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CATALOG

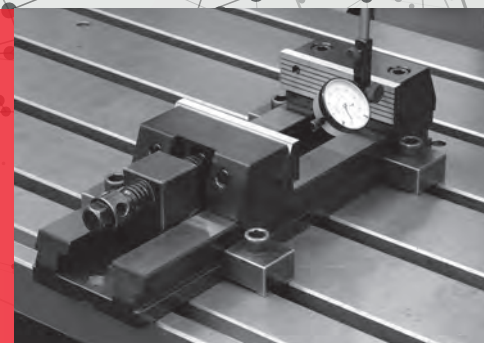
MACHINE VICES

AND MILLING HEADS

CONFIDENCE

INNOVATION

QUALITY



PERFECT



30-30G Descending machine vice



Multitask vices



Machine vice for large pieces - 30P



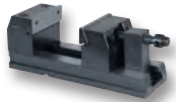
High split vice



Vice to make square



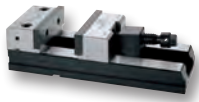
Vices for cubes



High jaw machine vice



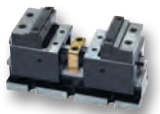
Lifting block for machine vices



Straight jaws vices - 29



Vice with protected spindle



Twin self centering and centering vices



Double position vices

4	INDEX	19
6	INDEX	20
7	INDEX	21
8	INDEX	21
9	INDEX	22
9	INDEX	23-34
10	INDEX	35-41
11	INDEX	42-44
11	INDEX	45-48
12	INDEX	50-53
13	INDEX	54-57
14-16	INDEX	58-59
17-19	INDEX	60-64

5 axis vices



31 serie vices



CLÁSICA

Grinding machine vice



Multi-agular position vice



Sinus machine vice



Accessories



Internal milling head



KM nut spanner



Integrated clamping vice tower



Drilling vices



PROFESIONAL

Clam and vices



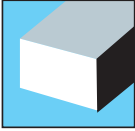















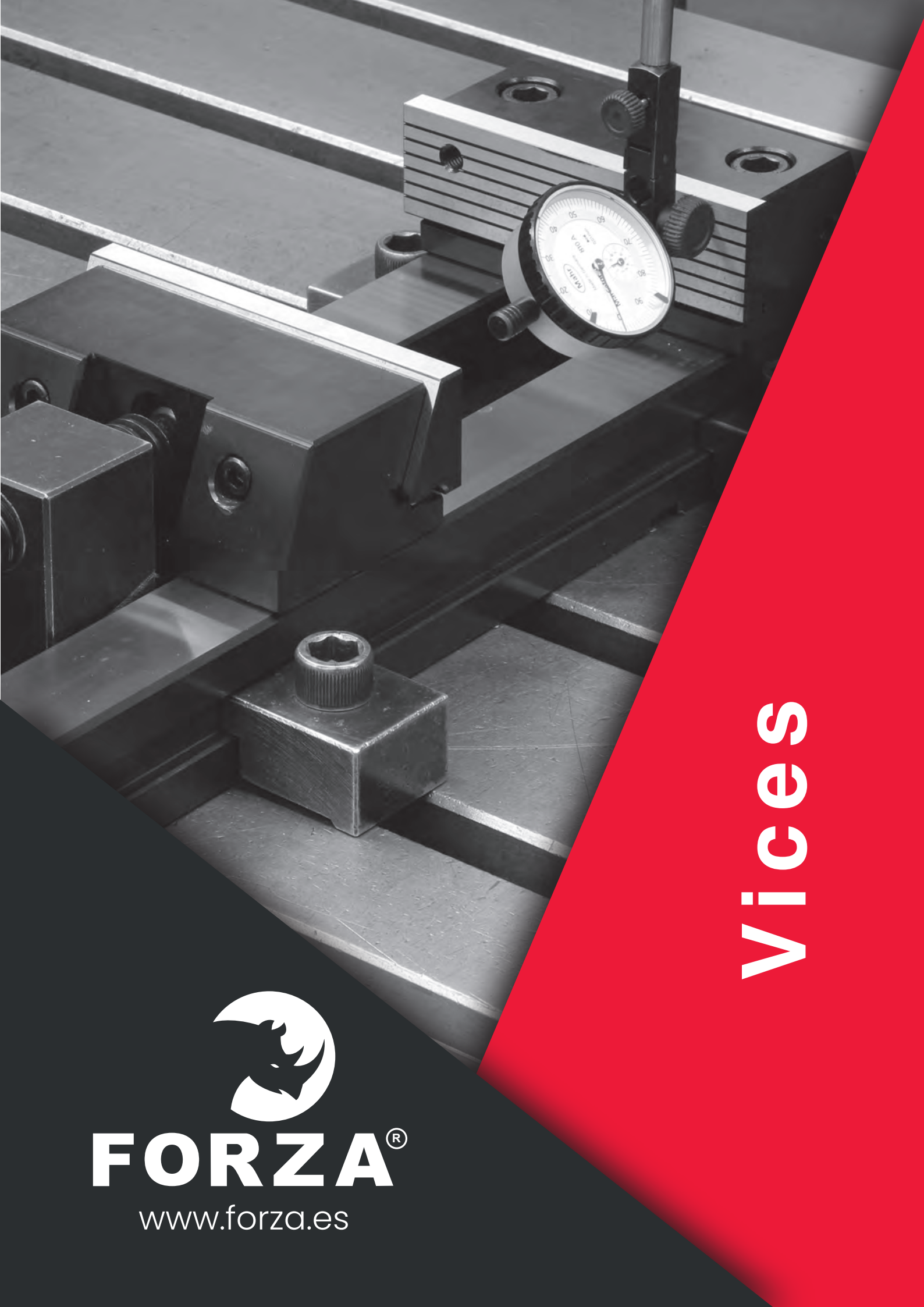
Magnetics holder and Quicks



Toolholders and knurling tools



Nodular casting material			Jaws with descending effect
Hardened steel			Soft jaws
Quick course selection			Control certificate
Finishing tolerance			With alinement keyways
Interchangeable lock			Parallelism < 0,02 mm
Swivel base admitted			DOESN'T admit swivel base
Guide movable jaws support			Oscillating movable jaws support
Mechanical lock			Clamps



Vices



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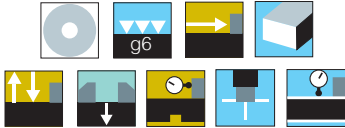


High precision vices for all machining works including milling, drilling and grinding
 Manufactured in hardened steel HRc 60 (F155)
 The vices can be fastened either to a T slot table or for zero point upon request



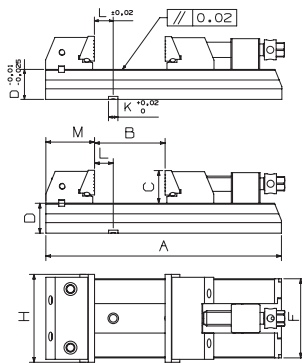
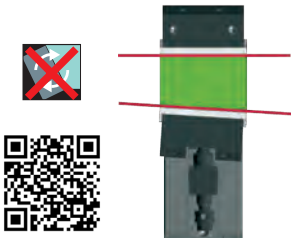
Bullet points

- Non guided vice with oscillating jaw holder for a better fastening adjustment. The non guided mechanism makes easy the fastening of irregular pieces
- While fastening, the descending jaw effect perfectly place the working piece over the vice body or parallel
- Interchangeables locks
- Hex head spindle with a hole for fastening with a handle as well
- 2 sets of clamps included.

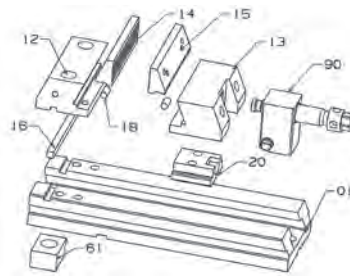







Each include a certificate with measurement of the main dimensions, made with Zeiss machine.

NON guided vices with oscillating effect



Guided vices without oscillating effect



Ref. No Guided	A	B	C	D	F	H	L	M					Ref. Guided	
30/100	250	109	33,5	37	90	100	18,6	51.5	12561	12	B/100	8,9	30/100G	7,5
30/100L	296	150	33,5	37	90	100	18,60	51.5	12561	12	B/100	8,0	30/100GL	8,65
30/125	300	130	40	42	110	125	22,0	66	12561	12	B/125	14,1	30/125G	13,9
30/125L	346	175	40	42	110	125	22,0	66	12561	12	B/125	14,6	30/125GL	15,4
30/125R	345	140	53	49	115	125	3,0	82,5	15061	16		28,6	-	-
30/125RL	395	189	53	49	115	125	3,0	82,5	15061	16		29,7	-	-
30/125S	371	200	40	42	110	125	22,0	66	12561	12	B/125	14,8	-	-
30/125RS	418	218	53	49	115	125	3,0	82,5	15061	16		27,0	-	-
30/150	402	200	56	51	135	150	32,2	83	15061	16	B/150	27,0	30/150G	29,2
30/150L	452	250	56	51	135	150	32,2	83	15061	16	B/150	28,0	30/150GL	30,9
30/150S	503	300	56	51	135	150	32,2	83	15061	16	B/150	31,7	30/150GS	31,0
30/150X	527	325	56	51	135	150	32,2	83	15061	16	B/150	32,8	30/150GX	33,1
30/175	432	225	58	56	135	175	35,0	85	15061	16	B/150	34,0	30/175G	34,3
30/175L	482	275	58	56	135	175	35,0	85	15061	16	B/150	36,5	30/175GL	36,5
30/175S	556	350	58	56	135	175	35,0	85	15061	16	B/150	39,9	30/175GS	43,7
30/175X	610	400	58	56	135	175	35	85	15061	16	B/150	42,4	30/175GX	43,0
30/200	470	250	66	61	160	200	52,2	92,5	20061	16	B/200	48,6	30/200G	47,0
30/200L	520	300	66	61	160	200	52,2	92,5	20061	16	B/200	51,5	30/200GL	52,0
30/200S	570	350	66	61	160	200	52,2	92,5	20061	16	B/200	53,7	30/200GS	54,6
30/200X	595	375	66	61	160	200	52,2	92,5	20061	16	B/200	55,2	30/200GX	56,1
30/200XL	675	455	66	61	160	200	52,2	92,5	20061	16	B/200	57,8	-	-
30/250	530	300	76	66	200	250	47,5	97,5	20061	20		70,0	30/250G	70,0
30/250L	580	350	76	66	200	250	47,5	97,5	20061	20		75,0	30/250GL	75,0
30/250S	680	450	76	66	200	250	47,5	97,5	20061	20		85,0	30/250GS	85,0
30/250X	755	525	76	66	200	250	47,5	97,5	20061	20		92,0	30/250GX	93,0
30/300	670	390	83	79	245	300	38,5	121.5	30061	20		130,0	-	-
30/300L	770	490	83	79	245	300	38,5	121.5	30061	20		145,0	-	-
30/300S	870	590	83	79	245	300	38,5	121.5	30061	20		160,0	-	-

Price without swivel base. / The vice with a 300 mm jaw it has only cross keyways.
 The guided jaw includes an oscillating T to make it non-guided.



MULTITASK VICES FOR T SLOT TABLES



Mordaza universal para todo tipo de operaciones, sobre todo para realizar la segunda operación en máquinas de 5 ejes.

Universal vices for a huge range of machining operations

Specially designed for the second operation at the 5 axes machines

Series for T slot tables

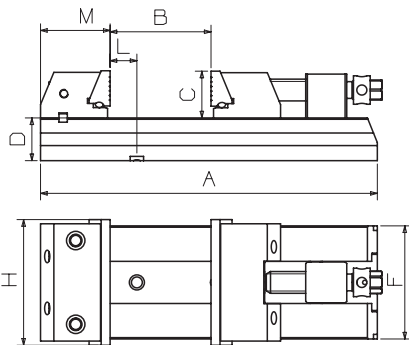
Clamping force of 5T

Highly compact at maximum opening

Jaws with descending effect

Manufactured in alloy Steel with a IONIT OX treatment which increases the surface hardness of the treated parts, maintaining a tenacious core and increasing corrosion resistance

Spindle with electroless nickel coating, corrosion and wear resistant



Series for T-slotted tables

Ref.	A	B	C	D	M	H		
30/125RB	345	150	52	49	82,5	125	96	20,0
30/125LRB	400	200	52	49	82,5	125	96	21,0



Series for zero point tables

Ref.	A	B	C	D	M	H	L	Zero point	
30/125RA1	345	150	52	49	85	125	15	96	18,0
30/125LRA1	400	200	52	49	85	125	15	96	19,0

Do you want to see how we manufacture the jaws?





MACHINE VICES FOR LARGE PIECES

30P

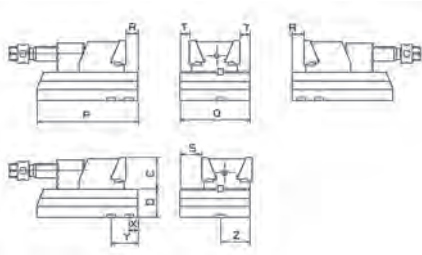
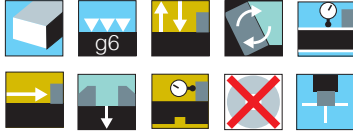


Split vice suitable for machining large pieces
 Manufactured in hardened steel HRc 60 (F155)
 2 sets of clamps included






Bullet points

- The fixed part is reversible so 2 different clamping alternatives available
- Interchangeable locks
- Descending jaws effect.

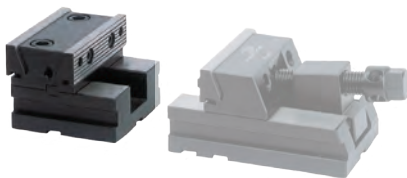


Video of machining with split vices.

Ref.	C	D	P	Q	R	S	T	X	y			
30/100P	33,5	37	140	90	50	30	13	17	42	12	1251261	10,0
30/125P	40	42	150	103	55	35	16	22	50	12	1251261	13,5
30/150P	56	51	180	125	58	40	20	26	58	16	1501261	25,1
30/200P	66	61	190	140	63	44	22	26	58	16	2001261	44,4

FIXED PART VICE

30PF






Fix part of the split vice suitable for machining large pieces
 Manufactured in hardened steel HRc 60 (F155)



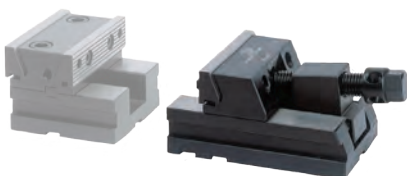
Bullet points

- Descending jaw effect
- The fixed part is reversible so 2 different clamping alternatives available

Ref.	C	Q	T			
30/100PF	33,5	90	13	12	1251261	4,6
30/125PF	41	103	16	12	1251261	8,3
30/150PF	56	125	20	16	1501261	12,3
30/200PF	66	140	22	16	2001261	20,5

MOBILE PART VICE

30PM






Movable part of the split vice suitable for machining large pieces
 Manufactured in hardened steel HRc 60 (F155)



Bullet points

- Interchangeable locks
- Descending jaws effect.

Ref.	C	P	R			
30/100PM	33,5	140	50	12	1251261	5,4
30/125PM	41	150	55	12	1251261	8,3
30/150PM	56	180	58	16	1501261	14,6
30/200PM	66	190	63	16	2001261	24,1



HIGH SPLIT MACHINE VICES

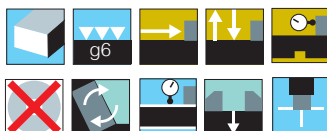
30VP

Suitable vice for clamping large pieces
Manufactured in hardened steel HRc 60 (F155)
2 sets of clamps included



Bullet points

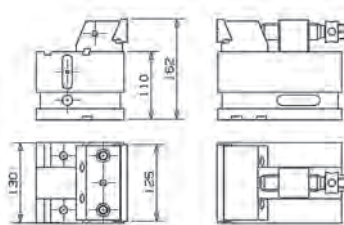
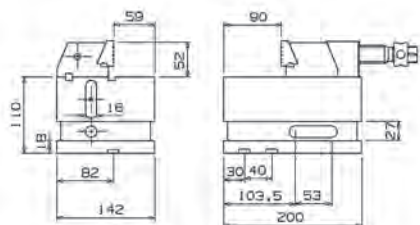
- Two clamping heights:
- 110mm height placing the piece to the vice body
- 150mm height placing the piece on the T table
- Jaws with descending effect.



Video application



Ref.	A			
30V125P	390	15061	16	48,0



MACHINE VICE TO SQUARE

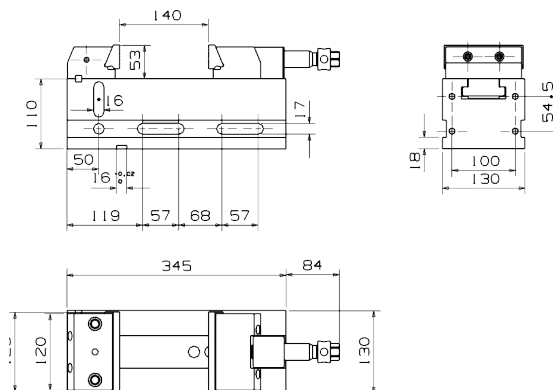
30V

Vice that guarantees a perfect square to the piece on an easy way
Manufactured in hardened steel HRc 60 (F155)



Bullet points

- Interchangeables locks
- Descending effect jaws.



