GERARDI

GERARDI
ZERO-POINT System



MADE IN ITALY

INDICE - **INDEX**

Art.	Pag 9.
9	35
10A	9-11-13-15-30-31-32
10B	9 - 11 - 30 - 31 - 32
10S	13-15-31
11A	9-11-13-15-30-31-32
11B	9-11-30-31-32
11S	13-15-31
53P	28
54P	28
55P	29
56P	29
62	39
63	24
64	24
70CP	21
70P	20
71CP	21
71P	20
72CP	23
72P	23
80P	21
81P	22
82P	23
99A	37 - 39
99B	37 - 39
99H	37 - 39
99S	37 - 39
99R	37 - 39
99Q	37 - 39
399	8 - 10 - 12 - 14 - 35
400	35
402	35
402/90	9 - 11 - 13 - 15 - 35
407C	33
408	8-10-12-14-19-35
409B	33

Art.	Pag 9.
664 T.1	8
664 T.2	8
664 T.3	8
664S T.1	12
664S T.2	12
664S T.3	12
665 T.1	10 - 17
665 T.2	10 - 17
665 T.3	10 - 17
665S T.1	14 - 16
665S T.2	14 - 16
665S T.3	14 - 16
665F	26
665X	26
665K	17
665SK	16
982	3
PN01	34
PN02	34
PN03	34
PN04	34
PN05	34
PN06	34
PN07	34
PN08	34
PN09	34
PN10	34
PN11	34
PN13	34
PN14	34
PN15	34
DIVIGER	38
DPG250	36

Art.	Pag 9.

VALIGETTA DI CAMPIONATURA ZERO POINT & MULTITASKING
SAMPLE KIT CASE STD ZERO POINT & MULTITASKING

NEW!



Art. 982

Valigetta di campionatura morsa Art.640 - Art.665 - Art.81P
Sample kit case Art.640- Art.665 - Art.81P

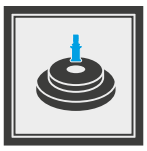
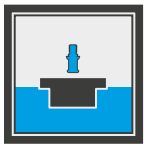
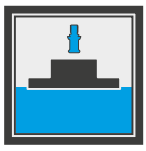
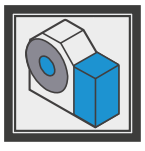
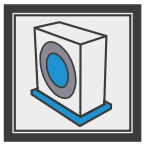
Cod.	0.98.20000
€	3.648

All'Interno - Inside:

Art.10A Art.11A	Art.645T	Art.655J
Art.645B	Art.640P	Art.370
Art.645C	Art.655B	Art.375
Art.645D	Art.655C	Art.376
Art.645E	Art.655D	Art.377
Art.645F	Art.655F	Art.297 Art.298



SIMBOLOGIA DATI TECNICI
TECHNICAL DATA ICONS

ZERO POINT ZERO POINT	 Doppio effetto Double effect	 Montaggio multiplo Multiple mounting	 Montaggio singolo Single mounting	 Carter per piastre interfacciate Carter for interfaced head plates	 Montaggio incassato Built-in mounting	 Montaggio con flangia Independent mounting
TIRANTI E RIALZI PULL-STUDS AND RISERS					 Tiranti Pull-stud	 Rialzi Risers
POSSIBILITÀ DI POSSIBILITY OF				 Divisore Automatico Automatic dividing head	 Divisore Meccanico Mechanical dividing head	 Cubi portapezzi Tombstones
PAGINE PAGES					 Accessori & Ricambi Accessories & Spare Parts	 Istruzioni corretto utilizzo Instruction for a proper use

Sistema GERARDI ZERO-POINT pneumatico
GERARDI pneumatic **ZERO-POINT System**

Il nuovo sistema di posizionamento ed ancoraggio istantaneo Gerardi (Ripetibilità entro 0,005 mm)

The new Gerardi immediate positioning and clamping system (Repositioning accuracy within 0,005 mm)

CARATTERISTICHE E VANTAGGI

- Abbattimento dei tempi di allestimento macchina
- Ottimizzazione della produzione
- Risparmio sulle attrezzature
  (su un solo cubo si possono montare diversi tipi di morse)

FEATURES AND ADVANTAGES

- Minimum machine set up times
- Production optimization
- Saving on fixtures
  (on the same tombstone you can mount different types of vises)

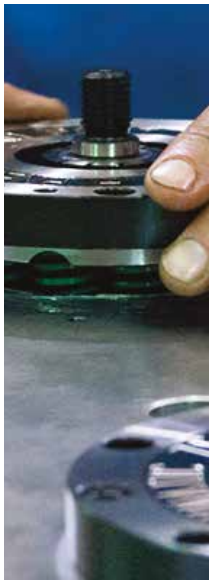


LA QUALITÀ GERARDI

- Qualità garantita da anni di collaudo nella propria officina
- Start up immediato! Verifica della precisione sui supporti e sulle attrezzature che montano Zero-Point.
- Tutti i componenti sono in acciaio temprato e rettificato
- Ripetibilità entro 0,005 mm
- Pinza elastica integrale per un migliore e più preciso posizionamento e rimozione delle attrezzature

GERARDI QUALITY

- 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 hardned and ground
- Repositioning accuracy within 0,005 mm
- Solid integral elastic collet for a better and more accurate fixtures positioning and disassemble



MONTAGGIO INCASSATO

- Forza di serraggio **5 ÷ 40 kN**
- Forza di arresto oltre 60Kn
- Sbloccaggio ad aria **6 ÷ 14** bar
- Cono di posizionamento con pinza elastica
- Doppio centraggio per tirante per massima rigidità
- Pulizia ad aria

BUILT-IN MOUNTING

- Clamping force 10 kN
- Holding force oltre more than 60 kN
- Pneumatic release 7bar
- Positioning shank with elastic collet
- Double pull-stud centering for Max rigidity
- Air cleaning



LA CONVENIENZA GERARDI

- **Unico fornitore per un servizio "CHIAVI IN MANO"**
- **Piastre, portapezzi e morse modulari predisposte per Zero-Point**
- **Studio gratuito dell' applicazione**
- **1 Anno di garanzia**
- **Assistenza post vendita**
- **Tutti i modelli includono il tirante nel prezzo**

GERARDI ADVANTAGES

- **A unique supplier for a TURNKEY SERVICE**
- **Head plates, tombstones and modular vises set up for Zero-Point**
- **Free application study**
- **1 year warranty**
- **After sales service**
- **One pull stud always included in the standard equipment**

RIALZI

Art. 63

RISERS

Art. 63



1 ABBATTIMENTO TEMPI DI ALLESTIMENTO

Riduzione del 95% dei tempi di allestimento macchina

1 MINIMUM MACHINE SET UP TIMES

Reduce set up times by to up 95% & increase profits

2 RISPARMIO SULLE ATTREZZATURE

Piastre, portapezzi e morse modulari predisposte per il sistema Zero Point per permettere il montaggio veloce e preciso di diverse attrezzature su piastre base o cubi con Zero-Point.

2 SAVING ON FIXTURES

Head plates, tombstones and modular vises ready to fit the Zero Point system in order to allow different fixtures mounting on Zero-Point tombstones and head plates

3 OTTIMIZZAZIONE DELLA PRODUZIONE

Incremento della produzione e riduzione degli scarti

3 PRODUCTION OPTIMIZATION

Increase productivity and reduce scraps

4 TIRANTE

Per ancoraggio e posizionamento delle attrezzature o del particolare da lavorare.

4 PULL-STUD

For the clamping and positioning of the fixtures, or directly the workpiece.

5 PNEUMATICO SINGOLO ART.664S

Montaggio con FLANGIA

5 SINGLE PNEUMATIC ART.664S

Mounting with FLANGE

6 PNEUMATICO SINGOLO ART.665S

Montaggio incassato

6 SINGLE PNEUMATIC ART.665S

BUILT-IN mounting



Costi e tempi di attrezzaggio macchina
Costs and times for set up machining centres

95% Riduzioni dei costi
Cost savings

RIDUZIONE DEL 95% DEI TEMPI DI ATTREZZAMENTO USANDO IL SISTEMA GERARDI ZERO-POINT
Semplicemente posizionando e rimuovendo la morsa / il cubo / il particolare da lavorare sullo Zero-Point in pochi secondi, risparmiando potenzialmente molte ore al giorno.
Drastica riduzione degli scarti.
Il modo più **semplice ed efficace** per ridurre i tempi morti e aumentare i profitti. Ogni operatore può usarlo.

SAVE UP 95% SET UP TIME BY USING ZERO-POINT
Simply place or remove vise / tombstone / workpiece into Zero Point in seconds, potentially saving many hours per day.
No more scraps.
The **easiest** and most **cost effective** way to reduce down time and increase profits. Any operator can use it.

ZERO POINT PNEUMATICO MULTIPLO (Ripetibilità entro 0,005 mm)
MULTIPLE PNEUMATIC ZERO POINT (Repositioning accuracy within 0,005 mm)

Zero Point per serraggio multiplo
Zero point for multiple clamping

Art. 664



Montaggio con flangia

✓ Forza di serraggio 5 ÷ 40 kN / ✓ Forza di arresto oltre a 60 kN / ✓ Sbloccaggio ad aria 6 ÷ 14bar ✓ Cono di posizionamento con pinza elastica / ✓ Doppio centraggio per tirante per massima rigidità ✓ Pulizia ad aria / ✓ Chiavetta antirotazione

Flange mounting

✓ Clamping force 5 ÷ 40 kN / ✓ Holding force more than 60 kN / ✓ Pneumatic release 6 ÷ 14bar ✓ Positioning shank with elastic collet / ✓ Double pull-stud centering for Max rigidity ✓ Air cleaning / ✓ Antirotation keyway



Art. 665



Montaggio incassato

✓ Forza di serraggio 5 ÷ 40 kN / ✓ Forza di arresto oltre a 60 kN / ✓ Sbloccaggio ad aria 6 ÷ 14 bar ✓ Cono di posizionamento con pinza elastica / ✓ Doppio centraggio per tirante per massima rigidità ✓ Pulizia ad aria / ✓ Chiavetta antirotazione

Built-in mounting

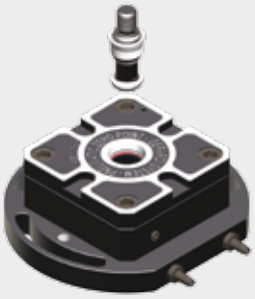
✓ Clamping force 5 ÷ 40 kN / ✓ Holding force more than 60 kN / ✓ Pneumatic release 6 ÷ 14 bar ✓ Positioning shank with elastic collet / ✓ Double pull-stud centering for Max rigidity ✓ Air cleaning / ✓ Antirotation keyway



ZERO POINT PNEUMATICO SINGOLO (Ripetibilità entro 0,005 mm)
SINGLE PNEUMATIC ZERO POINT (Repositioning accuracy within 0,005 mm)

Solo per serraggio tramite un **singolo** Zero Point con **chiavette antirotazione**
Only for **single** Zero Point clamping with **antirotation keyway**

Art. 664S



Montaggio con flangia

✓ Forza di serraggio 5 ÷ 40 kN / ✓ Forza di arresto oltre a 60 kN / ✓ Sbloccaggio ad aria 6 ÷ 14 bar ✓ Cono di posizionamento con compensazione assiale / ✓ Doppio centraggio per tirante per massima rigidità ✓ Pulizia ad aria / ✓ 4 Chiavette antirotazione / ✓ Doppio effetto

Flange Mounting

✓ Clamping force 5 ÷ 40 kN / ✓ Holding force more than 60 kN / ✓ Pneumatic release 6 ÷ 14 bar ✓ Positioning shank with axial compensation / ✓ Double pull-stud centering for Max rigidity ✓ Air cleaning / ✓ 4 antirotation keyways / ✓ Double effect



Art. 665S



Montaggio incassato

✓ Forza di serraggio 5 ÷ 40 kN / ✓ Forza di arresto oltre a 60 kN / ✓ Sbloccaggio ad aria 6 ÷ 14 bar ✓ Cono di posizionamento con compensazione assiale / ✓ Doppio centraggio per tirante per massima rigidità ✓ Pulizia ad aria / ✓ 4 Chiavette antirotazione

Built-in mounting

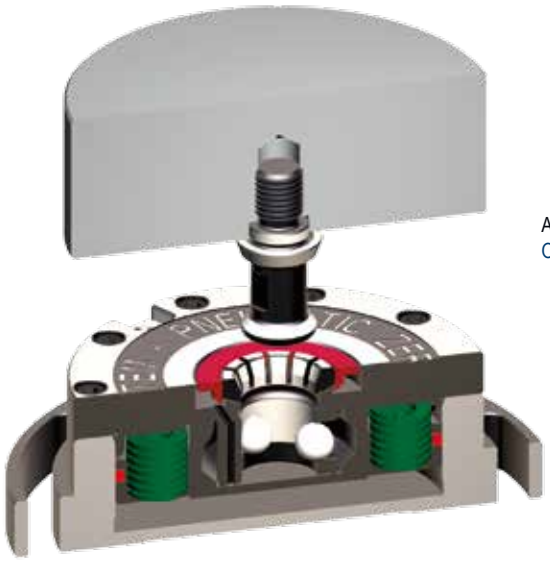
✓ Clamping force 5 ÷ 40 kN / ✓ Holding force more than 60 kN / ✓ Pneumatic release 6 ÷ 14 bar ✓ Positioning shank with axial compensation / ✓ Double pull-stud centering for Max rigidity ✓ Air cleaning / ✓ 4 antirotation keyways



ZERO POINT PNEUMATICO
PNEUMATIC ZERO POINT

Lo Zero-point è il sistema PNEUMATICO di posizionamento e ancoraggio istantaneo, rappresenta la soluzione ideale per il posizionamento ed il serraggio preciso, rapido e sicuro delle attrezzature sul pallet delle macchine utensili.
Lo Zero-point è un sistema "NORMALMENTE CHIUSO", utilizza molle che permettono il bloccaggio del tirante mediante le sfere poste all' interno mentre l' aria compressa, filtrata e lubrificata, serve per lo sbloccaggio dando così una maggiore sicurezza in fase di lavoro.

The Zero-point is an immediate pneumatic 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 allowing the clamping of the pull-stud through the spheres located inside, while the filtered and lubricated compressed air enables the release and a bigger security in working process.



Aperto
Open



Chiuso
Closed

DISPOSIZIONE DEI TIRANTI DI BLOCCAGGIO
ARRANGEMENT OF PULL-STUD CLAMPING

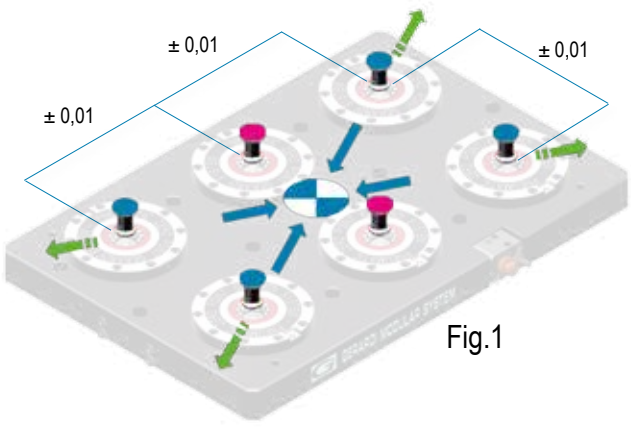


Fig.1

Disposizione dei tiranti con Zero Point multipli
Alignement of pull-studs with multiple Zero Point

Il sistema zero-point multiplo (art.664-665) grazie alla pinza elastica integrale consente una translazione laterale che compensa errori di interassi e variazioni dovute alla temperatura.
Il punto di riferimento centrale rimane costante ed è corretto utilizzare tiranti di posizionamento fino ad un massimo di 4 alternati a tiranti di solo bloccaggio. (Vedi Fig.1)

The multiple zero-point system (art.664-665) allows thanks to the solid integral elastic collet a lateral translation, that solves problems of centre distances and variations caused by the temperature. The central reference point remains steady and it is correct to use positioning pull-studs, up to maximum 4 to interchange with clamping pull-studs. (See picture 1)

Perno tirante di centraggio.
Centering pull-stud.

Perno tirante
Pull-stud

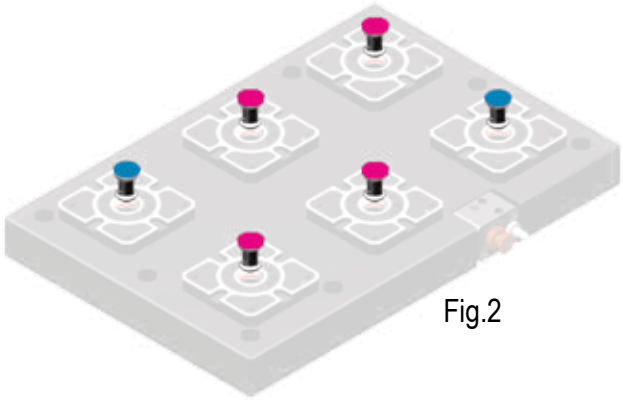


Fig.2

Disposizione dei tiranti con Zero Point singolo
Alignement of pull-studs with single Zero Point

Il sistema zero-point singolo (art.664S-665S) non permettono una translazione laterale, necessita di 2 tiranti di posizionamento massimo, alternati a tiranti di solo bloccaggio. (Vedi Fig.2)

The single zero point system (art.664S-665S) doesn't enable a lateral translation, there for it needs maximum 2 pull-studs, alternated to clamping pull-studs. (See picture 2)

Perno tirante di centraggio.
Centering pull-stud.

