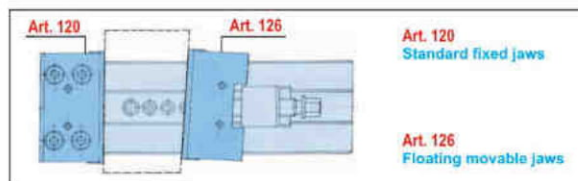
Art. 246T
Normal width

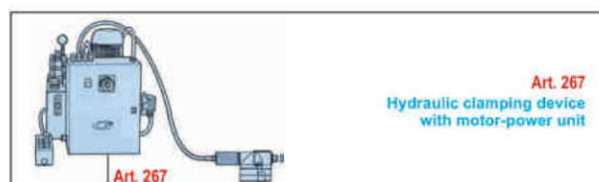
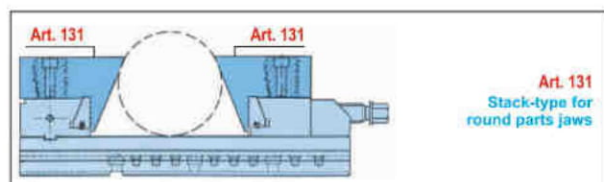
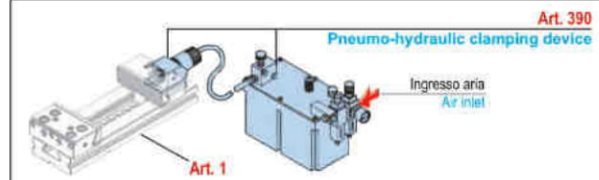
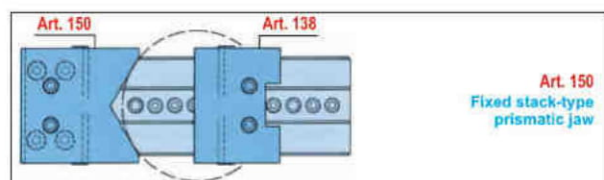
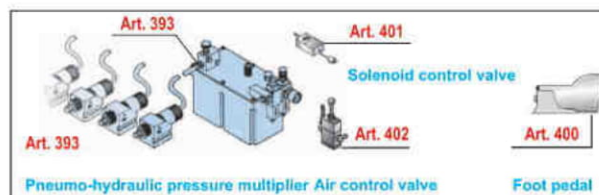
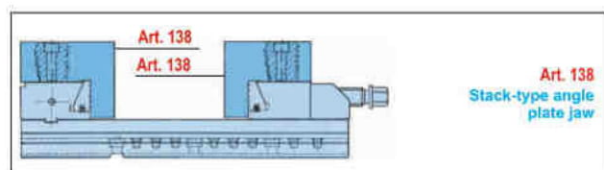
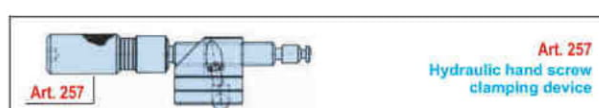
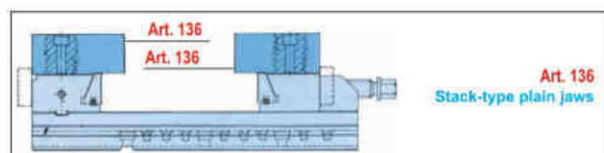
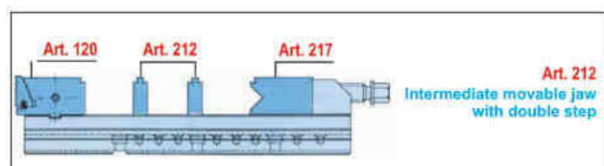
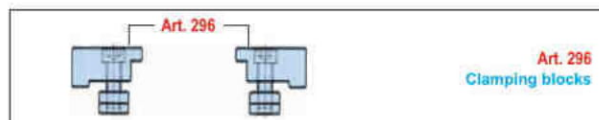
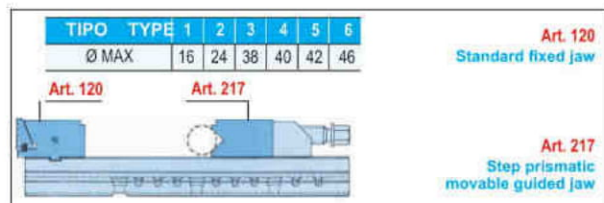
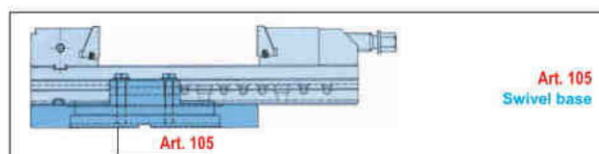
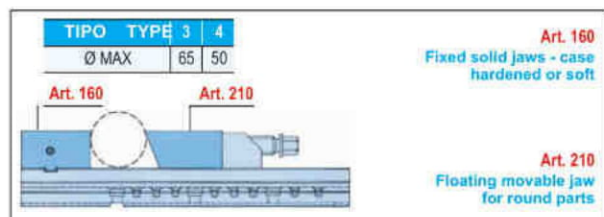
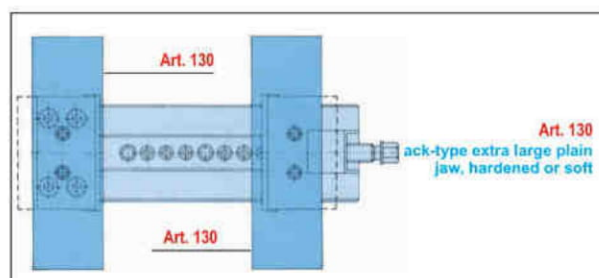
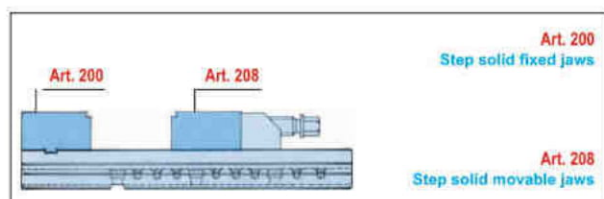
Art. 247T
Narrow width