Steps to follow for perfect squaring



Ref.	A	B			
30V125	345	140	15061	16	45,0



MACHINE VICES FOR CUBES

High precision vices suitable for horizontal machining centers
 Manufactured in hardened steel HRC 60 (F155)

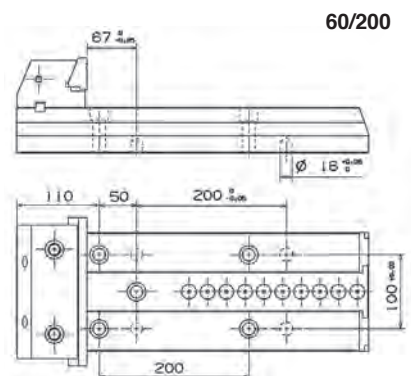
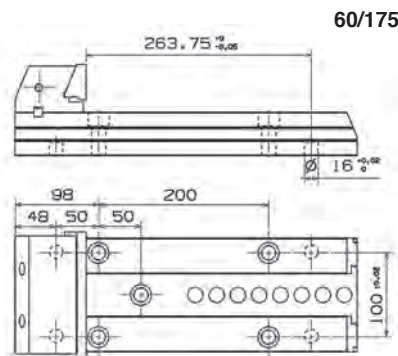
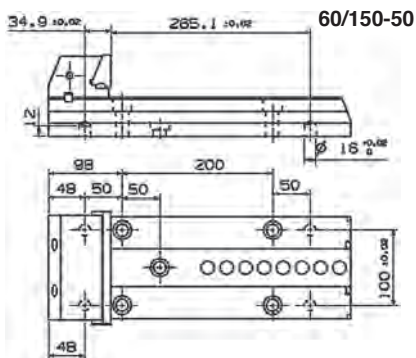
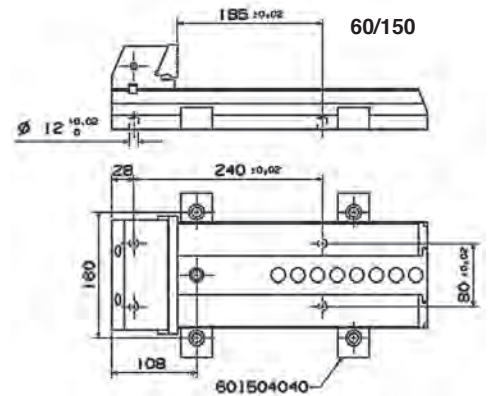
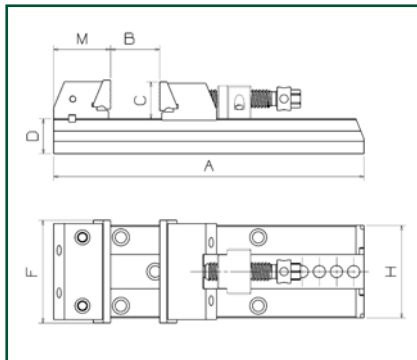
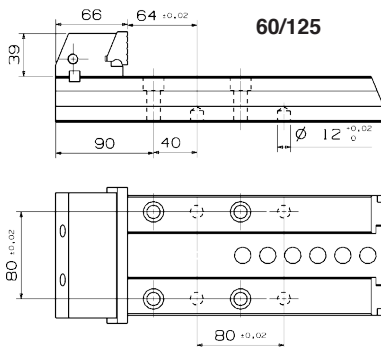


Bullet points

- The straps pitch is also customizable for zero point
- Descending effect jaws
- Movable jaw holder with oscillating effect for a better piece adjustment
- Interchangeable locks.



Ref.	A	B	D	C	F	H	P	⚖
60/125	328	130	42	40	110	125	40	14,0
60/125L	346	175	42	40	110	125	40	15,0
60/150	402	200	51	56	135	150	40	28,0
60/150-50	403	200	51	56	135	150	50	27,0
60/150L	452	250	51	56	135	150	40	30,0
60/150L-50	452	250	51	56	135	150	50	29,0
60/175	432	225	56	58	135	175	50	34,0
60/175L	482	275	56	58	135	175	50	37,0
60/200	470	250	61	66	160	200	50	44,0
60/200L	520	300	61	66	160	200	50	49,0
60/200XL	830	600	61	66	160	200	50	69,0



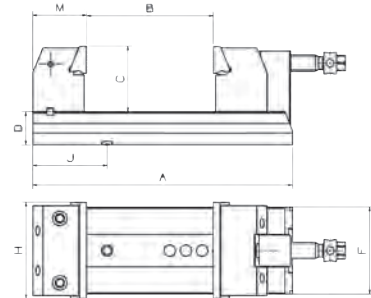
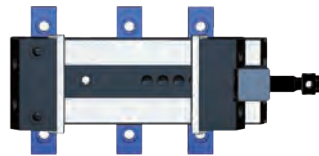
HIGH JAW MACHINE VICE 300

Vices for machining high height pieces
Manufactured in hardened steel HRc 60 (F155)



Bullet points

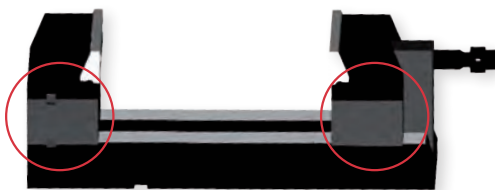
- Jaws with descending effect. While fastening, the descending jaw effect perfectly place the working piece over the vice body or parallel
- Oscillating movable jaw holder for a better piece adjustment
- It is strongly suggested to assemble the vice with 3 set of clamps



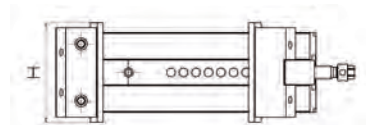
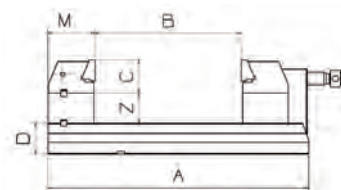
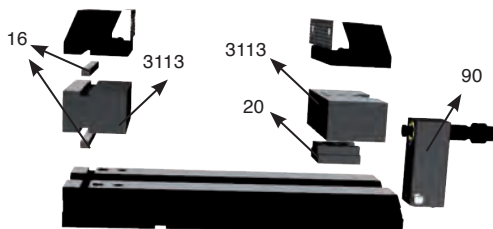
Ref.	A	B	C	D	F	H	J	M			
300/150	402	200	101	51	135	150	115	83	15061	16	35,0
300/150L	452	250	101	51	135	150	115	83	15061	16	37,0
300/200	470	250	130	61	160	200	145	93	20061	16	62,6
300/200L	520	300	130	61	160	200	145	93	20061	16	66,0
300/200S	570	350	130	61	160	200	145	92,5	20061	16	68,0
300/200X	595	375	130	61	160	200	145	93	20061	16	69,0

LIFTING BLOCK 15031

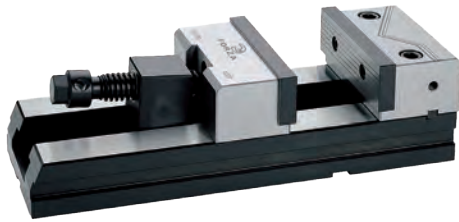
Lifting block for serie 30 perfect vices
Non guided blocks suitable for non guided vices. In case of guided vices it is necessary to change the T and it will be non guided.



Ref.	Z	H	
15031	60	150	12,9
20031	60	200	18,5
25031	60	250	21,5
30030031	60	300	34,5



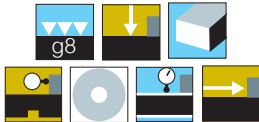
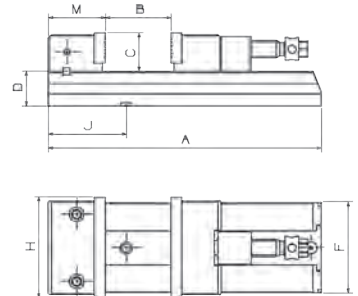
Set of 2 lifting block, spindle blocks keynut and screws.



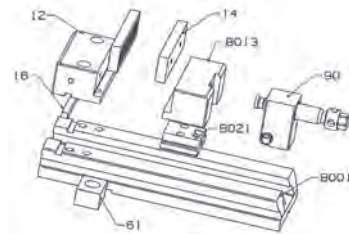
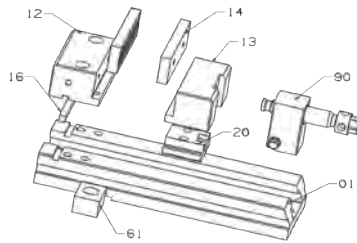
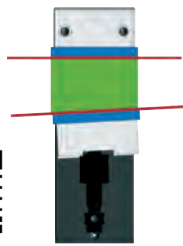
Straight jaws mechanical vices
 Does not lift the work piece while tighten with the spindle
 Interchangeable locks.
 The jaw adapts to the piece
 It is possible to use together with a swivel base

Bullet points

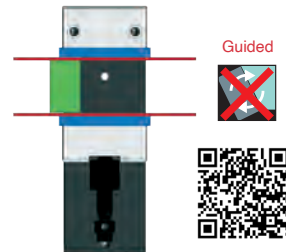
- Non guided vice for a better clamping of irregular pieces
- It does not lift the pieces when tightening.







NO guided machine vice



Guided machine vice



Ref. NO guided	A	B	C	D	F	H	J	M					Ref. Guided	A
29/100	250	109	34	37	90	100	70	50	12561	12	B/100	10,1	29/100G	10,0
29/100L	296	150	34	37	90	100	70	50	12561	12	B/100	9,1	29/100GL	9,0
29/125	300	130	40	42	110	125	88	64	12561	12	B/125	14,1	29/125G	13,2
29/125L	346	175	40	42	110	125	88	64	12561	12	B/125	14,6	29/125GL	14,7
29/125S	371	200	40	42	110	125	88	64	12561	12	B/125	14,9	-	-
29/150	402	200	56	51	135	150	115	84	15061	16	B/150	29,0	29/150G	27,5
29/150L	452	250	56	51	135	150	115	84	15061	16	B/150	27,0	29/150GL	29,2
29/150S	503	300	56	51	135	150	115	84	15061	16	B/150	30,7	29/150GS	31,8
29/150X	528	335	56	51	135	150	115	84	15061	16	B/150	31,8	-	-
29/175	432	225	58,5	56	135	175	120	86	15061	16	B/150	34,0	29/175G	34,0
29/175L	482	275	58,5	56	135	175	120	86	15061	16	B/150	36,5	29/175GL	36,5
29/175S	556	350	58,5	56	135	175	120	86	15061	16	B/150	40,0	29/175GS	40,0
29/175X	610	400	58,5	56	135	175	120	86	15061	16	B/150	42,5	-	-
29/200	470	250	65,5	61	160	200	145	92,5	20061	16	B/200	47,0	29/200G	44,0
29/200L	520	300	65,5	61	160	200	145	92,5	20061	16	B/200	50,0	29/200GL	49,0
29/200S	570	350	65,5	61	160	200	145	92,5	20061	16	B/200	52,1	29/200GS	56,4
29/200X	595	375	65,5	61	160	200	145	92,5	20061	16	B/200	53,6	-	-
29/200XL	675	455	65,5	61	160	200	145	92,5	20061	16	B/200	54,9	-	-

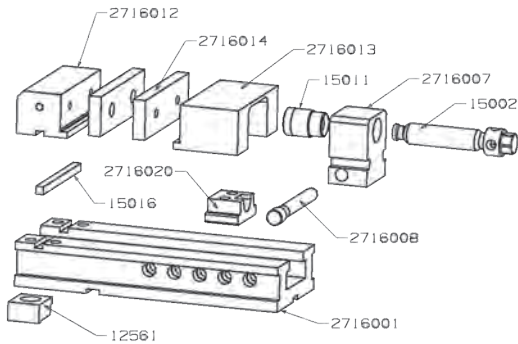
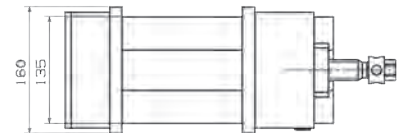
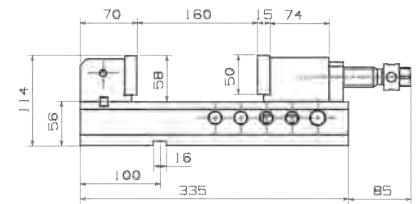
VICE WITH PROTECTED SPINDLE

Vice with protected spindle that avoids for getting damaged or collapsed
 Manufactured in hardened steel HRc 60 (F155)



Bullet points

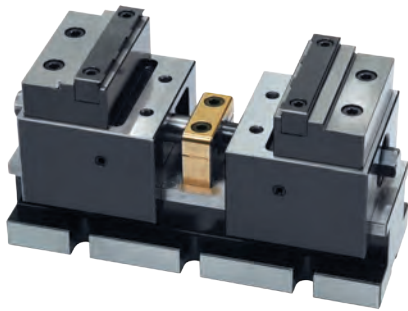
- Opening position selection with lateral pin
- Tight clamping of the pieces without lifting them from the base
- The spindle is protected in order to avoid any damage or collapse.



Ref.	Opening	Width	Height	⚖️
27160	160	160	114	26,5



SELF CENTERING 5 AXIS MACHINE VICES 24



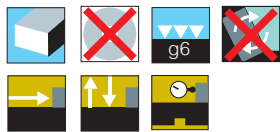
Versatile precision vices suitable for automation on 5-axis machines
The compact design, technical characteristics and jaw holders and jaws geometry allow to fasten a big range of pieces
Manufactured in hardened steel HRc 60 (F155).





Bullet points

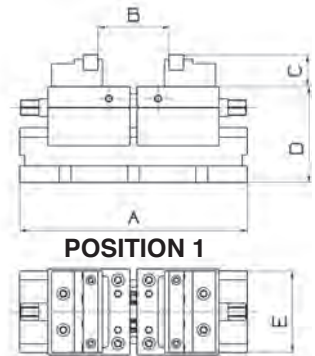
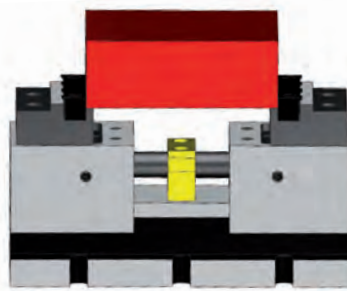
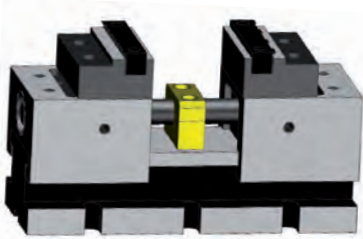
- Reversible jaws holder that allow two different fastening solutions
- Reversible jaws, smooth on one side and grip jaw-plates on the other
- Trapezoidal thread spindle

Video 

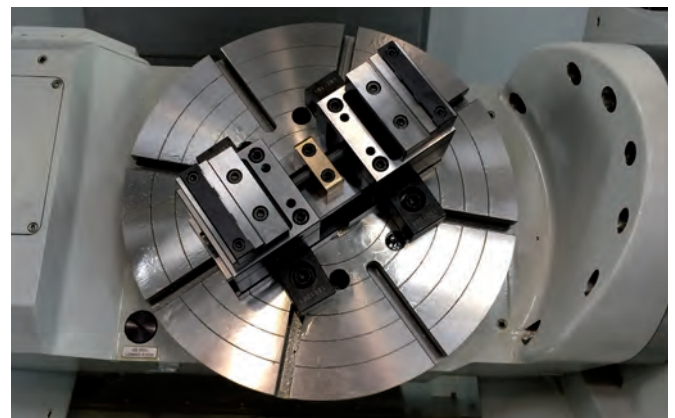
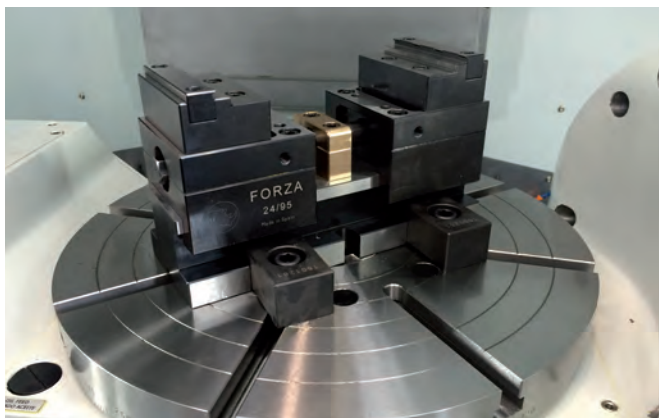
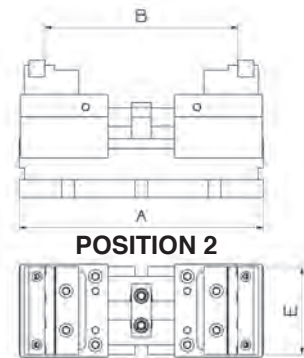
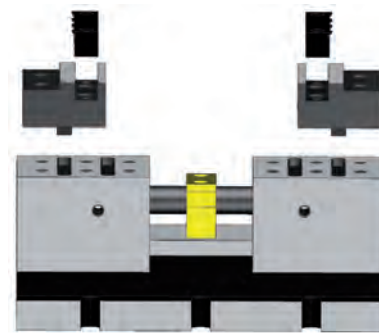
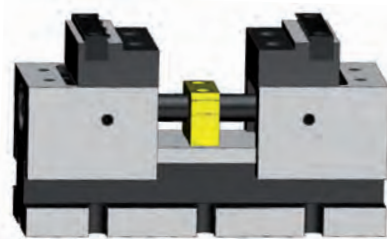


Ref.	A	Opening pos.1	Opening pos.2	C	D	E		
24/75	192	12-110	60-155	28	90	70	12561	9,0
24/95	250	20-140	80-200	35	105	90	15061	20,0
24/100	394	45-285	105-345	38	105	100	15061	24,0

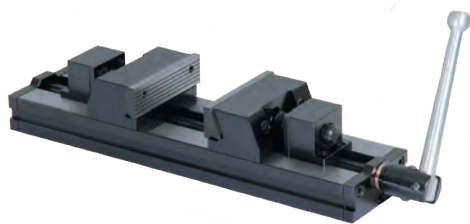
Position 1



Position 2



SELF CENTERING VICES 26

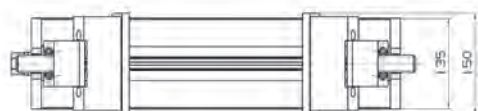
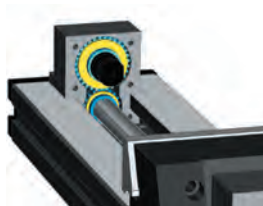
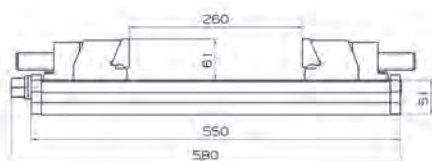


High strength vice with self centering mechanism suitable for any machining work or even grinding
Manufactured in hardened steel HRc 60 (F155)



Bullet points

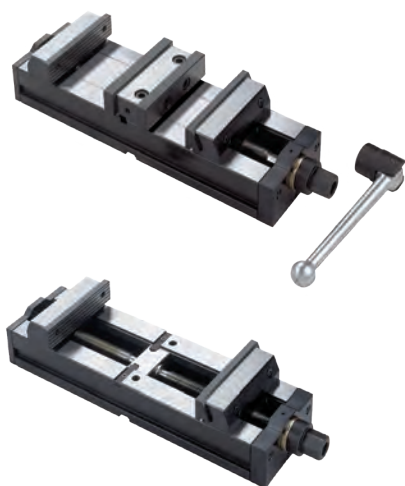
- Multiplier system in the spindle block for less effort while fastening
- Selfcentering mechanism that secures the fastening center
- Descending jaws effect.



Ref.	A	BC	B	C1	D	E		
26/150	710	74	520	150	76	122	15061	37,4

It need 2 sets.

TWIN-SELF CENTERING VICES CF

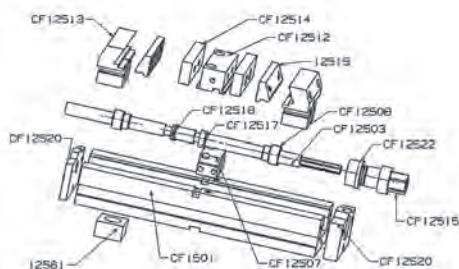
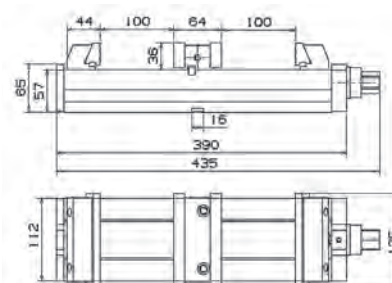


High precision selfcentering vice adequate for manufacturing either 2 pieces or more simultaneously
Manufactured in hardened steel HRc (F155)



Bullet points

- Fixed position spindle for a more convenient handling. It does not change the vice maximum opening
- Removable fixed part for fastening one big size piece
- Selfcentering mechanism that secures the fastening center
- Descending effect jaws.

