



U.S

WORKHOLDING & TOOLING 2016

GERARDI USA LLC - HUNTLEY - CHICAGO, IL

Inside:



STD & StdFLEX VISES



FMS VISES



MULTIFLEX VISES



MULTITASKING VISES



ZERO POINT



VISE TOWERS



ANGLE HEADS



DRIVEN TOOLS



THE HISTORY

The first Italian company to design and develop a complete steel modular workholding system which Guaranteed international worldwide success!



1971 Gerardi S.p.A. Co. has been established by Ivano Gerardi Sr. in 1971. Located just 5 km off from Malpensa airport of Milan, Gerardi company quickly grew as the largest Italian vise manufacturer and workholding solutions. It is one of the leaders in the European Common Market and the quality of its products and solutions are well-known and appreciated worldwide.

1980 Starting from 1986, Gerardi S.p.A. has designed a wide range of Angle Heads for traditional machine tools/machining centers and Driven Tools for C.N.C. lathes. The best markets of these products are nowadays those where the automotive and the aeronautic are more developed. In the eighties the company also developed its own Grinding machines with a totally new concept at the base of the project.

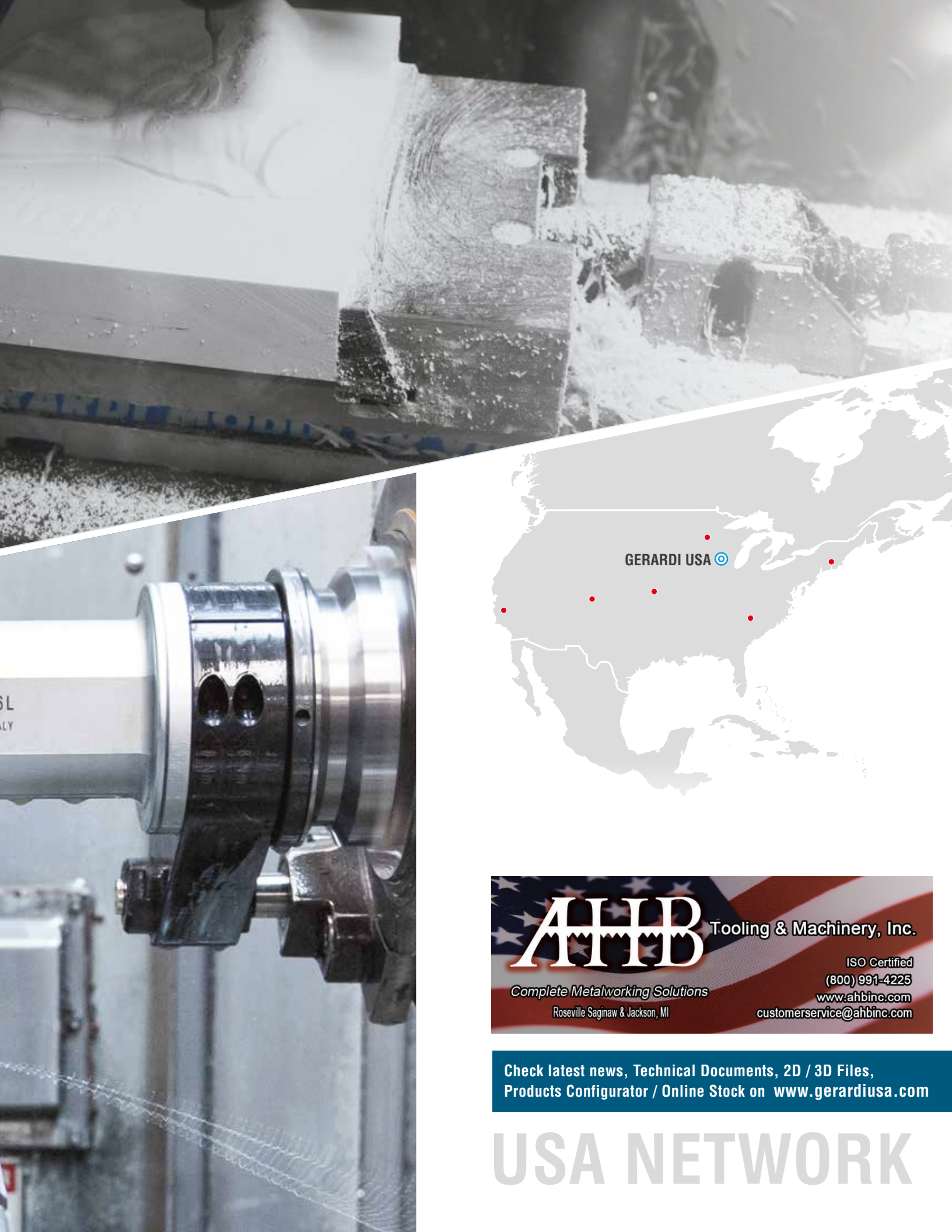
1990 The company established a joint-venture in China for the manufacture of parts and types of vises together with the Chinese aerospace industry. Thanks to major investments the new company is today fully controlled by Gerardi and it is achieving the same excellent leadership results in Asia and worldwide as those accomplished in Europe.

2000 After the set up of a US subsidiary Co. near Chicago (Huntley - IL), new German and English branches have been established in Stuttgart / Germany in 2007 and in Bristol / UK in 2010 in order to better penetrate and serve the local markets. Of course this meant a huge financial effort and investment but the fast evolution and continuous adjustments to high competitive markets has always been the main Gerardi S.p.A. feature.

2012 Gerardi sets up a new plant for angle heads manufacturing in LONATE POZZOLO and a new company in INDIA for the manufacturing of fixtures for the Indian market.

2015 The Gerardi S.p.A. Co. staff today counts over 200 employees, with an average age of under 40. All the top roles and manager positions of the company have been acquired through internal training and experience geared towards the development of individual skills and abilities. Our total export in more than 50 countries around the world is today more than 70% of our total production and we invest about 10% of our total turnover in advanced technological research for new products.