ONLY FOR Art. 1A VISES (StandardFLEX quick change jaw plates)



- A.** Swivel base - **ART. 105**
- B.** Blocking support with hydraulic cylinder - **ART. 271**
- C.** Hydraulic hand screw blocking device - **ART. 257**
- D.** Intermediate movable jaw with double step - **ART. 212**
- E.** Floating movable jaw for round parts - **ART. 210**
- F.** Fixed stack type prismatic jaw - **ART. 150**
- G.** Fixed and movable stack-type jaws for round parts - **ART. 131**
- H.** Square stack-type jaws - **ART. 138**
- I.** Movable jaw with 2 floating segments - **ART. 190**
- J.** Floating movable jaw - hydraulic control - **ART. 188**
- K.** Step-prismatic guided movable jaw - **ART. 217**
- L.** Guided movable jaw - straight plate - **ART. 146**
- M/N.** Extension for fixed and movable jaw with screws - **ART. 132/133**

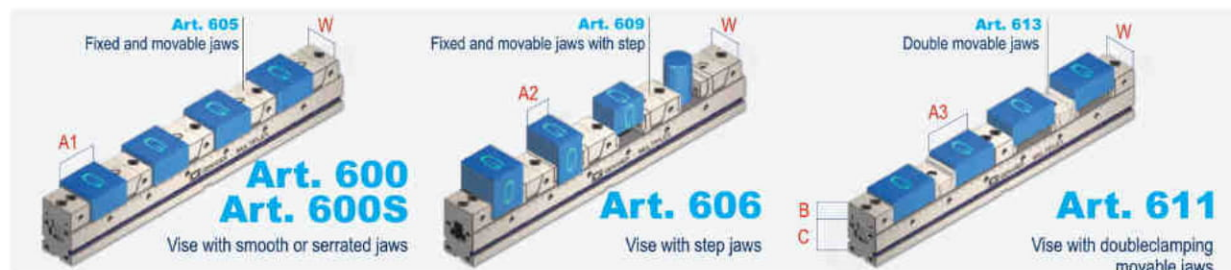


SPARE PARTS AND ACCESSORIES


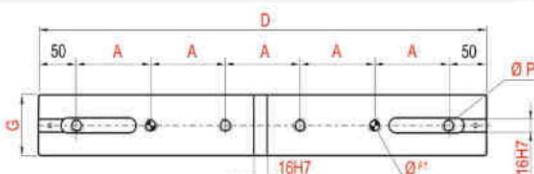
MULTIFLEX VISES AND VISE-TOWER SERIES

MULTIFLEX series THE MOST VERSATILE

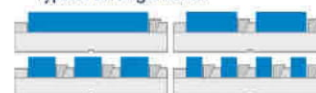
For multiple clamping from **1** to **12** workpieces of various sizes



■ EACH VISE IS SUPPLIED FOR 4 WORKPIECES CLAMPING



Typical arrangements



Vise (type) size		Art. 600		Art. 606		Art. 611	
mm	B C D G P W ØF7	A1 mm	A2 mm	A3 mm			
1	32/25 50 300 50 16 49 10	4 x 8	3 x 19	4 x 21			
	32/25 50 400 50 16 49 10	4 x 33	4 x 23	4 x 46			
	32/25 50 500 50 16 49 10	4 x 58	4 x 48	4 x 71			
	32/25 50 600 50 16 49 10	4 x 83	4 x 73	4 x 96			
	32/25 50 700 50 16 49 10	4 x 108	4 x 97	4 x 121			
2	40 75 400 75 16 74 16	4 x 12	3 x 28	4 x 34			
	40 75 500 75 16 74 16	4 x 37	4 x 24	4 x 59			
	40 75 600 75 16 74 16	4 x 62	4 x 49	4 x 84			
	40 75 700 75 16 74 16	4 x 87	4 x 74	4 x 109			
	40 75 800 75 16 74 16	4 x 112	4 x 99	4 x 134			
3	60 100 700 100 16 99 16	4 x 59	4 x 44	4 x 77			
	60 100 800 100 16 99 16	4 x 84	4 x 69	4 x 102			
	60 100 900 100 16 99 16	4 x 109	4 x 94	4 x 127			
	60 100 1000 100 16 99 16	4 x 134	4 x 119	4 x 152			

The MULTIFLEX precision modular vises are a totally new concept of modular clamping system able to maximize the machine table capacity and increase its productivity.

The comb system is used even between the fixed and movable jaw, it increases and improves the clamping capacity

Max opening according to number of pieces be clamped																																
Type	Art. 600/600S n. pcs:											Art. 606 n. pcs:									Art. 611 n. pcs:											
A mm	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	10	11	12
1	300	208	75	30	8							193	63	19							174	87	28	21								
	400	306	125	64	33	15	3					293	113	53	23						274	137	62	46	19	16						
	500	408	175	96	58	35	19	8				393	163	86	48	25					374	185	95	71	39	33	15	13	2			
	600	506	225	129	83	55	36	22	12	5		493	213	119	73	45	26	13			474	237	128	96	59	49	30	26	13	12	3	2
	700	608	275	161	106	75	52	36	24	16	8	2	593	263	152	97	64	42	26	14	5	574	287	162	121	79	66	44	38	24	22	12
2	400	275	100	41	12							262	87	28							242	121	45	34	5							
	500	375	150	75	37	15						362	137	62	24	2					342	171	78	59	25	21	3					
	600	475	200	108	62	35	16	3				462	187	95	49	22	3				442	221	112	84	45	38	17	15	1			
	700	575	250	141	87	55	33	17	6			562	237	128	74	42	20	4			542	271	145	108	65	54	31	27	12	11		
	800	675	300	175	112	75	50	32	18	8		662	287	162	99	62	37	19	5		642	321	178	134	85	71	46	40	23	21	10	9
3	700	532	217	112	59	26	7					517	202	97	44	13					470	235	103	77	30	25						
	800	632	267	145	84	48	23	6				617	252	130	69	33	8				570	285	136	102	50	41	12	11				
	900	732	317	178	109	68	39	20	5			717	302	163	94	53	25	5			670	335	169	127	70	57	28	23	3			
	1000	832	367	211	134	88	55	34	18	5		817	352	196	119	73	42	19	3		770	385	202	152	90	73	40	35	14			