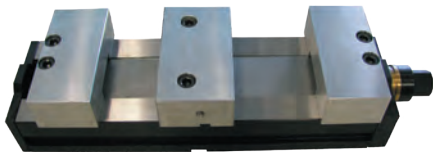


Ref.	A	B	Maximum distance mouth	Width			
CF/125	435	100	260	125	12	12561	21,0

It need 2 sets.

SOFT JAWS MACHINE VICE

CFA

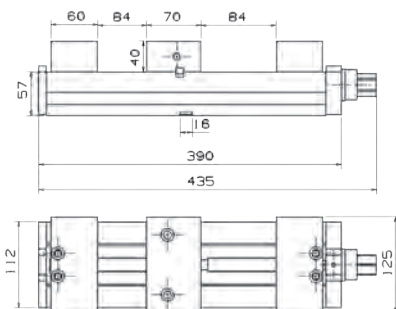


Twin vice with selfcentering mechanism and aluminium jaw holder for machining depending on the geomtry of the manufactured piece
Vice body and jaws manufactured in hardened steel F155
Vices can be fastened either with clamps to the T table and valid as well upon request for zero point






Bullet points

- Aluminium jaws facilitate fastening tooling manufacture
- Fixed position spindle for a more convenient handling. It does not change the vice maximum opening
- Selfcentering mechanism that secures the fastening center



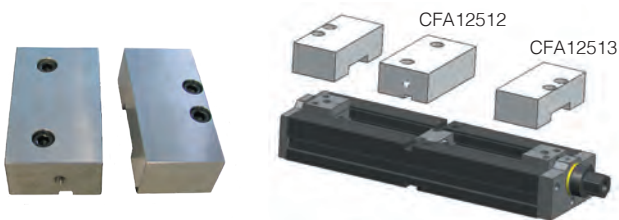
Application CFA/125



Ref.	A	B	Width	Base height			
CFA125	435	84	125	57	16	12561	20,0


JAWS HOLDER

CFA12510



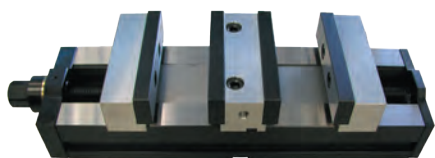
Aluminum jaw holder to machining them according to the geometry of the parts to be manufactured



Ref.	
CFA12512	0,9
CFA12513	0,8

ALUMINIUM JAWS MACHINE VICE

CFB

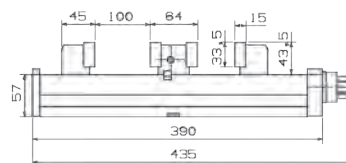
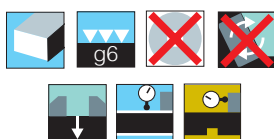
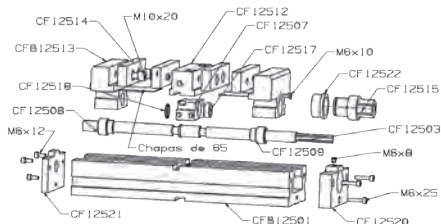


Twin vice with selfcentering mechanism and aluminium jaw holder and tempered straight jaws
Vice body and jaws manufactured in hardened steel F155
Vices can be fastened either with clamps to the T table and valid as well upon request for zero point



Bullet points

- Tempered straight jaws for a better fastening of the piece
- Fix positioning spindle for an easy use. The total length does not vary while opening the vice
- Selfcentering mechanism for securing the fastening center.



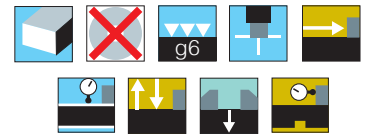
Ref.	A	B	Width	Base height			
CFB125	435	100	125	57	16	12561	20,0



DOUBLE POSITION 125mm DESCENDING MACHINE VICES

125D

High precision double vice with 125mm jaws width and descending effect designed for machining 2 pieces at the same time.
Manufactured in hardened steel HRc (F155)



Bullet points

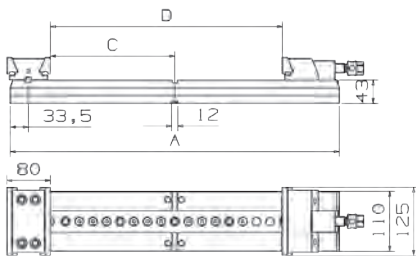
- Two different ways of working with the same vice
- Double vice: It is possible to fasten 2 pieces at the same time or it is also possible to fix the central jaw holder and fasten two pieces independently
- Standard vice: It can be modified to a normal vice for machining big size pieces while removing the central jaw holder
- The 4 jaws have a descending effect.



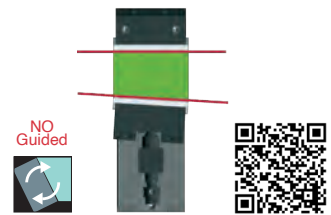
Double vice



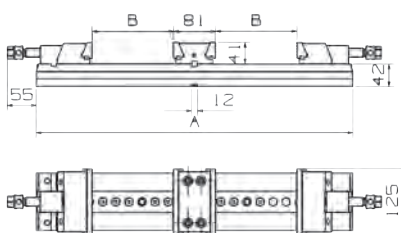
Simple vice



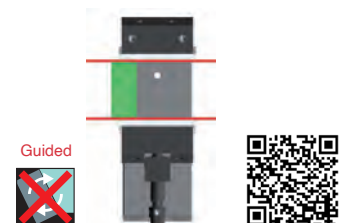
Non-guided jaws with oscillating effect



Ref.	A	B	D	C	Type		
DD125/500	504	102	-		Double	12561	24,5
DD125/500-1	504	-	320	178	Simple	12561	19,5
DD125/600	604	152	-		Double	12561	25,0
DD125/600-1	604	-	425	228	Simple	12561	21,0



Guided jaws without oscillating effect



Ref.	A	B	Includes	D	C	Type		
DD125/500G	504	102	2 T oscillatings			Double	12561	22,0
DD125/500G-1	504	-	1 T oscillating	320	178	Simple	12561	19,7
DD125/600G	604	152	2 T oscillatings			Double	12561	25,0
DD125/600G-1	604	-	1 T oscillating	425	228	Simple	12561	21,0

Double position vice includes 2 oscillating T and simple vices includes 1 oscillating T

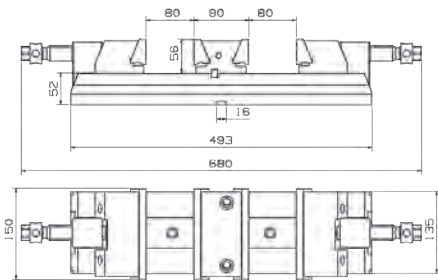
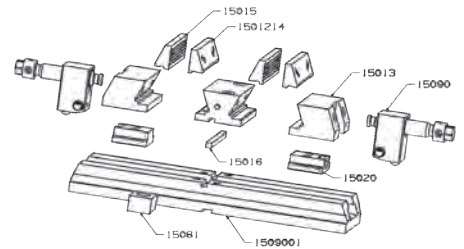
DOUBLE POSITION 150mm MACHINE VICE **30D**




High precision double vice with 150mm jaws with and descending effect designed for machining 2 pieces at the same time
Manufactured in hardened steel HRc (F155)



Bullet points

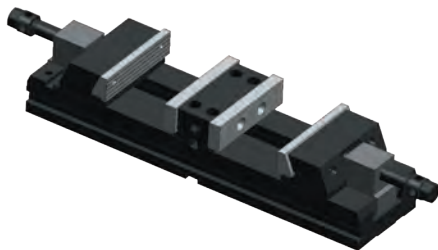
- Very compact vice
- Oscillating jaws holders that get adapt to the geometry of the piece
- Adequate vice for working with oil pneumatic cylinders (reference 15080)



Ref.	A	B	C	Width			
30/150D	680	90	56	150	16	15061	40,0

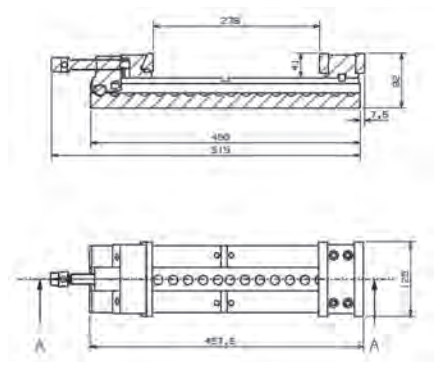
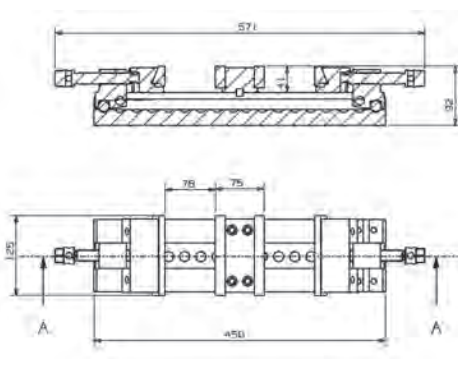
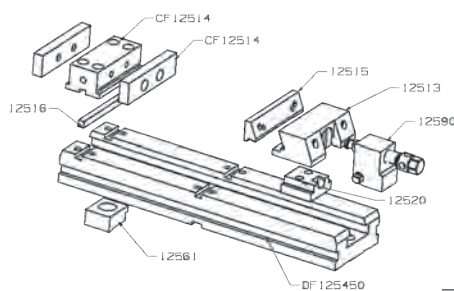
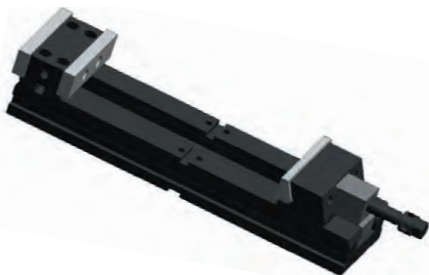
DOUBLE POSITION 125mm MACHINE VICE **30DF**



Double vice with straight jaws and descending effect
The central jaw holder can be fastened in the central part and it allows to fasten two pieces independently
It is also possible to place at the end of the vice body. In this way, it will be a normal vice with a wide opening



Bullet points

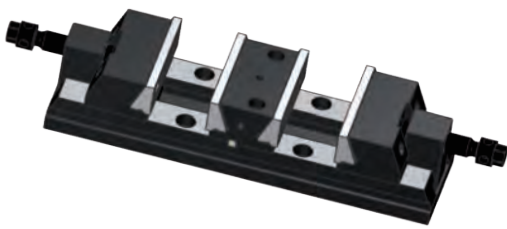
- Non guided vice for a better fastening of irregular pieces
- Two different uses with the same vice
- Oscillating jaws holder for a better adjustment to the piece



Ref.	A	B	2xb	Length	Maximum mouths distance pos.1	Maximum mouths distance pos.2		
DF125/450	450	278	78	450	78	278	12561	24,0

DOBLE POSITION VICE SERIE 60D

60/150D

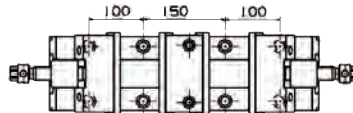
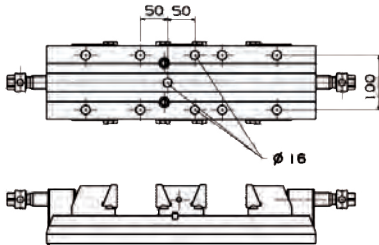


High precision double vice with 150mm jaws with and descending effect designed for machining 2 pieces at the same time that works on horizontal machining centers with cubes
Manufactured in hardened steel HRc (F155)



Bullet points

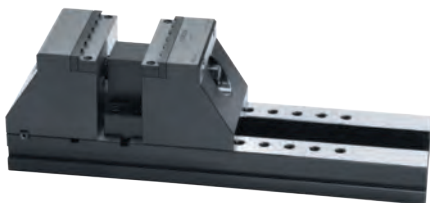
- Double vice: this vices fastens two pieces independently
- The 4 jaws have a descending effect
- Oscillating jaws holders that get adapt to the geometry of the piece.



Ref.	Step	
60/150D	50	40,0

5 AXIS MACHINE VICE

25

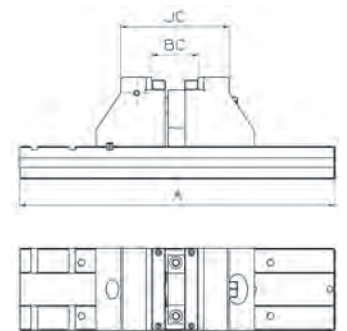
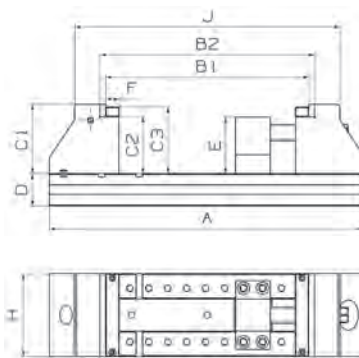
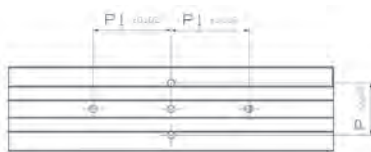


Vice specially designed for 5 axes machines where the piece is clamping only on a few millimeters



Bullet points

- The fix jaw holder has 3 different clamping positions
- The spindle is completely hidden and it incorporates bearings that ease the clamping
- The jaws holder can be machined for regulating the jaws step height
- Reversible jaws, smooth on one side and grip jaw-plates on the other.



Ref.	A	BC	B1	B2	C1	C2	C3	D	E	F	H	JC	J	P	P1		
25/130	500	74	320	340	110	90	105	51	90	21	130	171	420	80	120	20061	42,0
25/130L	600	74	420	440	110	90	105	51	90	21	130	171	520	80	120	20061	45,0
25/160	470	-	220	270	190	150	160	61	150	30	160		360			20061	77,0
25/175	590	74	370	400	150	125	140	76	122	25	175	182	480	100	100	20061	89,0
25/175L	710	74	490	520	150	125	140	76	122	25	175	182	600	100	100	20061	98,0

GRIP JAW-PLATES

Indented jaws that facilitate the machining piece clamping
A set consists on 2 units. Valid for all vices serie 25



Ref.		
2513024	25/130	0,2
2517524	25/175	0,5

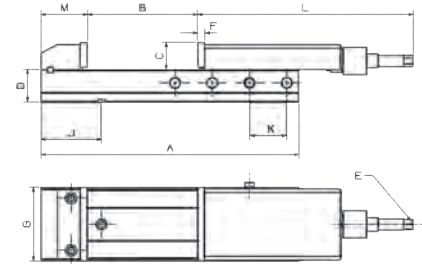
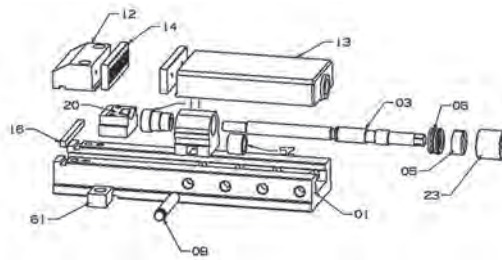
MECHANICAL MACHINE VICE **31**





Master vice with a mechanical spindle for machining operations in milling machines



Bullet points

- Mechanical spindle equipped with an axial bearing to reduce the effort
- Protected spindle that prevents damage, get dirty and avoid to collapse
- Four opening positions selectable with a pin
- Aluminum trolley with hard anodizing, same strength as steel but three times lighter.



Ref.	A	B	C	D	E	F	G	J	K	L	M				
31/125-	430	210	48	66	14	12	125	115	60	355	85	15061	16	GN/125	26,0
31/125L	490	270	48	66	14	12	125	115	60	355	85	15061	16	GN/125	28,5
31/160	554	325	59	70	22	16	160	130	80	465	107	1501261	16	GN/160	49,0
31/160L	634	400	59	70	22	16	160	130	80	465	107	1501261	16	GN/160	53,7

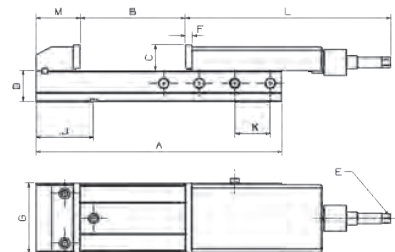
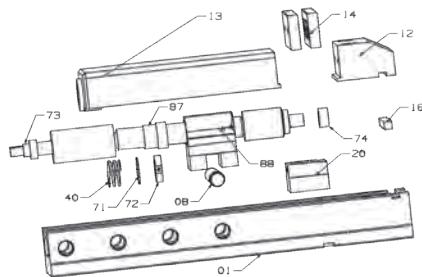
HYDRAULIC MACHINE VICE **31H**





Master vice with a mechanical spindle for machining operations in milling machines



Bullet points

- Protected spindle that prevents damage, get dirty and avoid to collapse
- Four opening positions selectable with a pin
- Aluminum trolley with hard anodizing, same strength as steel but three times lighter.



Ref.	A	B	C	D	E	F	G	J	K	L	M				
31/125H-	430	210	48	66	14	12	125	115	60	355	85	15061	16	GN/125	26,0
31/125HL	490	270	48	66	14	12	125	115	60	355	85	15061	16	GN/125	28,5
31/160H	554	295	59	70	16	16	160	130	80	482	107	1501261	16	GN/160	49,0
31/160HL	634	375	59	70	16	16	160	130	80	482	107	1501261	16	GN/160	53,7



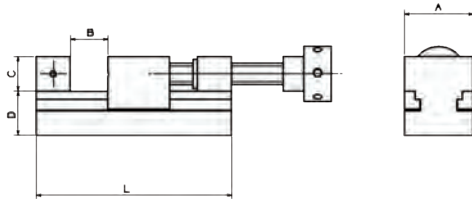
GRINDING MACHINE VICE

32D

Vice for grinding machine

Bullet points

- Manufactured in hardened steel F155 at 60HRc.
- Trapezoidal spindle that ease the clamping.



Ref.	A	B	L	D	
32/60D	60	55	110	25	2,4
32/80D	80	100	220	40	6,5
32/100D	100	125	260	45	13,0
32/125D	125	160	300	50	19,5
32/150D	150	175	315	50	23,8

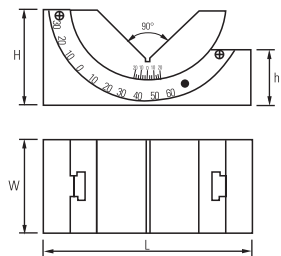
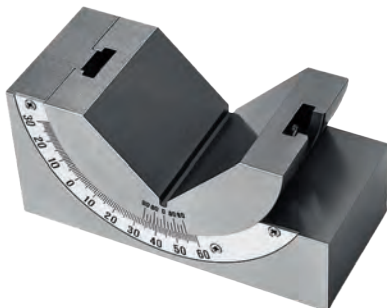
MULTI-ANGULAR POSITION

32M

Perfect item for the angular positioning of the pieces

Bullet points

- Pieces clamping in different angular positions..