GERARDI USA 



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USA NETWORK



Precision modular vises series

STD

The most popular



The Perfect Mix: Price, Quality, Versatility

Art. 1

precision modular vise with solid guided movable jaw

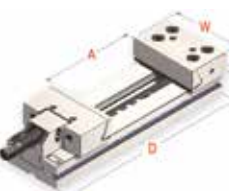
Technical data:

- All steel construction hardened and ground HRc 60
- Accuracy within 0,0008"
- Gang operation
- Pull down jaws
- Space saving design
- No wear (5 years warranty)
- Unlimited clamping range



STD precision modular vise with standard equipment

Vise Type	W	2 (4.9 inch)	3 (5.9 inch)	4 (6.9 inch)				5 (7.9 inch)				
Max Opening	A	5.9	7.9	11.8	7.9	11.8	15.7	19.7	7.9	11.8	15.7	19.7
Jaw Height	B	1.58	1.97		2.36				2.60			
Base Length	D	13.6	16.5	20.5	17.9	21.9	25.8	29.7	19.5	23.4	27.4	31.3
	kN	25	30		30				40			
Order code		3.02.10000	3.03.20000	3.03.30000	3.04.20000	3.04.30000	3.04.40000	3.04.50000	3.05.20000	3.05.30000	3.05.40000	3.05.50000



A RANGE OF VISES FOR THE MOST VARIED AND COMPLICATE NEEDS OF ROUGH, FLAT AND ROUND WORKPIECES MACHINING



Precision modular vises series

StandardFLEX

The most recent



Innovative comb system for quick pull-down jaw plate changes

Art. 1A

precision modular vise with solid guided movable jaw

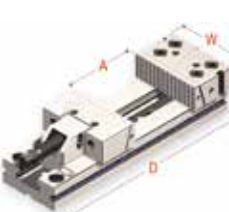
Technical data:

- Same as STD Art.1
- Vertical gang operation too
- Great savings in vise resetting times
- Better protection from chips
- Increased and better pull down action
- Highest repositioning accuracy
- Jaws type "A" fit standard vise bases too



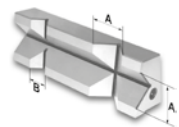
StandardFLEX precision modular vise with standard equipment

Vise Type	W	2 (4.8 inch)	3 (5.7 inch)	4 (6.7 inch)				5 (7.7 inch)				
Max Opening	A	5.9	7.9	11.8	7.9	11.8	15.7	19.7	7.9	11.8	15.7	19.7
Jaw Height	B	1.5	1.9		2.3				2.5			
Base Length	D	13.6	16.5	20.5	17.9	21.9	25.8	29.7	19.5	23.4	27.4	31.3
	kN	25	30		30				40			
Order code		1.1A.20000	1.1A.32000	1.1A.33000	1.1A.42000	1.1A.43000	1.1A.44000	1.1A.45 000	1.1A.52000	1.1A.53000	1.1A.54000	1.1A.55000



Art. 230E
Step jaw plates
(0.1" x 0.2")

VISE TYPE	2	3	4	5
Order code	4.23.0E201	4.23.0E301	4.23.0E401	4.23.0E501



Art. 230F
Prismatic jaw plates

Vise Type	2	3	4	5
Order code	4.23.0F201	4.23.0F301	4.23.0F401	4.23.0F501
Ø Min / Max A inch	0.4 / 0.9	0.5 / 1.5	0.6 / 1.6	0.6 / 1.7
Ø Min / Max B inch	0.3 / 0.7	0.4 / 0.9	0.4 / 0.9	0.3 / 0.9



THE NEW RANGE OF VISES WITH QUICK CHANGE JAW INSERTS. NO TOOLS NEEDED



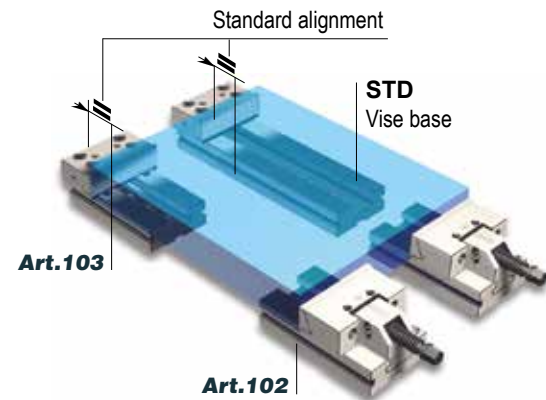
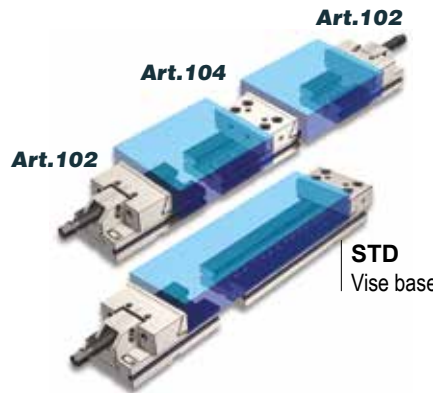
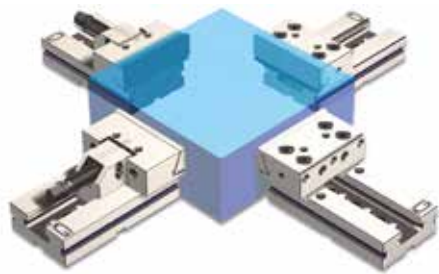
Precision modular vises series

For an Increased Versatility

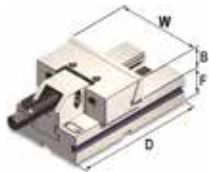


Modular Elements

Typical Arrangements of Art.102 / Art.103 / Art.104 (Without standard Equipment)

