

INCREASE PRODUCTIVITY !!

**IMMEDIATE
POSITIONING
and CLAMPING**

**ACCURATE,
QUICK and SAFE**

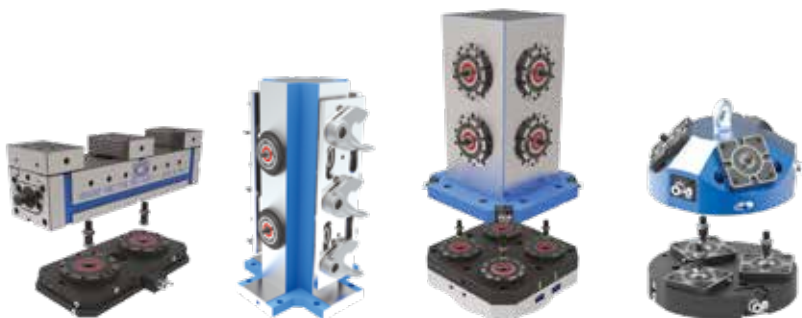


Art.664

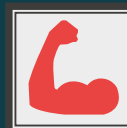
Pneumatic - Mounting with flange

Art.664

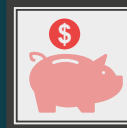
Pneumatic - Built-in mounting



**DOUBLE
EFFECT**



**95%
SAVING COSTS**



**REDUCE
SET UP TIME**



The **Zero-point** is an immediate positioning and clamping system, that represents the ideal solution for the positioning and the precise, fast and firm clamping of the equipments on the machine tools.

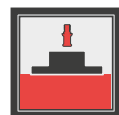
The Zero-point is a system "NORMALLY CLOSED", that uses die springs which allows the clamping of the pull-stud through the spheres located inside, while the filtered and lubricated compressed air enables the release.





MULTIPLE PNEUMATIC

Repeatability within 5 microns



Art. 664

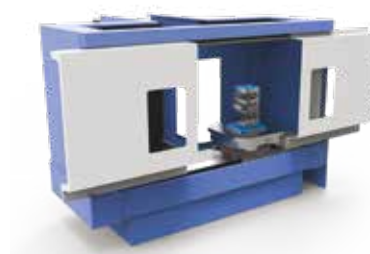
WITH FLANGE			
Type	1	2	3
code	9.66.41000	9.66.42000	9.66.43000
LIST PRICE \$	840	1,092	1,360

Clamping force 1124 ÷ 8992 lbf / Holding force more than 13.489 lbf / Pneumatic release 87 ÷ 203 psi / Positioning shank with axial compensation / Double pull-stud centering for Max rigidity / Air cleaning / 4 antirotation keyways / Double effect

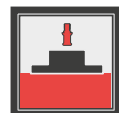


Art. 665

BUILT-IN			
Type	1	2	3
code	9.66.51000	9.66.52000	9.66.53000
LIST PRICE \$	700	946	1,224



SINGLE PNEUMATIC



Art. 664S

WITH FLANGE			
Type	1	2	3
code	9.66.4S100	9.66.4S200	9.66.4S300
LIST PRICE \$	833	1,190	1,360

Clamping force 1124 ÷ 8992 lbf / Holding force more than 13.489 lbf / Pneumatic release 87 ÷ 203 psi / Positioning shank with axial compensation / Double pull-stud centering for Max rigidity / Air cleaning / 4 antirotation keyways / Double effect



Art. 665S

BUILT-IN			
Type	1	2	3
code	9.66.5S100	9.66.5S200	9.66.5S300
LIST PRICE \$	694	1,050	1,224

INCREASE CLAMPING POWER

Art. 408

Pressure air multiplier



Opening pressure bar (psi)		Type 1	Type 2	Type 3
Input	Output	(lbf)	(lbf)	(lbf)
43,5	87	1057	2023	3372
50,8	101,5	1281	2248	3597
58	116	1394	2473	4047
72,5	145	1731	3147	5395
87	174	2091	3372	5845
101,5	203	2473	4047	6744

PRODUCTION OPTIMIZATION

The table illustrates how much it costs on just 1 machine to set up jobs on the machine.