Perno tirante
Pull-stud

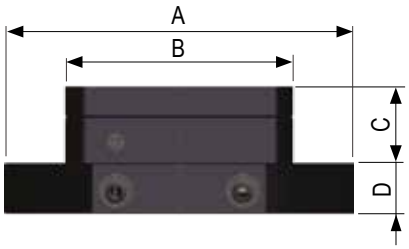
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 14 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	Ø138
	B	90
	C	30
	D	20
	Forma Shape	□
	kg	2,7
	Cod.	9.66.41000
	€	612

Art. 664

ZERO-POINT pneumatico
montaggio con FLANGIA
Pneumatic ZERO-POINT
FLANGE mounting



EXTRA, chiavette o fori calibrati su richiesta
EXTRA keyways or calibrated holes on request





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

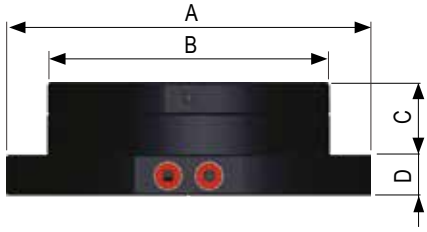
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 18 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	Ø178
	B	Ø138 h7
	C	35
	D	20
	Forma Shape	○
	kg	6
	Cod.	9.66.42000
	€	796

Art. 664

ZERO-POINT pneumatico
montaggio con FLANGIA
Pneumatic ZERO-POINT
FLANGE mounting



EXTRA chiavette o fori calibrati su richiesta
EXTRA keyways or calibrated holes on request





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	3 up to 40 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	Ø213
	B	Ø168 h7
	C	45
	D	25
	Forma Shape	○
	kg	11,2
	Cod.	9.66.43000
	€	1.000

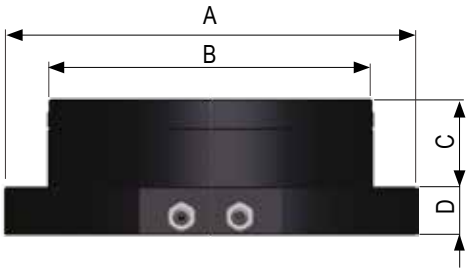
Art. 664

NEW!

ZERO-POINT pneumatico
montaggio con FLANGIA
Pneumatic ZERO-POINT
FLANGE mounting



EXTRA chiavette o fori calibrati su richiesta
EXTRA keyways or calibrated holes on request





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI !

Art. 408

Moltiplicatore di pressione aria
Pressure air multiplier

Vedi Pag. 9.19 - See Page 9.19



Cod.	9.40.80000
€	743

Art. 399

Gruppo filtro riduttore più lubrificatore
Compressed air preparation unit

Vedi Pag. 9.35 - See Page 9.35



Cod.	9.39.90000
€	152

Art. 10A

TIPO 1 / TYPE 1
Perno tirante di centraggio.
Filetto femmina
Centering pull-stud.
Female thread



Pag. 9.30
Page 9.30

Cod.	9.10.A1000
€	33

Art. 10B

TIPO 1 / TYPE 1
Perno tirante.
Filetto femmina
Clamping pull-stud.
Female thread



Pag. 9.30
Page 9.30

Cod.	9.10.B1000
€	33

Art. 11A

TIPO 1 / TYPE 1
Perno tirante di centraggio.
Filetto maschio
Centering pull-stud.
Male thread



Pag. 9.30
Page 9.30

Cod.	9.11.A1000
€	33

Art. 11B

TIPO 1 / TYPE 1
Perno tirante.
Filetto maschio
Clamping pull-stud.
Male thread



Pag. 9.30
Page 9.30

Cod.	9.11.B1000
€	33

Art. 10A

TIPO 2 / TYPE 2
Perno tirante di centraggio.
Filetto femmina
Centering pull-stud.
Female thread



Pag. 9.31
Page 9.31

Cod.	9.10.A2000
€	33

Art. 10B

TIPO 2 / TYPE 2
Perno tirante.
Filetto femmina
Clamping pull-stud.
Female thread



Pag. 9.31
Page 9.31

Cod.	9.10.B2000
€	33

Art. 11A

TIPO 2 / TYPE 2
Perno tirante di centraggio.
Filetto maschio
Centering pull-stud.
Male thread

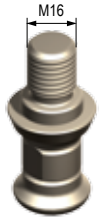


Pag. 9.31
Page 9.31

Cod.	9.11.A2000
€	33

Art. 11B

TIPO 2 / TYPE 2
Perno tirante.
Filetto maschio
Clamping pull-stud.
Male thread



Pag. 9.31
Page 9.31

Cod.	9.11.B2000
€	33

Art. 10A NEW!

TIPO 3 / TYPE 3
Perno tirante di centraggio.
Filetto femmina
Centering pull-stud.
Female thread



Pag. 9.32
Page 9.32

Cod.	9.10.A3000
€	55

Art. 10B NEW!

TIPO 3 / TYPE 3
Perno tirante.
Filetto femmina
Clamping pull-stud.
Female thread



Pag. 9.32
Page 9.32

Cod.	9.10.B3000
€	55

Art. 11A NEW!

TIPO 3 / TYPE 3
Perno tirante di centraggio.
Filetto maschio
Centering pull-stud.
Male thread



Pag. 9.32
Page 9.32

Cod.	9.11.A3000
€	55

Art. 11B NEW!

TIPO 3 / TYPE 3
Perno tirante.
Filetto maschio
Clamping pull-stud.
Male thread



Pag. 9.32
Page 9.32

Cod.	9.11.B3000
€	55

UPGRADE YOUR APPLICATION THROUGH ACCESSORIES !

Art. 402/90

Distributore leva angolare 90°, 3 vie
90° angular valve, 3 ways

Vedi Pag. 9.35 - See Page 9.35



Cod.	4.40.29000
€	172

Art. PN11

Blocchetto di connessione
con innesto rapido - 1/8" Gas
Connection block
with quick male coupling - 1/8" Gas

Vedi Pag. 9.34 - See Page 9.34



Cod.	9.PN.11000
€	143

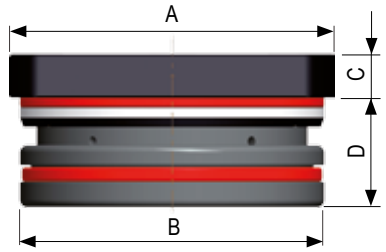
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 14 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	90
	B	Ø84
	C	12
	D	30
	Forma Shape	□
	kg	1,5
	Cod.	9.66.51000
	€	510

Art. 665

ZERO-POINT pneumatico
montaggio incassato
Pneumatic ZERO-POINT
built-in mounting



EXTRA chiavette o fori calibrati su richiesta
EXTRA keyways or calibrated holes on request





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

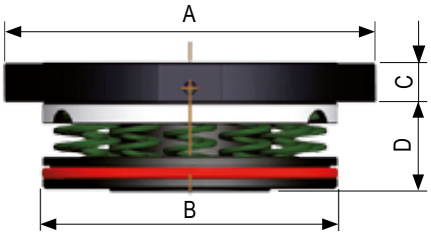
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 18 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	Ø138
	B	Ø110 h7
	C	15
	D	33
	Forma Shape	○
	kg	2,5
	Cod.	9.66.52000
	€	690

Art. 665

ZERO-POINT pneumatico
montaggio incassato
Pneumatic ZERO-POINT
built-in mounting



EXTRA chiavette o fori calibrati su richiesta
EXTRA keyways or calibrated holes on request





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	3 up to 40 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	Ø168
	B	Ø138 h7
	C	15
	D	47
	Forma Shape	○
	kg	5,8
	Cod.	9.66.53000
	€	900

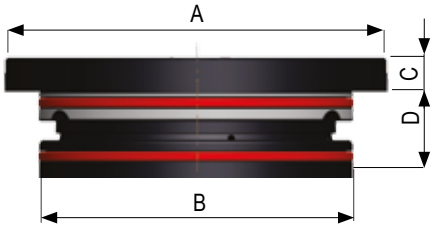
Art. 665

NEW!

ZERO-POINT pneumatico
montaggio incassato
Pneumatic ZERO-POINT
built-in mounting



EXTRA chiavette o fori calibrati su richiesta
EXTRA keyways or calibrated holes on request





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI !

Art. 408

Moltiplicatore di pressione aria
Pressure air multiplier

Vedi Pag. 9.19 - See Page 9.19



Cod.	9.40.80000
€	743

Art. 399

Gruppo filtro riduttore più lubrificatore
Compressed air preparation unit

Vedi Pag. 9.35 - See Page 9.35



Cod.	9.39.90000
€	152

Art. 10A

TIPO 1 / TYPE 1
Perno tirante di centraggio.
Filetto femmina
Centering pull-stud.
Female thread



Pag. 9.30
Page 9.30

Cod.	9.10.A1000
€	33

Art. 10B

TIPO 1 / TYPE 1
Perno tirante.
Filetto femmina
Clamping pull-stud.
Female thread



Pag. 9.30
Page 9.30

Cod.	9.10.B1000
€	33

Art. 11A

TIPO 1 / TYPE 1
Perno tirante di centraggio.
Filetto maschio
Centering pull-stud.
Male thread



Pag. 9.30
Page 9.30

Cod.	9.11.A1000
€	33

Art. 11B

TIPO 1 / TYPE 1
Perno tirante.
Filetto maschio
Clamping pull-stud.
Male thread



Pag. 9.30
Page 9.30

Cod.	9.11.B1000
€	33

Art. 10A

TIPO 2 / TYPE 2
Perno tirante di centraggio.
Filetto femmina
Centering pull-stud.
Female thread



Pag. 9.31
Page 9.31

Cod.	9.10.A2000
€	33

Art. 10B

TIPO 2 / TYPE 2
Perno tirante.
Filetto femmina
Clamping pull-stud.
Female thread



Pag. 9.31
Page 9.31

Cod.	9.10.B2000
€	33

Art. 11A

TIPO 2 / TYPE 2
Perno tirante di centraggio.
Filetto maschio
Centering pull-stud.
Male thread

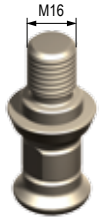


Pag. 9.31
Page 9.31

Cod.	9.11.A2000
€	33

Art. 11B

TIPO 2 / TYPE 2
Perno tirante.
Filetto maschio
Clamping pull-stud.
Male thread



Pag. 9.31
Page 9.31

Cod.	9.11.B2000
€	33

Art. 10A NEW!

TIPO 3 / TYPE 3
Perno tirante di centraggio.
Filetto femmina
Centering pull-stud.
Female thread



Pag. 9.32
Page 9.32

Cod.	9.10.A3000
€	55

Art. 10B NEW!

TIPO 3 / TYPE 3
Perno tirante.
Filetto femmina
Clamping pull-stud.
Female thread



Pag. 9.32
Page 9.32

Cod.	9.10.B3000
€	55

Art. 11A NEW!

TIPO 3 / TYPE 3
Perno tirante di centraggio.
Filetto maschio
Centering pull-stud.
Male thread



Pag. 9.32
Page 9.32

Cod.	9.11.A3000
€	55

Art. 11B NEW!

TIPO 3 / TYPE 3
Perno tirante.
Filetto maschio
Clamping pull-stud.
Male thread



Pag. 9.32
Page 9.32

Cod.	9.11.B3000
€	55

UPGRADE YOUR APPLICATION THROUGH ACCESSORIES !

Art. 402/90

Distributore leva angolare 90°, 3 vie
90° angular valve, 3 ways

Vedi Pag. 9.35 - See Page 9.35



Cod.	4.40.29000
€	172

Art. PN11

Blocchetto di connessione
con innesto rapido - 1/8" Gas
Connection block
with quick male coupling - 1/8" Gas

Vedi Pag. 9.34 - See Page 9.34



Cod.	9.PN.11000
€	143

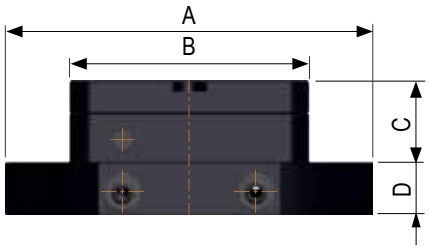
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 14 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	Ø118
	B	90
	C	32
	D	16
	Forma Shape	□
	kg	2,7
	Cod.	9.66.4S100
	€	612

Art. 664S

ZERO-POINT pneumatico **SINGOLO**
montaggio con flangia
SINGLE pneumatic ZERO-POINT
flange mounting



4 chiavette comprese nel prezzo
4 keyways included in the price





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

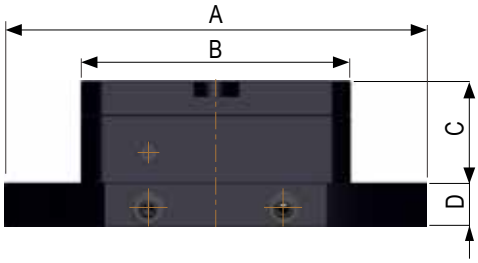
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 25 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	Ø188
	B	120
	C	45
	D	20
	Forma Shape	□
	kg	6,5
	Cod.	9.66.4S200
	€	867

Art. 664S

ZERO-POINT pneumatico **SINGOLO**
montaggio con flangia
SINGLE pneumatic ZERO-POINT
flange mounting



4 chiavette comprese nel prezzo
4 keyways included in the price





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	3 up to 39,5 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	Ø213
	B	Ø168
	C	45
	D	25
	Forma Shape	○
	kg	11
	Cod.	9.66.4S300
	€	1.000

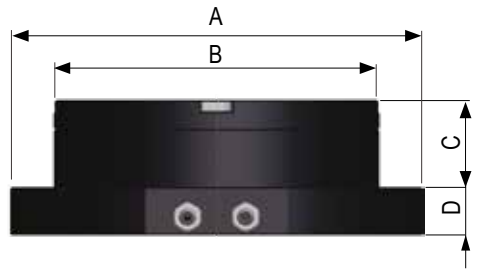
Art. 664S

NEW!

ZERO-POINT pneumatico
SINGOLO
montaggio con flangia
SINGLE
pneumatic ZERO-POINT
flange mounting



4 chiavette comprese nel prezzo
4 keyways included in the price





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

AMPLIA LE TE APPLICAZIONI TRAMITE GLI ACCESSORI !

Art. 408

Moltiplicatore di pressione aria
Pressure air multiplier

Vedi Pag. 9.19 - See Page 9.19



Cod.	9.40.80000
€	743

Art. 399

Gruppo filtro riduttore più lubrificatore
Compressed air preparation unit

Vedi Pag. 9.35 - See Page 9.35



Cod.	9.39.90000
€	152

Art. 10A

TIPO 1 / TYPE 1
Perno tirante di centraggio
Filetto femmina
Centering pull-stud
Female thread



Pag. 9.30
Page 9.30

Cod.	9.10.A1000
€	33

Art. 11A

TIPO 1 / TYPE 1
Perno tirante di centraggio
Filetto maschio
Centering pull-stud
Male thread



Pag. 9.30
Page 9.30

Cod.	9.11.A1000
€	33

Art. 10S

TIPO 2 / TYPE 2
Perno tirante di centraggio per Zero Point **singolo**
Filetto femmina
Centering pull-stud for **single** Zero Point.
Female thread



Pag. 9.31
Page 9.31

Cod.	9.10.S2000
€	33

Art. 11S

TIPO 2 / TYPE 2
Perno tirante di centraggio per Zero Point **singolo.**
Filetto maschio
Centering pull-stud for **single** Zero Point.
Male thread



Pag. 9.31
Page 9.31

Cod.	9.11.S2000
€	33

Art. 10A NEW!

TIPO 3 / TYPE 3
Perno tirante di centraggio per Zero Point **singolo**
Filetto femmina
Centering pull-stud for **single** Zero Point.
Female thread



Pag. 9.32
Page 9.32

Cod.	9.10.A3000
€	55

Art. 11A NEW!

TIPO 3 / TYPE 3
Perno tirante di centraggio per Zero Point **singolo.**
Filetto maschio
Centering pull-stud for **single** Zero Point.
Male thread



Pag. 9.32
Page 9.32

Cod.	9.11.A3000
€	55

UPGRADE YOUR APPLICATION THROUGH ACCESSORIES !

Art. 402/90

Distributore leva angolare 90°, 3 vie
90° angular valve, 3 ways

Vedi Pag. 9.35 - See Page 9.35



Cod.	4.40.29000
€	172

Art. PN11

Blocchetto di connessione
con innesto rapido - 1/8" Gas
Connection block
with quick male coupling - 1/8" Gas

Vedi Pag. 9.34 - See Page 9.34



Cod.	9.PN.11000
€	143

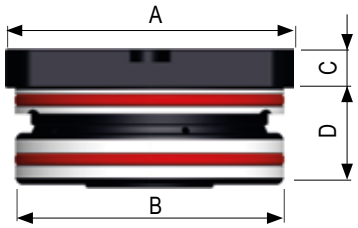
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 14 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	⍁90
	B	Ø84 h7
	C	12
	D	30
	Forma Shape	□
	kg	1,5
	Cod.	9.66.5S100
	€	510

Art. 665S

ZERO-POINT pneumatico **SINGOLO**
montaggio incassato
SINGLE pneumatic ZERO-POINT
built-in mounting



Chiavette comprese nel prezzo
keyways included in the price





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

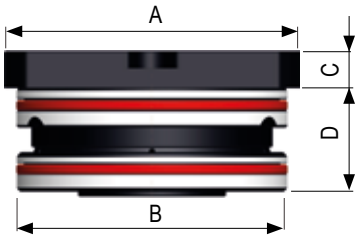
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 25 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	⍁120
	B	Ø110 h7
	C	15
	D	42
	Forma Shape	□
	kg	2,5
	Cod.	9.66.5S200
	€	765

Art. 665S

ZERO-POINT pneumatico **SINGOLO**
montaggio incassato
SINGLE pneumatic ZERO-POINT
built-in mounting



Chiavette comprese nel prezzo
keyways included in the price





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	3 up to 40 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	A	Ø168
	B	Ø138 h7
	C	15
	D	47
	Forma Shape	○
	kg	5,8
	Cod.	9.66.5S300
	€	900

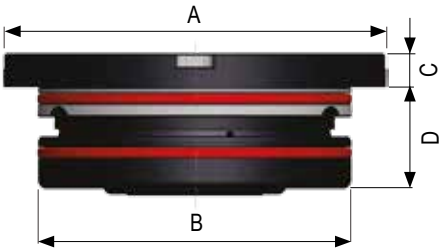
Art. 665S

NEW!

ZERO-POINT pneumatico
SINGOLO
montaggio incassato
SINGLE
pneumatic ZERO-POINT
built-in mounting



Chiavette comprese nel prezzo
keyways included in the price





Dotazione standard:
Standard equipment:
- 1 tirante Art.11A
- 1 tappo teflon con O-Ring Art.9
- 1 Pull-stud Art.11A
- Teflon cap with O-Ring Art.9

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI !

Art. 408

Moltiplicatore di pressione aria
Pressure air multiplier

Vedi Pag. 9.19 - See Page 9.19



Cod.	9.40.80000
€	743

Art. 399

Gruppo filtro riduttore più lubrificatore
Compressed air preparation unit

Vedi Pag. 9.35 - See Page 9.35



Cod.	9.39.90000
€	152

Art. 10A

TIPO 1 / TYPE 1
Perno tirante di centraggio
Filetto femmina
Centering pull-stud
Female thread



Pag. 9.30
Page 9.30

Cod.	9.10.A1000
€	33

Art. 11A

TIPO 1 / TYPE 1
Perno tirante di centraggio
Filetto maschio
Centering pull-stud
Male thread



Pag. 9.30
Page 9.30

Cod.	9.11.A1000
€	33

Art. 10S

TIPO 2 / TYPE 2
Perno tirante di centraggio per Zero Point **singolo**
Filetto femmina
Centering pull-stud for **single** Zero Point.
Female thread



Pag. 9.31
Page 9.31

Cod.	9.10.S2000
€	33

Art. 11S

TIPO 2 / TYPE 2
Perno tirante di centraggio per Zero Point **singolo.**
Filetto maschio
Centering pull-stud for **single** Zero Point.
Male thread



Pag. 9.31
Page 9.31

Cod.	9.11.S2000
€	33

Art. 10A *NEW!*

TIPO 3 / TYPE 3
Perno tirante di centraggio per Zero Point **singolo**
Filetto femmina
Centering pull-stud for **single** Zero Point.
Female thread



Pag. 9.32
Page 9.32

Cod.	9.10.A3000
€	55

Art. 11B *NEW!*

TIPO 3 / TYPE 3
Perno tirante di centraggio per Zero Point **singolo.**
Filetto maschio
Centering pull-stud for **single** Zero Point.
Male thread



Pag. 9.32
Page 9.32

Cod.	9.11.A3000
€	55

UPGRADE YOUR APPLICATION THROUGH ACCESSORIES !

Art. 402/90

Distributore leva angolare 90°, 3 vie
90° angular valve, 3 ways

Vedi Pag. 9.35 - See Page 9.35



Cod.	4.40.29000
€	172

Art. PN11

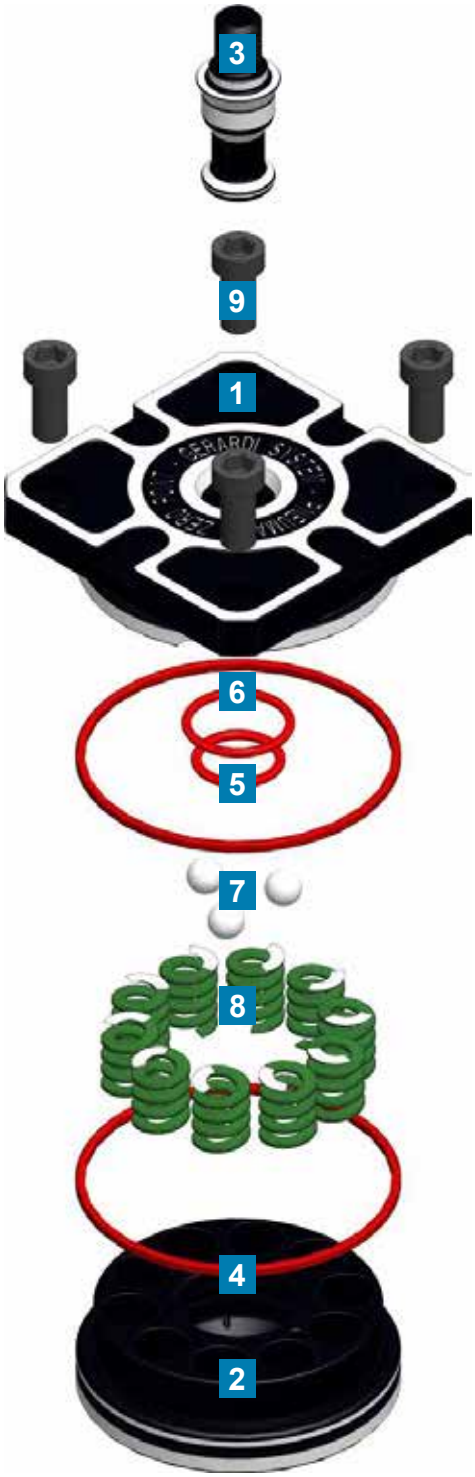
Blocchetto di connessione
con innesto rapido - 1/8" Gas
Connection block
with quick male coupling - 1/8" Gas

Vedi Pag. 9.34 - See Page 9.34



Cod.	9.PN.11000
€	143

PARTI DI RICAMBIO ZERO POINT SINGOLO Art. 665S
SINGLE ZERO POINT SPARE PARTS Art. 665S





1 CORPO Z.P PNEUMATICO

1 PNEUMATIC Z.P BODY



2 PISTONE PNEUMATICO

2 PNEUMATIC PISTON



3 TIRANTE

3 PULL-STUD



4 GUARNIZIONE

4 O-RING



5 GUARNIZIONE

5 O-RING



6 GUARNIZIONE

6 O-RING



7 SFERE DI BLOCCAGGIO

7 CLAMPING SPHERE



8 MOLLE PER STAMPI

8 DIE SPRING



9 VITI TESTA CILINDRICA

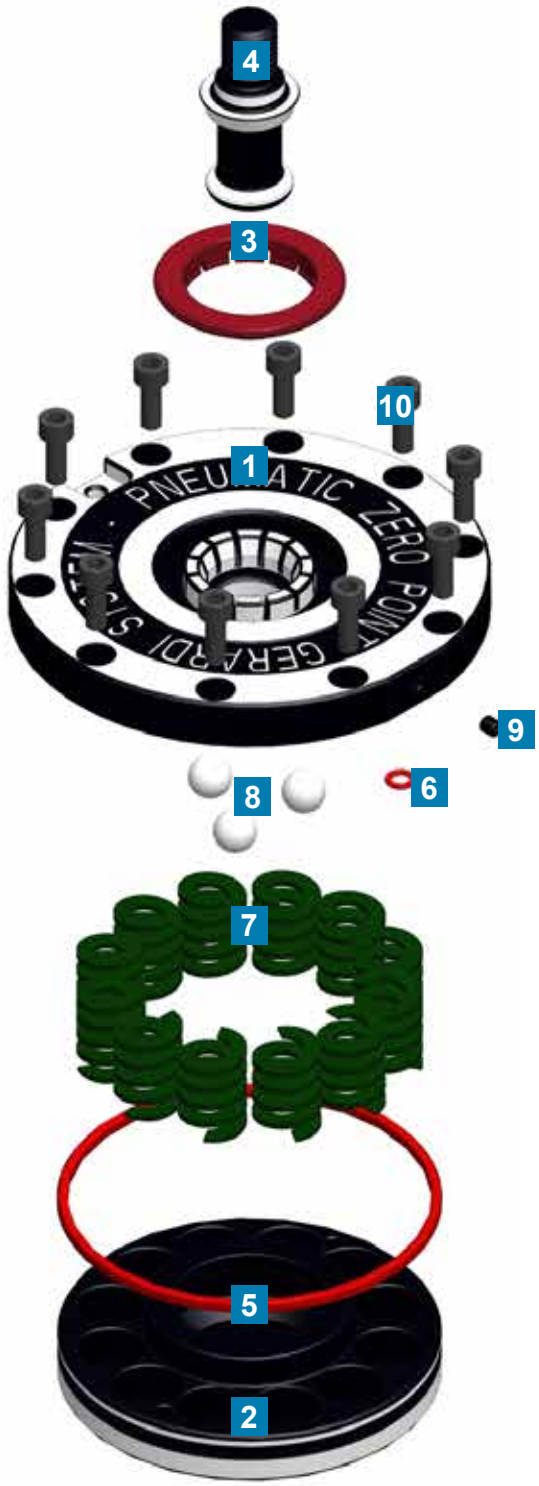
9 SOCKED HEAD SCREWS

Art. 665SK **ZERO POINT KIT S version** *NEW!*



	Type 1	Type 2	Type 3
Cod.	9.66.5SK10	9.66.5SK20	9.66.5SK30
€	45	60	70

PARTI DI RICAMBIO ZERO POINT MULTIPLO Art. 665
MULTIPLE ZERO POINT SPARE PARTS Art. 665





1 CORPO Z.P PNEUMATICO

1 **PNEUMATIC Z.P BODY**



2 PISTONE PNEUMATICO

2 **PNEUMATIC PISTON**



3 TENUTA PULIZIA PINZA

3 **CLEAN COLLET SEAL**



4 TIRANTE

4 **PULL-STUD**



5 GUARNIZIONE

5 **O-RING**



6 GUARNIZIONE

6 **O-RING**



7 MOLLE PER STAMPI

7 **DIE SPRING**



8 SFERE DI BLOCCAGGIO

8 **CLAMPING SPHERE**



9 GRANO

9 SOCKET SET SCREW



10 VITI TESTA CILINDRICA

10 **SOCKED HEAD SCREWS**

Art. 665K **ZERO POINT KIT** *NEW!*



	Type 1	Type 2	Type 3
Cod.	9.66.5K100	9.66.5K200	9.66.5K300
€	45	60	70

ABBATTIMENTO TEMPI DI ALLESTIMENTO MACCHINA
PRODUCTION OPTIMIZATION

La tabella illustra il costo del piazzamento di una macchina.
Il sistema Zero Point vi permette di rimuovere in pochi secondi i lavori sulla macchina e preparare un nuovo lavoro/morsa quando il lavoro precendente è ultimato, **risparmiando quasi il 95% sui tempi di allestimento.**
Ipoteticamente dovendo impiegare 2 ore al giorno a € 40,00 all'ora per attrezzare ogni macchina, attrezzare 5 macchine a CNC vi costa all'incirca € 100.000 in profitti persi ogni anno.
Il sistema Zero Point vi permette di salvare centinaia di ore di "tempi morti" **e avere più profitti**.

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 @ € 40,00 an hour is costing you at least € 100.000 in lost profits every year.
Zero Point will allow you to save hundreds of hours in down time and **make thousands more in profits.**

Costo orario della macchina Machine cost per hour	Tempo giornaliero utilizzato per l'attrezzaggio Time per day machine spent being set up	Costo annuale dei "tempi morti"* Cost per year of down time*	Potenziale profitto extra con gli Zero Point Zero Point potential extra profit
€ 25,00	2 ORE 2 HOURS	- € 12.500 persi lost	- € 11.875 risparmio savings
€ 40,00	2 ORE 2 HOURS	- € 20.000 persi lost	- € 19.000 risparmio savings
€ 60,00	2 ORE 2 HOURS	- € 30.000 persi lost	- € 28.500 risparmio savings
€ 75,00	2 ORE 2 HOURS	- € 37.500 persi lost	- € 35.625 risparmio savings

* Basato su 5 giorni lavorativi, 50 settimane per anno
* Based on a 5 day working week, 50 weeks per year



Spalla porta-pezzo in fusione monoblocco con n°18 unità ZERO POINT Art.665 tipo 2 con morsa FMS autocentrante Art.863 tipo 5x800
Tombstones in solid cast iron with n°18 Zero point units Art.665 type 2 with FMS vise chuck Art.863 type 5x800

OPZIONI DI INCREMENTO FORZA DI SERRAGGIO ZERO-POINT MULTIPLO
INCREASE CLAMPING POWER OPTIONS FOR MULTIPLE ZERO-POINT

Sistema di moltiplicazione di pressione aria aria con rapporto 1:2.
Mediante questo sistema vi è la possibilità di variare il numero e/o la tipologia di molle all' interno dello zero-point per avere una maggiore forza di serraggio *
Set for air overpressure with ratio 1:2.
This set allows the springs variation in type and/or quantity on the zero-point, to obtain a superior clamping strength *

AIR OUTPUT X2

Art. 408



Cod.	9.40.80000
€	743

FORZA DI SERRAGGIO - CLAMPING POWER

Pressione apertura bar Opening pressure bar		Tipo 1 Type1	Type 2 Type 2	Type 3 Type 3
Entrata Input	Uscita Output			
3	6	4,7 kN	9 kN	15 kN
3,5	7	5,4 kN	10 kN	16 kN
4	8	6,2 kN	11 kN	18 kN
5	10	7,7 kN	14 kN	24 kN
6	12	9,3 kN	15 kN	26 kN
7	14	11 kN	18 kN	30 kN

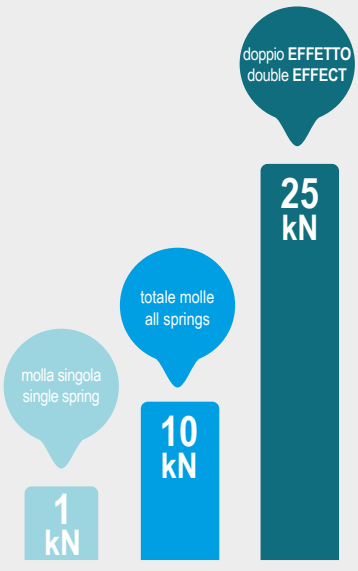
* Richiedere in fase d'ordine - Ask when placing the purchase order

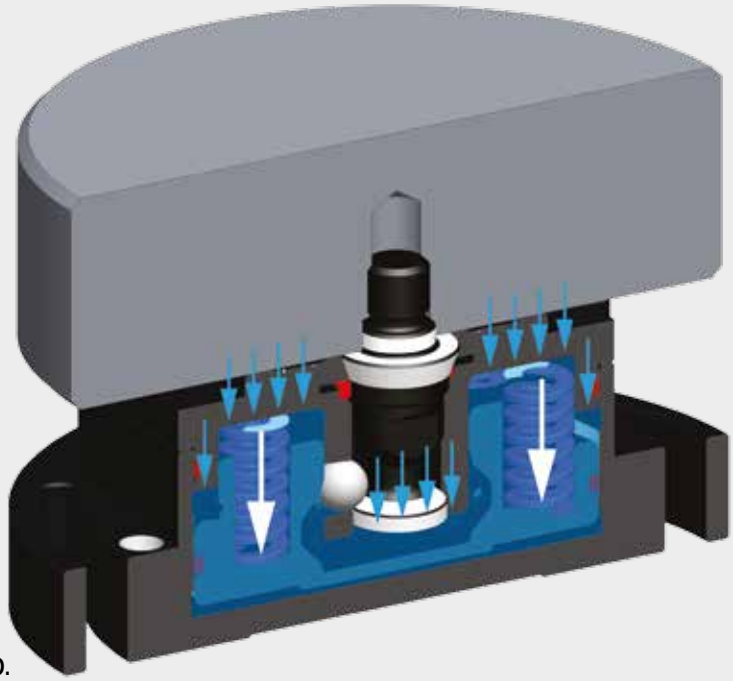
OPZIONI DI INCREMENTO FORZA DI SERRAGGIO ZERO-POINT SINGOLO
SINGLE ZERO-POINT OPTIONS FOR CLAMPING POWER INCREASE

NEW!

La funzione DOPPIO EFFETTO (sempre inclusa) permette di ottenere parametri di serraggio notevolmente superiori rispetto al normale funzionamento. Quando è azionata l' aria compressa aggiunge una forza pneumatica in supporto al normale sistema di serraggio tramite molle.

The DOUBLE EFFECT always included, thanks to the fast mounting with non-return valve, 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.





Comparazione kN tra serraggio standard e sistema **DOPPIO EFFETTO.**
kN comparison between standard clamping and DOUBLE EFFECT.

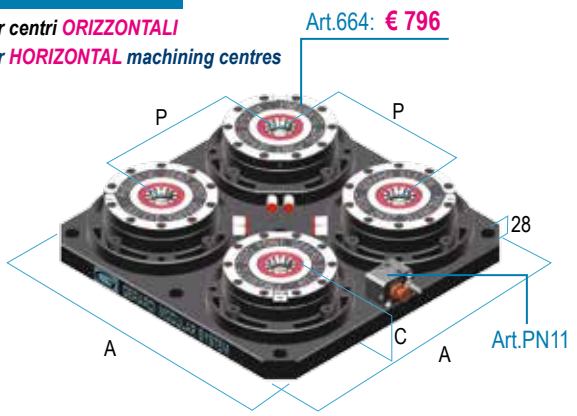
PIASTRE INTERFACCIATE* con ZERO POINT
ZERO POINT INTERFACED* HEAD PLATES

Opzione apertura indipendente Zero Point
Zero point independet control option
SOVRAPREZZO - EXTRA PRICE: ***€ 160***

PIASTRE QUADRATE , MONTAGGIO CON FLANGIA - *SQUARE PLATES , FLANGE MOUNTING*

Art. 70P

Per centri ORIZZONTALI
For HORIZONTAL machining centres

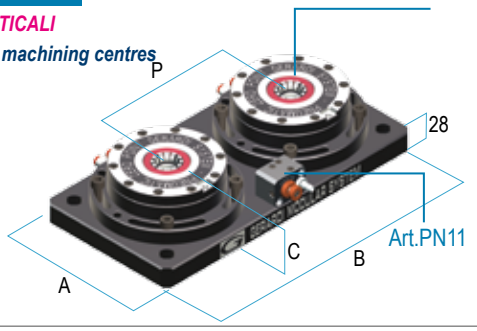


	A	B	C	P	kg	Cod	€
Acciaio Steel	400	400	79	200	59	9.70.P4040S4	**629** + (4) Art 664
Alluminio Aluminum					34	9.70.P4040A4	**818** + (4) Art 664
Acciaio Steel	500	500	79	200 - 250 - 300	78	9.70.P5050S4	**859** + (4) Art 664
Alluminio Aluminum					35	9.70.P5050A4	**1.117** + (4) Art 664
Acciaio Steel	630	630	79	200 - 250 - 300	110	9.70.P6363S4	**1.229** + (4) Art 664
Alluminio Aluminum					46	9.70.P6363A4	**1.598** + (4) Art 664
Acciaio Steel	800	800	79	200 - 300 - 400	163	9.70.P8080S4	**1.841** + (4) Art 664
Alluminio Aluminum					65	9.70.P8080A4	**2.394** + (4) Art 664