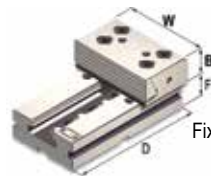


*M = Holes number on the base



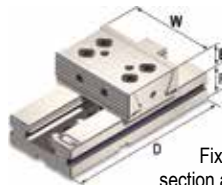
Art.102
Movable jaw section and base assy

Vise Type	2	3	4	5
W inch	4.9	5.9	6.9	7.9
D inch	6.3	9.1	9.4	11.8
B inch	1.58	1.97	2.36	2.60
F inch	3.2	3.9	4.6	5.3
lb	13.9	31.3	45.9	77.2
* M	3	4	3	5
kN				
Order code	2.10.22000	2.10.23000	2.10.24000	2.10.25000



Art.103
Fixed jaw section and base STD

Vise Type	2	3	4	5
lb	13.9	31.3	45.9	77.2
D inch	6.3	9.1	9.4	11.8
	2.10.32000	2.10.33000	2.10.34000	2.10.35000



Art.104
Fixed double-jaw section and base STD

Vise Type	2	3	4	5
lb	13.2	29.3	41.5	66.2
D inch	6.3	9.1	9.4	11.8
	2.10.42000	2.10.43000	2.10.44000	2.10.45000

A RANGE OF VISES WITHOUT ANY OPENING LIMIT



Precision modular vises series

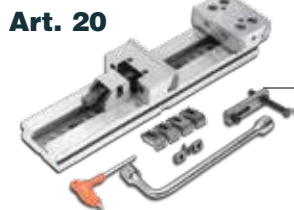
XL Extra Large Opening

Vises With Much Longer Base Than Standard Ones



Art. 30

(double clamping)



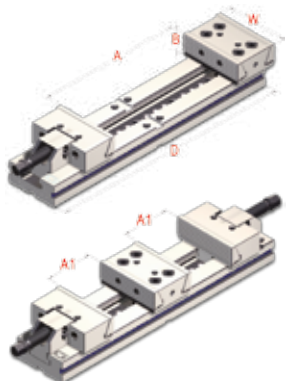
Art. 20

Art. 370
For Art.30 the standard equipment includes n.2 workstops

XL precision modular vise with standard equipment



Art. 20
(single clamping)

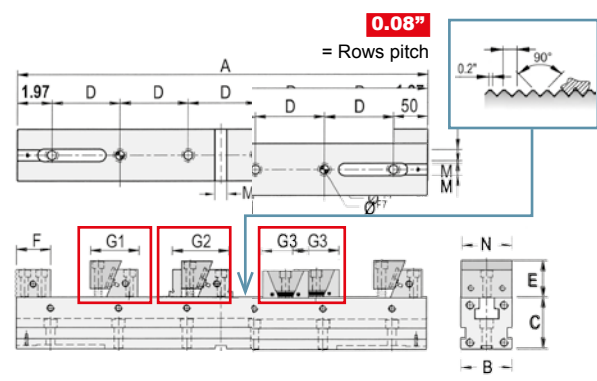
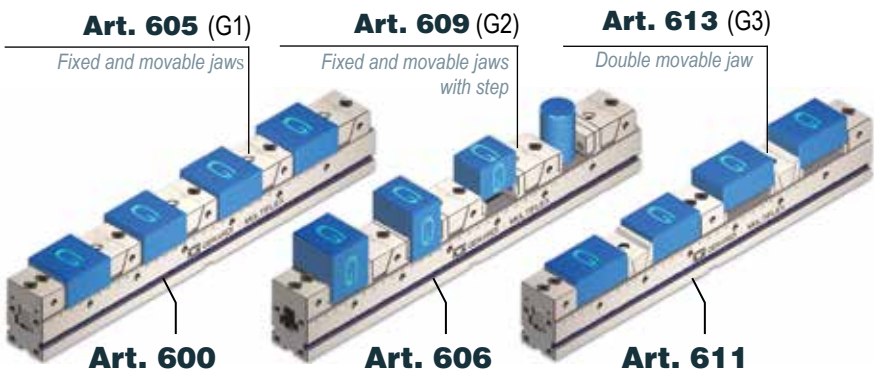


Vise Type	W	2 (4.9 inch)	3 (5.9 inch)	4 (6.8 inch)				5 (7.8 inch)				
Max Opening A		12.6	14.2	18.1	15.7	19.7	23.6	27.6	19.7	23.6	27.6	31.5
Max Opening A1		3.9	4.3	6.3	4.7	6.7	8.7	10.6	5.9	7.9	9.8	11.8
Jaw Height B		1.58	1.97		2.36				2.60			
Base Length D		20.5	22.8	26.8	26.2	30.2	34.1	38	31.7	35.6	39.6	43.5
kN		25	30		30				40			
Order code Art. 20		3.22.10000	3.23.20000	3.23.30000	3.24.20000	3.24.30000	3.24.40000	3.24.50000	3.25.20000	3.25.30000	3.25.40000	3.25.50000
kg Art. 20		17	31	34	46	51	56	61	85	92	99	106
Order code Art. 30		3.32.10600	3.33.20600	3.33.30600	3.34.20600	3.34.30600	3.34.40600	3.34.50600	3.35.20600	3.35.30600	3.35.40600	3.35.50600
kg Art. 30		20,5	38	42	58	63	68	73	95	101	107	113