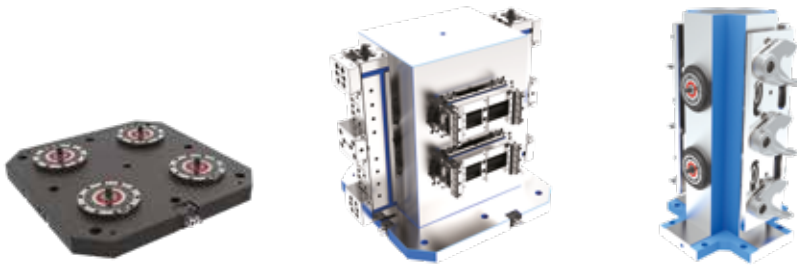
Zero Point allows you to set up jobs off the machine and position the new job/vise in few seconds on the machine when the last job finishes, saving around 95% set up time.

5 CNC machines being set 2 hours a day \$ 56,00 an hour is costing you at least

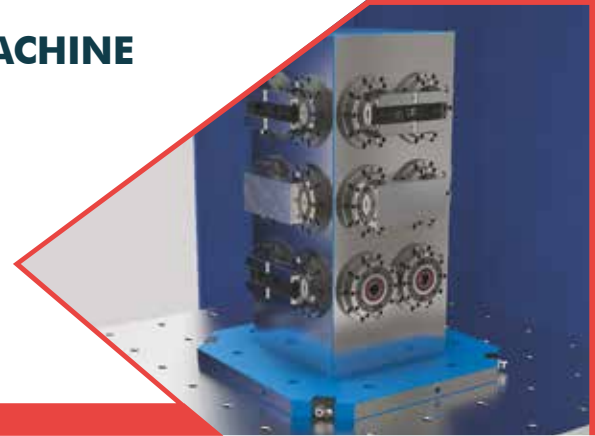
\$ 140000 in lost profits every year. Zero Point will allow you to save hundreds of hours in down time and make thousands more in profits.

Machine cost per hour	Time per day to set-up machine	Cost per year of down time*	Zero Point potential extra profit
\$ 35	2 HOURS	- \$ 17.500 lost	- \$ 16.625 savings
\$ 56	2 HOURS	- \$ 28.000 lost	- \$ 26.600 savings
\$ 84	2 HOURS	- \$ 42.000 lost	- \$ 39.900 savings
\$ 105	2 HOURS	- \$ 52.500 lost	- \$ 49.875 savings

THE IDEAL ZERO POINT SYSTEM FOR YOUR MACHINE



Horizontal Machining Centres



Horizontal Centres



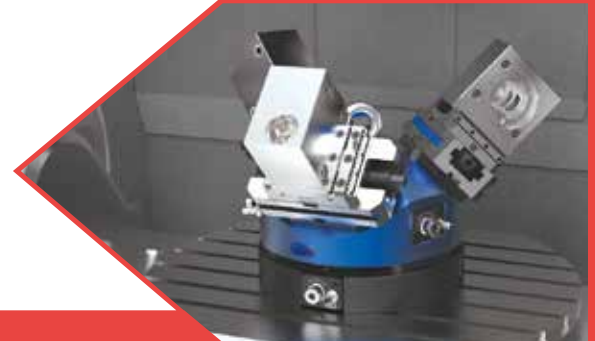
Vertical Machining Centres



Vertical Centres

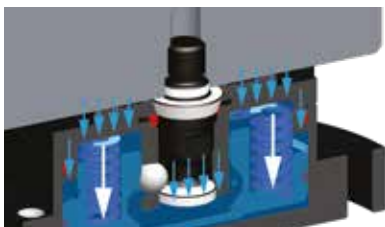


5 Axis Machining Centres



5 Axis Centres

INCREASE CLAMPING POWER



225 lbf

SINGLE SPRING

2248 lbf

ALL SPRINGS

5620 lbf

DOUBLE EFFECT

The DOUBLE EFFECT (always possible) function allows to get clamping results much higher than the normal. When the double effect is operated the air adds a pneumatic clamping power which supports and increases the normal clamping through springs.