Art. 605
Fixed and movable jaws
with comb system



Art. 609
Fixed and movable jaws
with step



Art. 613
Double movable jaw

MULTIFLEX VISES AND VISE-TOWER SERIES

Art. 602 / 602S

Vise-tower with smooth or serrated jaws

Art. 602
Art. 602S

Art.	N°
603	1
604	4
605	16

Art. 828 (Extra)

Art. 607

With step jaws

Art.	N°
603	1
608	4
609	16

Art. 828 (Extra)

Art. 612

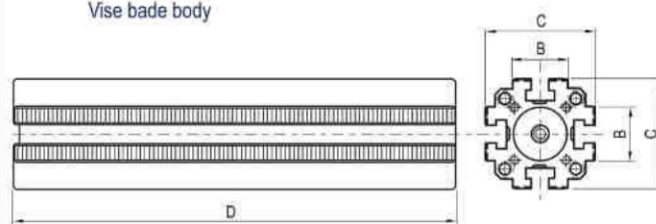
With double jaws

Art.	N°
603	1
604	12
613	8

Art. 828 (Extra)

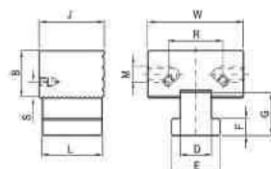
Art. 603

Vise bade body

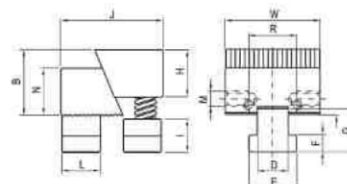


* Included the solid head plate

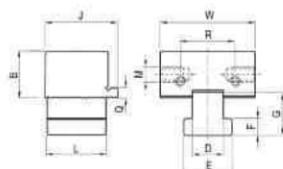
mm	B $-0,02$	C $-0,02$	D
Type	50	100	300
	50	100	400
1	50	100	500
	50	100	600
Type	75	150	400
	75	150	500
2	75	150	230 *
	75	150	240 *
	75	150	700
Type	100	240	700
	100	240	800
3	100	240	900
	100	240	1000

Art. 604 Fixed jaws


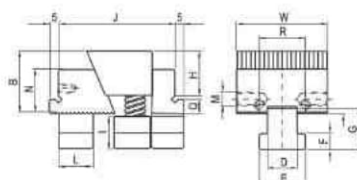
mm	W	B	D	E	F	G	J	L	M	R
Type 1	49	25	14	22	8	21	38	30	M10	30
2	74	40	22	35	14	33	50	45	M10	50
3	99	60	30	48	21	46	70	60	M10	50

Art. 605 Fixed and movable jaw with comb system


mm	W	B	D	E	F	G	H	I	J	L	M	N	R
Type 1	49	35 / 25	14	22	8	25	25	18	54 / 58	22	M10	25	30
2	74	53 / 40	22	35	14	33	34	28	70 / 75	26	M10	40	50
3	99	60	30	48	21	46	50	42	94,5 / 98,5	35	M10	60	50

Art. 608 Fixed jaw with step


mm	W	B	D	E	F	G	J	L	M	Q	R
Type 1	49	25	14	22	8	21	43	30	M10	5	30
2	74	40	22	35	14	33	55	45	M10	8	50
3	99	60	30	48	21	46	70	60	M10	10	50

Art. 609 Fixed and movable jaw comb system with step


mm	W	B	D	E	F	G	H	I	J	L	M	N	Q	R
Type 1	49	35 / 25	14	22	8	25	25	18	65 / 68	22	M10	25	5	30
2	74	46 / 40	22	35	14	33	34	26	83 / 88	26	M10	40	8	50
3	99	60	30	48	21	46	50	42	94,5 / 98,5	35	M10	60	10	50

ZERO POINT GERARDI MODULAR SYSTEM


The new immediate positioning & clamping system. Set up times reduced 90%.
All the components are built completely with high resistance steel and case hardened

ZERO POINT system REPETABILITY <5μ



Art. 11A *

HYDRAULIC ZERO POINT

Art. 662

Independent mounting

- Clamping force 25 kN
- Holding force more than 60 kN
- Hydraulic release 200bar
- Positioning shank with elastic collet
- Double pull-stud centering for Max rigidity
- Manually emergency release
- Water drain
- Key ways and calibrated positioning hole
- Weight 4,3 Kg each



* Art. 11A Pull stud included



Art. 11A *

PNEUMATIC ZERO POINT

Art. 664

Mounting with flange

- Clamping force 15 kN
- Holding force more than 60 kN
- Pneumatic release 7bar
- Positioning shank with elastic collet
- Double pull-stud centering for Max rigidity
- Air cleaning
- Weight 6 Kg each



* Art. 11A Pull stud included



Art. 11A *

Art. 663

Built-in mounting

- Clamping force 25 kN
- Holding force more than 60 kN
- Hydraulic release 200bar
- Positioning shank with elastic collet
- Double pull-stud centering for Max rigidity
- Manually emergency release
- Weight 5,6 Kg each



Art. 81H

Art. 80H

Art. 81H



Art. 11A *

Art. 665

Built-in mounting

- Clamping force 15 kN
- Holding force more than 60 kN
- Pneumatic release 7bar
- Positioning shank with elastic collet
- Double pull-stud centering for Max rigidity
- Air cleaning
- Weight 2,5 Kg each



Art. 81P

Art. 80P

Art. 81P

COMPACT GRIP VISES: SELF CENTERING VISE



COMPACT, RIGID & ACCURATE

**TOP JAW
INSERTS**

**5 AXIS
MACHINE**

**ZERO POINT
READY**



Art.650

Manual Control - Mechanical Clamping



Example 1



Example 2



Example 3

The absolute news for 5 axis machine centres and new multiclamping system are the self-centering Compact Grip vises. Their name identifies the main vise features which are the extreme compactness and easiest handling and the system of inserts which it adopts, so called "GRIP". This system includes a range of jaw inserts assembled on the top of the main jaw with the function of clamping the workpiece through sharp or duly shaped teeth according to the material type and hardness to clamp.