A RANGE OF VISES FOR OVER SIZED WORKPIECE CLAMPING



For Multiple Clamping From 1 To 12 Workpieces Of Various Sizes



Vise Type	Art. 600											Art. 606			Art. 611			
Jaw Width	A	B	Ø	D	E	F	M ^{H7}	N	Ø ^{F7}	G1	kN	Order code	G2	kN	Order code	G3	kN	Order code
1 1.97 inch	11.8	50	1.97	3.94	1.3/1	1.5	0.63	49	0.4	2.2/2.3		6.60.01300	2.6/2.7		6.60.61300	1.7/2		6.61.11300
	15.7	50	1.97	3.94	1.3/1	1.5	0.63	49	0.4	2.2/2.3		6.60.01400	2.6/2.7		6.60.61400	1.7/2		6.61.11400
	19.7	50	1.97	3.94	1.3/1	1.5	0.63	49	0.4	2.2/2.3	20	6.60.01500	2.6/2.7	20	6.60.61500	1.7/2	20	6.61.11500
	23.6	50	1.97	3.94	1.3/1	1.5	0.63	49	0.4	2.2/2.3		6.60.01600	2.6/2.7		6.60.61600	1.7/2		6.61.11600
	NEW 27.6	50	1.97	3.94	1.3/1	1.5	0.63	49	0.4	2.2/2.3		6.60.01700	2.6/2.7		6.60.61700	1.7/2		6.61.11700
2 2.95 inch	15.7	75	2.95	3.94	1.6	2	0.63	74	0.63	2.8/3.0		6.60.02400	3.3/3.5		6.60.62400	2.0/2.3		6.61.12400
	19.7	75	2.95	3.94	1.6	2	0.63	74	0.63	2.8/3.0		6.60.02500	3.3/3.5		6.60.62500	2.0/2.3		6.61.12500
	23.6	75	2.95	3.94	1.6	2	0.63	74	0.63	2.8/3.0	30	6.60.02600	3.3/3.5	30	6.60.62600	2.0/2.3	30	6.61.12600
	27.6	75	2.95	3.94	1.6	2	0.63	74	0.63	2.8/3.0		6.60.02700	3.3/3.5		6.60.62700	2.0/2.3		6.61.12700
	NEW 31.5	75	2.95	3.94	1.6	2	0.63	74	0.63	2.8/3.0		6.60.02800	3.3/3.5		6.60.62800	2.0/2.3		6.61.12800
3 3.94 inch	27.6	100	3.94	3.94	2.4	2.8	0.63	99	0.63	3.7/3.8		6.60.03700	4.3/4.4		6.60.63700	3.3/3.5		6.61.12700
	31.5	100	3.94	3.94	2.4	2.8	0.63	99	0.63	3.7/3.8		6.60.03800	4.3/4.4		6.60.63800	3.3/3.5		6.61.13800
	35.4	100	3.94	3.94	2.4	2.8	0.63	99	0.63	3.7/3.8	40	6.60.03900	4.3/4.4	40	6.60.63900	3.3/3.5	40	6.61.13900
	39.4	100	3.94	3.94	2.4	2.8	0.63	99	0.63	3.7/3.8		6.60.03100	4.3/4.4		6.60.63100	3.3/3.5		6.61.13100



The MULTIFLEX precision modular vises are a totally new concept of modular clamping system able to maximize the machine table capacity and increase its productivity. The comb system is used even between the fixed and movable jaw, increases and improves the clamping capacity

Each vise is supplied for 4 workpieces clamping. Standard equipment: "T" wrenches, 2 positioning key nuts and 4 workstops

MAX OPENING ACCORDING TO NUMBER OF PIECES BE CLAMPED																																	
Type	A	Art. 600 # pieces:										Art. 606 # pieces:									Art. 611 # pieces:												
Jaw width		1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	10	11	12
1 1.97 inch	11.8	8.2	3	1.2	0.3	/	/	/	/	/	/	/	7.6	2.5	0.7	/	/	/	/	/	/	6.9	3.4	1.1	0.8	/	/	/	/	/	/	/	/
	15.7	12.1	4.9	2.5	1.3	0.6	0.1	/	/	/	/	/	11.5	4.4	2.1	0.9	/	/	/	/	/	10.8	5.4	2.4	1.89	0.7	0.6	/	/	/	/	/	/
	19.7	16.1	6.9	3.8	2.3	1.4	0.7	0.3	/	/	/	/	15.5	6.4	3.4	1.9	1	/	/	/	/	14.7	7.3	3.7	2.8	1.5	1.3	0.6	0.5	0.1	/	/	/
	23.6	20	8.9	5.1	3.3	2.2	1.4	0.9	0.5	0.2	/	/	19.4	8.4	4.7	2.9	1.8	1	0.5	/	/	18.7	9.3	5	3.8	2.3	1.9	1.2	1	0.5	0.5	0.1	0.1
	NEW 27.6	23.9	10.8	6.3	4.3	3	2	1.4	0.9	0.6	0.3	0.1	23.3	10.4	6	3.8	2.5	1.7	1	0.6	0.2	22.6	11.3	6.4	4.8	3.1	2.6	1.7	1.5	0.9	0.9	0.5	0.4
2 2.95 inch	15.7	10.8	3.9	1.6	0.5	/	/	/	/	/	/	/	10.3	3.4	1.1	/	/	/	/	/	/	9.5	4.8	1.8	1.3	0.2	/	/	/	/	/	/	/
	19.7	14.8	5.9	3	1.5	0.6	/	/	/	/	/	/	14.3	5.4	2.4	0.9	0.1	/	/	/	/	13.5	6.7	3.1	2.3	1	0.8	0.1	/	/	/	/	/
	23.6	18.7	7.9	4.3	2.4	1.4	0.6	0.1	/	/	/	/	18.2	7.4	3.7	1.9	0.9	0.1	/	/	/	17.4	8.7	4.4	3.3	1.8	1.5	0.7	0.6	0	/	/	/
	27.6	22.6	9.8	5.6	3.4	2.2	1.3	0.7	0.2	/	/	/	22.1	9.3	5	2.9	1.7	0.8	0.2	/	/	21.3	10.7	5.7	4.3	2.6	2.1	1.2	1.1	0.5	0.4	/	/
	NEW 31.5	26.6	11.8	6.9	4.4	3	2	1.3	0.7	0.3	/	/	26.1	11.3	6.4	3.9	2.4	1.5	0.7	0.2	/	25.3	12.6	7	5.3	3.3	2.8	1.8	1.6	0.9	0.8	0.4	0.4
3 3.94 inch	27.6	20.9	8.5	4.4	2.3	1.1	0.3	/	/	/	/	/	20.4	8	3.8	1.7	0.5	/	/	/	/	18.5	9.3	4.1	3	1.2	1	/	/	/	/	/	/
	31.5	24.9	10.5	5.7	3.3	1.9	0.9	0.2	/	/	/	/	24.3	9.9	5.1	2.7	1.3	0.3	/	/	/	22.4	11.2	5.4	4	2	1.6	0.5	0.4	/	/	/	/
	35.4	28.8	12.5	7	4.3	2.7	1.5	0.8	0.2	/	/	/	28.2	11.9	6.4	3.7	2.1	1	0.2	/	/	26.4	13.2	6.7	5	2.8	2.2	1	0.9	0.1	/	/	/
	39.4	32.8	14.4	8.3	5.3	3.5	2.2	1.3	0.7	0.2	/	/	32.2	13.9	7.7	4.7	2.9	1.7	0.7	0.1	/	30.3	11.2	8	6	3.5	2.9	1.6	1.4	0.6	/	/	/