PIASTRE RETTANGOLARI , MONTAGGIO CON FLANGIA - *RECTANGULAR PLATES , FLANGE MOUNTING*

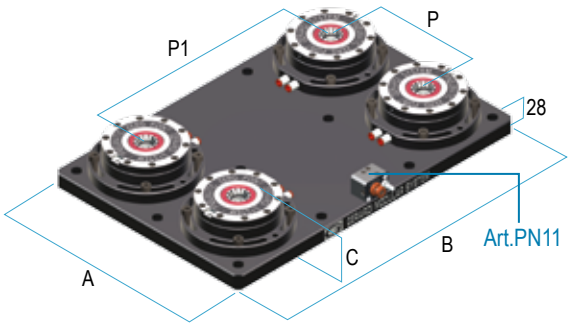
Art. 71P

Per centri VERTICALI
For VERTICAL machining centres



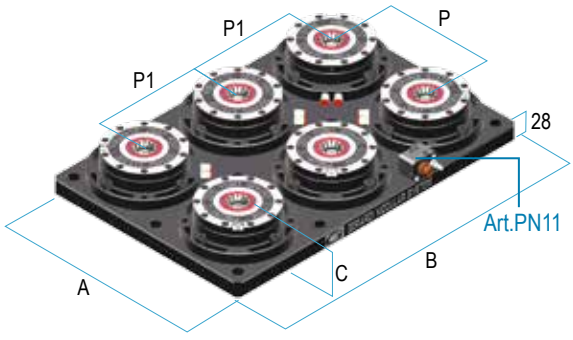
	A	B	C	P	P1	kg	Cod	€
Acciaio Steel	200	400	79	200	-	29	9.71.P2040S2	**319** + (2) Art 664
Alluminio Aluminum						13	9.71.P2040A2	**416** + (2) Art 664
Acciaio Steel	200	500	79	200 250 300	-	33	9.71.P2050S2	**372** + (2) Art 664
Alluminio Aluminum						14	9.71.P2050A2	**486** + (2) Art 664
Acciaio Steel	200	600	79	400	-	38	9.71.P2060S2	**424** + (2) Art 664
Alluminio Aluminum						17	9.71.P2060A2	**552** + (2) Art 664

Per centri VERTICALI
For VERTICAL machining centres



	A	B	C	P	P1	kg	Cod	€
Acciaio Steel	400	500	79	200	300	67	9.71.P4050S4	**731** + (4) Art 664
Alluminio Aluminum						31	9.71.P4050A4	**951** + (4) Art 664
Acciaio Steel	400	600	79	200	400	76	9.71.P4060S4	**835** + (4) Art 664
Alluminio Aluminum						34	9.71.P4060A4	**1.083** + (4) Art 664
Acciaio Steel	400	700	79	200	500	85	9.71.P4070S4	**935** + (4) Art 664
Alluminio Aluminum						37	9.71.P4070A4	**1.216** + (4) Art 664
Acciaio Steel	400	800	79	200	600	94	9.71.P4080S4	**1.037** + (4) Art 664
Alluminio Aluminum						92	9.71.P4080A4	**1.348** + (4) Art 664

Per centri VERTICALI
For VERTICAL machining centres



	A	B	C	P	P1	kg	Cod	€
Acciaio Steel	400	500	79	200	200	79	9.71.P4050S6	**837** + (6) Art 664
Alluminio Aluminum						38	9.71.P4050A6	**1.088** + (6) Art 664
Acciaio Steel	400	600	79	200	200	88	9.71.P4060S6	**939** + (6) Art 664
Alluminio Aluminum						41	9.71.P4060A6	**1.221** + (6) Art 664
Acciaio Steel	400	700	79	200	250	97	9.71.P4070S6	**1.041** + (6) Art 664
Alluminio Aluminum						83	9.71.P4070A6	**1.354** + (6) Art 664
Acciaio Steel	400	800	79	200	300	106	9.71.P4080S6	**1.143** + (6) Art 664
Alluminio Aluminum						47	9.71.P4080A6	**1.486** + (6) Art 664

! **Alluminio** - Anticorodal - ossidazione dura - **Alloy 6082** - Anticorodal - Hard anodizing
(x) = n° Zero Point come da figura - (x) = n° Zero Point pieces shown in the image

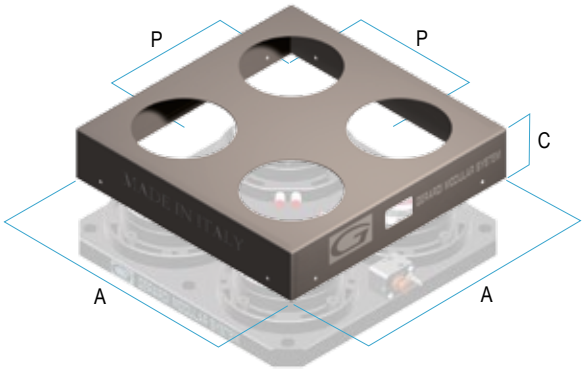
* La personalizzazione comprende 4/8 fori per ancoraggio e 2 riferimenti per posizionamento (chiavette o fori calibrati) vedi pag. 8.4

* The interface includes 4/8 holes for clamping and 2 reference points for positioning (key-ways or ground screws) see pag. 8.4

CARTER in ACCIAIO INOX per PIASTRE INTERFACCIATE con ZERO POINT
STAINLESS STEEL COVER for ZERO POINT INTERFACED HEAD PLATES

CARTER PER PIASTRE QUADRATE - *SQUARE PLATES COVER*

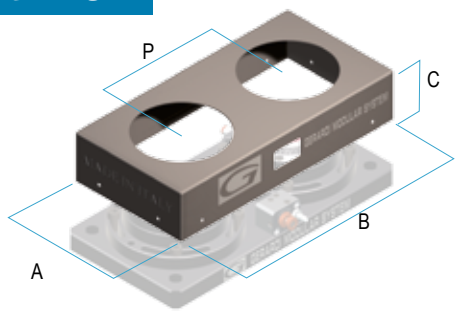
Art. 70CP



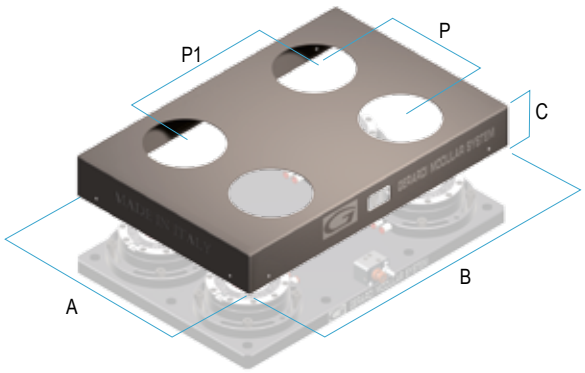
Cod. riferimento Piastra Reference plate code	kg	Cod .Carter Cover code	€
9.70.P4040S4	2,7	9.70.CP40404	100
9.70.P5050S4	4,1	9.70.CP50504	141
9.70.P6363S4	6,4	9.70.CP63634	206
9.70.P8080S4	9,8	9.70.CP80804	307

CARTER PER PIASTRE RETTANGOLARI - *RECTANGULAR PLATES COVER*

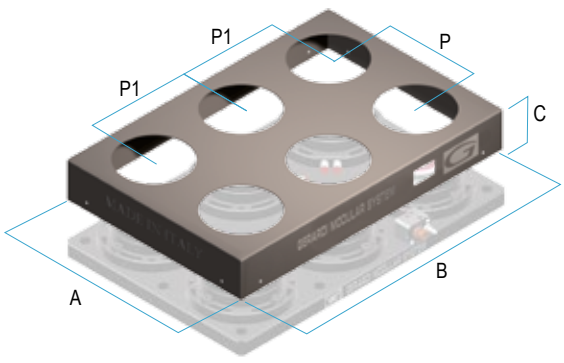
Art. 71CP



Cod. riferimento Piastra Reference plate code	kg	Cod. Carter Cover code	€
9.71.P2040S2	1,7	9.71.CP20402	82
9.71.P2050S2	2,1	9.71.CP20502	99
9.71.P2060S2	2,5	9.71.CP20602	115



9.71.P4050S4	3,3	9.71.CP40504	117
9.71.P4060S4	4	9.71.CP40604	136
9.71.P4070S4	4,6	9.71.CP40704	155
9.71.P4080S4	5,3	9.71.CP40804	174



9.71.P4050S6	3	9.71.CP40506	117
9.71.P4060S6	3,6	9.71.CP40606	136
9.71.P4070S6	4,3	9.71.CP40706	155
9.71.P4080S6	4,9	9.71.CP40806	174

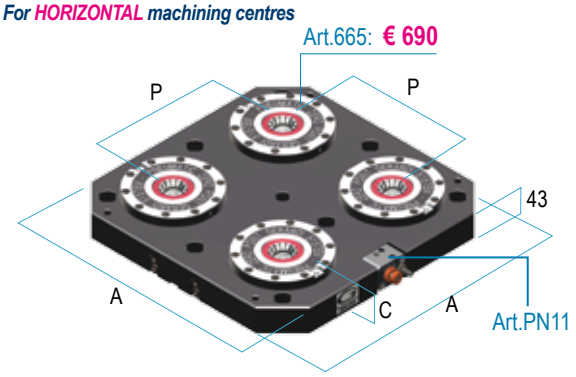
PIASTRE INTERFACCIATE* con ZERO POINT
ZERO POINT INTERFACED* HEAD PLATES

Opzione apertura indipendente Zero Point
Zero point independet control option
SOVRAPREZZO - EXTRA PRICE: € 160

PIASTRA QUADRATA , MONTAGGIO INCASSATO - *SQUARE PLATES , BUILT-IN MOUNTING*

Art. 80P

Per centri ORIZZONTALI
For HORIZONTAL machining centres

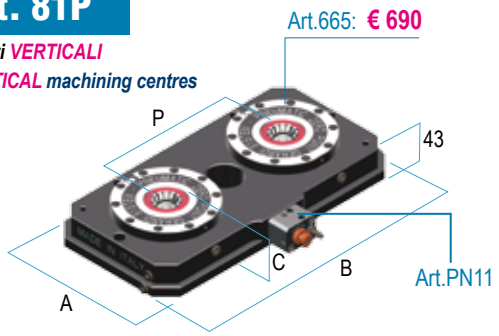


	A	B	C	P	kg	Cod	€
Acciaio Steel	400	400	58	200	60	9.80.P4040S4	1.035 + (4) Art 665
Alluminio Aluminum					29	9.80.P4040A4	1.346 + (4) Art 665
Acciaio Steel	500	500	58	250	91	9.80.P5050S4	1.374 + (4) Art 665
Alluminio Aluminum					44	9.80.P5050A4	1.787 + (4) Art 665
Acciaio Steel	630	630	58	250 - 300	140	9.80.P6363S4	1.926 + (4) Art 665
Alluminio Aluminum					58	9.80.P6363A4	2.504 + (4) Art 665
Acciaio Steel	800	800	58	200 - 300 - 400	220	9.80.P8080S4	2.838 + (4) Art 665
Alluminio Aluminum					87	9.80.P8080A4	3.690 + (4) Art 665

PIASTRE RETTANGOLARI, MONTAGGIO INCASSATO - *RECTANGULAR PLATES , BUILT-IN MOUNTING*

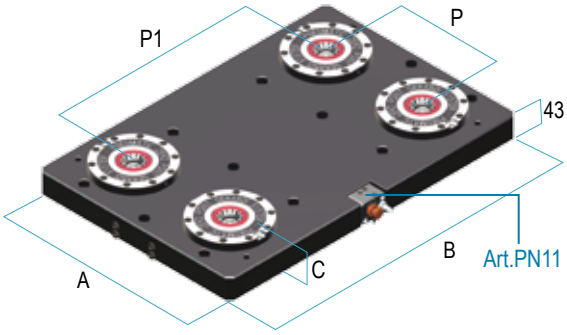
Art. 81P

Per centri VERTICALI
For VERTICAL machining centres



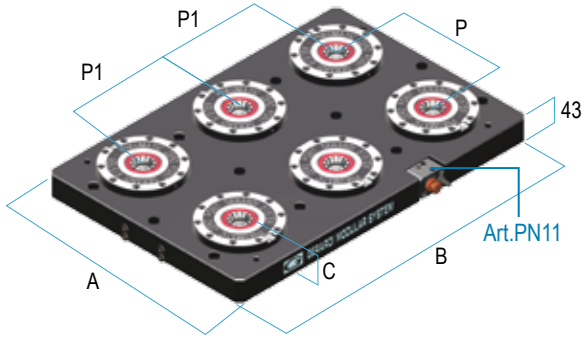
	A	B	C	P	P1	kg	Cod	€
Acciaio Steel	200	400	58	200	-	29	9.81.P2040S2	521 + (2) Art 665
Alluminio Aluminum						15	9.81.P2040A2	735 + (2) Art 665
Acciaio Steel	200	500	58	250	-	35	9.81.P2050S2	598 + (2) Art 665
Alluminio Aluminum						17	9.81.P2050A2	777 + (2) Art 665
Acciaio Steel	200	600	58	300	-	42	9.81.P2060S2	674 + (2) Art 665
Alluminio Aluminum						25	9.81.P2060A2	876 + (2) Art 665

Per centri VERTICALI
For VERTICAL machining centres



	A	B	C	P	P1	kg	Cod	€
Acciaio Steel	400	500	58	200	300	74	9.81.P4050S4	1.186 + (4) Art 665
Alluminio Aluminum						34	9.81.P4050A4	1.543 + (4) Art 665
Acciaio Steel	400	600	58	200	400	87	9.81.P4060S4	1.337 + (4) Art 665
Alluminio Aluminum						39	9.81.P4060A4	1.738 + (4) Art 665
Acciaio Steel	400	700	58	200	500	100	9.81.P4070S4	1.488 + (4) Art 665
Alluminio Aluminum						44	9.81.P4070A4	1.934 + (4) Art 665
Acciaio Steel	400	800	58	200	600	114	9.81.P4080S4	1.638 + (4) Art 665
Alluminio Aluminum						49	9.81.P4080A4	2.130 + (4) Art 665

Per centri VERTICALI
For VERTICAL machining centres



	A	B	C	P	P1	kg	Cod	€
Acciaio Steel	400	500	58	200	150	79	9.81.P4050S6	1.398 + (6) Art 665
Alluminio Aluminum						39	9.81.P4050A6	1.819 + (6) Art 665
Acciaio Steel	400	600	58	200	200	91	9.81.P4060S6	1.489 + (6) Art 665
Alluminio Aluminum						44	9.81.P4060A6	1.936 + (6) Art 665
Acciaio Steel	400	700	58	200	250	105	9.81.P4070S6	1.634 + (6) Art 665
Alluminio Aluminum						49	9.81.P4070A6	2.125 + (6) Art 665
Acciaio Steel	400	800	58	200	300	118	9.81.P4080S6	1.779 + (6) Art 665
Alluminio Aluminum						54	9.81.P4080A6	2.313 + (6) Art 665

! **Alluminio** - Anticorodal - ossidazione dura - **Alloy 6082** - Anticorodal - Hard anodizing
(x) = n° Zero Point come da figura - (x) = n° Zero Point pieces shown in the image

* La personalizzazione comprende 4/8 fori per ancoraggio e 2 riferimenti per posizionamento (chiavette o fori calibrati) vedi pag. 8.4

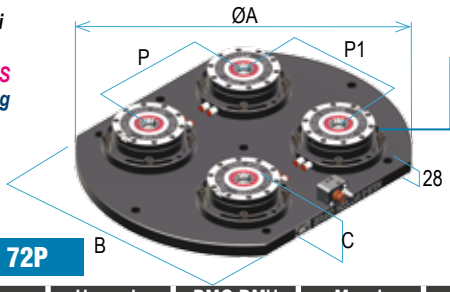
* The interface includes 4/8 holes for clamping and 2 reference points for positioning (key-ways or ground screws) see pag. 8.4

PIASTRE TONDE INTERFACCIATE con ZERO POINT
ZERO POINT INTERFACED ROUNDED HEAD PLATES

Opzione apertura indipendente Zero Point
Zero point independet control option
SOVRAPREZZO - EXTRA PRICE: € 160

MONTAGGIO CON FLANGIA o INCASSATO - *BUILT-IN or FLANGE MOUNTING*

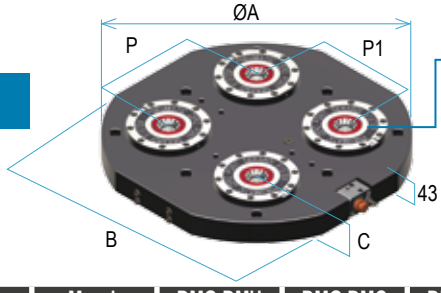
Per centri a 5 ASSI
For 5 AXIS machining centres



Art.664: **€ 796**

Art. 72P

Piastra tonda con Zero Point **Art.664** montaggio con flangia
Rounded plates with Zero Point **Art.664** mounting with flange



Art.665: **€ 690**

Art. 82P

Piastra tonda con Zero Point **Art.665** montaggio incassato
Rounded plates with Zero Point **Art.665** built-in mounting

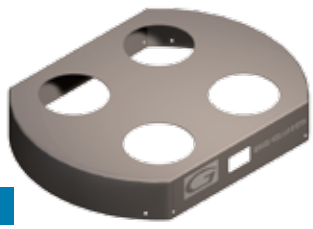
Art. 72P

Dimenioni 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	280		500		500		420		630		630		700		790		1000		900	
B	-		380		400		-		500		500		500		560		560		630	
C	79		79		79		79		79		79		79		79		79		79	
P	-		200		200		200		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 250		200 / 300 / 350		200 / 250	
P1	-		200		200		200		200 / 250 / 300		200 / 250 / 300		200 / 300		200 / 250 / 300		200 / 300 / 400		200 / 300 / 400	
N° Zero Point	1		4		4		4		4		4		4		6		8		6	
kg	19	11	61	37	63	38	65	35	85	46	85	46	94	49	124	68	151	78	149	76
Cod.	9.72.P2828S1	9.72.P2828A1	9.72.P5038S4	9.72.P5038A4	9.72.P5040S4	9.72.P5040A4	9.72.P4242S4	9.72.P4242A4	9.72.P6350S4	9.72.P6350A4	9.72.P6350S4	9.72.P6350A4	9.72.P7050S4	9.72.P7050A4	9.72.P7956S6	9.72.P7956A6	9.72.P1056S8	9.72.P1056A8	9.72.P9063S6	9.72.P9063A6
* €	318	378	835	996	884	1.033	810	942	1.242	1.476	1.242	1.476	1.352	1.611	1.761	2.087	2.249	2.660	2.147	2.563
	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum

Art. 82P

ØA	280		500		500		420		630		630		700		790		1000		900	
B	-		380		400		-		500		500		500		560		560		630	
C	58		58		58		58		58		58		58		58		58		58	
P	150		200 / 250		200 / 250		200		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 250		200 / 250 / 350		200 / 250 / 300	
P1	-		200		200 / 250		200		200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 300 / 400		200 / 300 / 400	
N° Zero Point	2		4		4		4		4		4		4		6		8		6	
kg	30	17	67	29	69	31	56	26	103	43	103	43	116	48	149	63	197	83	188	87
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
	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum	Acciaio Steel	Alluminio Aluminum

CARTER PER PIASTRE TONDE - *ROUNDED PLATES COVER*



Art. 72CP

Carter per piastre tonde con zero point pneumatici
Cover for pneumatic Zero Point interfaced rounded plates



ESEMPIO DI MONTAGGIO
MOUNTING EXAMPLE

kg	1,4	2,7	2,8	2,2	4,4	4,4	5	5,9	7,5	7,6
Cod.	9.72.CP28281	9.72.CP50384	9.72.CP50404	9.72.CP42424	9.72.CP63504	9.72.CP63504	9.72.CP70504	9.72.CP79566	9.72.CP10568	9.72.CP90636
€	46	100	102	85	149	166	166	203	259	251

* **Zero Point non inclusi - Zero Point not included**

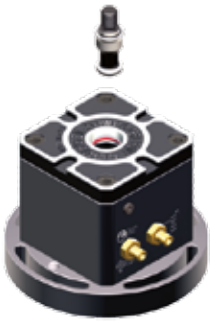
RIALZI per ZERO POINT
RISERS for ZERO POINT

NEW!