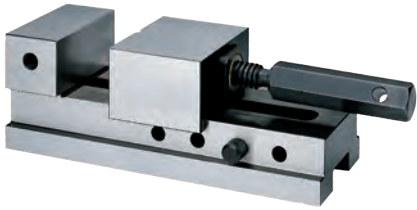
Ref.	H	W	L	h	
32/25M	32	25	75	22	0,5
32/30M	46	30	102	28	1,0
32/46M	47	46	102	28	1,5



GUARANTEED QUALITY

HIGH PRECISION VICE

32N




Suitable professional vice designed for high precision grinding work

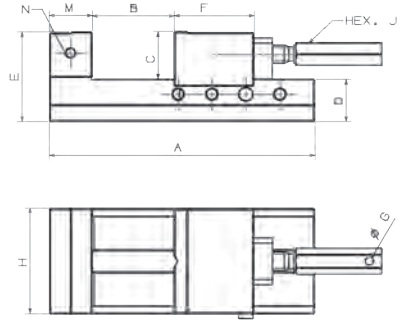


Bullet points

- Manufactured in hardened steel F155 at 60HRc.
- Perfect fastening in regards to adjustable positions by a bolt
- Tolerance in parallelism and perpendicularity $\pm 0,01$ mm.



Ref.	A	B	C	D	E	F	ØG	H	J	M	
32/50N	148	70	25	25	50	45	8	50	14	25	2,0
32/75N	194	91	34	34	68	57	8	75	19	35	4,5
32/100N	250	123	45	40	85	75	6	100	22	40	9,5



SINUS MACHINE VICE

32S

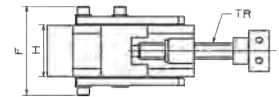
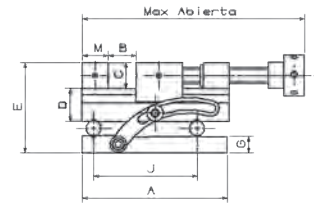



Perfect vice for the angular positioning of the pieces



Bullet points

- Vice with inclination from 0 to 45°
- The angle is achieved by introducing gage blocks into the support.



Ref.	A	B	C	D	E	F	G	H	J	M	TR	MAX. A	
32/50S	140	60	25	32	87	87	20	50	100	25	20X4	350	5,0
32/80S	200	95	40	44	121	122	26	80	100	34	24X5	433	8,0
32/100S	245	125	45	50	139	145	16	100	100	38	25516X4	255	15,0





Accessories for vices



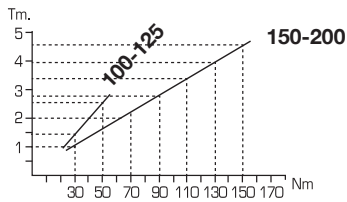
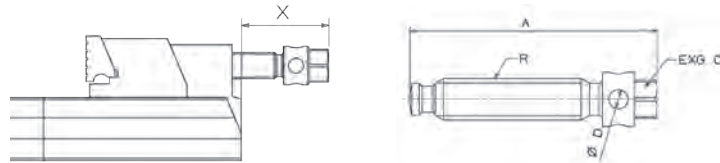
FORZA[®]



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MECHANICAL COMPLETE SPINDLE



Complete mechanical block with spindle included.
It can be assembled on vices serie 30, 29 and 60.



Ref.	A	C	ØD	R	Spindle			
					X1 standar	X2 Short		
10090	120	22	10	M18x2,5	65	50	100	0,7
12590	120	22	10	M18x2,5	60	50	125	1,0
15090	154	24	12	TR26x5	95	75	150-175-200	2,0
25090	154	24	12	TR26x5	85	65	250	3,1
3030090	189	28	18	TR30x5	100	-	300300	4,3

VERTICAL POSITION SPINDLE

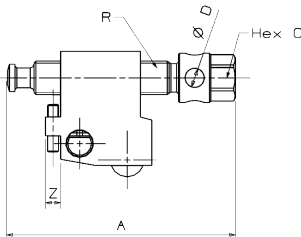




Complete mechanical block with spindle included.
It can be assembled on vices serie 30, 29 and 60.



Bullet points

- It is suggested when the vice is in a vertical position in an horizontal machining center.



Ref.	A	C	ØD	R	X	Z		
12594	120	22	10	M18x2,5	55	9	125	1,0
15094	154	24	12	TR26x5	85	11	150 - 175 - 200	2,0
25094	255	24	18	TR26x5	85	11	250	3,1

COMPLETE SPINDLE SPARE PARTS

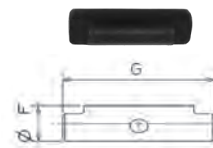
Standard spindle



Short spindle







Replacement bolt



Bronze cap





	Ref.	A	R	C	Ø		Ref.	A		Ref.	A	F	G	Ref.	
100	10002	120	M18X2,5	22	10	0,2	10022	104	0,2	10008	13	13	44	-	-
125	15002	154	TR26X5	24	12	0,5	10022	104	0,19	12508	14	14	55	-	-
150-175-200	3030002	189	TR30X5	26	18	0,8	15022	134	0,4	15008	16	16	68	15011	0,1
250							15022	134	0,44	25008	18	18	87	15011	0,13
300							-	-	-	3030008	18	18.	87	3030011	0,4

MECHANICAL BLOCK WITHOUT SPINDLE



Horizontal spindle



Ref.		
10091	100	0,4
12591	125	0,8
15091	150-200	1,4
25091	250	1,6
3030091	300	3,5

Vertical spindle





Ref.		
125942	125	0,4
150942	150-200	1,1
250942	250	2,5

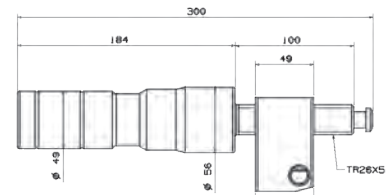
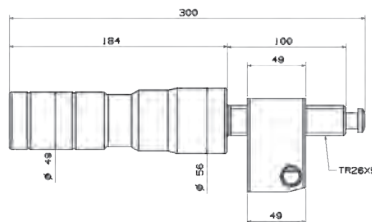
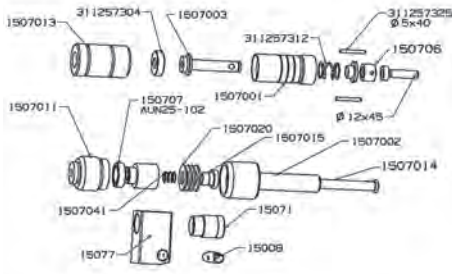
HYDRAULIC SPINDLE



This 5 T spindle works with an oil closed deposit
While introducing the piston, the force multiplies because of different diameters
For machine vices serie 29,30 y 60



Ref.		Stroke	
15070	150-175-200	2mm	8,2



TORQUE MULTIPLIER

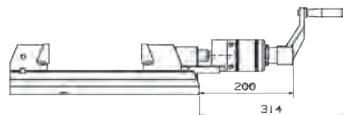
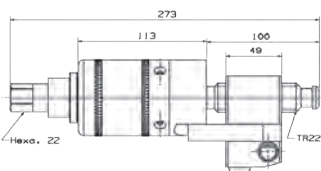




The torque multiplication system is carried out by an internal planetary gear mechanism that multiplies the clamping force by 4
It can be assembled on vices serie 30, 29 and 60



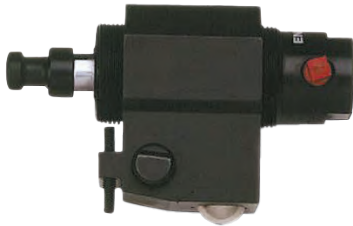
Bullet points

- It includes an angular measurement system for knowing the fastening tons
- Unlimited fastening race.

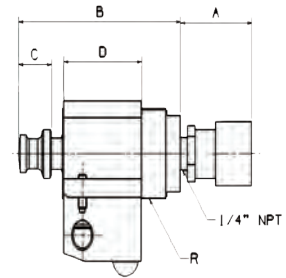




Ref.		Stroke	
15092	150-175-200	2mm	5,8

COMPLETE HYDRAULIC SPINDLE



When this spindle is assembled into the vice, the maximum opening is reduced to "F".
It is essential to use an oleo-pneumatic pump to operate the spindles.




Ref.	A	B	C	D	R	TON		F	
10080	53	95	23	45	M36x 1,5	2	100	7	0,9
12580	53	95	23	48	M36 x 1,5	2	125	10	1,2
15080	53	128	25	58	M48 x 1,5	5	150-200	27	2,4
25080	53	128	25	51	M48 x 1,5	5	250	20	3,1

AIR HYDRAULIC PUMP AND ACCESSORIES



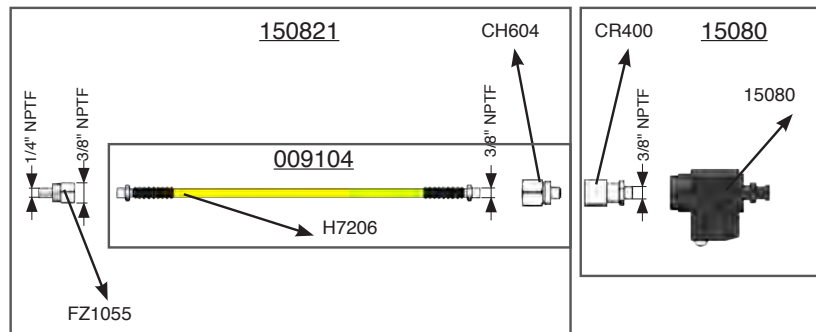
Pump to operate the oilpneumatic spindles
It works for all type of vices
Hose included



Ref.	Psi	Ref.	Description	
09105	700	150821	Manguera con racores	1,1
		150822	Distribuidor 2 salidas + racores	0,2
		150823	Distribuidor 3 salidas + racores	0,3

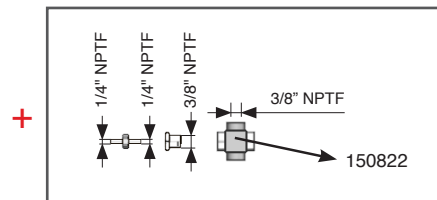
ONE PUMP ONE VICE

15082



ONE PUMP TWO VICES

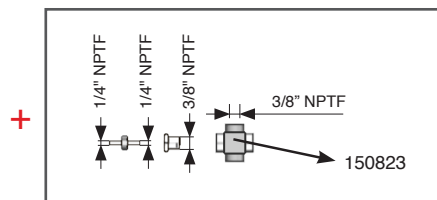
15082



+	009104	+	15080
+	009104	+	15080

ONE PUMP THREE VICES

15082



+	009104	+	15080
+	009104	+	15080
+	009104	+	15080

VICE BODIES EXTENSIONS



Body vices extensions



Note: the extensions are valid for Serie 30, 29 and 60

The extensions are not guided, they can not be used for guided vices



Bullet points

- Manufactured in hardened steel F155 at 60HRC
- Reversibles: Three keyways on each side so 6 different fastening positions are achieved in the machine

Ref.	A	B	C	D		
1252211	110	150	15	21	1251261	3,6
1502211	135	180	19	32	15061	6,5
1752211	135	180	19	32	15061	7,5
2002211	160	200	24	32	2001261	11,7
2502211	200	242	31	36	20061	19,5

ELBOWED HANDLE



Articulated rod for vices serie 29,30 y 60.

Bullet points

- 24mm hex wrench very comfortable on machines with limited lack of space.



Ref.	Description	
15004	150 - 175 - 200 - 250	0,9

CLAMPS FOR MACHINE VICES





Clamps for standard vices

All the clamps supplied for M16 screws

Set of 2 units

For machine vices serie 29,30 y 60.



Ref.		
12561	100 - 125	0,5
15061	150 - 175	0,8
20061	200 - 250	0,8
3030061	300	2,7

CLAMPS FOR SPLIT VICES





Clamps for split vices

All the clamps supplied for M16 screws

Set of 2 units

For machine vices serie 29,30 y 60.



Ref.		
1251261	100 - 125	0,5
1501261	150	0,8
2001261	200	1,0

ALIGNEMENT KEYNUTS

15041





15042



Alignment keynuts for vices
Keynuts are indispensable for a perfect vice alignment
Set of 2 units
For machine vices serie 29,30 and 60.



Ref.	Metric		Ref.	Metric	
12540	12/12	0,1	15045	18/18	0,1
12541	12/14	0,1	15046	18/20	0,1
12544	12/16	0,1	15049	18/22	0,1
12547	12/18	0,1	25043	20/18	0,1
12549	12/22	0,1	25044	20/20	0,1
12543	14/14	0,1	25045	20/22	0,1
12545	14/16	0,1	25048	20/28	0,2
15040	16/14	0,1			
15041	16/16	0,1			
15042	16/18	0,1			
15043	16/20	0,1			
15044	16/22	0,1			
15048	16/28	0,2			

T SLOTS




Slot nuts for fastening the vices to the T table

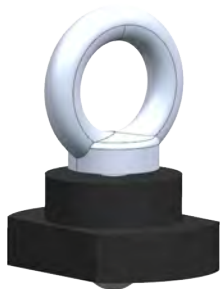
Bullet points

- Manufactured for not damaging the channels of the T table.

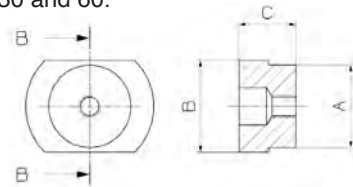




Ref.	A	B	Metric	
150T16	16	25	M-14	0,1
395644	18	28	M-16	0,1
395645	20	32	M-16	0,1
395646	22	35	M-16	0,2
395647	24	40	M-16	0,3

EYEBOLT



To safely lift vices
Locking system in order not to slide
For machine vices serie 29,30 and 60.





Ref.	A	B	C		
15035	45	50	31	150 - 200	0,8

SQUARE RUBBERS



Set of 4 units for having 4 good fastening points
Note: It is suggested to the change yearly the rubbers
For machine vices serie 30 and 60.

Ref.		
10018	100	0,1
12518	125	0,1
15018	150 - 175	0,1
20018	200	0,1
25018	250 - 300	0,1

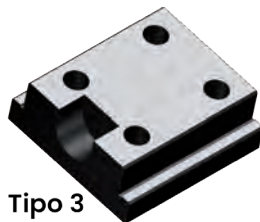




T SUPPORTS

100T

Lower T support of the mobile jaw
For machine vices series 29,30 and 60



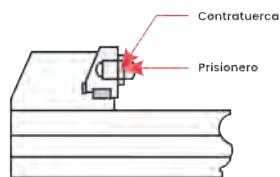
Ref.	Type	Description	A	B	C	
10020	1	Standard oscillating T	8	20	32.5	0,2
12520	1	Standard oscillating T	10	23	39	0,4
15020	1	Standard oscillating T	12.5	27	49	0,6
20020	2	Standard oscillating T	12.5	27	49	0,7
25020	2	Standard oscillating T	16	29	69	1,0
3030020	3	Standard oscillating T	18	33	69	1,5
1008021	1	Guided T	11	23	32.9	0,4
1258021	1	Guided T	13	26	40.9	0,4
1508021	1	Guided T	16	28.5	50.9	0,7
2008021	2	Guided T.	16	28.5	50.9	0,9
2508021	2	Guided T	16	29	70.9	0,9
1008020	1	T oscillating guided vice	11	23	32.5	0,3
1258020	1	T oscillating guided vice	13	26	40.9	0,4
1508020	1	T oscillating guided vice	16	28.5	50.9	0,6
2008020	2	T oscillating guided vice	16	28.5	50.9	0,9

POSITIONING BOLT

10059



To fasten irregular or very coarse working pieces (forged, iron cast, metal plasma cutting with oxycatylene...).



Ref.		Locknut	
10059	100 - 125	M-8	0,1
15059	rest	M-10	0,1

WORK STOP

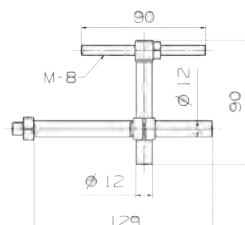
10058



Essential side work stop in any vice for lateral positioning
For machine vices series 29,30 and 60

Bullet points

- Available in normal and long length (L)
- Easy to use design and extremely precise.







Ref.		Length	
10058	100	90	0,4
10058L	100	120	0,5
15058	resto	90	0,4
15058L	resto	120	0,5

SWIVEL BASE FOR DESCENDING VICES



Swivel base for descending effect vices
It allows to rotate and slide for changing the center
For machine vices serie 29 and 30





Ref.				
B/100	100	14	12560	6,5
B/125	125	14	12560	9,5
B/150	150-175	16	15060	14,0
B/200	200	16	15060	20,0

CLAMP FOR SWIVEL BASE



Clamps for fastening the swivel base to the T table
Set of 2 units
All the clamps supplied for M16 screws
For machine vices serie 29 and 30.
Para series 29 y 30.




Ref.		
12560	B/100 - B/125	0,5
15060	B/150 - B/200	0,8

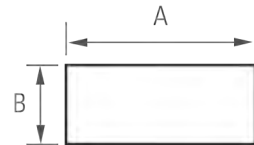
PARALLELS WITH CLAMPS SIMPLE FORM



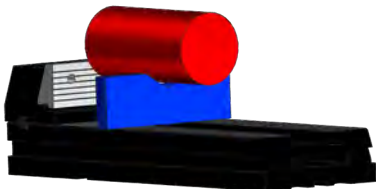
All the parallels include the fastening clamp
The clamp holds the parallel avoid any movement while working
16mm thickness
For machine vices serie 29,30 and 60



Ref.	A	B	
150P40	150	40	0,8
150P45	150	45	0,8
150P50	150	50	0,8
175P42	175	42	0,9
175P47	175	47	0,9
175P52	175	52	0,9
200P52	200	52	1,3
200P57	200	57	1,3
200P62	200	62	1,3




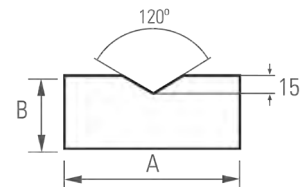
PARALLELS WITH CLAMPS V FORM



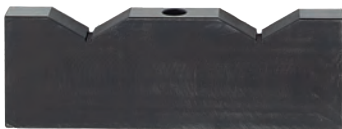
All the parallels include the fastening clamp
The clamp holds the parallel avoid any movement while working
16mm thickness
For machine vices serie 29,30 and 60



Ref.	A	B	
150P40V	150	40	0,8
150P45V	150	45	0,8
150P50V	150	50	0,8
175P42V	175	42	0,9
175P47V	175	47	1,0
175P52V	175	52	1,0
200P52V	200	52	1,3
200P57V	200	57	1,3
200P62V	200	62	1,3




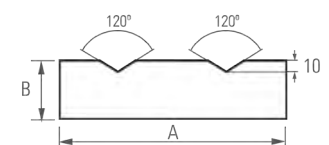
PARALLELS WITH CLAMPS W FORM



All the parallels include the fastening clamp
The clamp holds the parallel avoid any movement while working
16mm thickness
For machine vices serie 29,30 and 60



Ref.	A	B	
150P40W	150	40	0,8
150P45W	150	45	0,8
150P50W	150	50	0,9
175P42W	175	42	1,0
175P47W	175	47	1,0
175P52W	175	52	1,0
200P52W	200	52	1,3
200P57W	200	57	1,3
200P62W	200	62	1,3



PARALLELS WITH SUPPORT

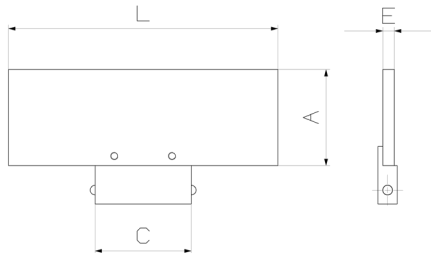



Parallels with support for vices
 Supplied in sets of 2 units each
 For machine vices serie 29,30 and 60



Bullet points

- It is assembled to the vice central slot with a “click” thanks to a fastening spring
- It is more precise than working with stepped jaws.