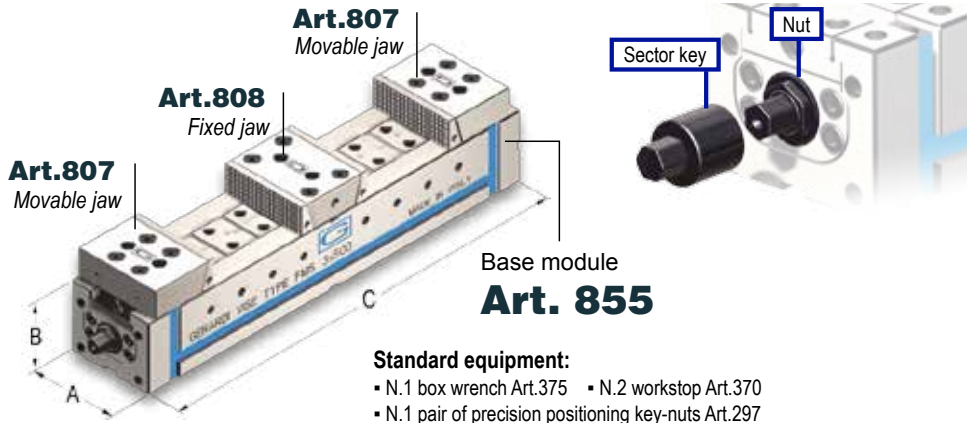


Precision modular vises series

FMS The Best



The Most Complete Vise For Machining Centres For Single, Double And Self Centering Clamping

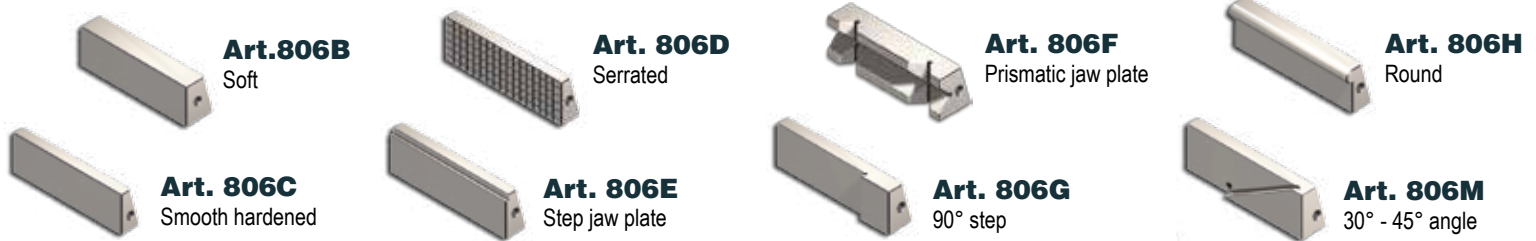


Vise resetting from **self-centering** to **double clamping** and vice-versa is very quick and easy with a pin hexagon bushing supplied with the standard equipment **Single clamping** is always available in both self-centering and double configuration. Possible clamping 2 workpieces of different dimensions with ease too.

Art. 865

Pull down jaws with comb system for quickest and most accurate resetting (Hand jaw plates change)

Type	MAX Opening	A	B	C	kN	Order code
3x400	2 x 3,1	3,7	3,5	15,7	30	5.86.52400
3x500	2 x 3,8	4,9	3,9	19,7	30	5.86.53500
4x600	2 x 4,5	5,7	4,7	23,6	30	5.86.54600



THE WORKHOLDING SYSTEM WITH THE LARGEST RANGE OF APPLICATIONS AVAILABLE IN THE WORLD



OK The Most Accurate

The Maximum High Precision Vise



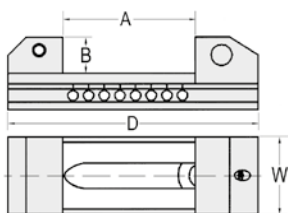
Art. 666

Highest precision vise series "OK" with standard equipment

THE FIXED JAW AND THE VISE BASE IS MADE OUT OF ONE PIECE !!

Most accurate clamping. Ideal for grinding operations. Compact design and easy to clean.