SELF-CENTERING VISE WITH REVERSIBLE JAWS: Ideal For 5 Axis Machining Centres

Vise (type) size

Art. 650



Type **1x120**

Example 1

Art. 651H

Type **1**
Simple Riser

	kN	1 12 kN	2 22 kN
A	48	88	128
A1		6	
W		50	
B		65	
C		45	
C1		53	
C2		61	
D		80	
E	80	120	160
F		52	
L		12	
L1		M8	
kg	1,8	2,6	3,4
Cod.	7.65.01080	7.65.01120	7.65.01150

Art. 650

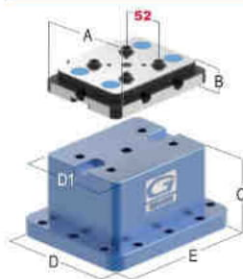


Type **2x160**

Example 1

Art. 651H

Type **2**
Simple Riser



Art. 660

Quick change table

Art. 661H

Simple aluminum riser
for quick change table

Example 2

Type **1&2**

Pitch: **52mm**

A	150
B	27
C	100
D	150
D1	116
E	190
kg	3
Cod.	9.66.05200
Art. 660	
kg	5
Cod.	9.66.1H100

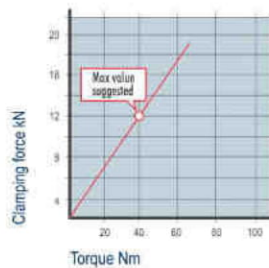
NEW ADAPTING PLATE !!

It allows to reduce the
pull studs distance
from 96 mm to 52 mm



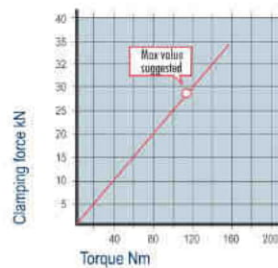
Type 1

Screw TPF14 - Pitch 2mm



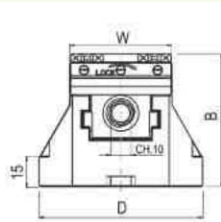
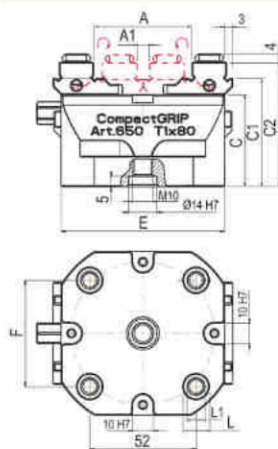
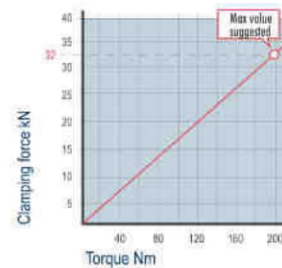
Type 2

Screw TPF18 - Pitch 2mm



Type 3

Screw TPF24 - Pitch 2mm



Type 1

STANDARD EQUIPMENT

USE SIDE CLAMPS

Type - **1xM10 / 1xM12 / 1xM16**



SELF-CENTERING VISE WITH REVERSIBLE JAWS: Ideal For 5 Axis Machining Centres

2 22 kN				
kN				
A	96	136	176	216
A1		10		
W		88		
B		65		
C		38		
C1		51		
C2		61		
D		90		
E	120	160	200	240
F		52		
L		12		
L1		M8		
kg	3,6	4,4	5,2	5,8

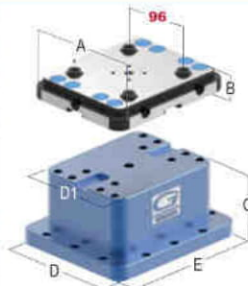
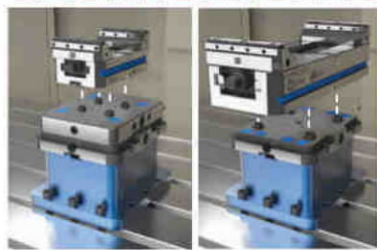
Cod. 7.65.02120 7.65.02160 7.65.02200 7.65.02240

Art. 650

Type 3x310
Example 1
Art. 651H
Type 3
Simple Riser

3 32 kN				
	126	176	226	276
			326	
			10	
			123	
			89	
			57	
			75	
			85	
			125	
	160	210	260	310
			96	360
			18	
			M10	
	9,1	10,9	12,8	14,8
			17	

7.65.03160 7.65.03210 7.65.03260 7.65.03310 7.65.03360

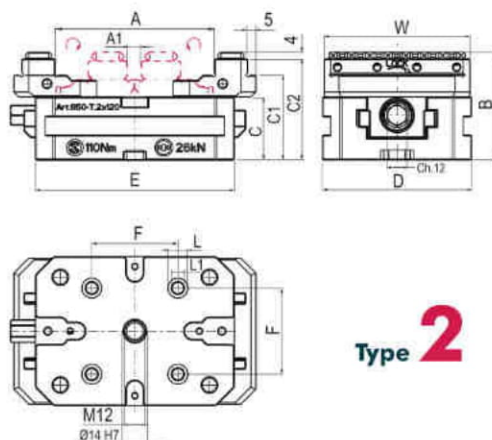
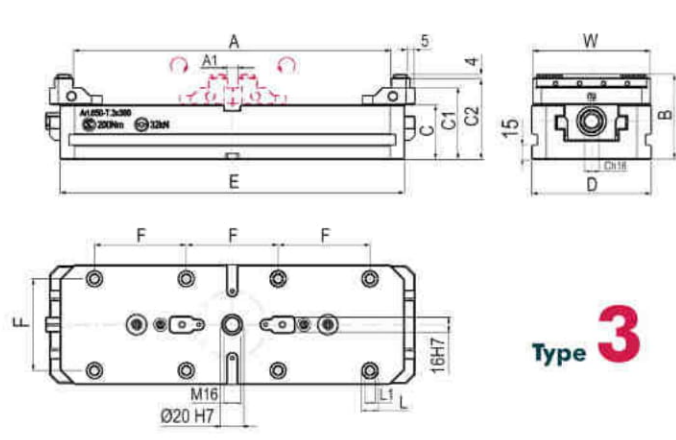