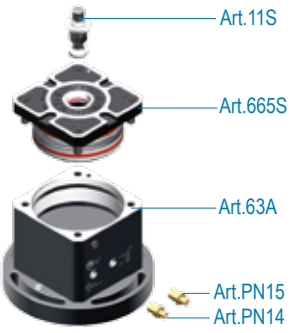
Art. 63

Tipo / Type **1 e 2**

Rialzo singolo con Zero Point Art.665S
Riser with Zero Point Art.665S



Tipo (grandezza) / type (size)	1	2
ØA	138	188
⍁C	90	120
E	100	135
ØF	120	165
G	26	28
H	100	125
H1	88	110
	Acciaio - Steel	Acciaio - Steel
kg	3	8
Cod.	9.63.10000	9.63.20000
€	**523** + *(1) Art 665S*	**966** + *(1) Art 665S*



Dotazione standard - Standard equipment:
- 1 tirante Art.10S / 11S ■ 1 tappo teflon con O-Ring Art.9
- 1 perno di centraggio Art.640P (*Indicare dimensione in fase d'ordine*)
- 1 spina calibrata Art.83
- 1 Pull-stud Art.10S / 11S ■ Teflon cap with O-Ring Art.9
- 1 positioning pin Art.640P (*Dimension to be advised at order*)
- 1 shoulder calibrated screw Art.83

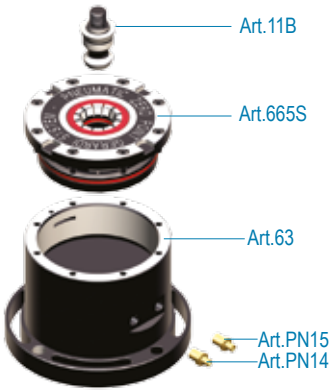
Art. 63

Tipo / Type **3**

Rialzo singolo con Zero Point Art.665S
Single riser with Zero Point Art. 665S



Tipo (grandezza) / type (size)	3
ØA	213
ØC	168
ØF	190
G	26
H	150
H1	135
	Acciaio - Steel
kg	24
Cod.	9.63.30000
€	**1.155** + *(1) Art 665S*



Dotazione standard - Standard equipment:
- 1 tirante Art.10S / 11S ■ 1 tappo teflon con O-Ring Art.9
- 1 perno di centraggio Art.640P (*Indicare dimensione in fase d'ordine*)
- 1 spina di orientamento Art. 79
- 1 Pull-stud Art.10S / 11S ■ Teflon cap with O-Ring Art.9
- 1 positioning pin Art.640P (*Dimension to be advised at order*)
- 1 shoulder calibrated pin Art. 79

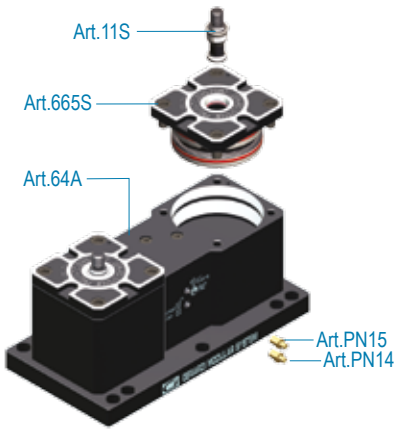
Art. 64

Tipo / Type **1 e 2**

Rialzo doppio con Zero Point Art.665S
Double riser with Zero Point Art.665S



Tipo (grandezza) / type (size)	1	2
A	270	340
B	120	175
C	90	120
D	100	150
E	250	300
F	-	250
G	20	26
H	100	150
H1	88	135
P	150	200
P1	150	200
	Alluminio - Aluminum	Alluminio - Aluminum
kg	7,3	19
Cod.	9.64.10000	9.64.20000
€	**794** + *(2) Art 665S*	**1.537** + *(2) Art 665S*



Dotazione standard - Standard equipment:
- 1 tirante Art.10A / 11A ■ 1 tappo teflon con O-Ring Art.9
- 2 perni di centraggio Art.640P (*Indicare dimensione in fase d'ordine*)
- 1 spina di orientamento Art.79
- 1 Pull-stud Art.10A / 11A ■ Teflon cap with O-Ring Art.9
- 2 positioning pins Art.640P (*Dimension to be advised at order*)
- 1 shoulder calibrated pin Art.79

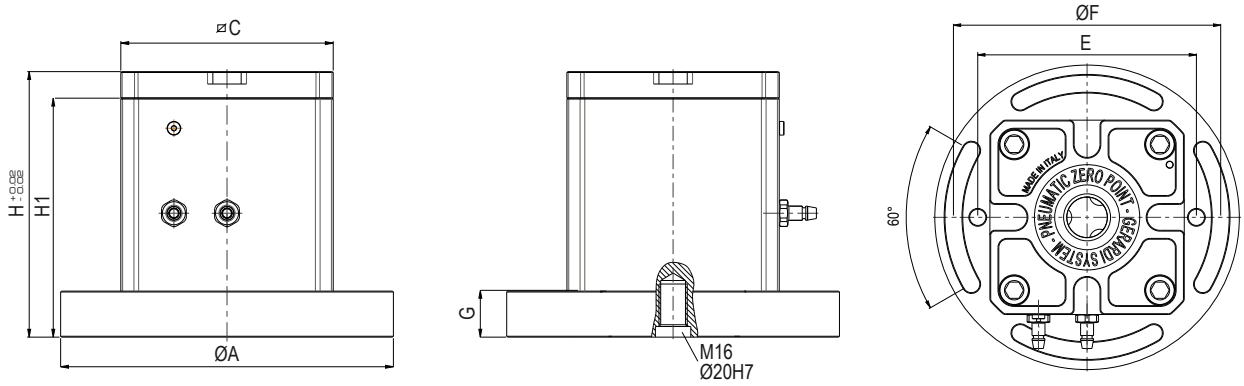
RIALZI per ZERO POINT
RISERS for ZERO POINT

NEW!

Art. 63

Tipo / Type **1 e 2**

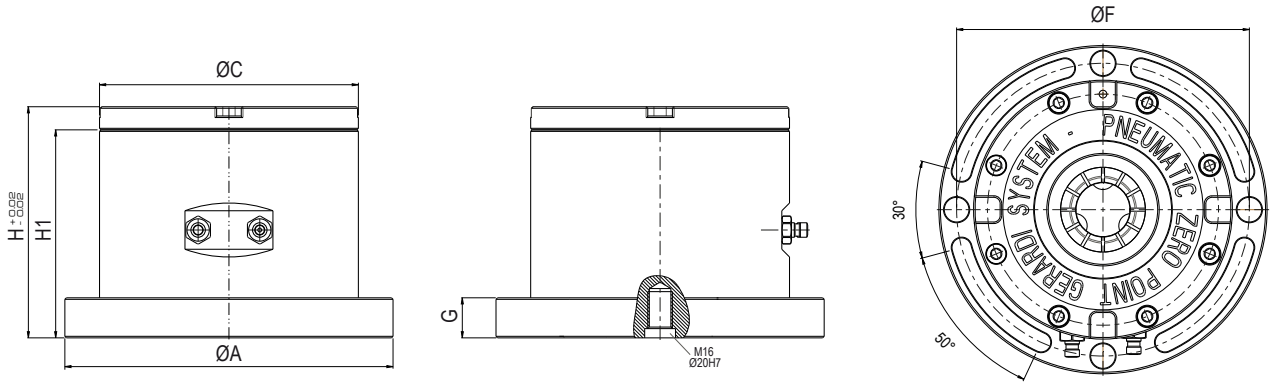
Rialzo singolo con Zero Point Art.665S
Single riser with Zero Point Art.665S



Art. 63

Tipo / Type **3**

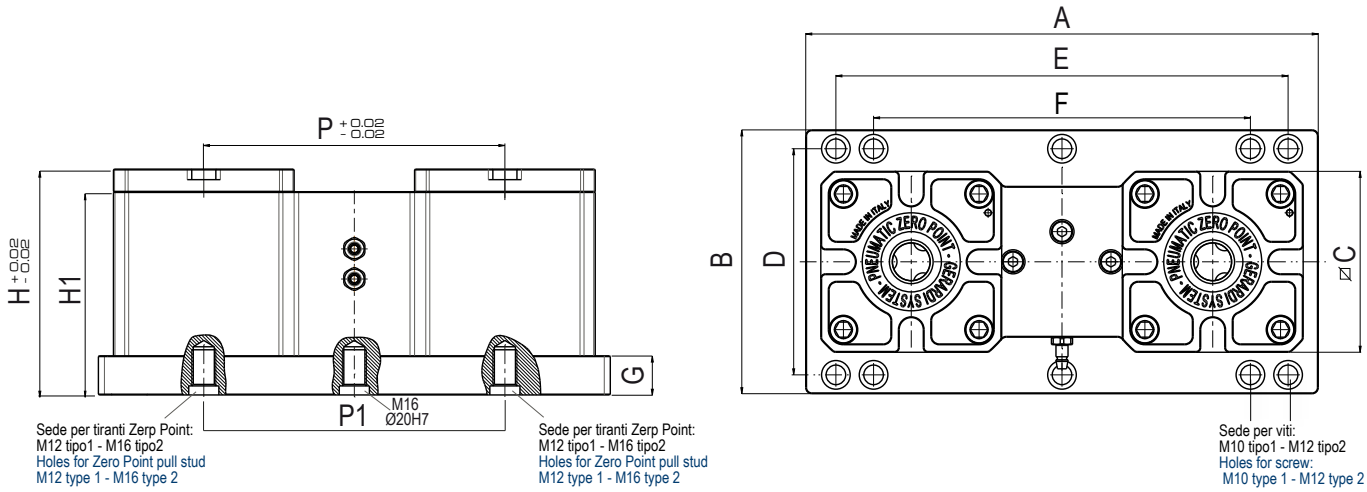
Rialzo singolo Zero Point Art.665S
Single riser with Zero Point Art.665S



Art. 64

Tipo / Type **1 e 2**

Rialzo doppio con Zero Point Art.665
Double riser with Zero Point Art.665



Sede per tiranti Zerp Point:
M12 tipo1 - M16 tipo2
Holes for Zero Point pull stud
M12 type 1 - M16 type 2

Sede per tiranti Zerp Point:
M12 tipo1 - M16 tipo2
Holes for Zero Point pull stud
M12 type 1 - M16 type 2

Sede per viti:
M10 tipo1 - M12 tipo2
Holes for screw:
M10 type 1 - M12 type 2

PORTAPEZZI in GHISA con ZERO POINT
CAST IRON TOMBSTONES with ZERO POINT

Il sistema Zero Point Gerardi è predisposto per essere applicato all' ampia gamma di portapezzi, ampliando così la modularità del sistema Gerardi.
In particolare:

The Gerardi Zero Point system has been designed to be used with the wide range of tombstones increasing in this way the modularity of the Gerardi system.
In particular::

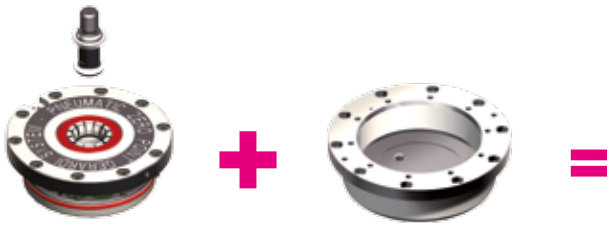
- Zero Point Pneumatico Art.665, montabile su portapezzi tramite l'utilizzo della flangia Art.665F

Art. 665
Montaggio incassato
Built-in mounting

665 T.1	€ 510
665 T.2	€ 690
665 T.3	€ 900

Art. 665F
Flangia - Flange

665F T.1	€ 80
665F T.2	€ 106
665F T.3	€ 150

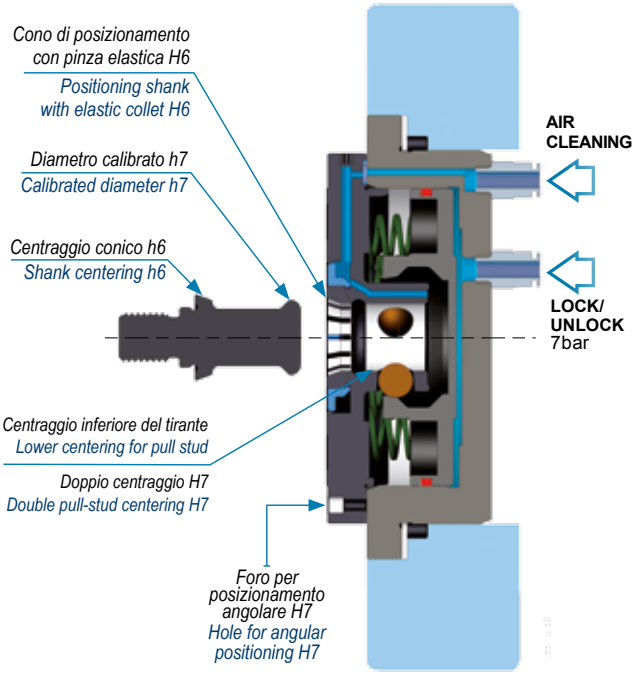


Art. 665X **Montaggio verticale incassato con flangia**
Built-in vertical mounting with flange

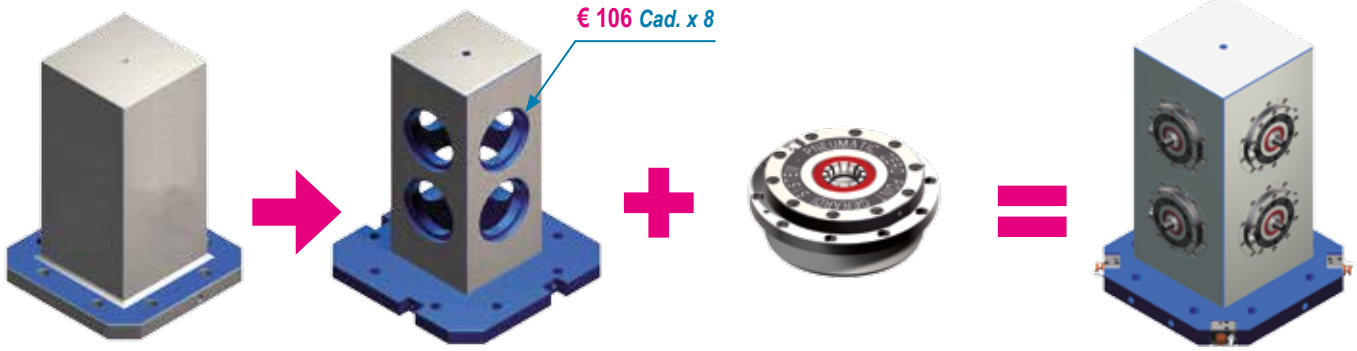


	Type 1	Type 2	Type 3
Kg	3,2	5,8	-
Cod.	9.66.5X100	9.66.5X200	9.66.5X300
€	590	796	1.050

- Pneumatic Zero Point Art.665, can be assembled on tombstones through the Art.665F flange



ESEMPIO: ART.53C CON PREDISPOSIZIONE PER 8 UNITÀ ZERO POINT TIPO 2
EXAMPLE: ART.53C WITH 8 SEATS FOR TYPE 2 ZERO POINT



Art. 53C
Cod. 8.53.C00080
Cubo completamente finito
Cube completely finished
€ 2.196

Art. 53C
Cod. 8.53.C00080
Predisposizioni per 8 Zero Point €106 Cad.
Seats for 8 Zero Point €106 Each
€ 2.196 + € 848

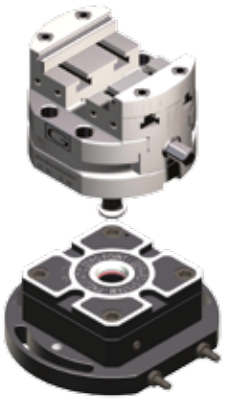
Art. 665X
Cod. 9.66.5X000
8 Zero Point Art.665X € 796 Cad.
8 Zero Point Art.665X € 796 Each
€ 3.044 + € 6.368

Art. 53P
Cod. 9.53.P00080
Cubo con 8 Zero Point pneumatici Art.665X
Cube with 8 pneumatic Zero Point Art.665X
€ 9.412

ESEMPI DI APPLICAZIONI SU ZERO POINT
APPLICATION EXAMPLES with PNEUMATIC ZERO POINT



Zero Point pneumatico singolo Art.664S Tipo1 con morsa Art.650 Tipo 1x160
Single pneumatic Zero Point Art.664S Type1 with vise Art.650 Type 1x160