All case hardened and hardened HRC 60. Squareness and parallelism: 0,0001" / 4". For checking and control, for E.D.M. machine and for milling



Vise Type	0	1	2	3	4	5	6	7	8
Jaw Width inch W	1.2	2.4	3	3.9	4.9	4.9	4.9	4.9	6.3
Max Opening inch A	1.1	3.1	3.9	4.7	6.3	7.1	7.9	10.2	7.9
Jaw Height inch B	0.6	1.1	1.6	1.8	2	2	2	2	2.5
Vise Length inch D	3	6.9	8.7	10.2	13	13.8	14.6	16.9	16.1
lb	0.61	6.21	12.83	23.68	42.88	44.27	45.78	58.91	83.79
kN	-	-	160	160	180	180	180	180	200
Order code	3.66.60000	3.66.61000	3.66.62000	3.66.63000	3.66.64000	3.66.65000	3.66.66000	3.66.67000	3.66.68000



PERFECT FOR PALLETIZING OPERATIONS



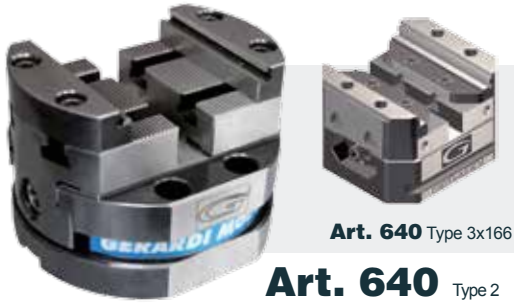
Manual Control, Mechanical Clamping!

Multitasking

Ideal for 5 Axis Machines



Compact self-centering and eccentric vise



Art. 640 Type 3x166

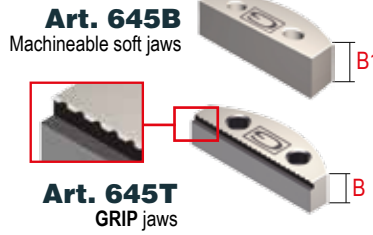
Art. 640 Type 2

AVAILABLE ALSO: Smooth, Soft, Prismatic or Grip Jaws



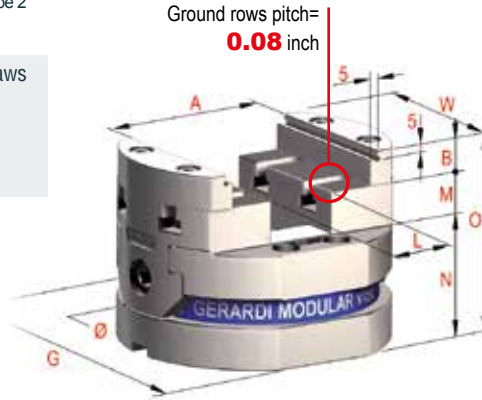
Technical data:

- Jaw adjustment in steps of 0.08" (Multiaxis self-centering)
- Precision hardened (HRc60) and ground steel construction
- Gripping accuracy within 0,0006"
- Solid, rigid construction for minimum deflection
- Series of interchangeable jaws available



Art. 645B Machineable soft jaws

Art. 645T GRIP jaws



Vise type	1	2	3
Code	6.64.5B100	6.64.5B200	7.64.5B300

Vise type	1	2	3
Code	6.64.5T100	6.64.5T200	7.64.5T300

Vise Type	1	2	3 (3x166)	3 (3x266)
Jaw width inch W	2.9	3.9	5.4	5.4
Max opening inch A	2.9	4.1	4.2	8.1
Jaw height inch B	0.6	0.8	1.1	1.1
Soft jaw height inch B1	1	1.2	1.9	1.9
inch Ø	4.7	6.3	-	-
Slides opening inch L	0.8	1.6	0.8	2.3
Slides height inch M	0.8	1	0.9	0.9
Base body height inch N	2	2.8	2.2	2.2
Base body width inch G	4.7	6.3	6.5	10.4
Vise total height O	3.3	4.5	4.4	4.4
ib	10.8	24.3	28.6	44
kN	16	20	30	30
Code	6.64.01000	6.64.02000	7.64.03166	7.64.03266



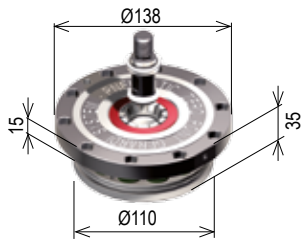
Zero Point Pneumatic

Set up times reduced 90% - Immediate Positioning & Clamping

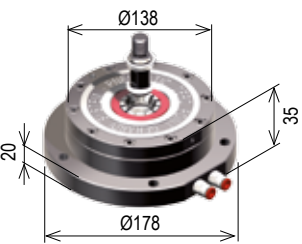


QUICKEST RETURN ON YOUR INVESTMENT

- Quickest set up, practically immediate
- Pre-set workpieces offline
- Greatest reduction in scraps
(if re-work is need you can put back on the machine within microns)
- Typically Zero Point used in 3 machining centres creates as much capacity as 1 new VMC (for about 15% of the cost)



Standard 10kN
UP TO 18kN*
Art.665 Type 2
PNEUMATIC
Built-in mounting
Code: 8.66.52000

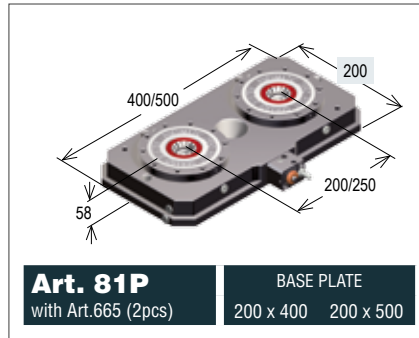


Standard 10kN
UP TO 18kN*
Art.664 Type 2
PNEUMATIC
Mounting with flange
Code: 8.66.42000