Ref.	A	L	E	
12599930	30	110	4	0,3
12599935	35	110	4	0,3
15099940	40	140	6	0,6
15099950	50	140	6	0,7
20099950	50	180	6	0,9
20099958	58	180	6	1,1

SOFT JAWS

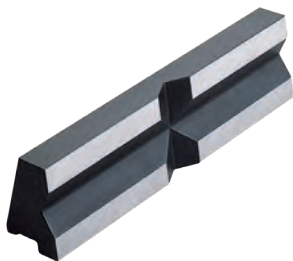


Soft machining and tempered jaws in steel F1140
 Supplied in sets of 2 units each



Ref.		
10050	100	0,9
12550	125	1,6
15050	150	3,0
17550	175	3,5
20050	200	4,0

PRISMATIC JAWS

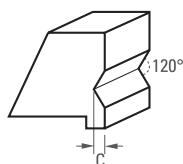
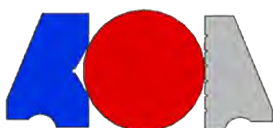




Prismatic jaws designed for fastening cylindrical pieces
 A set consists on 2 units
 Valid for all vices serie 30 and 60



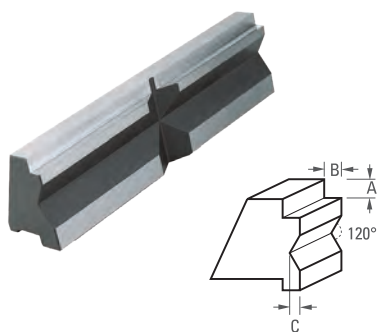
Bullet points

- Specially designed for fastening cylindrical pieces.



Ref.		C	
10053	100	3	0,5
12553	125	4	1,0
15053	150	5	2,1
17553	175	5	2,5
20053	200	5	2,4

STEPPED PRISMATIC JAWS

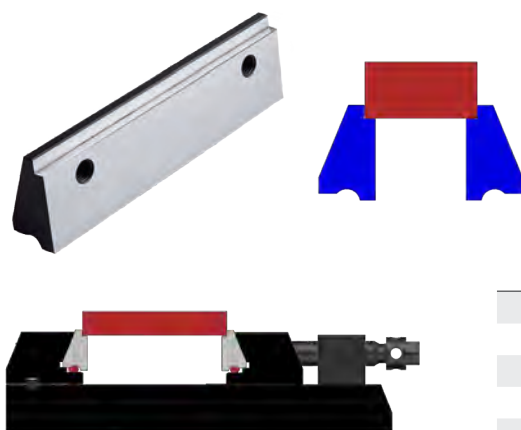


Stepped prismatic jaws
A set consists on 2 units
Valid for all vices serie 30 and 60.



Ref.		A	B	C	
10051	100	4	3	3	0,5
12551	125	4	4	4	1,0
15051	150	6	5	5	4,2
17551	175	6	5	5	2,4
20051	200	6	5	5	2,7

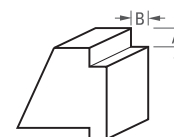
STEPPED SMOOTH JAWS



Stepped smooth jaws designed for avoid the use of lifting blocks or parallels
A set consists on 2 units
Valid for all vices serie 30 and 60



Ref.		A	B	
10052	100	4	3	0,6
12552	125	4	4	0,8
15052	150	6	5	1,7
17552	175	6	5	2,0
20052	200	6	6	2,2



SMOOTH JAWS



Smooth jaws
A set consists on 2 units
Valid for all vices serie 30 and 60.

Ref.		
10054	100	0,6
12554	125	0,8
15054	150	1,8
17554	175	1,9
20054	200	2,3
25054	250	3,3
3030054	300	6,0



STANDARD JAWS

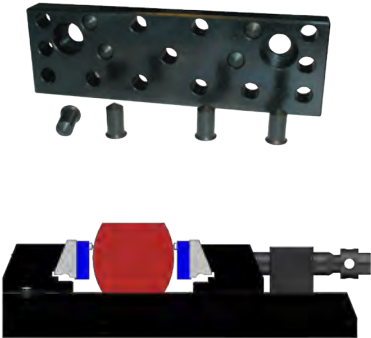


Standard jaws
A set consists on 2 units
Valid for all vices serie 30 and 60.

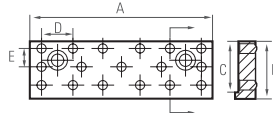
Ref.		
10055	100	0,3
12555	125	0,8
15055	150	1,8
17555	175	1,9
20055	200	2,3
25055	250	3,3
3030055	300	6,0





JAWS WITH POSITING PINS

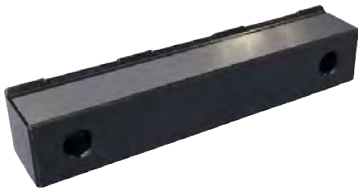


Positioning pins jaws
 Supplied in a set of 2 units + 12 pins and 2 fastening screws
 Valid for all vices serie 30 and 60





Ref.		
12556	30/100	1,0
15056	30/150	1,6
17556	30/175	1,9
20056	20/200	2,1

JAWS OF POSITING PINS FOR SERIE 24

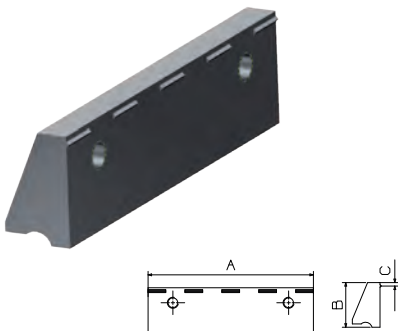


Jaws of position pins for serie 24
 Supplied per unit.




Ref.		
2407514	24/75	0,1
2409514	24/95	0,2
2410014	24/100	0,2

GRIP JAW-PLATES



Grip jaw-plates
 A set consists on 2 units
 Valid for all vices serie 30 and 60..



Ref.	A	B	C	
10057	100	24	1.5	0,2
12557	125	29.5	1.5	0,7
15057	150	40	3	1,8
17557	175	40	3	2,0
20057	200	40	3	2,2
25057	250	40	3	3,8





Σ
-X-



MILLING HEAD

to make keyways



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COMPLETE INTERNAL MILLING HEAD

CAFN

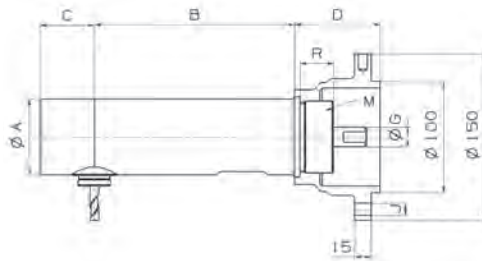


Internal milling head designed for machining keyways
 To set up the CAF in to the milling head, it's necessary the manufacturing of an adaptation plate (see operating instructions)
 it's supplied with drawing cone (ISO 40 or 50), the biggest diameter collet and all drives
 Transmission relation 1:2.
 Maximum input speed 3.000 r.p.m.

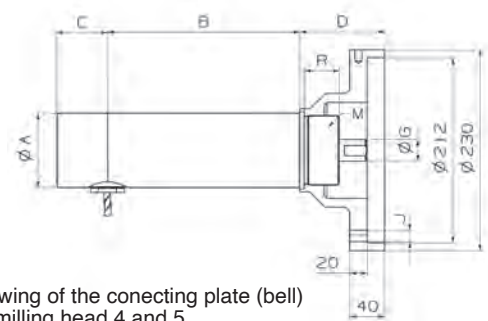


Bullet points

- There are two kinds of fastening for the cutters: collet and drivers
- Supplied together with ER type collets and drivers.



Drawing of the connecting plate (bell) for milling head 1, 2 and 3.



Drawing of the connecting plate (bell) for milling head 4 and 5.

Ref.	Ømin	ØA	B	C	ØE	ØG	E/P	ØJ	M	R	Mooring	⚖
CAFN1	42	35	106	16	130	14	11	11	M35x1,5	16	Collet	5,6
CAFN2	54	47	132	35	130	15	13	11	M45x1,5	18	Collet	6,7
CAFN3	78	68	180	50	130	18	15	11	M65x2	30	Collet and mill holder	12,4
CAFN4	95	85	220	58	196	25	22	13	M80x2	40	Collet and mill holder	26,4
CAFN5	130	113	282	76	196	30	25	13	M105x2	42	Collet and mill holder	42,5

INTERNAL MILLING HEAD WITHOUT ADAPTOR PLATE

71000

It is the main part of the milling head
 Neither the drivers not the plate are included



Ref.	⚖
71110	1,0
71210	2,0
71310	6,0
71410	11,5
71510	24,0



DRIVERS WITH KEYHOLE



All drives are included in CAF 3, 4 and 5.
Keyway drivers..



Ref.	ØShaft	Milling head	⚖
714216	16	CAFN4	0,2
715216	16	CAFN5	0,3
715222	22	CAFN5	0,3

DRIVERS



Drivers and threaded milling cutters
All drives are included in CAF 3, 4 and 5.



Ref.	Thread	Milling head	⚖
713110	M10	CAFN3	0,1
714110	M10	CAFN4	0,2
714112	M12	CAFN4	0,2
715110	M10	CAFN5	0,3
715112	M12	CAFN5	0,3
715116	M13	CAFN5	0,3

COLLETS



Standard collets high precision ER type.
The larger diameter collet is included together with the milling head..




Ref.	Diameter	Milling head	ER	⚖
711904	4	1		0,1
711905	5	1		0,1
711906	6	1		0,1
712904	4	2	11	0,1
712905	5	2	11	0,1
712906	6	2	11	0,1
712907	7	2	11	0,1
712908	8	2	11 special	0,1
713906	6	3	16	0,1
713907	7	3	16	0,1
713908	8	3	16	0,1
713910	10	3	16	0,1
714904	4	4	20	0,1
714906	6	4	20	0,1
714907	7	4	20	0,1
714908	8	4	20	0,1
714910	10	4	20	0,1
714912	12	4	20	0,1
715906	6	5	25	0,1
715908	8	5	25	0,1
715909	9	5	25	0,1
715910	10	5	25	0,1
715912	12	5	25	0,1
715914	14	5	25	0,1
715916	16	5	25	0,1



CONES




Ref.	ISO	
711130	30	0,4
711140	40	1,1
711150	50	2,7
712130	30	0,4
712140	40	1,1
712150	50	2,7
713140	40	1,1
713150	50	2,7
714140	40	1,1
714150	50	2,7
715140	40	1,1
715150	50	2,7



VERTICAL JOINT

Mounting on a turret milling machine

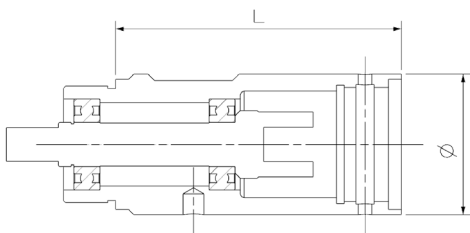



Ref.	CAF	
711000	For CAF 1	0,8
712000	For CAF 2	4,1



EXTENSIONS

They lengthen the maximum length milling of the heads
2 consecutive extensions can be mounted
Other extensions measures can be manufactured upon request.

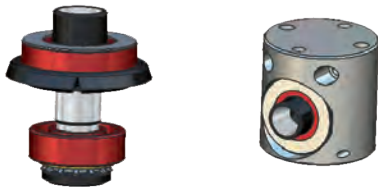


Ref.	L	Diameter	Milling head	
711020	90	45	1	1,0
711030	120	45	1	1,3
712020	100	54	2	1,3
712030	150	54	2	1,9
713020	125	78	3	3,6
713030	175	78	3	3,9
714020	150	95	4	6,1
714030	220	95	4	8,9
715020	200	128	5	17,5
715030	320	128	5	26,7





QUICK REPAIR KIT HEAD OF TRANSMISSION COMPLETE GROUP



All necessary pieces to change the toothed rim
Once the milling head cover has been opened, extract the damaged part and replace it with this new one
Easy and without regulation repair



Ref.	Milling head	
712012	2	0,5
713012	3	1,0
714012	4	1,9
715012	5	7,0

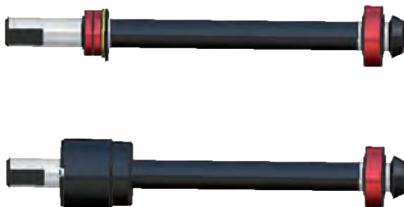
Head	Ref. Content	Description	Cant.
CAF 3	713012	Full support	1
	713002	Gear	1
	713303	Gear block	1
	713304	Platillo	1
	713402	Nut KM-2	1
	713513	Bearing 51103	1
	713600	Bearing 16004	1
	713622	Bearing 6202	1
MB2	Safety plate	1	

Head	Ref. Content	Description	Cant.
CAF 3	713011	Complete sprocket	1
	713001	Sprocket	1
	713307	Porta-rodamientos	1
	713317	Bearing carrier washer	1
	713618	Bearing 61803	1
	713623	Bearing 6003	1
	DI28	Internal ring 28 mm	1
SW17	External ring 17 mm	1	

Example CAF3

Transmission head can be returned to be fixed thus keeping it as a spare.

QUICK REPAIR KIT COMPLETE SHAFT GROUP

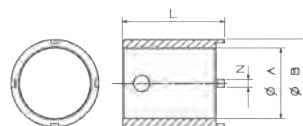


All necessary parts to change the trasmission shaft of the head quickly and easily
Just unscrew the damaged one (it comes out complete) and insert the new one
Please to regulate the attack of the gears by advancing the thread



Ref.	Milling head	
712011	2	0,5
713011	3	0,7
714011	4	1,4
715011	5	2,6

KM SPANNERS FOR MILLING HEADS



These wrenches are essential for repairing the milling heads..

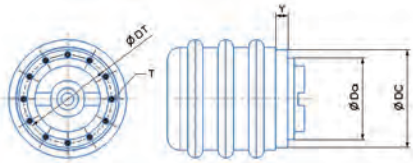


Ref.	Milling head	External diameter	Internal diameter	N	Length	Castellated	
711701	1	25	22	4	122	2	0,6
711702	1	35	27	6	77	2	0,5
712701	2	28	21	4	70	2	0,7
712702	2	38	28,5	6	62	2	0,6
713701	3	44	25	6	140	2	1,1
714701	4	48	35	6	140	2	1,2
715701	5	62	45	6	165	2	2,0

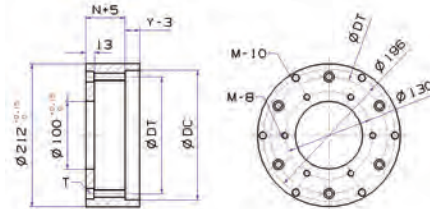


Make coupling plate

Head



Coupling plate

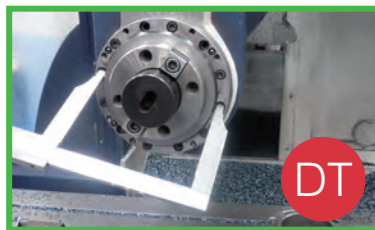


Video how to make coupling plate bell



DC

Measure the milling head DC dimension.



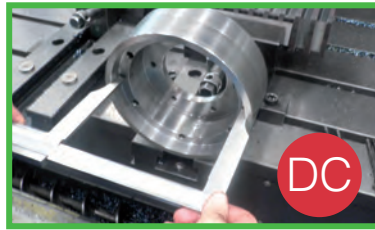
DT

Measure the milling head DT dimension.



Y

Measure milling head depth.



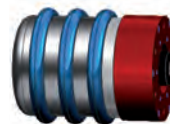
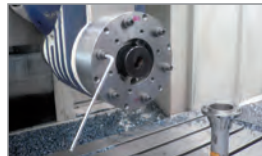
DC

The DC dimension of the head is the same as that of the plate..

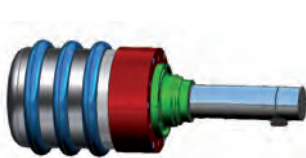
See manual



Montar el cabezal / Mounted milling head



Video milling head working





KM LOCK NUT

removal wrenches



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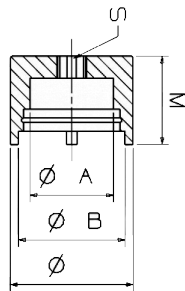
SHORT SPANNER

96100C

Wrenches designed for crenellated Km nuts without damaging them

Bullet points

- They practically have the same diameter as the nut
- It allows extracting in deep and lack of space applications thanks to the length of the extension.



Ref.	KM	$\varnothing A$	$\varnothing B$	$\varnothing C$	M	Square Drive	
961021	2	12	21	25	35	Hex20	0,1
961011	1	12	18	22	30	Hex18	0,1
961031	3	18	25	28	40	1/2"	0,1
961041	4	18	28,5	34	40	1/2"	0,2
961051	5	24	34,5	40	40	1/2"	0,2
961061	6	31	42	47	40	1/2"	0,3
961071	7	36	49	54	40	1/2"	0,4
961081	8	42	54	60	40	1/2"	0,4
961091	9	47	58	67	40	1/2"	0,6
961101	10	52	65	72	40	1/2"	0,6
961111	11	57	70,5	77	50	3/4"	0,8
961121	12	62	76	82	50	3/4"	0,9
961131	13	67	80	87	50	3/4"	1,3
961141	14	74	86	94	50	3/4"	1,5
961151	15	80	89	102	80	1"	2,5
961161	16	87	98	109	80	1"	2,8
961171	17	92	104	114	80	1"	3,0
961181	18	102	114	124	80	1"	3,5
961191	19	107	119	129	80	1"	3,8
961201	20	112	121	136	80	1"	4,2
961211	21	122	133	146	80	1"	4,7
961231	23	132	141	156	80	1"	5,4
961241	24	137	146	161	80	1"	5,7
961301	30	177	186	201	90	1"	9,5

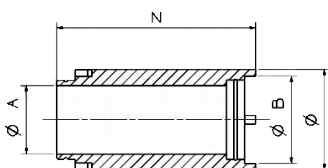
EXTENSION FOR SPANNER

96100P

KM removal wrench extension for enlarge the wrench length

Bullet points

- They practically have the same diameter as the nut
- It allows extracting in deep and lack of space applications thanks to an extension.