Zero Point Pneumatico singolo Art.664S Tipo2 con morsa Art.640 Tipo 2
Single pneumatic Zero Point Art.664S Type2 with vise Art.640 Type 2



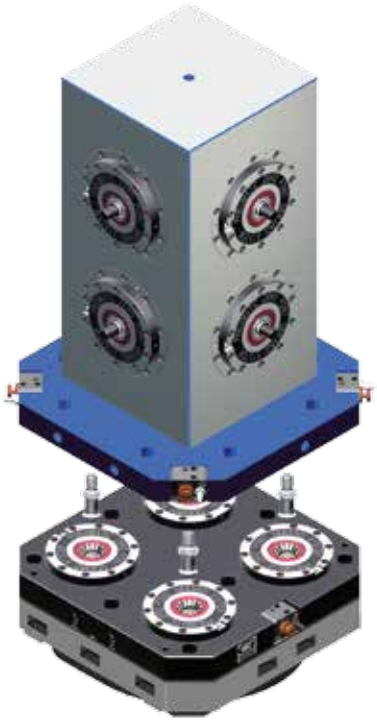
Piastra Zero Point Art.81P
con morsa Art.1 Tipo 3x200
Zero Point plate Art.81P
with vise Art.1 Type 3x200



Piastra Zero Point Art.81P
con morsa Art.600 Tipo 2x500
Zero Point plate Art.81P with
vise Art.600 Type 2x500



Piastra Zero Point Art.81P
con morsa Art.860 Tipo 3x500
Zero Point plate Art.81P
with vise Art.860 Type 3x500



Piastra Zero Point Art.80P con cubo zero point Art.53P
Zero Point plate Art.80P with zero point tombstone Art.53P



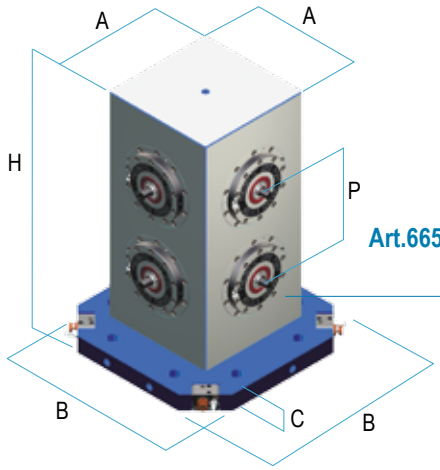
Piastra Zero Point Art.80P con piastra d' interfaccia Art.61i
Zero Point plate Art.80P with base plate Art.61i

PORTAPEZZI IN GHISA con ZERO POINT INCASSATI
CAST IRON TOMBSTONES with BUILT-IN ZERO POINT

Base lavorata e raschiettata per pallet a norme Europee o Giapponesi.
Vedi specifiche a pagina 8.6

Base face machined and hand scraped for direct clamping on European or Japaneese standard pallet.
See specifications pag. 8.6

Art. 53P

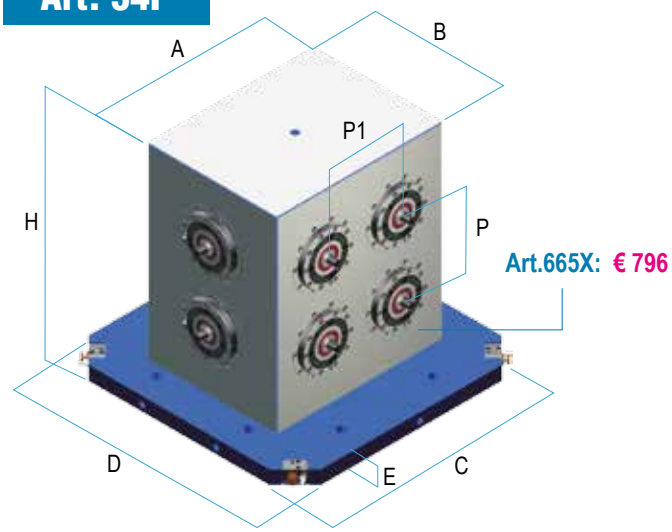


Gestione apertura Zero-Point indipendente per ogni lato.
Zero-Point opened from each sides independently.

Dimensioni *Dimensions*

A	B	C	H	P	kg	Cod.	€
160	250	40	290	-	54	9.53.P 00020	*(0) Art 665X*
200	315	40	300	150	79	9.53.P00030	**1.866** + *(8) Art 665X*
200	350	40	370	150	99	9.53.P00040	**2.111** + *(8) Art 665X*
200	500	40	600	150	179	9.53.P00050	**3.150** + *(8) Art 665X*
250	400	40	450	200	150	9.53.P00060	**2.740** + *(8) Art 665X*
250	450	40	450	200	164	9.53.P00070	**2.917** + *(8) Art 665X*
250	400	40	550	250	174	9.53.P00080	**3.045** + *(8) Art 665X*
250	400	40	660	300	201	9.53.P00081	**3.384** + *(8) Art 665X*
250	500	40	610	250	215	9.53.P00090	**3.585** + *(8) Art 665X*
250	500	40	650	300	225	9.53.P00100	**3.713** + *(8) Art 665X*
250	500	40	750	350	250	9.53.P00105	**4.010** + *(8) Art 665X*
250	630	40	700	300	279	9.53.P00106	**5.166** + *(8) Art 665X*
260	500	45	1000	450	311	9.53.P00107	**4.742** + *(8) Art 665X*
270	400	40	510	200	176	9.53.P00110	**3.066** + *(8) Art 665X*
300	500	40	600	250	247	9.53.P00111	**3.957** + *(8) Art 665X*
300	500	40	750	350	293	9.53.P00113	**4.508** + *(8) Art 665X*
300	500	40	900	400	338	9.53.P00115	**5.060** + *(8) Art 665X*
330	500	40	660	300	288	9.53.P00120	**4.561** + *(8) Art 665X*
350	500	40	410	200	212	9.53.P00140	**3.416** + *(8) Art 665X*
350	500	40	450	200	226	9.53.P00150	**3.691** + *(8) Art 665X*
350	500	40	550	250	263	9.53.P00160	**4.137** + *(8) Art 665X*
350	500	40	610	250	284	9.53.P00170	**4.392** + *(8) Art 665X*
350	500	40	700	300	317	9.53.P00171	**4.795** + *(8) Art 665X*
350	630	40	700	300	359	9.53.P00172	**5.563** + *(8) Art 665X*
350	630	40	820	350	402	9.53.P00180	**5.877** + *(8) Art 665X*
350	630	40	950	450	450	9.53.P00185	**6.461** + *(8) Art 665X*
450	630	40	550	250	367	9.53.P00190	**5.420** + *(8) Art 665X*
450	630	40	650	300	415	9.53.P00200	**6.004** + *(8) Art 665X*
500	630	40	860	400	565	9.53.P00211	**7.797** + *(8) Art 665X*
550	750	40	850	400	656	9.53.P00220	**8.942** + *(8) Art 665X*
500	800	40	800	350	600	9.53.P00230	**8.317** + *(8) Art 665X*

Art. 54P



Gestione apertura Zero-Point indipendente per ogni lato.
Zero-Point opened from each sides independently.

Dimensioni *Dimensions*

A	B	C	D	E	H	P	P1	kg	Cod.	€
300	200	450	300	40	360	160	-	127	9.54.P00010	**2.355** + *(8) Art 665X*
350	250	400	400	40	550	250	160	205	9.54.P00040	**4.083** + *(12) Art 665X*
350	250	500	500	40	750	350	160	292	9.54.P00070	**4.922** + *(12) Art 665X*
300	200	400	400	40	550	250	-	174	9.54.P00080	**3.033** + *(8) Art 665X*
450	350	630	630	40	550	250	200	336	9.54.P00100	**5.484** + *(12) Art 665X*
450	350	630	630	40	650	300	200	340	9.54.P00110	**6.046** + *(12) Art 665X*
550	350	630	630	40	650	300	300	413	9.54.P00120	**6.407** + *(12) Art 665X*

Modelli normalmente presenti a magazzino

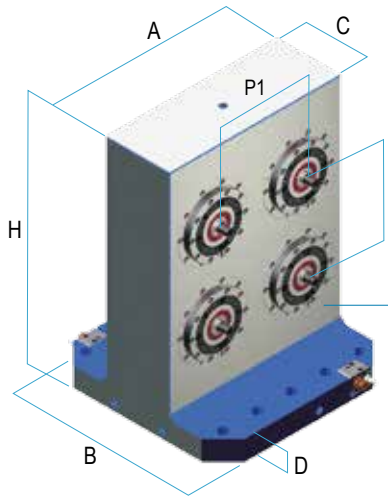
! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica - For different finishing and materials (aluminum), ask for specific quotation
(x) = n° Zero Point come da figura - (x) = n° Zero Point pieces shown in the image

PORTAPEZZI IN GHISA con ZERO POINT INCASSATI
CAST IRON TOMBSTONES with BUILT-IN ZERO POINT

Base lavorata e raschiettata per pallet a norme Europee o Giapponesi.
Vedi specifiche a pagina 8.6

Base face machined and hand scraped for direct clamping on European or Japaneese standard pallet.
See specifications pag. 8.6

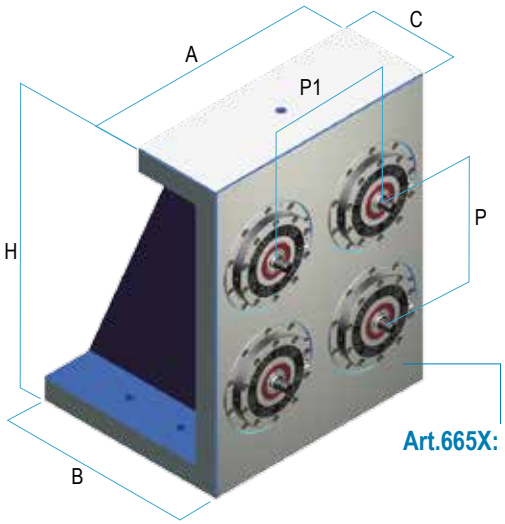
Art. 55P



Art.665X: € 796

Dimensioni *Dimensions*									
A	B	C	D	H	P	P1	kg	Cod.	€
160	200	70	45	225	-	-	24	9.55.P00010	*(0) Art 665X*
350	250	80	50	415	200	180	103	9.55.P00040	**2.164** *+ (8) Art 665X*
400	350	100	50	525	200	200	190	9.55.P00050	**3.194** *+ (8) Art 665X*
400	400	150	50	500	200	200	193	9.55.P00051	**3.129** *+ (8) Art 665X*
400	400	150	45	660	300	200	222	9.55.P00052	**3.628** *+ (8) Art 665X*
500	500	150	45	700	300	250	290	9.55.P00053	**4.561** *+ (8) Art 665X*
500	500	200	50	600	250	250	287	9.55.P00054	**4.455** *+ (8) Art 665X*
500	500	260	40	625	250	250	310	9.55.P00055	**4.670** *+ (8) Art 665X*
450	350	100	50	525	200	200	208	9.55.P00060	**3.406** *+ (8) Art 665X*
450	350	100	50	620	250	200	245	9.55.P00070	**3.852** *+ (8) Art 665X*
550	350	100	60	650	300	250	321	9.55.P00080	**4.753** *+ (8) Art 665X*
500	350	150	50	650	300	250	263	9.55.P00090	**4.106** *+ (8) Art 665X*
450	350	150	50	610	250	200	250	9.55.P00120	**3.915** *+ (8) Art 665X*
450	350	150	50	750	350	200	271	9.55.P00125	**4.201** *+ (8) Art 665X*
550	350	150	60	670	300	250	303	9.55.P00150	**4.583** *+ (8) Art 665X*
550	450	150	50	820	350	250	369	9.55.P00160	**5.410** *+ (8) Art 665X*
630	450	150	50	820	350	300	418	9.55.P00170	**6.005** *+ (8) Art 665X*
630	450	250	60	900	400	300	508	9.55.P00171	**8.066** *+ (8) Art 665X*
630	630	200	50	850	400	300	504	9.55.P00172	**6.911** *+ (8) Art 665X*
630	630	250	50	700	300	300	447	9.55.P00173	**6.376** *+ (8) Art 665X*
350	450	150	60	650	300	180	213	9.55.P00180	**3.501** *+ (8) Art 665X*
800	450	150	60	850	400	400	555	9.55.P00190	**7.734** *+ (8) Art 665X*
800	800	300	50	800	350	400	674	9.55.P00191	**9.144** *+ (8) Art 665X*
800	800	200	50	1000	250	250	-	9.55.P00192	**9.918** *+ (8) Art 665X*

Art. 56P



Art.665X: € 796

Dimensioni *Dimensions*								
A	B	C	H	P	P1	kg	Cod.	€
350	150	40	250	-	160	42	9.56.P00008	**955** *+ (2) Art 665X*
300	220	100	300	-	160	57	9.56.P00009	**1.125** *+ (2) Art 665X*
350	230	100	360	160	160	75	9.56.P00010	**1.347** *+ (4) Art 665X*
400	280	100	400	200	200	100	9.56.P00011	**1.634** *+ (4) Art 665X*
400	330	150	510	250	200	140	9.56.P00030	**2.101** *+ (4) Art 665X*
500	340	150	500	250	250	166	9.56.P00031	**2.419** *+ (4) Art 665X*
450	330	150	460	200	200	142	9.56.P00040	**2.133** *+ (4) Art 665X*
450	330	150	610	300	200	174	9.56.P00050	**2.514** *+ (4) Art 665X*
630	435	150	630	300	300	262	9.56.P00051	**3.554** *+ (4) Art 665X*
500	230	100	360	160	250	101	9.56.P00060	**1.666** *+ (4) Art 665X*
550	430	200	810	400	250	298	9.56.P00080	**3.946** *+ (4) Art 665X*
650	330	150	660	300	300	245	9.56.P00100	**3.353** *+ (4) Art 665X*
200	300	50	700	350	-	90	9.56.P00101	**1.507** *+ (2) Art 665X*
800	330	150	560	250	400	266	9.56.P00110	**3.628** *+ (4) Art 665X*
800	525	200	800	400	400	452	9.56.P00111	**5.633** *+ n°4 Art 665X*
800	430	200	800	400	400	402	9.56.P00120	**5.198** *+ n°4 Art 665X*

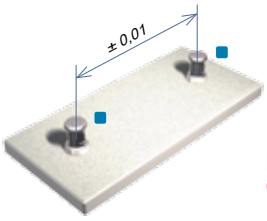
Available usually immediately

! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica - For different finishing and materials (aluminum), ask for specific quotation

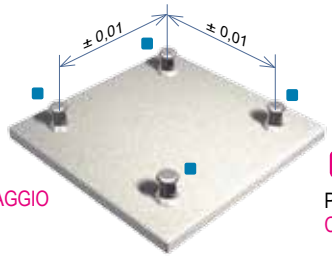
(x) = n° Zero Point come da figura - (x) = n° Zero Point pieces shown in the image

TIRANTI TIPO 1
PULL-STUD TYPE 1

Il fissaggio ed il posizionamento delle attrezzature, o del particolare da lavorare, si effettua tramite i tiranti **Art.10** e **Art.11**
The clamping and the positioning of the fixtures, or directly the workpiece, is done through pull-studs **Art.10** and **Art.11**



A
PERNO TIRANTE DI CENTRAGGIO
CENTERING PULL-STUD



B
PERNO TIRANTE.
CLAMPING PULL-STUD

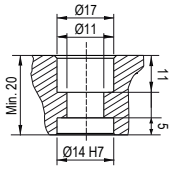


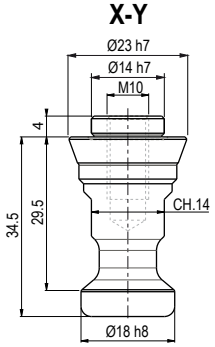
Il tipo **"A"** si utilizza per il centraggio e il serraggio, mentre il tipo **"B"** solo per il serraggio
Type **"A"** is used for both centering and clamping, while type **"B"** is only for clamping

Art. 10A

Perno tirante di centraggio. Filetto femmina
Centering pull-stud. Female thread







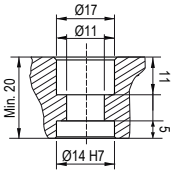
Alloggiamento tirante
Pull-stud seat

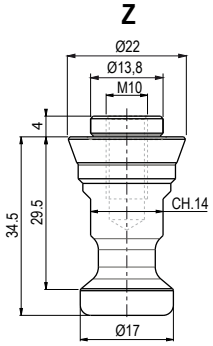
Cod.	9.10.A1000
€	33

Art. 10B

Perno tirante. Filetto femmina
Clamping pull-stud. Female thread







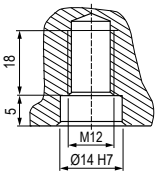
Alloggiamento tirante
Pull-stud seat

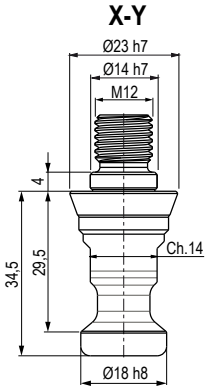
Cod.	9.10.B1000
€	33

Art. 11A

Perno tirante di centraggio. Filetto maschio
Centering pull-stud. Male thread







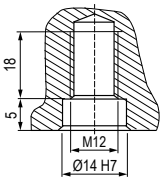
Alloggiamento tirante
Pull-stud seat

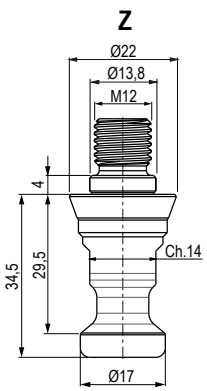
Cod.	9.11.A1000
€	33

Art. 11B

Perno tirante. Filetto maschio
Clamping pull-stud. Male thread





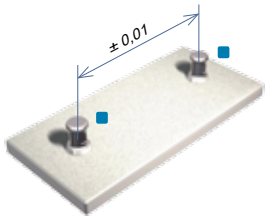


Alloggiamento tirante
Pull-stud seat

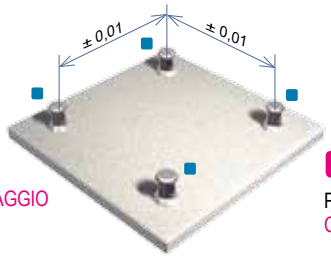
Cod.	9.11.B1000
€	33

TIRANTI TIPO 2
PULL-STUD TYPE 2

Il fissaggio ed il posizionamento delle attrezzature, o del particolare da lavorare, si effettua tramite i tiranti **Art.10** e **Art.11**
The clamping and the positioning of the fixtures, or directly the workpiece, is done through pull-studs **Art.10** and **Art.11**