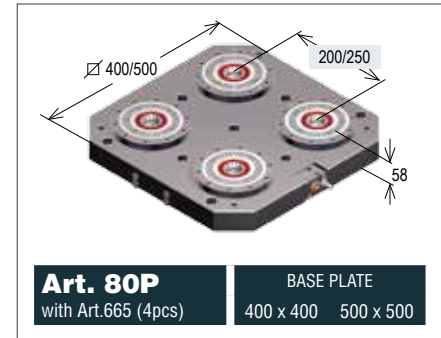


Standard equipment:
1 Pull-stud, 1 teflon cup with O-Ring Art.9

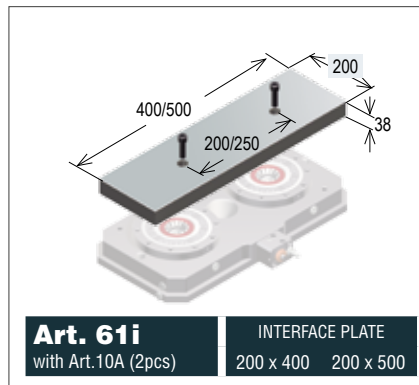
Kit Pneumatic Zero Point interfaced base plates + smooth interface plates



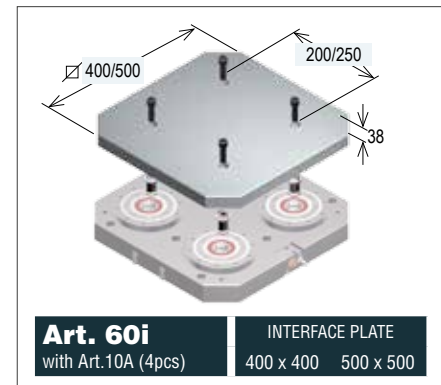
Art. 81P
with Art.665 (2pcs)
BASE PLATE
200 x 400 200 x 500



Art. 80P
with Art.665 (4pcs)
BASE PLATE
400 x 400 500 x 500



Art. 61i
with Art.10A (2pcs)
INTERFACE PLATE
200 x 400 200 x 500



Art. 60i
with Art.10A (4pcs)
INTERFACE PLATE
400 x 400 500 x 500



A RANGE OF VISES FOR THE MOST ADVANCED 5 AXIS MACHINE APPLICATIONS

Our Technical Dept. Can Design For You The Best Solution

The widest range of modular components and products will allow great savings !!

Free machine set up study !!

For all **FMS*** vises: Assembling, checking and taylor made base plate included in the total price

THIRD HAND SERVICE for VERTICAL WORKPIECES PRELOAD

When vises are vertically assembled it is allowed to load the first workpiece clamped lightly while the second workpiece is being loaded

**NO NEED TO STUDY
SPECIAL FIXTURE !!**



STD Art. 700
Solid single station vise tower



FMS* Art. 863C
Solid double station vise tower



MULTIFLEX Art. 602
Solid multiclamping vise tower

Vertical Clamping



STD Art. 750
Vises + Central column



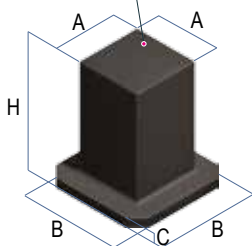
FMS* Art. 866
Vises cross mounted



MULTIFLEX Art. 57
Cross cube with 4 Art.600 multiclamping vises

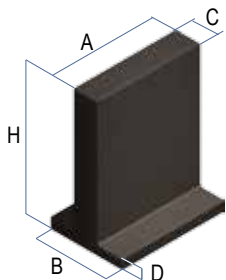
Horizontal Mounting

5th MACHINABLE SIDE



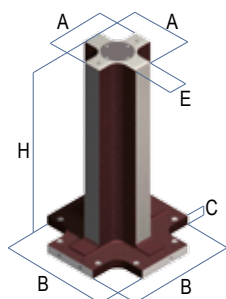
Art.53 - Cube

A	B	C	D	H	kg
260	400	45	-	550	197
260	400	45	-	660	228
360	500	45	-	700	356
360	500	45	-	820	420
510	630	45	-	860	631
360	630	45	-	950	508



Art.55 - 2 Sides Tombstones

A	B	C	D	H	kg
400	400	160	55	500	199
400	400	160	50	660	244
500	500	210	55	600	316
500	500	160	50	700	331
630	630	260	55	700	485
630	630	210	55	850	545



Art.57 - Cross Cube

A	B	C	E	H	kg
253	500	40	80	750	197
303	500	40	150	850	269
303	630	40	150	950	327

Available Types:

A

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

B

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet. Base with 4 precision holes $\varnothing 20F7$ and bottom threads M16 with precise pitch dimensions (Pic. 1) for the use of our Zero Point (Pic. 2 and 3) or to interface with other pallets or head plates

C

Cube completely finished with wall thickness roughly 38-40 mm. Tolerance $\pm 0,02$ mm

E

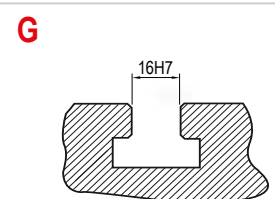
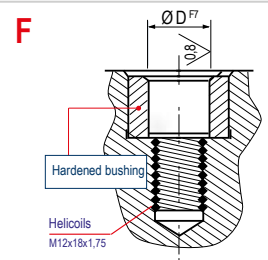
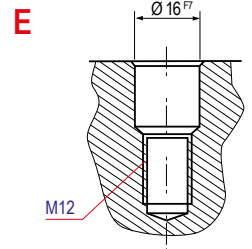
Integral cube with calibrated holes and solid threads. Tolerance $\pm 0,02$ mm

F

Integral cube with hardened bushing 100Cr6 and stainless steel helicoils. Tolerance $\pm 0,02$ mm

G

Completely machined tombstone with vises mounting predisposition. Tolerance $\pm 0,02$ mm





Manual Control, Mechanical Clamping!