Ref.	KM	$\varnothing A$	$\varnothing B$	$\varnothing C$	N	
961042	4	18	28,5	34	100	0,4
961052	5	24	35	40	100	0,5
961062	6	31	42	47	100	0,7
961072	7	36	49	54	100	0,9
961082	8	52	54	60	100	1,1
961092	9	47	58	67	110	1,3
961102	10	52	65	72	110	1,4
961112	11	57	70,5	77	110	1,6
961122	12	62	76	82	110	1,7
961132	13	67	80	87	120	2,0
961142	14	74	86	94	120	2,2

COMPLETE SPANNER 96101

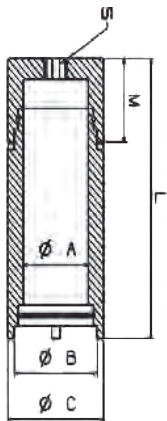


Wrenches designed for crenellated Km nuts without damaging them. It includes the short length removal wrench and the extension



Bullet points

- They practically have the same diameter as the nut
- It allows extracting in deep and lack of space applications thanks to the length of the extension.



Ref.	KM	ØA	ØB	ØC	L	M	N	Square Drive	⚖️
96104	4	18	28,5	34	124	40	100	1/2"	0,6
96105	5	24	34,5	40	124	40	100	1/2"	0,8
96106	6	31	41,5	47	134	40	100	1/2"	1,0
96107	7	36	48,5	54	134	40	100	1/2"	1,2
96108	8	42	53,5	60	134	40	100	1/2"	1,5
96109	9	47	58	67	144	40	110	1/2"	1,9
96110	10	52	65	72	144	40	40	1/2"	2,1
96111	11	57	70,5	77	144	50	110	3/4"	2,5
96112	12	62	76	82	144	50	110	3/4"	2,6
96113	13	67	80	87	153	50	120	3/4"	3,3
96114	14	74	86	94	153	50	120	3/4"	3,6

KM LOCK NUTS REMOVAL WRENCH EXHIBITOR 96700



Showroom metal counter merchandiser



Bullet points

- They practically have the same diameter as the nut
- It allows extracting in deep and lack of space applications thanks to an extension.

Ref.	Short spanner	Spanner and extension	Suitcase	⚖️
96700A	961081, 961091 and 961101	96104, 96105, 96106 and 96107		6,0
96700M	961081, 961091 and 961101	96104, 96105, 96106 and 96107	96800	29,0



96800 SHORT KM SPANNER SET

96800



Cases with a complete range of KM lock nut removal wrenches
High quality plastic case.



Bullet points

- They practically have the same diameter as the nut
- It allows extracting in deep and lack of space applications thanks to an extension.

Ref.	Contains	
96800	KM4 to KM10	3,0


96801 COMPLETE KM SPANNER SET

96801



Case with a complete range of KM lock nut removal wrenches
High quality plastic case



Ref.	Contains	
96801	KM4 to KM7 completes	4,0


96802 COMPLETE KM SPANNER SET

96802



Case with a complete range of KM lock nut removal wrenches
High quality plastic case



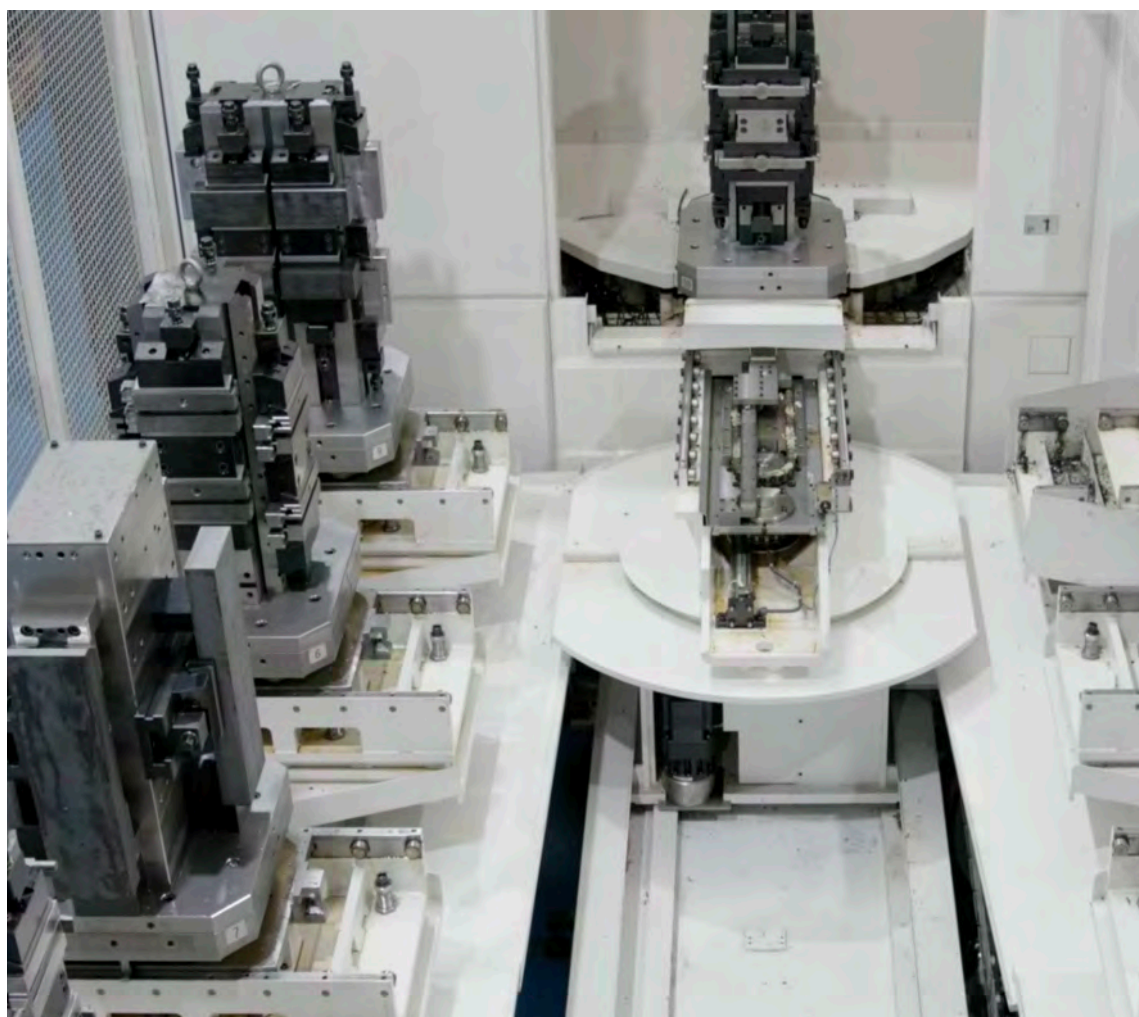
Ref.	Contains	
96802	KM4 to KM10 completes	5,0

Integrated clamping vice tower

Check out a few examples of towers that we have already manufactured

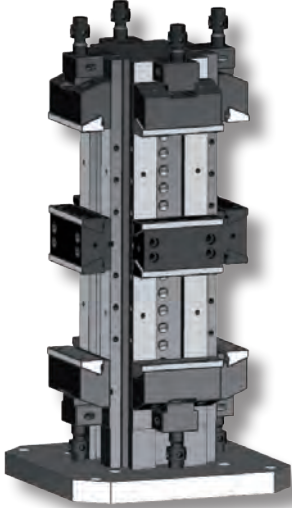
CUSTOM DESIGNED AND MANUFACTURED TOOLING

- A custom made clamping solutions meant to be installed and removed in minutes when required.
- We make custom made towers to meet your specific needs.
- We seek inexpensive special solutions and go away from the universal very expensive type solution.
- We quote incredibly attractive price for custom made solutions. We make free solutions design. All 3D are included in our offer.

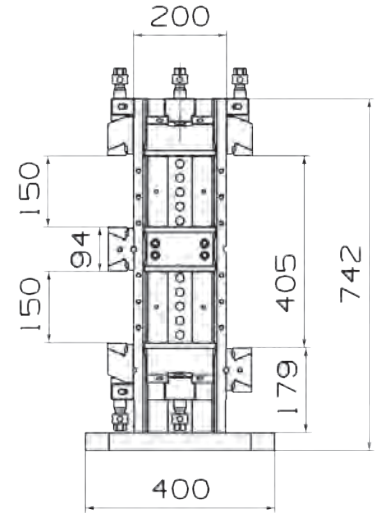



Clamping tower with 150mm jaws.

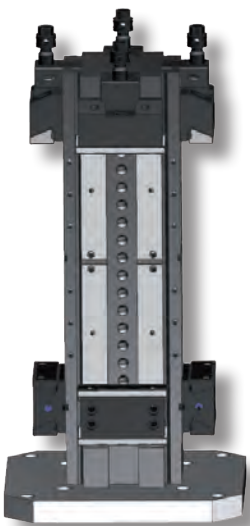
This set up allows for the clamping of 8 pieces each 150mm long or 4 pieces each 405mm long.



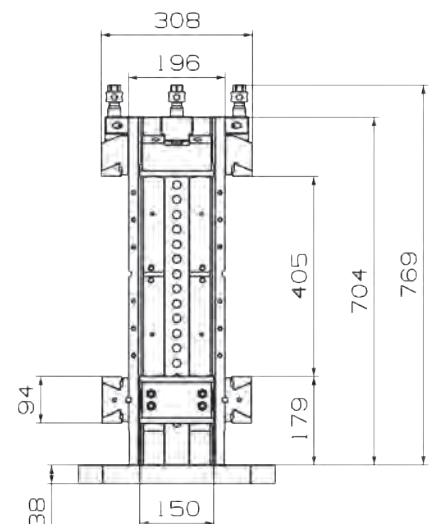
- Set up in double station allowing the clamping of 8 workpieces.



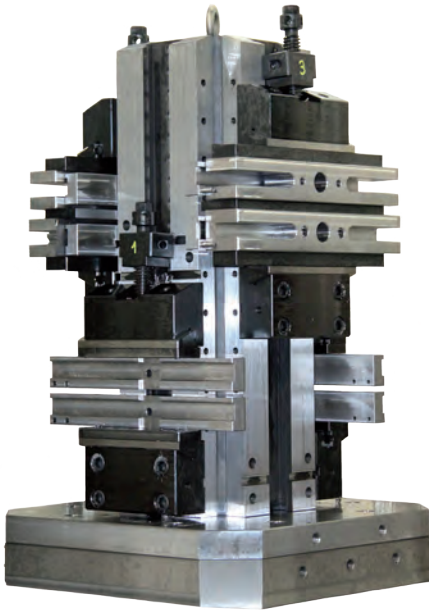
Ref.	Description	
40C125X525U	Assembled to tie 4 pieces	155,0
40CE125X525	Assembled for 8 pieces	130,0



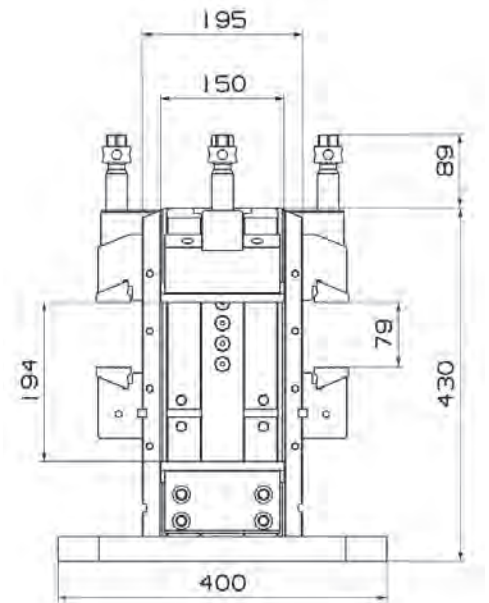
- One station set up in order to clamp 4 longer workpieces.



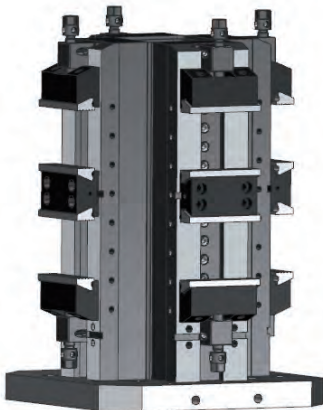
Clamping tower with 150mm jaws.



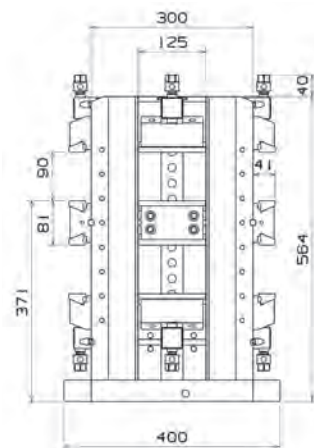
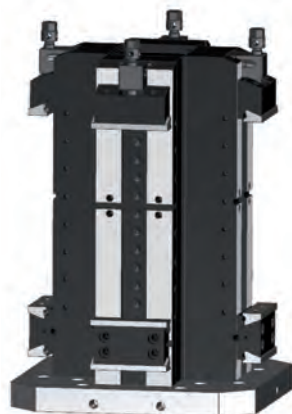
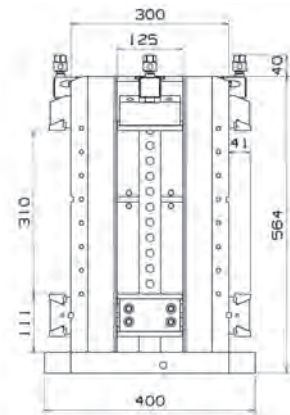
- Simple tower allowing the clamping of 4 different height workpieces.



Clamping vice tower with 125 mm jaw.

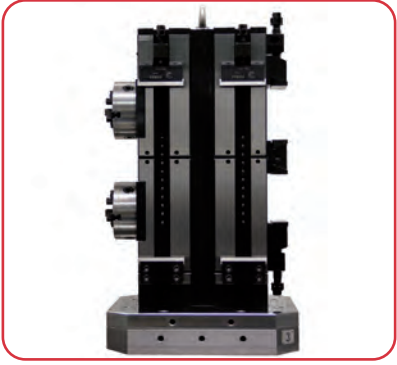
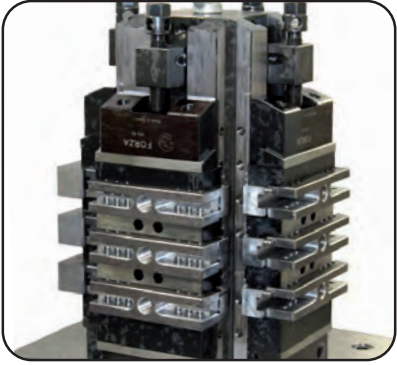
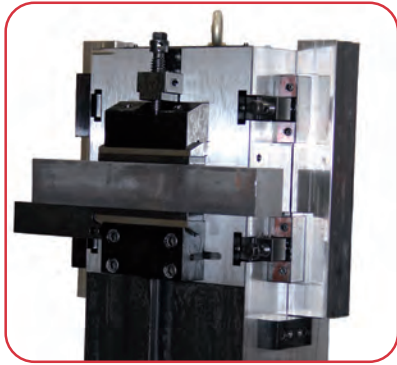
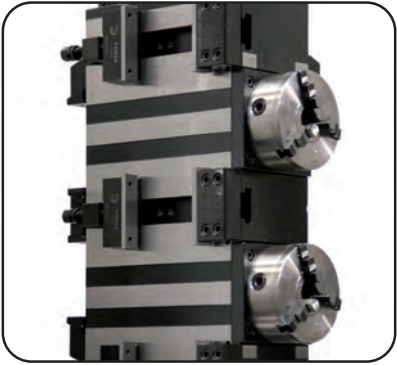
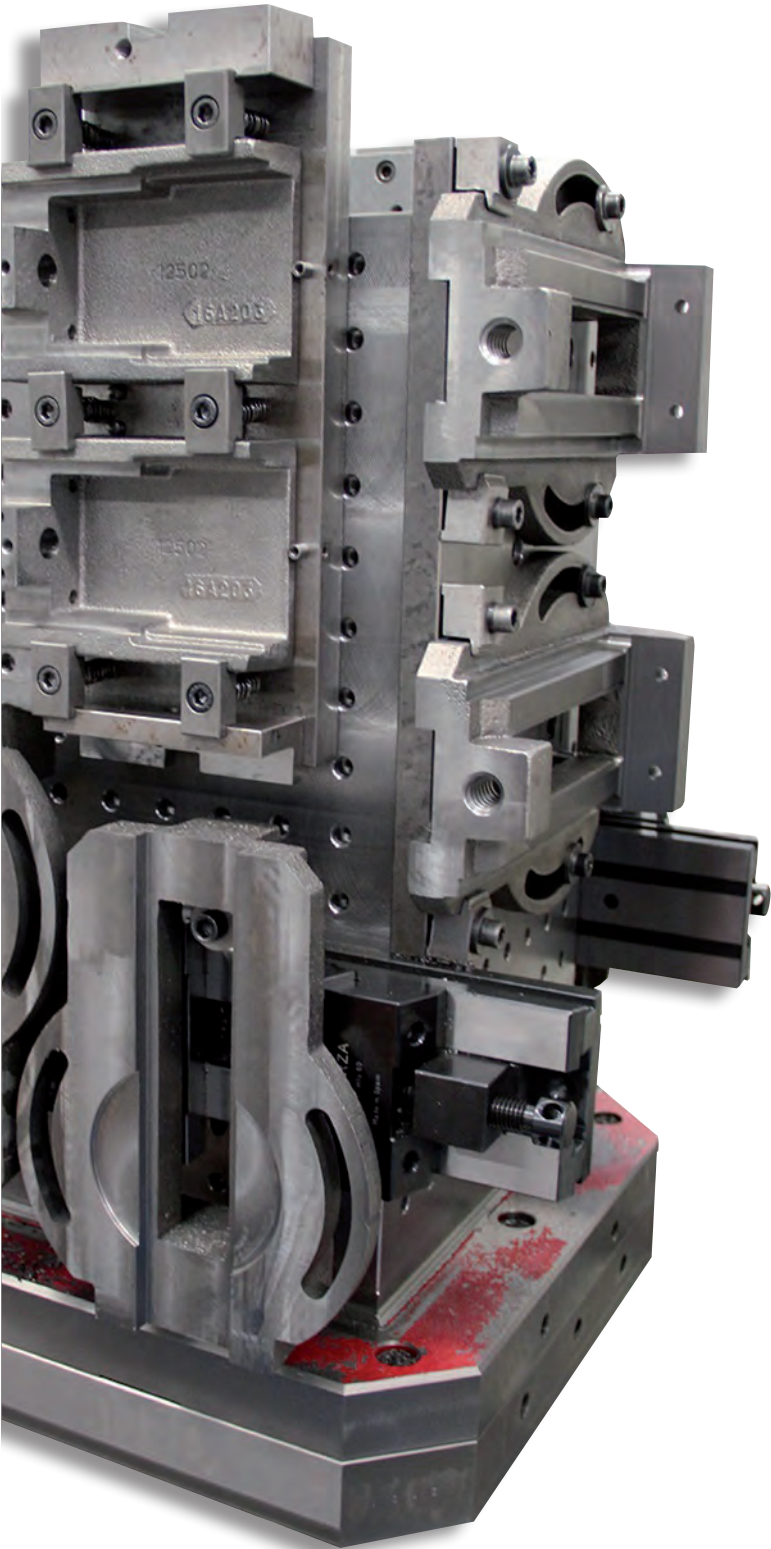


- A wide cube makes for smaller stiffer tools.
- The clamping of 8 pieces each 90mm or 4 pieces 310mm each is possible.