A
PERNO TIRANTE DI CENTRAGGIO
CENTERING PULL-STUD



B
PERNO TIRANTE.
CLAMPING PULL-STUD



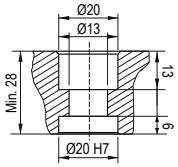
Il tipo **"A"** si utilizza per il centraggio e il serraggio, mentre il tipo **"B"** solo per il serraggio
Type **"A"** is used for both centering and clamping, while type **"B"** is only for clamping

Art. 10A

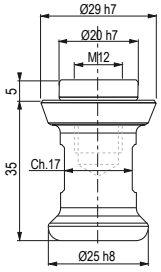
Perno tirante di centraggio. Filetto femmina
Centering pull-stud. Female thread



Alloggiamento tirante
Pull-stud seat



X-Y



Disponibile con sede TIPO 1 (Ø14h7 / M10)
Available with TYPE 1 hole (Ø14h7 / M10)

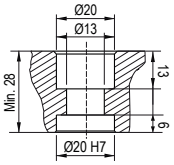
Cod.	9.10.A2000
€	33

Art. 10B

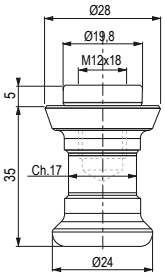
Perno tirante. Filetto femmina
Clamping pull-stud. Female thread



Alloggiamento tirante
Pull-stud seat



Z



Cod.	9.10.B2000
€	33

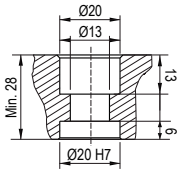
ZERO POINT SINGOLO TIPO 2
SINGLE ZERO POINT TYPE 2

Art. 10S

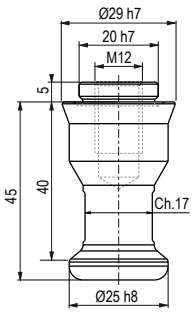
Perno tirante di centraggio per Zero Point **singolo**. Filetto femmina
Centering pull-stud for **single** Zero Point. Female thread



Alloggiamento tirante
Pull-stud seat



X-Y



Disponibile con sede TIPO 1 (Ø14h7 / M10)
Available with TYPE 1 hole (Ø14h7 / M10)

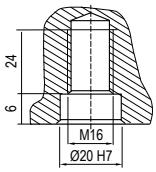
Cod.	9.10.S2000
€	33

Art. 11A

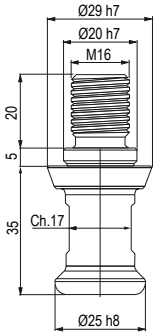
Perno tirante di centraggio. Filetto maschio
Centering pull-stud. Male thread



Alloggiamento tirante
Pull-stud seat



X-Y



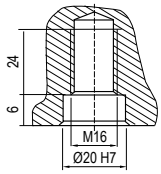
Cod.	9.11.A2000
€	33

Art. 11B

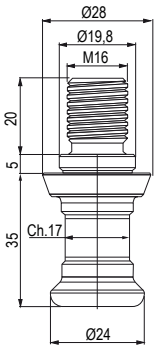
Perno tirante. Filetto maschio
Clamping pull-stud. Male thread



Alloggiamento tirante
Pull-stud seat



Z



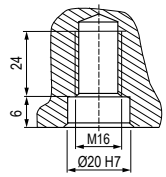
Cod.	9.11.B2000
€	33

Art. 11S

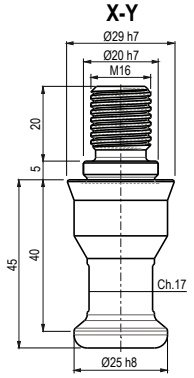
Perno tirante di centraggio per Zero Point **singolo**. Filetto maschio
Centering pull-stud for **single** Zero Point. Male thread



Alloggiamento tirante
Pull-stud seat



X-Y

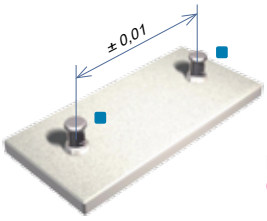


Cod.	9.11.S2000
€	33

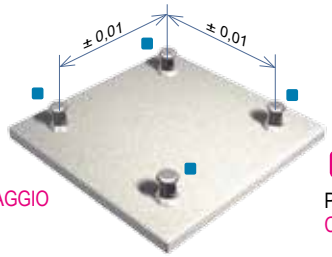
TIRANTI TIPO 3
PULL-STUD TYPE 3

NEW!

Il fissaggio ed il posizionamento delle attrezzature, o del particolare da lavorare, si effettua tramite i tiranti **Art.10** e **Art.11**
The clamping and the positioning of the fixtures, or directly the workpiece, is done through pull-studs **Art.10** and **Art.11**



A
PERNO TIRANTE DI CENTRAGGIO
CENTERING PULL-STUD



B
PERNO TIRANTE.
CLAMPING PULL-STUD

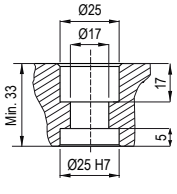


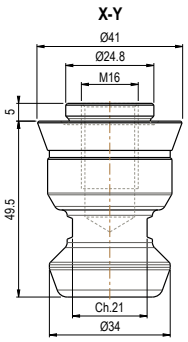
Il tipo **"A"** si utilizza per il centraggio e il serraggio, mentre il tipo **"B"** solo per il serraggio
Type **"A"** is used for both centering and clamping, while type **"B"** is only for clamping

Art. 10A

Perno tirante di centraggio. Filetto femmina
Centering pull-stud. Female thread







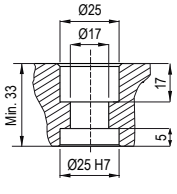
Alloggiamento tirante
Pull-stud seat

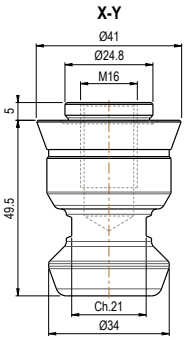
Cod.	9.10.A3000
€	55

Art. 10B

Perno tirante. Filetto femmina
Pull-stud. Female thread







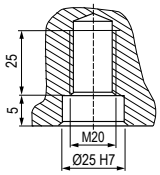
Alloggiamento tirante
Pull-stud seat

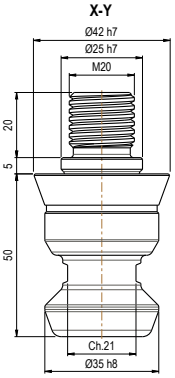
Cod.	9.10.B3000
€	55

Art. 11A

Perno tirante di centraggio. Filetto maschio
Centering pull-stud. Male thread







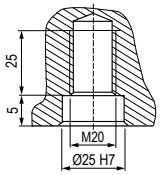
Alloggiamento tirante
Pull-stud seat

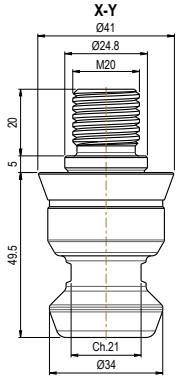
Cod.	9.11.A3000
€	55

Art. 11B

Perno tirante. Filetto maschio
Pull-stud. Male thread







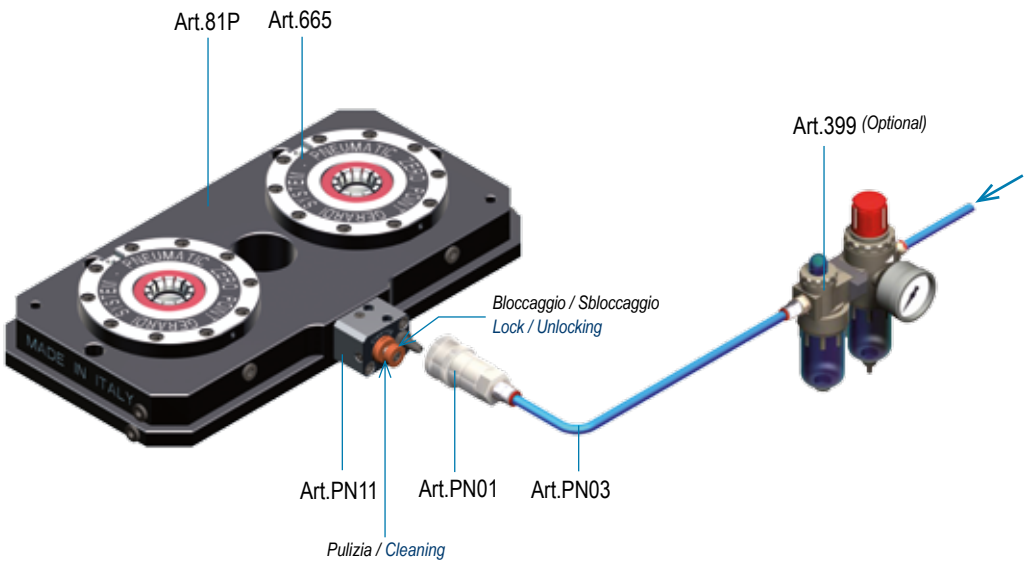
Alloggiamento tirante
Pull-stud seat

Cod.	9.11.B3000
€	55

KIT COMPLETO per AZIONAMENTO PIASTRA (O CUBO) con ZERO POINT
COMPLETE KIT for ZERO POINT PLATE (OR CUBE) CONTROL

Art. 409

Cod.	9.40.90000
€	170



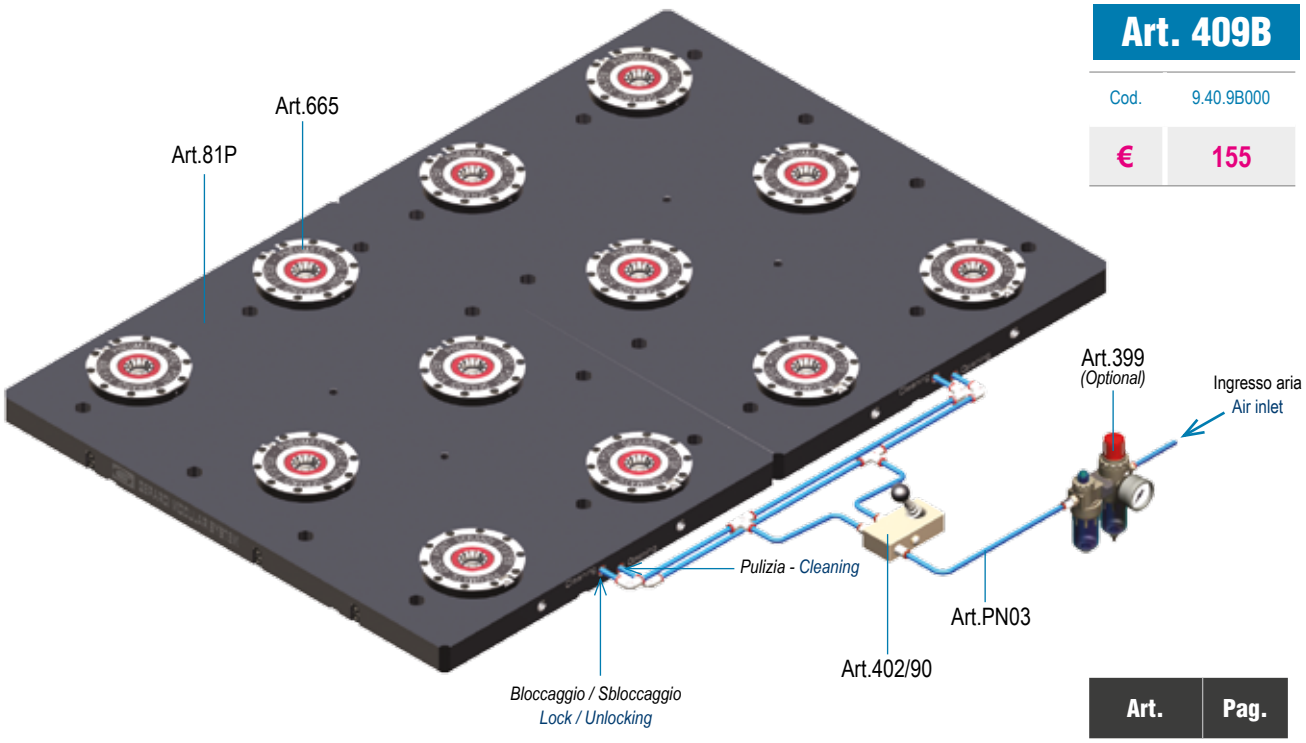
Art.	Pag.
PN01	9.34
PN03	9.34
PN11	9.34

Art. 399 - Opzionale - Optional (Pag 9.35)

KIT COMPLETO per AZIONAMENTO più PIASTRE (O CUBI) con ZERO POINT
COMPLETE KIT for MULTIPLE ZERO POINT PLATES (OR CUBES) CONTROL

Art. 409B

Cod.	9.40.9B000
€	155



Art.	Pag.
PN03	9.34
402/90	9.35

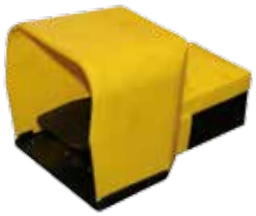
- Attacco rapido Art.PN01 a richiesta (o da ordinare con Art.PN02)
- Quick connection Art.PN01 on request (to be ordered with Art.PN02)

Art. 399 - Opzionale - Optional (Pag 9.35)

ACCESSORI e RACCORDI per ZERO POINT PNEUMATICI
ACCESSORIES and CONNECTIONS FOR PNEUMATIC ZERO POINT

		Cod	€
Art. PN01 Attacco rapido femmina Female connection		9.PN.01000	30
Art. PN02 Innesto rapido maschio - 1/8" Gas Quick male coupling - 1/8" Gas		9.PN.02000	9
Art. PN03 Tubo pneumatico aria Ø8 Pneumatic air pipe Ø8		9.PN.03000	6
Art. PN04 Raccordo diritto cilindrico maschio Ø8 - 1/8" Gas Straight male adaptor Ø8 - 1/8" Gas		9.PN.04000	4
Art. PN05 Tappo 1/8" Gas Cap 1/8" Gas		9.PN.05000	1
Art. PN06 Raccordo a "L" maschio cilindrico girevole Ø8 - 1/8" Gas "L" rotary male adaptor parallel Ø8 - 1/8" Gas		9.PN.06000	5
Art. PN07 Raccordo a "T" centrale maschio cilindrico girevole Ø8 - 1/8" Gas "T" rotary parallel adaptor Ø8 - 1/8" Gas		9.PN.07000	7
Art. PN08 Riduzione Ø8 Reducer Ø8		9.PN.08000	6
Art. PN09 Tappo Ø8 Cap Ø8		9.PN.09000	1
Art. PN10 Blocchetto di connessione con innesto rapido - 1/8" Gas Connection block with quick male coupling - 1/8" Gas		9.PN.10000	82
Art. PN11 Blocchetto di connessione con innesto rapido - 1/8" Gas Connection block with quick male coupling - 1/8" Gas		9.PN.11000	143
Art. PN13 *NEW!* Attacco rapido femmina per versioni con doppio effetto Female connection for double effect version		9.PN.13000	43
Art. PN14 *NEW!* Innesto rapido maschio - 1/4" Gas per versioni con doppio effetto Quick male coupling - 1/4" Gas for double effect version		9.PN.14000	8
Art. PN15 *NEW!* Innesto rapido valvolato maschio - 1/4" Gas per versioni con doppio effetto Quick male valved coupling - 1/4" Gas for double effect version		9.PN.15000	37

ACCESSORI E RACCORDI PER ZERO POINT
ACCESSORIES AND CONNECTIONS FOR ZERO POINT

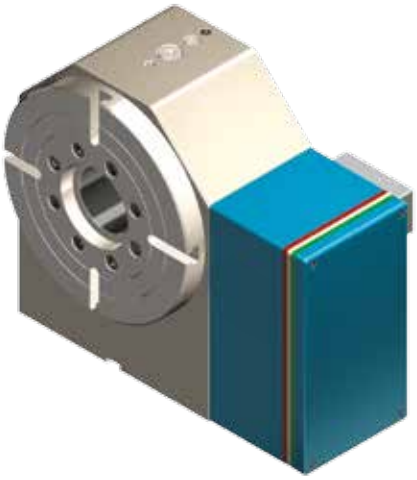
		Cod	€
Art. 9 Tappo teflon con O-Ring Teflon Cap with O-Ring		9.09.10000	11
Art. 399 Gruppo filtro riduttore più lubrificatore Compressed air preparation unit		4.39.90000	152
Art. 400 Pedale bistabile Two position foot pedal		4.40.00000	170
Art. 402 Valvola pneumatica frontale, 2 vie Frontal pneumatic valve, 2 ways		4.40.20000	79
Art. 402/90 Distributore leva angolare a 90°, 3 vie 90° angular valve, 3 ways		9.40.29000	172
Art. 408 Moltiplicatore di pressione aria. Completo di manometro e valvola. Il sistema deve utilizzare aria essiccata e lubrificata (Art.399 opzionale) Pressure air multiplier. Complete of pressure gauge and valve. The sytem should be used with dry and lubricated air (option Art.399)		9.40.80000	743

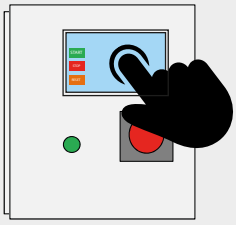
DIVISORE AUTOMATICO DPG 250
AUTOMATIC DIVIDING HEAD DPG 250

NEW!