Art. 660
Quick change table
Art. 661H
Simple aluminum riser for quick change table

Type 3	Pitch: 96mm
	190
	27
	100
	176
	136
	210
	5,2
	9.66.09600
	6,5
	9.66.1H200

Example 2

Designed for 5 axis machines, CompactGRIP series of vises allow machining operations on the 5 workpieces sides with perfect alignment in a space saving design, extremely high wear resistance, with reduced deflection.

- No Wear HRC 58 ± 2
- Quick clamping operation
- Modularity & Versatility
- Rigidity & safety thanks to the solid jaws
- Space saving design & handy
- Highest accuracies $\pm 0,02$ mm
- Direct vise set-up or through vise clamps
- Solid and rigid construction and maximum clamping ratio to the total length
- Self-centering vise for clamping parts on outside or inside (by reversing jaw plates)
- Double sided top jaw inserts with full work piece contact on one side and partial on the other
- Front through holes for customized applications (plates, points, etc..)


Type 2

Type 3

WIDE RANGE OF TOP JAW INSERTS FOR VISES Art.650

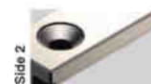
Double sided top jaw inserts with full work piece contact on one side and partial on the other

Pair of top jaw inserts

Art. 650S

SMOOTH + ROUGH

Soft material clamping and final machining



Art. 650R

DOVE TAIL

Best workpiece clamping



Art. 650T G01

GRIP (Pitch 1,5mm)

For standard workpieces hardness clamping



Art. 650T

GRIP (Pitch 2mm)

For hardened workpieces clamping



Art. 650T G11

GRIP (Pitch 11mm)

For soft material clamping



Compatibility

Max compatibility with the most popular pallet change systems.



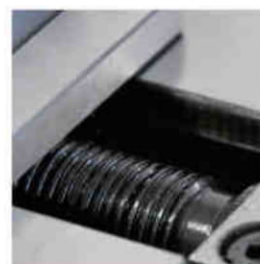
Risers

By the Compact risers it's possible machining areas usually hard to reach.



Versatility

Versatility also thanks to the reversible jaws and to the 4 base positions option (90°)

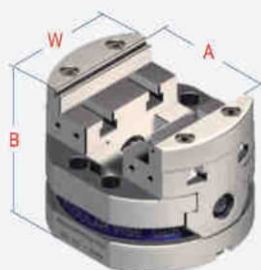
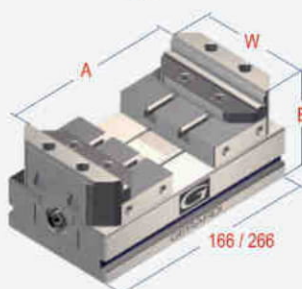


Clamping Power

Much higher clamping power than the existing vises thanks to the clamping screw design

MULTITASKING VISES SERIES

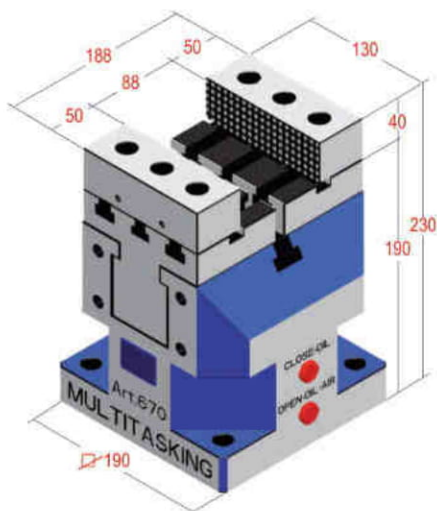
Vises advanced applications on 5 axis machining centres. Self-centering or eccentric
Manual control - Mechanical clamping

Art. 640 type 1 e 2

Art. 640 type 3 x 266


Type	A	W	B
1	74	74	85
2	104	89	115
3 x 166	111		
3 x 266	211	138	113

Art. 640J type 1 e 2

With prismatic jaws for round $\varnothing 30 \div 100$

Art. 670


(*) Use only pneumatic tools with adjustable clutch

Art. 670PN
PNEUMATIC

Pneumatic clamping
 Pneumatic opening

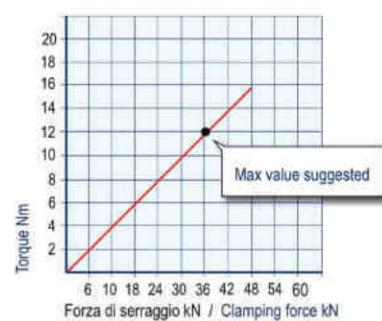
The following diagrams give the clamping force

Art. 670ME

Manual mechanical clamping
 Pneumatic screw EXTRA (*)