Clamping vice towers

Other special set ups





Machine vices

and fastening elements



FORZA[®]

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SERIE 28 DRILLING MACHINE VICE **28**




Suitable vice for drilling and threading big pieces



Bullet points

- Spindle protected to avoid dirt getting in
- The rotating handle avoids colliding with any obstacle: milling T table, etc.
- Tempered steel body for greater resistance and aluminum jaw holder and clamping block

Ref.	A	B	Width	C	D	Height	
28A150	403	150	160	150	70	120	28,5

SWIVEL BASE FOR 28A150



Swivel base for drilling vices



Ref.	Base height	External diameter	
B28150	25,5	275	11,0

MASTER SERIE 33M **33M**



Professional vice for any drilling and threading operations

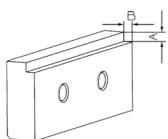
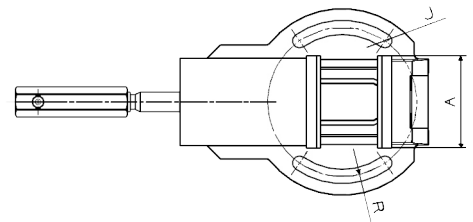
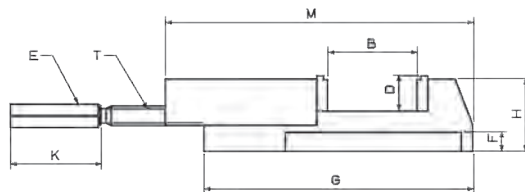




Bullet points

- Supplied with hardened stepped jaws
- Protected spindle that prevents damage, get dirty and avoid to collapse
- Grooved chanel for making the fastening easier
- Has side slots for easy attachment to the machine
- No clamps needed.



Nodular cast made.



Ref.	A	B	H	X	D	E	Length		
33/65M	65	76	49	3	26	19	207		2,8
33/85M	85	90	54	3	26	22	242		4,8
33/100M	105	116	66	4	32	24	310	12560	9,0
33/125M	125	157	83	4,5	42	27	395	12560	16,2
33/150M	150	190	95	6	52	27	470	12560	25,2

PROFESSIONAL 33P SERIE

33P

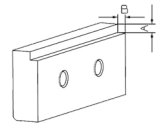


Professional vice for any drilling and threading operations
It includes: fastening rod, set of prismatic jaws, set of soft jaws and 2 T nuts 12/14 and 16/18





Bullet points

- Supplied with hardened stepped jaws
- Protected spindle that prevents damage, get dirty and avoid to collapse
- Grooved channel for making the fastening easier
- Has side slots for easy attachment to the machine
- No clamps needed.



Nodular cast made.

Ref.	A	B	H	X	D	E	Length		
33/85P	85	90	54	3	26	22	242		5,8
33/100P	125	116	66	4	32	24	310	12560	10,3
33/125P	125	157	83	4,5	42	27	395	12560	18,2

SERIE 82 ECONOMY

82



Light vice for any type of drilling and threading work
It contains the same parts as the serie 33 except for the jaw holder and the movable jaw. It is a monoblock piece

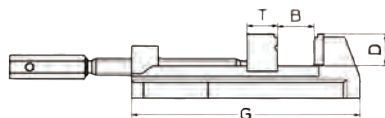



Bullet points

- Grooved channel for making the fastening easier
- No clamps needed
- Clamping block with two 90 degrees prisms and stepped
- It is possible to use swivel base (optional).



Nodular cast made.



Ref.	A	B	D	G	T	X	
82/85	85	95	25,5	188	25	3	4,0
82/100	100	105	31,5	241	40	4	8,5
82/125	125	116	41,5	300	40	4,5	14,7
82/150	150	160	52,5	345	40	6	19,6

Other measures as series 33.

SERIE 38 QUICK CLAMP VICE

38





Quick fastening vice for drilling, threading and light milling works for mass manufacturing



Bullet points

- Easy to use that allows you to clamp and release the part in tenths of second
- Each vise is supplied with stepped jaws and two sets of soft jaws.



Ref.	A	B	C	D	E	F		
38/80	230	80	20	75	385	80	12561	7,0
38/103	275	90	20	85	420	103	12561	10,5
38/125	400	80	30	105	555	125	15061	25,0

37 SERIE SELF CENTERING VICE

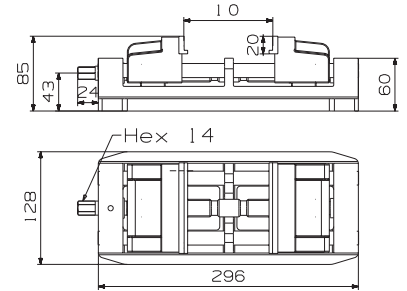
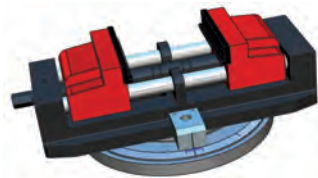
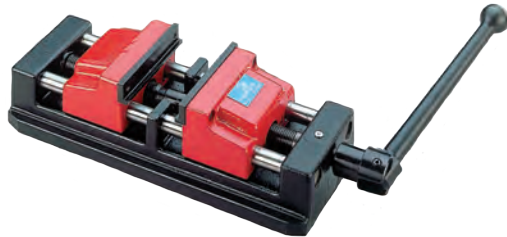
37

Selfcentering drilling vice for drilling, threading and light milling



Bullet points



- It fastens the center of the piece.
- Swivel base could optionally be used
- 2 sets of soft jaws included
- Supplied with stepped jaws.



SWIVEL BASE

Swivel base for drilling vices
They can be used as two jaw chuck in lathe machines
For 33 and 82 serie..





Ref.	Adjustment		Height	Mouth	Opening	
37/103	Handle		85	103	110	11,9
37/103B	Handle	3710398	85	103	110	17,5
37/103BP	Knob	3710398	85	103	110	16,7
37/103P	Knob		85	103	110	11,6

PIN

clamping rod for drilling vices
For 33 and 82 serie..





Ref.		
336509	33/65	0,1
111893	Others	0,1

SET SOFT JAWS

Soft jaws set por drilling vices
For serie 33.





Ref.		
336550	33/65	0,3
338550	33/85	0,4
3310050	33/100	0,6
3312550	33/125	0,9
3315050	33/150	1,9

NORMAL SET JAWS

Normal set of stepped jaws for drilling vices
For serie 33.





Ref.	Step		
336514	3	33/65	0,1
338514	3	33/85	0,2
3310014	4	33/100	0,3
3312514	4,5	33/125	0,4
3315014	6	33/150	0,9

SET PRISMATIC JAWS WITH STEP

Prismatic stepped jaws for drilling vices
For serie 33.




Ref.	Step		
336551	3	33/65	0,2
338551	3	33/85	0,4
3310051	4	33/100	0,5
3312551	4,5	33/125	0,8
3315051	6	33/150	1,7

T NUT

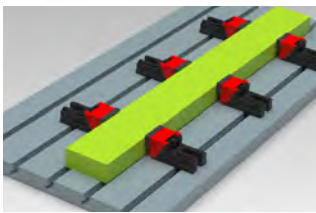
T nuts for drilling vices
For 33 and 82 serie.



Ref.	Canal	M	
33121408	for 12-14	M8	0,1
33161808	for 16-18	M8	0,1
33121410	for 12 -14	M10	0,1
33161810	for 16 -18	M10	0,1
33161814	for 16 - 18	M14	0,1
33202214	for 20-22	M14	0,1

STANDARD VICE SERIE 34

34

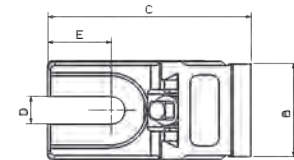
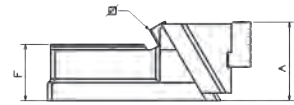



Vice for special works such as long pieces, dies and other specific fastening needs
It is supplied in sets of 2 units plus a wrench



Bullet points

- Lathe machine wrench for a better fastening
- The descending effect avoids any lift up of the piece.



Ref.	A	B	C	D	E	F	H	
34/60	50-68	60	135	18	42	45	12	4,2
34/62	82-92	60	175	19	74	57	12	8,0
34/79	65-85	79	168	25	45	57	12	9,2
34/112	89-120	120	246	30	65	75	17	26,5

INDIVIDUAL STANDARD VICES SERIE 34

346000




Descending effect vice, supplied individually
The vice separately does not include the wrench



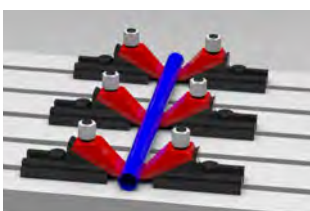
Bullet points

- Lathe machine wrench for a better fastening
- The descending effect avoids any lift up of the piece.

Ref.	A	B	C	D	E	F	H	
346000	89-120	120	246	18	42	45	12	2,0
346200	50-68	60	135	19	74	57	12	3,9
347900	82-92	60	175	25	45	57	12	4,5
3411200	65-85	79	168	30	65	75	17	12,3

DOWNSLIDING VICE SERIE 35

35

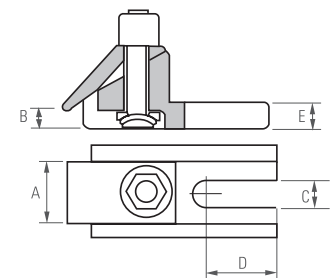



Designed vices for fastening thin or round pieces in milling or drilling machines
Descending effect vice supplied in sets of 4 units/each



Bullet points

- The descending effect avoids any lift up of the piece
- Specifically designed for fastening big sizes sheets in different machines.



Ref.	A	B	C	D	E	
35/45	45	0-13	20	60	23	6,4



INDIVIDUAL SLIDING VICE

354000

Designed vices for fastening thin or round pieces in milling or drilling machines



Bullet points

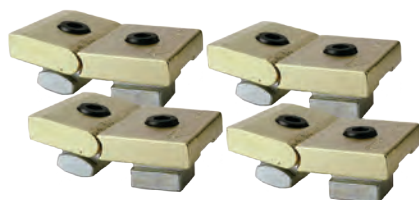
- The descending effect avoids any lift up of the piece
- Specifically designed for fastening big sizes sheets in different machines.

Ref.	A	B	C	D	E	
354500	45	0-13	20	60	23	1,6

PLAIN VICE SERIE 36

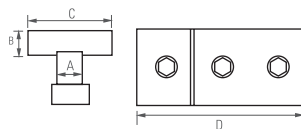
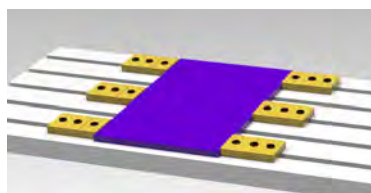
36

Plain vice for fastening very low height pieces
Specifically designed for fastening large metal sheets in machines
Low T-support for the movable jaw holder



Bullet points

- The oscillating jaw allows to fasten very small height pieces.



Ref.	A	B	C	D	
36/60	15,5	12	60	75	2,3
36/64	17,5	15	60	105	4,0
36/65	19,5	15	60	105	4,3
36/66	21,5	15	60	105	4,6
36/78	17,5	15	80	125	8,1
36/79	19,5	15	80	125	7,2
36/80	21,5	15	80	125	7,1

INDIVIDUAL PLAIN VICE SERIE 36

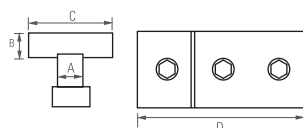
366000

Plain vice for fastening very low height pieces
Specifically designed for fastening large metal sheets in machines



Bullet points

- The oscillating jaw allows to fasten very small height pieces.



Ref.	A	B	C	D	
366000	15.5	12	60	75	0,6
366400	17.5	15	60	105	0,9
366500	19.5	15	60	105	1,0
366600	21.5	15	60	105	1,1
367800	17.5	15	80	125	1,9
367900	19.5	15	80	125	1,8
368000	21.5	15	80	125	1,8

T SLOT VICE SERIE 37

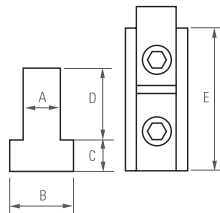
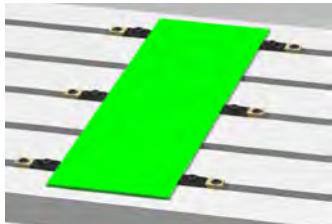
37 CANAL



Vices for clamping extremely thin parts

Bullet points

- The jaw is practically hidden in the channel of the machine
- The T slot vices are supplied in sets of 4 units each..



Ref.	A	B	C	D	E	⚖️
37/12	11,5	20	8	16	28	0,4
37/14	13,5	23	9	18	40	0,6
37/16	15,5	26	10	21	45	0,8
37/18	17,5	29	11	24	45	1,0
37/20	19,5	33	13	26	50	1,5
37/22	21,5	35	14	29	53	1,7

INDIVIDUAL T SLOT VICE SERIE 37

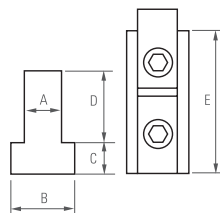
371200



Vices for clamping extremely thin parts

Bullet points

- The jaw is practically hidden in the channel of the machine
- The T slot vices are supplied in sets of 4 units each.



Ref.	A	B	E	C	D	⚖️
371200	11,5	20	8	16	28	0,1
371400	13,5	23	9	18	40	0,1
371600	15,5	26	10	21	45	0,2
371800	17,5	29	11	24	45	0,3
372000	19,5	33	13	26	50	0,4
372200	21,5	35	14	29	53	0,4

ARCHED CLAMPS

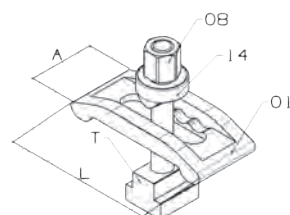
39



Suitable clamps for fastening tooling and molds

Bullet points

- Clamp, that due to the deisng of the vice body and nut-shaped washer, does not need to work in horizontal position, and can also be assembled bended
- Its design allows the use of lifting blocks of different sizes than the piece and it is perfect for placing toolings and dies.



Ref.	L	A	T	⚖️
39/56	123	56	18	1,0
39/57	123	56	20	1,1
39/58	123	56	22	1,2
39/59	123	56	24	1,2
39/70	160	70	22	1,9
39/71	160	70	24	2,1
39/72	160	70	28	2,2

BENCH VICE SERIE 88

88

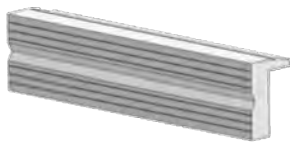


Manufactured in forged steel.
Steel hardness 45-51 HRC
Square guide
Tempered steel hardened jaws.
Induction tempered anvil base.



Ref.	Opening	Height	Anvil	⚖️
88/100N	100	65	35x40	6,4
88/125N	125	80	53x70	11,8
88/150N	200	100	66x80	19,0

SLOTTED ALUMINIUM JAWS

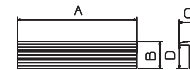


Magnetized aluminium jaws
They protect the pieces while working

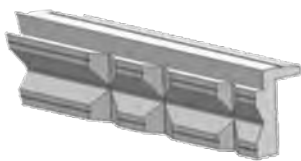
- Bullet points**
- Very easy to place.



Ref.	A	B	C	D	⚖️
8810051	102	29	20	25	0,1
8812551	128	29	20	25	0,2
8815051	153	29	20	25	0,2



PRISMATIC ALUMINIUM JAWS

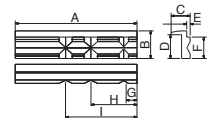


Magnetized aluminium jaws
They protect the pieces while working

- Bullet points**
- Very easy to place
 - With V and stepped.



Ref.	A	B	C	D	E	F	G	H	⚖️
8810052	102	29	20	25	3	22	14	48	0,1
8812552	128	29	20	25	3	22	14	48	0,2
8815052	153	29	20	25	3	22	14	48	0,2



SPECIAL PLASTIC JAWS

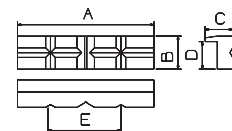


Magnetized aluminium jaws
They protect the pieces while working

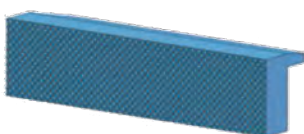
- Bullet points**
- Very easy to place
 - With V and different positions.



Ref.	A	B	C	E	D	⚖️
8810053	100	30	25	49	25	0,1
8812553	124	30	25	49	25	0,2
8815053	148	30	25	64	25	0,2



PLASTIC JAWS

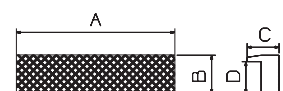


Magnetized aluminium jaws
They protect the pieces while working

- Bullet points**
- Very easy to place
 - Knurled surface for improving the clamping.



Ref.	A	B	C	D	⚖️
8810054	123	30	25	25	0,1
8812554	100	30	25	25	0,2
8815054	148	30	25	25	0,2



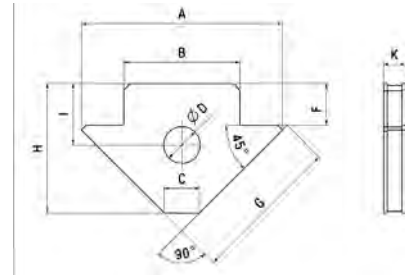
MAGNETIC HOLDERS **P29003**


Ferrite magnet protected with bakelite resistant to high temperatures
 For welding 45° and 90° angles
 2,5mm thick steel sheet joined with threaded screws



Bullet points

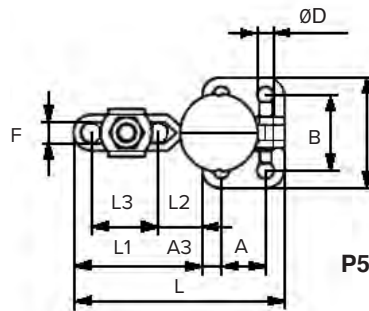
- Very useful for holding steel parts either in welding or measuring works.