Angle Heads



Classic Line - The

Integral Angle Heads

MADE IN ITALY

DESIGN

The Compact design, along with mentioned specifications, allows: highest performances, high speeds, long tools life

INTEGRAL SHANK & SHAFT

Integral case hardened and ground shank and shaft

MODULAR ANTIROTATION GROUP

GRADUATED RING

STEEL BODY

Treated steel head body with 360° position and internal air pressure, maximum rigidity and corrosion resistant. Minimum thermal expansion

OUTPUT

- ER collet (standard) from ER11 up to ISO50
- Weldon
- Shell mill holder
- Special



ATC series

(Automatic tool Change)

POSITIONING PIN

Positioning pin with automatic release

COOLANT

Standard 10BAR coolant through the pin

NEW
LONGER HEADS
with reduced weight and overall dimensions

MTC series

For traditional tool change with Flange Mounting



The Modular System makes it possible to extend the length of the body by adding a spacer



STOP BLOCK

with case hardened bushing and gasket included



BEARINGS

Angular contact preloaded ball bearings of precision class ABEC9. High speed options until 10.000Rpm



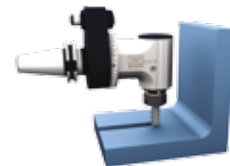
GEARS

Gleason ground spiral bevel gears maximum performances and minimum vibration

Application Examples:

G90 series

The ideal series for milling, drilling and tapping at $\pm 90^\circ$



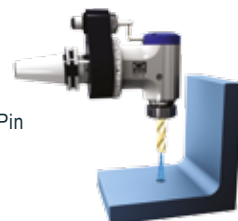
G90L series

Long angle head series for machining at deep positions



G90B series

With internal coolant input from positioning Pin and output through the tool at 10bar



GMU series

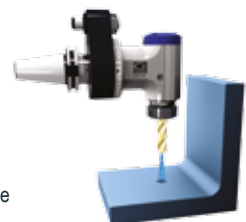
Angle heads series with adjustable angle from 0 to 90°
NEW quick positioning pin (Step 15°)



NEW!

G90RI series

With Internal coolant input from the machine spindle tool at 40bar



G90 2U series

Angle Heads series for milling drilling and tapping through 2 opposite outputs





High Speed Machining !

Spindle Speeders



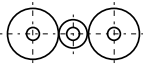
For Milling and Drilling Operation

MADE IN ITALY

MODULAR & INTERCHANGEABLE

Case hardened and ground
Shank and shaft

UP TO
35.000 Rpm



SPEED INCREASE

up to 1+8 through two planetary gears

COOLANT

Standard **10BAR** coolant through the pin

OUTPUT

- ER collet (standard) from ER11 up to ISO50
- Weldon
- Shell mill holder
- Special

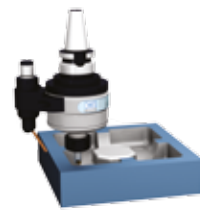


Application Examples:



GSS 10HS ER16

Ratio: 1:8
Nm: 3,5
Rpm Max: **35.000**



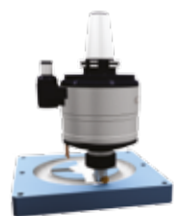
GSS 13 ER20

Ratio: 1:6
Nm: 2,8
Rpm Max: **22.000**



GSS 16 ER25

Ratio: 1:6
Nm: 7,5
Rpm Max: **15.000**



GSS 34 ER50

Ratio: 1:4
Nm: 90
Rpm Max: **8.000**

GSS 20 ER32

Ratio: 1:6
Nm: 7,5
Rpm Max: **15.000**

GSS 26 ER40

Ratio: 1:4
Nm: 90
Rpm Max: **8.000**



Internal Coolant Option up to 100bar !

Driven Tools

More than **700** Available types !

For Milling, Drilling and Tapping Operations



MADE IN ITALY

Driven Tools for VDI LATHE TURRETS

AVAILABLE OPTIONS:

- Coolant through tool
- Weldon or Arbor output
- Quick Change
- Speeders and Reducers
- Double Outputs
- Reverse Types



ALL VDI COUPLING OPTIONS:



DIN5480



DIN5482



BARUFFALDI



DIN1809

Driven Tools for CNC LATHE TURRETS

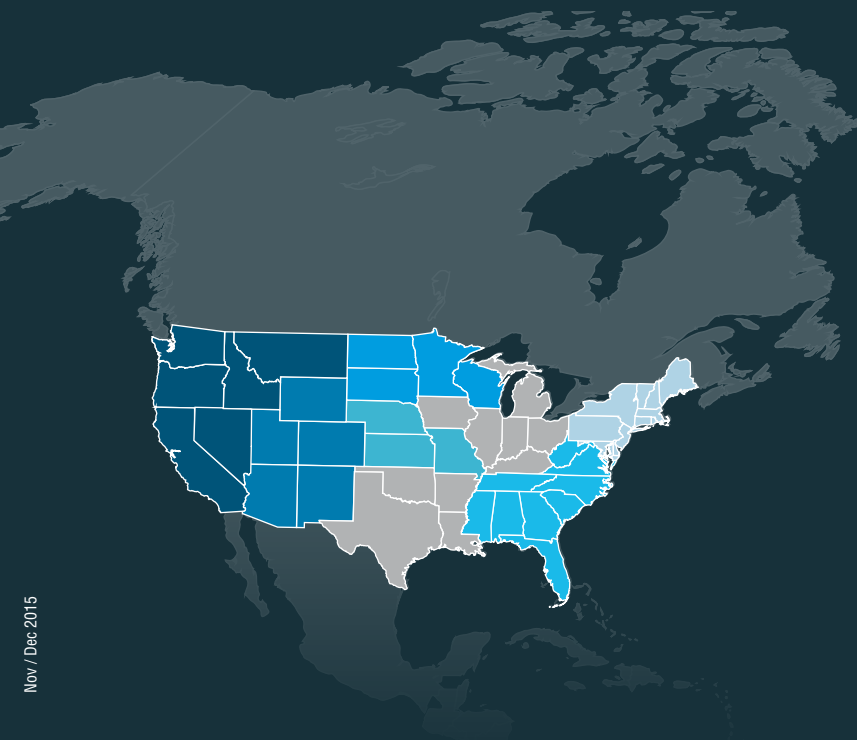




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