Divisore automatico
Automatic dividing head

DPG 250





PROGRAMMAZIONE **TOUCH SCREEN**
FACILE ED INTUITIVA O TRAMITE COLLEGAMENTO DIRETTO AL CNC

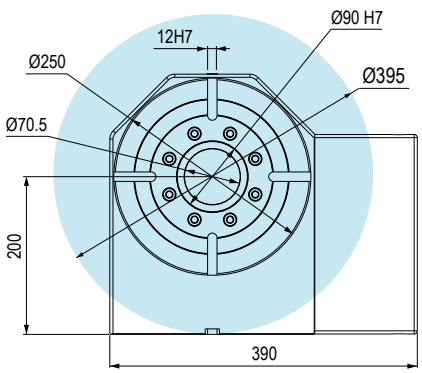
EASY AND INTUITIVE **TOUCH SCREEN**
PROGRAMMING OR THROUGH DIRECT CONNECTION TO THE CNC

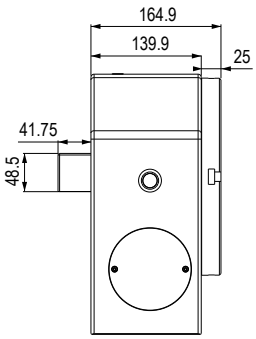
- Installazione semplice (alimentazione 220V)
- Corona in bronzo speciale
- Controsupporto semplice
- Vite senza fine in acciaio temprato e rettificato
- Vite e corona in bagno d'olio
- Cuscinetti a vite precaricati
- Cuscinetto anteriore a rulli incrociati sovradimensionato
- Recupero gioco con avvicinamento assiale
- Completa tenuta stagna ai liquidi con possibilità di pressurizzazione
- Possibilità di montare motori di tutte le marche
- Dimensioni esterne contenute
- Finestra di controlli liquidi e condensa
- Lavorazione in posizionamento a 360°

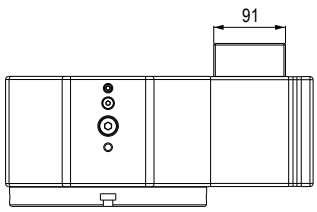
- Easy installation (220V)
- Special bronze crown
- Simple tailstock
- Worm screw in hardened ground steel
- Bath lubrication Screw and Crown
- Pre-loaded screw bearings
- Over-dimensioned crossed-roller front bearing
- Play recover with axial approach
- Watertight seal with possibility of pressurization
- Possibility to mount motors of all brands
- Reduced external dimensions
- Condensation and liquid control window
- 360° work positioning

DATI TECNICI TECHNICAL DATA		
Diametro del divisore Dividing head diameter		250 mm
Diametro del foro passante Clearance hole diameter		70,5 mm
Altezza punte Center height		200 mm
Dimensione della scanalatura a T T-Slot width		12 mm
Sistema di bloccaggio Clamping system		Idraulico Hydraulic
Forza frenante Clamping torque		3000 Nm
Motore Servo motor		3000 Max.g/min
Minimo incremento Minimum increment		0,002
Velocità di rotazione Rotation speed		33,3 Giri/min
Rapporti vite/corona Speed reduction ratio (screw/gear)		1/90
Rapporti vite/motore Speed reduction ratio (screw/motor)		1/180
Precisione Indexing accuracy		±10 Sec.
Ripetibilità Repeatability		4 Sec.
Max. carico di lavoro sul divisore Max. allowable work weight on the dividing head	Verticale Vertical	Kg.550
	Orizzontale Horizontal	Kg.1500
Max. carico di spinta applicabile sul divisore Max. allowable tool load on the dividing head		N 25000
		FxL Nm 1000
		FxL Nm 2200
Rapporti vite/corona Speed reduction ratio (screw/gear)	Verticale Vertical	10,5 Kg. m²
Coppia in lavoro Driving torque	Corona dentata Worm gear	698 Nm
Kg		110
Cod.		8.DP.G2500
€		18.900

DPG 250

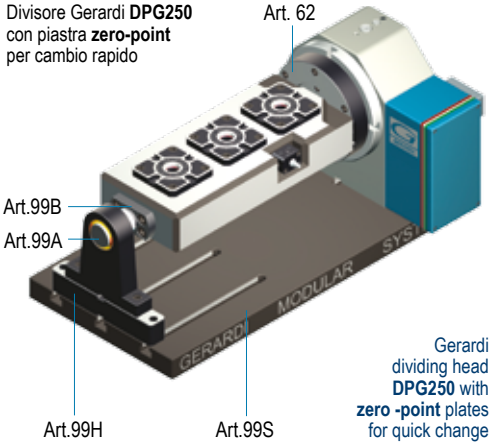




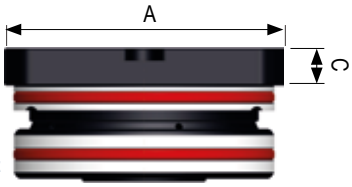


Tipo (grandezza) morsa / Vise (type) size		1	2
Pressione Apertura / Open pressure	BAR	7	7
	A	90	120 / Ø138
	C	12	15
	Forma Shape	□	○
	Cod.	8.66.5S100	8.66.52000
	€	510	690

Divisore Gerardi **DPG250** con piastra **zero-point** per cambio rapido



Gerardi dividing head **DPG250** with **zero -point** plates for quick change



Chiavette o fori calibrati su richiesta
Keyways or calibrated holes on request

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI ! - UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 99A

Supporto
Support



Cod.	7.99.A1000
€	600

Art. 99B

Perno di centraggio orizzontale
Horizontal centering pin



Cod.	7.99.B1000
€	430

Art. 99H

Distanziale
Spacer



Cod.	7.99.H1000
€	100

Art. 62

DPG 250

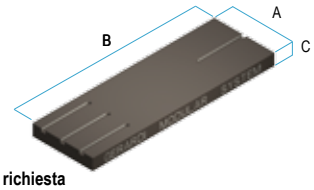
Piastra di interfaccia DPG 250 per Zero Point
DPG 250 connecting plate for Zero Point



Cod.	9.62.804A05
€	500

Art. 99S

Piastra base con cave
Piani rettificati
Base plate with slot
Faces ground



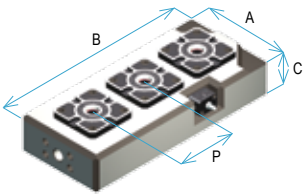
Cave o fori calibrati su richiesta
Slot or ground holes on request

Dimensioni B mm / Dimension B mm	A	C	Kg	Cod.	€
900	400	50	141	7.99.S090S	2.050
1100	400	50	172	7.99.S110S	2.200
1300	400	50	-	7.99.S130S	2.400

Disponibili quote "**B**" a step di 50mm - Available dimension "**B**" in steps of 50mm

Art. 99R

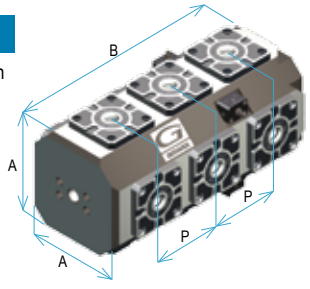
Piastra con Zero-Point incassati
Plate with built-in Zero-Point



Dimensioni B mm / Dimension B mm	A	C	P	Kg	Cod.	€
600	220	100	200	103	9.99.R0656	2.200 + (6) Art. 665
800	220	100	200	138	9.99.R0856	2.650 + (6) Art. 665
1000	220	100	200	172	9.99.R1056	3.150 + (6) Art. 665

Art. 99Q

Cubo portapezzi con Zero-Point incassati
Tombstones with built-in Zero-Point



Dimensioni B mm / Dimension B mm	A	P	Kg	Cod.	€
600	220	200	227	9.99.Q6512	4.550 + (12) Art. 665
800	220	200	303	9.99.Q8512	5.550 + (12) Art. 665
1000	220	200	378	9.99.Q1512	6.550 + (12) Art. 665

Per soluzioni alternative a quelle standard contattare il nostro ufficio tecnico
For alternative solutions please contact our technical department

Art. 99A
Supporto cubo portapezzi
Tombstone support



Cod.	5.99.A2000
€	900

Art. 99H
Distanziale maggiorato
Bigger spacer



Cod.	5.99.H2000
€	200

DIVISORE MECCANICO DIVIGER 205
MECHANICAL DIVIDING HEAD DIVIGER 205

NEW!

Divisore meccanico
Mechanical dividing head

DIVIGER 205



DATI TECNICI TECHNICAL DATA	
Diametro del divisore Dividing head diameter	220 mm
Diametro del foro passante Clearance hole diameter	85 mm
Altezza centrale Center height	200 mm
Dimensione della scanalatura a T T-Slot width	-
Sistema di bloccaggio Clamping system	Meccanico Mechanical
Minimo incremento Minimum increment	1°
Precisione Indexing accuracy	±10 Sec.
Coppia in lavoro Driving torque	3000 Nm
Kg	93
Cod.	7.66.73000
€	10.950

DIVISORE MECCANICO, SENZA CAVI O IDRAULICA, PERMACCHINE A CNC

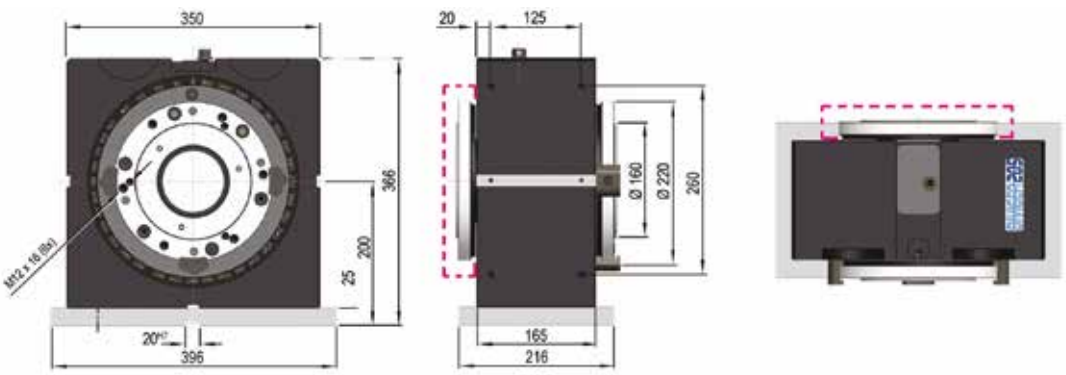
MECHANICAL DIVIDING HEAD, WITHOUT ELECTRICAL CABLES OR HYDRAULIC, FOR CNC MILLING MACHINE

- Maggiore efficienza nella lavorazione su più lati
- Completamente autonomo dalla macchina
- Elevato momento torcente
- Divisione manuale o automatica tramite mandrino macchina
- 360 posizioni
- Serraggio simultaneo di due particolari grazie alla doppia flangia
- lavorazione su 5 facce senza contropunta
- Lavorazione a barra grazie al mandrino cavo
- Utilizzabile orizzontalmente o verticalmente
- Cambio tramite serraggio a cuneo

- Cost-effective on multiple-sides machining
- Machine independent
- High holding torque
- Dividing manually or automatically using the machine spindle
- 360 x 1° division
- Simultaneous clamping of 2 workpieces thanks to the dual flange
- 5 faces machining without counter-holder
- Bar machining due to hollow spindle
- To be used horizontaly or vertically
- Quick change through wedge clamping

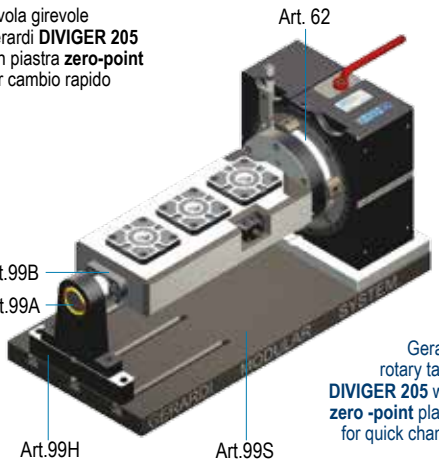


DIVIGER 205

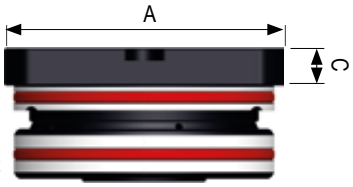


Tipo (grandezza) morsa / Vise (type) size		1	2
Pressione Apertura / Open pressure	BAR	7	7
	A	90	120 / Ø138
	C	12	15
	Forma Shape	□	□ / ○
	Cod.	8.66.5S100	8.66.52000
	€	510	690

Tavola girevole
Gerardi **DIVIGER 205**
con piastra **zero-point**
per cambio rapido



Gerardi
rotary table
DIVIGER 205 with
zero -point plates
for quick change



Chiavette o fori calibrati su richiesta
Keyways or calibrated holes on request

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI ! - UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 99A

Supporto
Support



Cod.	7.99.A1000
€	600

Art. 99B

Perno di centraggio orizzontale
Horizontal centering pin



Cod.	7.99.B1000
€	430

Art. 99H

Distanziale
Spacer



Cod.	7.99.H1000
€	100

Art. 62

DIVIGER 205

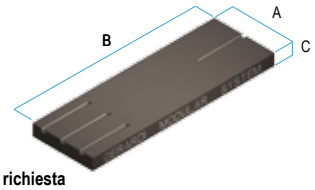
Piastra di interfaccia DIVIGER 205 per Zero Point
DIVIGER 205 connecting plate for Zero Point



Cod.	9.62.804A05
€	500

Art. 99S

Piastra base con cave
Piani rettificati
Base plate with slot
Faces ground



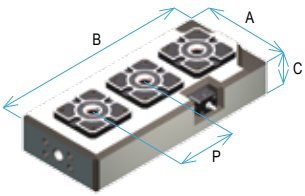
Cave o fori calibrati su richiesta
Slot or ground holes on request

Dimensioni B mm / Dimension B mm	A	C	Kg	Cod.	€
900	400	50	141	7.99.S090S	2.050
1100	400	50	172	7.99.S110S	2.200
1300	400	50	-	7.99.S130S	2.400

Disponibili quote "**B**" a step di 50mm - Available dimension "**B**" in steps of 50mm

Art. 99R

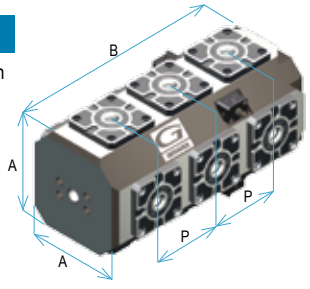
Piastra con Zero-Point
incassati
Plate with built-in Zero-
Point



Dimensioni B mm / Dimension B mm	A	C	P	Kg	Cod.	€
600	220	100	200	103	9.99.R0656	2.200 + (6) Art. 665
800	220	100	200	138	9.99.R0856	2.650 + (6) Art. 665
1000	220	100	200	172	9.99.R1056	3.150 + (6) Art. 665

Art. 99Q

Cubo portapezzi con
Zero-Point incassati
Tombstones with
built-in Zero-Point



Dimensioni B mm / Dimension B mm	A	P	Kg	Cod.	€
600	220	200	227	9.99.Q6512	4.550 + (12) Art. 665
800	220	200	303	9.99.Q8512	5.550 + (12) Art. 665
1000	220	200	378	9.99.Q1512	6.550 + (12) Art. 665

Per soluzioni alternative a quelle standard contattare il nostro ufficio tecnico
For alternative solutions please contact our technical department

Art. 99A
Supporto cubo portapezzi
Tombstone support



Cod.	5.99.A2000
€	900

Art. 99H
Distanziale maggiorato
Bigger spacer



Cod.	5.99.H2000
€	200

ESEMPI di APPLICAZIONE ZERO POINT
ZERO POINT APPLICATION EXAMPLES for INTERFACE PLATES





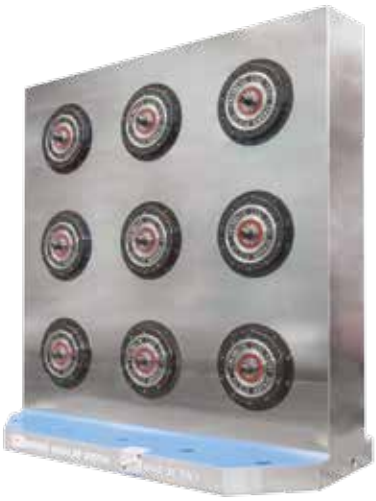
Zero Point indipendenti (Art.664) con carter di copertura in acciaio inox
Independents Zero Point (Art.664) with cover plates steel inox



Attrezzatura speciale con Zero Point applicata su tavola girevole NIKKEN
Special alluminum Zero Point fixture on NIKKEN rotary table



Attrezzatura speciale con Zero Point applicata su tavola girevole HAAS
Special alluminum Zero Point fixture on HAAS rotary table



Spalla Zero Point
per centro orizzontale

Zero Point
two sides tombstone
for horizontal
machining centre



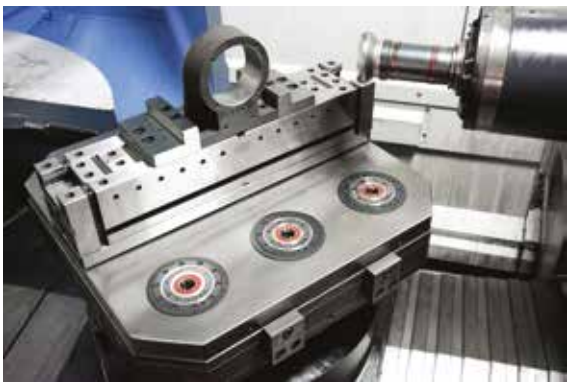
Cubo con
6 Zero Point
per lato

Zero Point
with 6 Zero Point
for each side

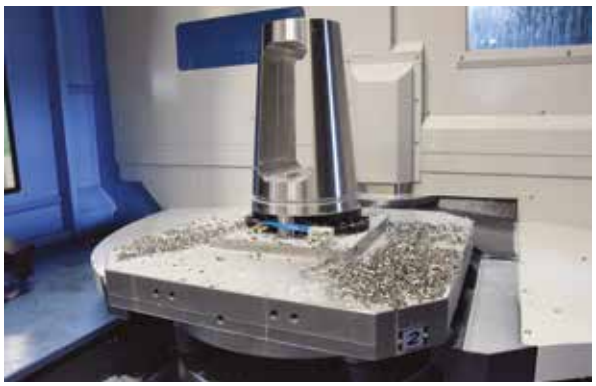


Cubo a reticolo con
bussole ed helicol
riportati
+ 2 piastre
Zero Point montate

Grid cube with bushings
and helicoil
+ 2 Zero Point plates



Morsa FMS montata su piastra Zero Point
FMS vises mounted on Zero Point plates



Lavorazione di particolare su piastra Zero Point
Workpieces on Zero Point base plate