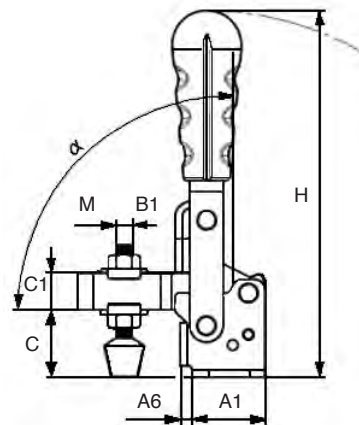
Ref.	A	B	C	ØD	F	G	H	I	K	
P29003	85	15	14	24	25	91	82	37	14.5	0,3
P29004	110	18	28	29	33	118	102.5	48.5	17.5	0,7
P29005	140	20	39	40	39	153	128	60	20.5	1,2

QUICK VERTICAL TOGGLE CLAMPS **P56001**

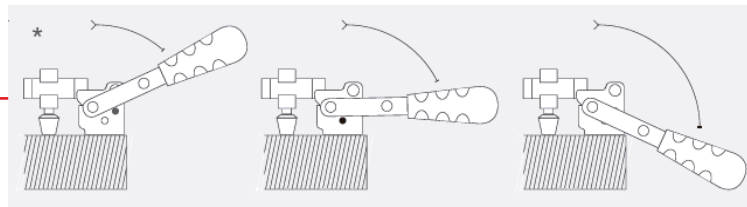
Quick clamping for tooling
 The handle rotates 90 degrees
 Vertical fastening.




P56001



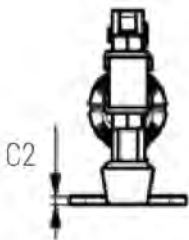
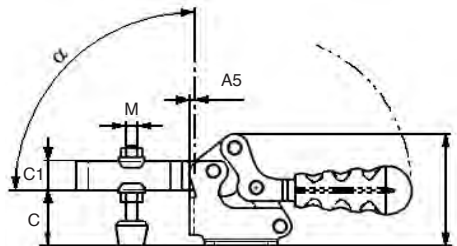
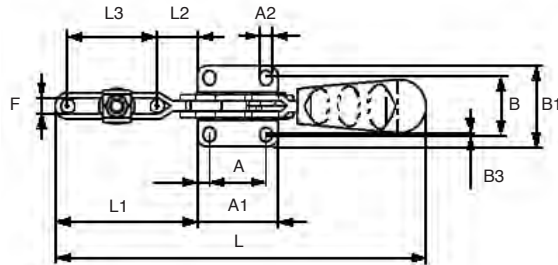
Other models



Ref.	Maximum strength	Degrees	A	A1	A3	A6	B	B1	C	C1	C2	D	F	H	L	L1	L3	
P56001	450N-45kg	67.40	16	26	5	-	23,4	33,4	19	8	2	4,4	5	77	50,4	24,4	16,4	0,1
P56002	1500N-150kg	93	12,7	27	7	-	26,9	37,9	23	11	3	5,1	6	111	70	42,9	21,5	0,2
P56003	2500N-250kg	90.40	19	35	8	5,5	32	47	32	17,5	3,2	7,1	8,9	175	90	55	28	0,4
P56004	3400N-340kg	90	32	50	9	10	45	64	42	22	4	8,3	10,6	218	143	92,8	60,5	0,8
P56005	3600N-360kg	101	32	50,8	9,5	12,2	45	64	50,8	22,5	3	8,6	13,4	224	176	125	82,5	1,1

QUICK HORIZONTAL TOGGLE CLAMPS **P56050**

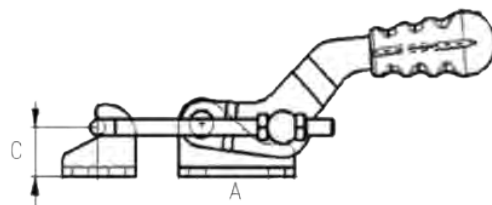
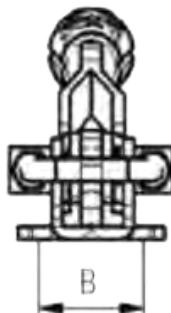
Quick clamping for tooling
The handle rotates 90 degrees
Vertical fastening.



Ref.	Maximum strength	Length	Degrees	A	B	C	⚖️
P56050	380N-38kg	68	87	11,1	19	7,4	0,1
P56051	700N-70kg	105	94	13,5	19	19	0,1
P56052	900N-90kg	162	96	26	28	25	0,2
P56053	2200N-220kg	189	95	26	31	34	0,4
P56054	3400N-340kg	269	95	41,2	43	45	0,9

QUICK CLAMP HOOK **P56201**

Quick clamping for tooling
The handle rotates 90 degrees
Vertical fastening.



Ref.	A	B	C	⚖️
P56201	19	32	14	0,3



KNURLING TOOLS M1

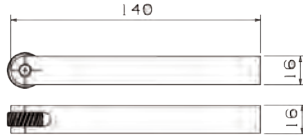
M1



1 mm helicoidal knurl included

Bullet points

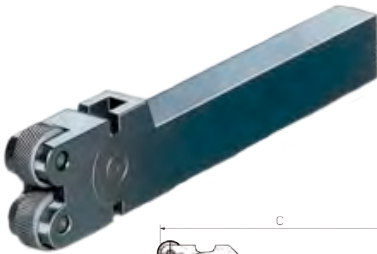
- Specifically for straight knurling on small lathe machines
- It is possible to reach quite close to the lathe machine plate.



Ref.	A	B	C	
M1/8	16	16	140	0,4

KNURLING TOOLS M2

M2

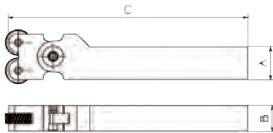



1mm helicoidal knurl set included

The head's turn allows to align the knurl to the working piece
Either straight or cross knurling are possible

Bullet points

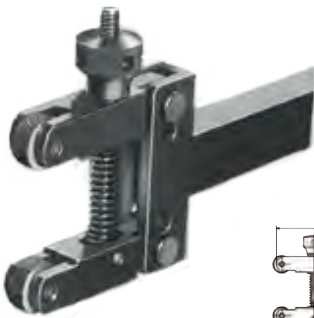
- For knurling parts where the slimness of the part allows to do it.



Ref.	A	B	C	
M2/20	25	20	185	0,8
MF2/20	19,5	20	185	0,8

KNURLING TOOLS M20

ME20

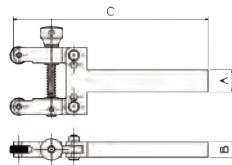


1mm helicoidal knurl set included

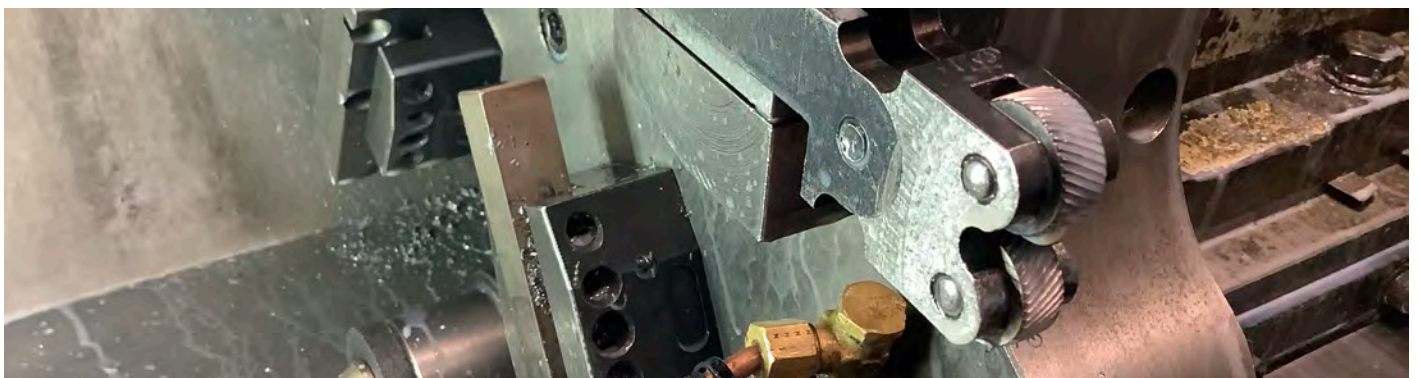
Spindle for making pressure over the knurling
Either straight or cross knurling are possible

Bullet points

- For knurling parts where the slimness does not allow pushing with the knurl



Ref.	A	B	C	
ME20/50	25	18	210	1,1



HSS KNURLS

MA



Rectas


Helicoidales

HSS 8% Co knurls
Supplied in sets of 2 units
Diameter of the knurls 20mm and diameter of the hole of the knurl 6mm



Bullet points

- It can knurl steel up to 125kg/mm².

Ref.	Knurl type	Knurl width	Step	
0,6	Straight	8	0,6	0,1
1,00	Straight	8	1	0,1
1,25	Straight	8	1,25	0,1
1,50	Straight	8	1,5	0,1
1,75	Straight	8	1,75	0,1
0,6H	Helicoidals set	8	0,6	0,1
0,6R	Straights set	8	0,6	0,1
1H	Helicoidals set	8	1	0,1
1R	Straights set	8	1	0,1
1,25H	Helicoidals set	8	1,25	0,1
1,25R	Straights set	8	1,25	0,1
1,50H	Helicoidals set	8	1,5	0,1
1,50R	Straights set	8	1,5	0,1
1,75H	Helicoidals set	8	1,75	0,1
1,75R	Straights set	8	1,75	0,1

TOOL HOLDERS



400

Toolholders with blades and hard metal chip included

Bullet points

- It is very easy to sharpen the blade.



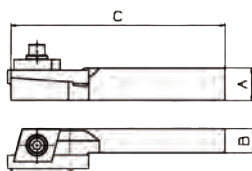
Ref.	A	B	C		
410	22	24	160	10x8x45	0,8
412	28	32	180	12x10x55	1,6

TOOL HOLDERS SERIE 500

500



Toolholders for rolling and counterering

Angled blade position
Angle of incidence 4 degrees
Blades not included



Bullet points

- There is no need to do "an exit" to the blade.

Ref.	A	B	C		
508D	20	14	125	6-8	0,3
508I	20	14	125	6-8	0,3
510D	24	18	155	8-10	0,6
510I	24	18	155	8-10	0,6
512D	30	24	180	10-12	1,1
512I	30	24	180	10-12	1,1



TOOL HOLDERS SERIE 600

600

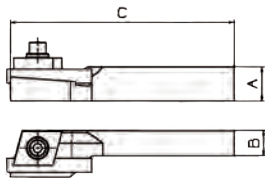




Toolholders for rolling and counterering
 Straight blade position
 Angle of incidence 4 degrees
 Blades not included



Bullet points

- There is no need to do “an exit” to the blade.



Ref.	A	B	C		
608D	19	13,5	126	6-8	0,3
608I	19	13,5	126	6-8	0,3
610D	24	18	155	8-10	0,6
610I	24	18	155	8-10	0,6
612D	30	24	180	10-12	1,2
612I	30	24	180	10-12	1,2

CUT OFF TOOL HOLDER SERIE 700

700

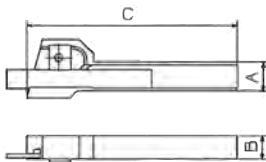




Toolholder with cutting blade
 Allows great use of the blade
 Blades not included



Bullet points

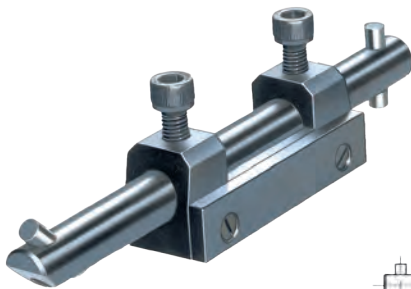
- Straight attack for rigid lathe machines.



Ref.	A	B	C		
701T	19,5	15	153	2,5x15-2x13	0,4
702T	26	13	153	2,5x15-2x13	0,4
703T	35	16	178	3,5x19-4x22	1,0

INTERNAL TOOL HOLDERS

800M

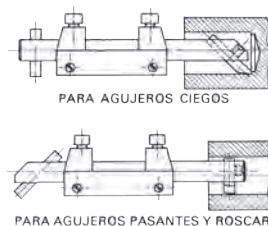



Equipped with two HSS high-speed steel blades
 For blind holes, through and thread



Bullet points

- Inside boring.



Ref.	A diameter	B	Blade diameter	
809M	9	115	4	0,3
815M	15	170	8	0,6
818M	18	220	8	1,1
822M	22	260	10	1,8
826M	26	285	10	2,5
830M	30	330	12	3,5

TOOL HOLDERS SERIE 900

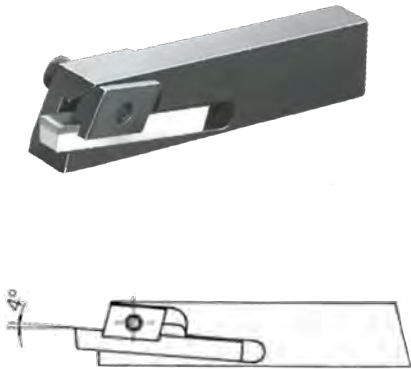
900



Toolholders for turning and facing
Blades not included



Bullet points

- There is no need to wedge while looking for the center. Just take out the blades.



Ref.	A	B	C		
906RD	25	14	130	6-8	0,3
906RI	25	14	130	6-8	0,3
908RD	32	18	155	8-10	0,6
908RI	32	18	155	8-10	0,6
910RD	38	22	250	10-12	1,5
910RI	38	22	250	10-12	1,5

CUT OFF SERIE CC

CCN1

Toolholders for turning and facing
Blades not included



Bullet points

- There is no need to do "an exit" to the blade.



Ref.	A	B	C		
CCN1	17,5	16	158	2,5x15-2x13	0,6

SERIE L10

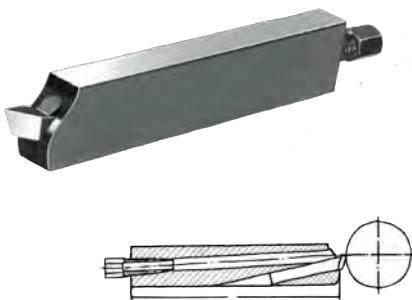
L10



For lathe and filing machine
The clamping of the blade is very safe
Blades not included



Bullet points

- There is no need to wedge while looking for the center. Just take out the blades

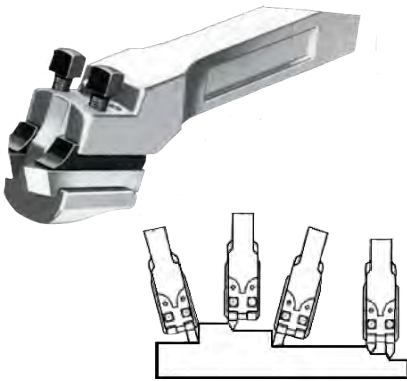


Ref.	A	B	C		
L10	18	34	175	10	0,8



CYLINDER AND FILING TOOL HOLDER

L300





Specific tool holder for lathes
Blades not included

Bullet points

- It can work either clockwise or anticlock wise
- I can rough down and finish at the same time.



Ref.	A	B	C		
L300	12	24	195	8	0,9
L500	20	28	210	10	1,3

TURNING AND FACING TOOL HOLDERS

TN





Lathe toolholder with steel chip breaker
Blades not included

Bullet points

- The blade does not need an exit
- There is no need to wedge while looking for the center.



Ref.	A	B	C		
TN1	19	16	195	8	0,5
TN2	24	18	200	10	1,0
TN3	26	29	235	12	2,1

TOOL HOLDER

WN2





Toolholder for rolling with widia chip breaker
Blades not included

Bullet points

- There is no need to do "an exit" to the blade.



Ref.	A	B	C		
WN2	24	18	200	10	1,1
WN3	26	29	235	12	2,1



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0,6H	61	12560	30	15092	25	200P52	31	29/150G	12
0,6R	61	12561	27	15094	24	200P52V	31	29/150GL	12
1,00	61	12580	26	150942	25	200P52W	31	29/150GS	12
1,25	61	1258020	29	15099940	32	200P57	31	29/150L	12
1,25H	61	1258021	29	15099950	32	200P57V	31	29/150S	12
1,25R	61	12590	24	150P40	31	200P57W	31	29/150X	12
1,50	61	12591	25	150P40V	31	200P62	31	29/175	12
1,50H	61	12594	24	150P40W	31	200P62V	31	29/175G	12
1,50R	61	125942	25	150P45	31	200P62W	31	29/175GL	12
1,75	61	12599930	32	150P45V	31	24/100	14	29/175GS	12
1,75H	61	12599935	32	150P45W	31	24/75	14	29/175L	12
1,75R	61	15002	24	150P50	31	24/95	14	29/175S	12
10002	24	15004	27	150P50V	31	2407514	34	29/175X	12
10008	24	15008	24	150P50W	31	2409514	34	29/200	12
10018	28	15011	24	150T16	28	2410014	34	29/200G	12
10020	29	1501261	27	1752211	27	25/130	19	29/200GL	12
10022	24	15018	28	17550	32	25/130L	19	29/200GS	12
10050	32	15020	29	17551	33	25/160	19	29/200L	12
10051	33	15022	24	17552	33	25/175	19	29/200S	12
10052	33	1502211	27	17553	32	25/175L	19	29/200X	12
10053	32	15031	11	17554	33	25008	24	29/200XL	12
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10055	33	15040	28	17556	34	25020	29	30/100G	6
10057	34	15041	28	17557	34	2502211	27	30/100GL	6
10058	29	15042	28	175P42	31	25031	11	30/100L	6
10058L	29	15043	28	175P42V	31	25043	28	30/100P	8
10059	29	15044	28	175P42W	31	25044	28	30/100PF	8
10080	26	15045	28	175P47	31	25045	28	30/100PM	8
1008020	29	15046	28	175P47V	31	25048	28	30/125	6
1008021	29	15048	28	175P47W	31	25054	33	30/125G	6
10090	24	15049	28	175P52	31	25055	33	30/125GL	6
10091	25	15050	32	175P52V	31	25057	34	30/125L	6
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12549	28	15070	25	20054	33	29/100G	12	30/150D	18
12550	32	15080	26	20055	33	29/100GL	12	30/150G	6
12551	33	1508020	29	20056	34	29/100L	12	30/150GL	6
12552	33	1508021	29	20057	34	29/125	12	30/150GS	6
12553	32	150821	26	20061	27	29/125G	12	30/150GX	6
12554	33	150822	26	2008020	29	29/125GL	12	30/150L	6
12555	33	150823	26	2008021	29	29/125L	12	30/150P	8
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