Manual opening

Clamping force **40 - 50 kN**


Art. 670MO

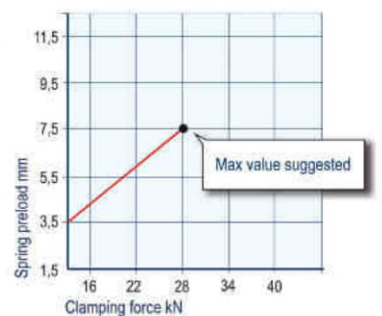
Centralina EXTRA

Power unit EXTRA

Mechanical clamping with spring

Hydraulic opening

Clamping force **20 - 30 kN**


Art. 670ID

Centralina EXTRA

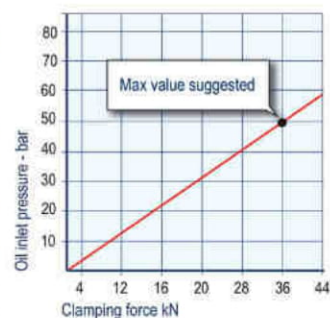
MECHANICAL-HYDRAULIC

Power unit EXTRA

Hydraulic clamping

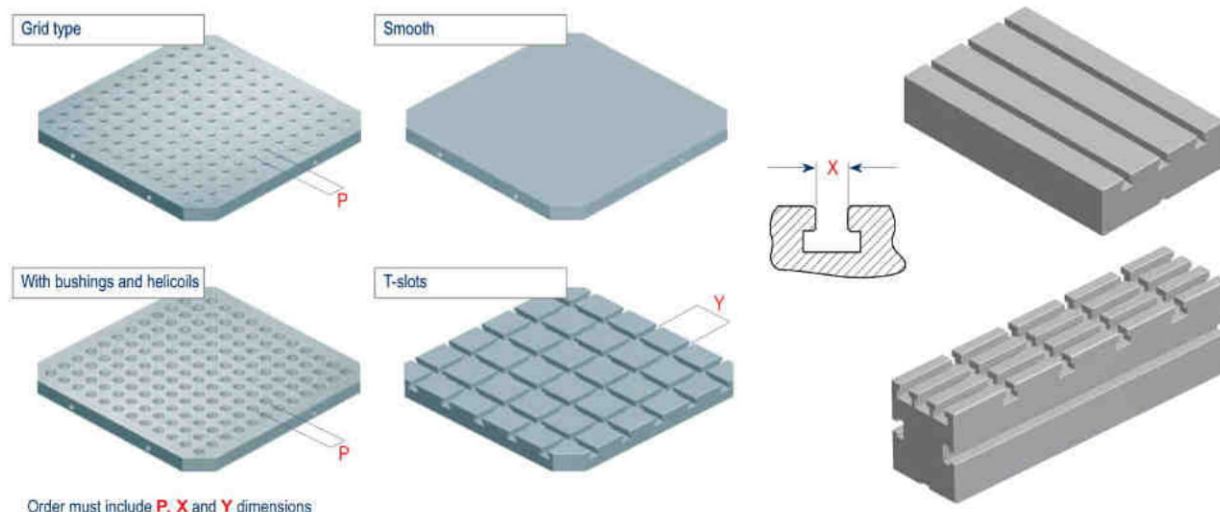
Hydraulic opening

Clamping force **40 - 50 kN**



HEAD PLATES, MODULAR PLATES

Cast iron or steel, interfaced

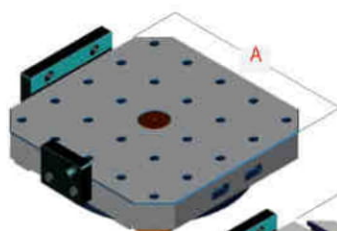


Order must include **P**, **X** and **Y** dimensions

COMPLETE PALLET FOR HORIZONTAL MACHINING CENTRES

Art. 85

Grid pallet type with solid threads M16

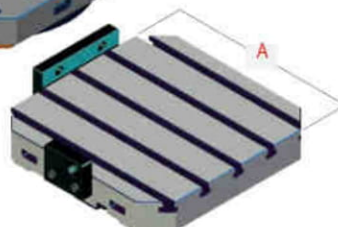


A	400	500	630	800
kg	85	165	270	300

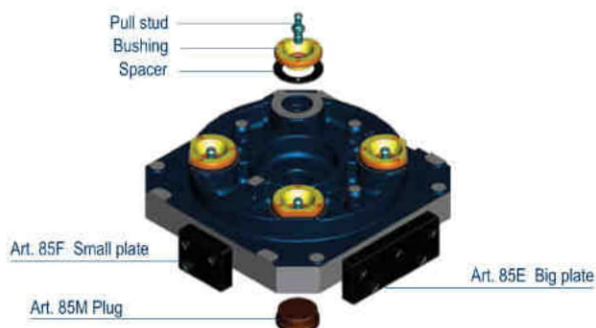
Solid cast iron cast G30 with double stress relieving heat treatment. Highest accuracy

Art. 86

Pallet with T H7 slot



A	400	500	630	800
kg	82	160	247	275

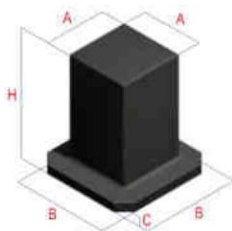


■ All accessories are supplied completely hardened and ground HRC 60

QUICK CHANGE UNIVERSAL CLAMPING PALLET SYSTEM

Zero Point assembled on machining centres pallet



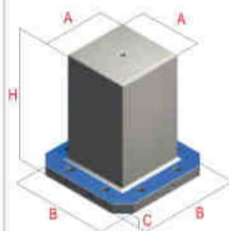
MODULAR TOMBSTONES
CUBES
Art. 53A
Rough milled

 General tolerance ± 2 mm

Dimensions					
A	B	C	H	kg	
170	260	50	300	66	
210	325	50	310	96	
210	360	50	380	119	
210	510	50	610	217	
260	410	50	460	179	
260	460	50	460	195	
260	410	50	560	207	
260	410	50	670	239	
260	510	50	620	258	
260	510	50	660	270	
260	510	50	760	280	
260	640	50	710	337	
260	510	50	1010	397	
280	410	50	520	210	
310	510	50	610	293	
310	510	50	760	345	
310	510	50	910	397	
340	510	50	670	350	
360	510	50	420	252	
360	510	50	460	268	
360	510	50	560	310	
360	510	50	620	334	
360	510	50	710	372	
360	640	50	710	425	
360	640	50	830	496	
360	510	50	830	470	
360	640	50	960	529	
460	640	50	560	431	
460	640	50	660	486	
510	640	50	870	655	
560	760	50	860	763	
510	810	50	810	704	