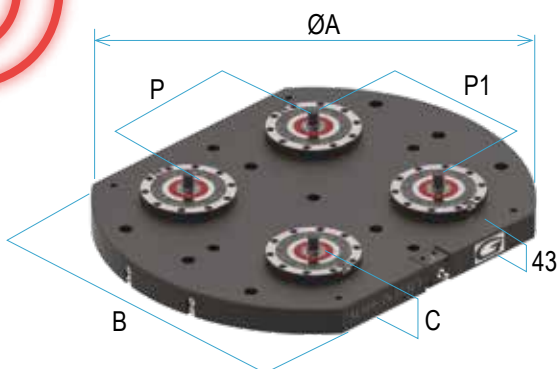


- Quality guaranteed by years of tests and real use in our workshop
- Immediate start up! Guarantee of double check on all the fixtures assembled with Zero-Point
- All components made of special alloy of steel case hardened and ground
- Repositioning accuracy within 5 microns
- Solid integral elastic collet for a better and more accurate fixtures positioning and disassemble

5

FOR FIVE AXIS MACHINE CENTRES

ZERO POINT INTERFACED ROUND HEAD PLATES



Art. 82P

Round plates with Zero Point
Art.665 built-in mounting

Dimension	Hermule C600U		DMG DMU 50 Evo		Mazak Variax 500		Hermule C40U		DMG DMU 50		Mazak Variax 630		DMG DMU 70 Evo		DMG DMC 635V		DMG DMC 1035V		DMG DMU 80P	
ØA inches	11,02		19,69		19,69		16,54		24,8		24,8		27,56		31,1		39,37		35,43	
B inches	-		14,96		15,75		-		19,69		19,69		19,69		22,05		22,05		24,8	
C inches	2,28		2,28		2,28		2,28		2,28		2,28		2,28		2,28		2,28		2,28	
P inches	5,91		200 / 250		200 / 250		200		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 250		200 / 250 / 350		200 / 250 / 300	
P1 inches	-		7,87		7,87 / 9,84		7,87		7,87 / 9,84 / 11,81		7,87 / 9,84 / 11,81		7,87 / 9,84 / 11,81		7,87 / 9,84 / 15,75		7,87 / 9,84 / 15,75		7,87 / 9,84 / 15,75	
N° Zero Point	2		4		4		4		4		4		4		6		8		6	
lb	66	37,5	148	64	152	64	123,5	57	227	95	227	95	256	106	328,5	139	434	183	414,5	192
Cod.	9.82.P2828S2	9.82.P2828A2	9.82.P5038S4	9.82.P5038A4	9.82.P5040S4	9.82.P5040A4	9.82.P4242S4	9.82.P4242A4	9.82.P6350S4	9.82.P6350A4	9.82.P6350S4	9.82.P6350A4	9.82.P7050S4	9.82.P7050A4	9.82.P7956S6	9.82.P7956A6	9.82.P1056S8	9.82.P1056A8	9.82.P9063S6	9.82.P9063A6
\$	630	721	1,401	1,615	1,448	1,673	1,337	1,536	1,986	2,336	1,986	2,336	2,149	2,538	2,824	3,314	3,373	3,990	3,404	4,028

ALSO AVAILABLE

Art. 72CP

Cover for pneumatic
Zero Point with flange

Art. 72P

Cover for pneumatic Zero
Point with flange round plates



Reduce Down Times

Minimum machine
set up times.
95% Reduction.



Risers

By the Risers for Zero
Point it's possible machi-
ning are as usually hard
to reach.



Production optimization

Increase productivity
and reduce scraps



Efficiency & Productivity are served !!

One supplier
Customized solutions
Best quality price / ratio