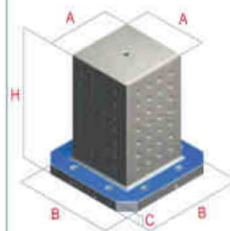
Art. 53B
Base finished

 General tolerance ± 2 mm

Dimensions					
A	B	C	H	kg	
170	250	45	290	61	
210	315	45	300	89	
210	350	45	370	112	
210	500	45	600	203	
260	400	45	450	169	
260	450	45	450	183	
260	400	45	550	197	
260	400	45	660	228	
260	500	45	610	244	
260	500	45	650	255	
260	500	45	750	283	
260	630	45	700	316	
260	500	45	1000	354	
280	400	45	510	198	
310	500	45	600	278	
310	500	45	750	330	
310	500	45	900	383	
340	500	45	660	324	
360	500	45	410	236	
360	500	45	450	253	
360	500	45	550	294	
360	500	45	610	319	
360	500	45	700	356	
360	630	45	700	403	
360	630	45	820	453	
360	500	45	820	420	
360	630	45	950	508	
460	630	45	550	409	
460	630	45	650	463	
510	630	45	860	631	
560	750	45	850	732	
510	800	45	800	671	

Art. 53C
Completely machined

 General tolerance $\pm 0,02$ mm

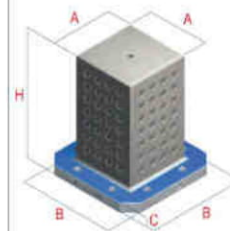
Dimensions					
A	B	C	H	kg	
160	250	40	290	54	
200	315	40	300	79	
200	350	40	370	99	
200	500	40	600	179	
250	400	40	450	150	
250	450	40	450	164	
250	400	40	550	174	
250	400	40	660	201	
250	500	40	610	215	
250	500	40	650	225	
250	500	40	750	250	
250	630	40	700	279	
260	500	45	1000	311	
270	400	40	510	176	
300	500	40	600	247	
300	500	40	750	293	
300	500	40	900	338	
330	500	40	660	288	
350	500	40	410	212	
350	500	40	450	226	
350	500	40	550	263	
350	500	40	610	284	
350	500	40	700	317	
350	630	40	700	359	
350	630	40	820	402	
350	500	40	820	370	
350	630	40	950	450	
450	630	40	550	367	
450	630	40	650	415	
500	630	40	860	565	
550	750	40	850	656	
500	800	40	800	600	

Art. 53E
Grid cube


Art. 53E 40

Art. 53E 50

Same dimensions of Art. 53C

Art. 53F
Grid cube with bushing


Art. 53F 40

Art. 53F 50

Weight: - 5% about of Art. 53C

Specifications
Art. 53A

 One integral G30 cast iron casting rough milled with double stress relieving heat treatment.
Wall thickness 43-45mm (10mm stock)

Art. 53B

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.

Art. 53C

Cube completely finished with wall thickness roughly 38-40mm

Art. 53E 40 / 50

 Cube with calibrated holes and solid threads
Tolerance $\pm 0,02$ mm

- Grid pitch 40mm = $\varnothing 12 / M10$
- Grid pitch 50mm = $\varnothing 16 / M12$

Art. 53F 40 / 50

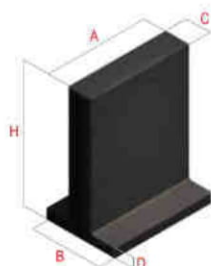
 Cube with hardened bushing 100Cr6 and stainless steel helicoils / Tolerance $\pm 0,02$ mm

- Grid pitch 40mm = $\varnothing 12 / M10$
- Grid pitch 50mm = $\varnothing 16 / M12$

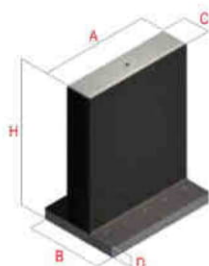
! For different finishing and materials (aluminium), ask for specific quotation

MODULAR TOMBSTONES

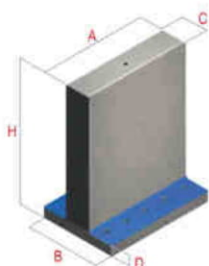
2 SIDES TOMBSTONES

Art. 55A
Rough milled

 General tolerance ± 2 mm

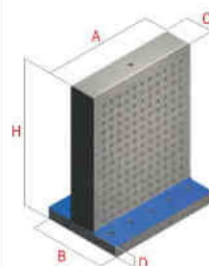
Dimensions					
A	B	C	D	H	kg
170	210	80	55	235	31
360	260	90	60	425	124
410	360	110	60	535	221
410	410	160	60	510	215
410	410	160	55	670	262
510	510	160	55	710	350
510	510	210	60	610	340
460	360	110	60	535	241
460	360	110	60	630	283
560	360	110	70	660	368
510	360	160	60	660	307
460	360	160	60	620	289
460	360	160	60	760	316
560	360	160	70	680	352
560	460	160	60	830	430
640	460	160	60	830	486
640	460	260	70	910	586
640	640	210	60	870	579
640	640	260	60	710	521
360	460	160	70	660	250
810	460	160	70	860	649
810	810	310	60	810	782

Art. 55B
Base finished

 General tolerance ± 2 mm

Dimensions					
A	B	C	D	H	kg
160	200	80	50	225	29
350	250	90	55	415	114
400	350	110	55	525	207
400	400	160	55	500	199
400	400	160	50	660	244
500	500	160	50	700	331
500	500	210	55	600	316
450	350	110	55	525	227
450	350	110	55	620	267
550	350	110	65	650	350
500	350	160	55	650	289
450	350	160	55	610	271
450	350	160	55	750	297
550	350	160	65	670	332
550	450	160	55	820	406
630	450	160	55	820	460
630	450	260	65	900	551
630	630	210	55	850	545
630	630	260	55	700	485
350	450	160	65	650	232
800	450	160	65	850	610
800	800	310	55	800	732

Art. 55C
Completely machined

 General tolerance $\pm 0,02$ mm

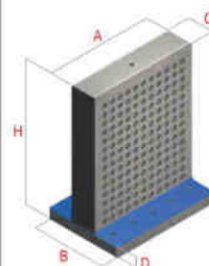
Dimensions					
A	B	C	D	H	kg
160	200	70	45	225	24
350	250	80	50	415	103
400	350	100	50	525	190
400	400	150	50	500	193
400	400	150	45	660	222
500	500	150	45	700	290
500	500	200	50	600	287
450	350	100	50	525	208
450	350	100	50	620	245
550	350	100	60	650	321
500	350	150	50	650	263
450	350	150	50	610	250
450	350	150	50	750	271
550	350	150	60	670	303
550	450	150	50	820	369
630	450	150	50	820	418
630	450	250	60	900	508
630	630	200	50	850	504
630	630	250	50	700	447
350	450	150	60	650	213
800	450	150	60	850	555
800	800	300	50	800	674

Art. 55E
Grid cube


Art. 55E 40

Art. 55E 50

Same dimensions of Art. 55C

Art. 55F
Grid cube with bushing


Art. 55F 40

Art. 55F 50

Weight: - 5% about of Art. 55C

Specifications
Art. 55A

One integral G30 cast iron casting rough milled with double stress relieving heat treatment.
Wall thickness 43-45mm (10mm stock)

Art. 55B

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.

Art. 55C

2 sides tombstone completely finished with wall thickness roughly 38-40mm

Art. 55E 40 / 50

2 sides tombstone with calibrated holes and solid threads
Tolerance $\pm 0,02$ mm

- Grid pitch 40mm = $\emptyset$ 12 / M10
- Grid pitch 50mm = $\emptyset$ 16 / M12

Art. 55F 40 / 50

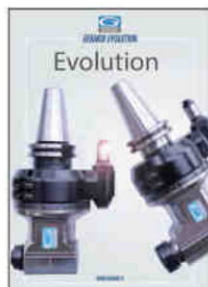
2 sides tombstone with hardened bushing 100Cr6 and stainless steel helicoils / Tolerance $\pm 0,02$ mm

- Grid pitch 40mm = $\emptyset$ 12 / M10
- Grid pitch 50mm = $\emptyset$ 16 / M12

! For different finishing and materials (aluminium), ask for specific quotation

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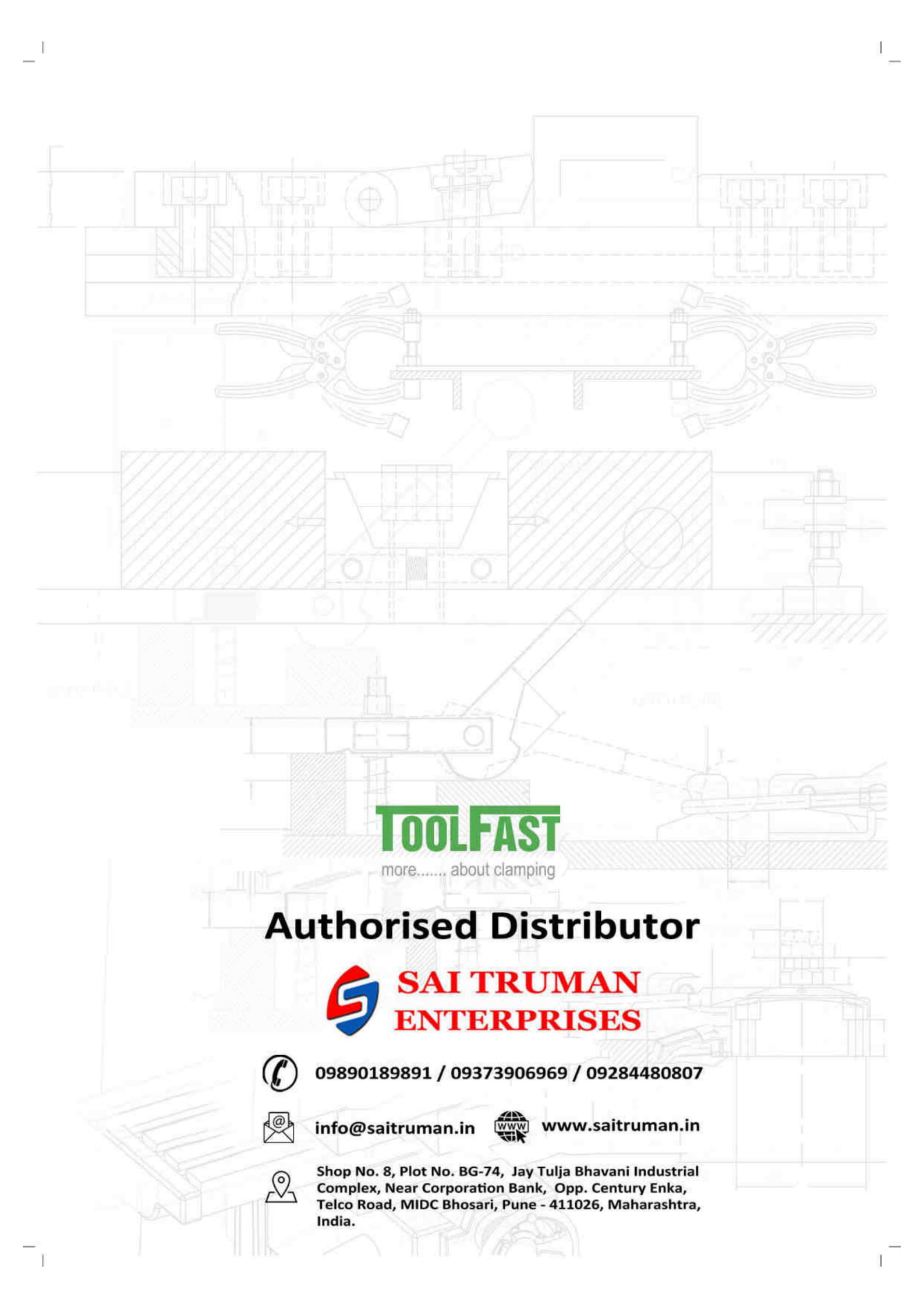


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