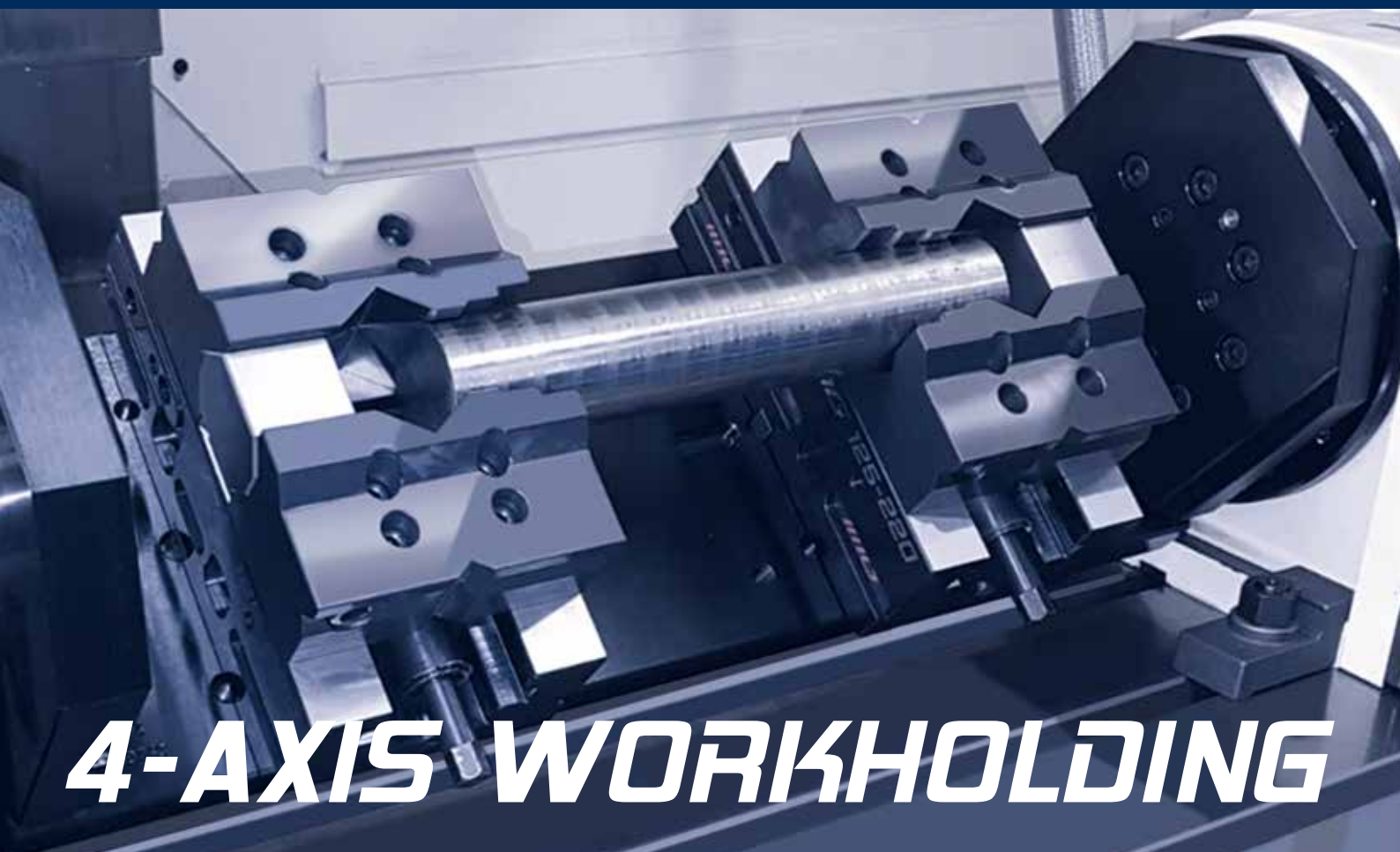
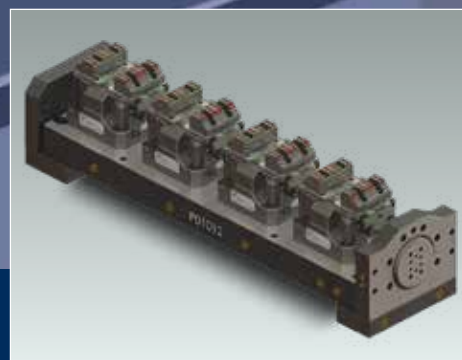
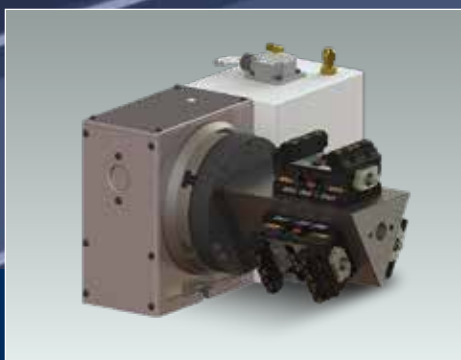




STATIONARY WORKHOLDING



4-AXIS WORKHOLDING



Sistemi di bloccaggio per tavole indexate
Clamping systems for rotary tables



A COMPANY OF THE GROUP



4-AXIS WORKHOLDING



The growing demand for high-precision components in strategic sectors such as automotive, aerospace, medical, and electronics has led to widespread adoption of CNC rotary tables.

These devices play a crucial role in production, and thanks to their characteristics, rotary tables have become an essential tool for manufacturing complex, high-quality parts capable of meeting the most stringent technical specifications.

OML positions itself as an innovative and reliable technology partner,

offering a comprehensive range of standard products and special solutions designed to optimize productivity and enhance the performance of these indexed rotary tables.

Through in-depth application expertise and a continuous commitment to innovation, OML supports companies in achieving higher levels of efficiency, precision, and competitiveness ■

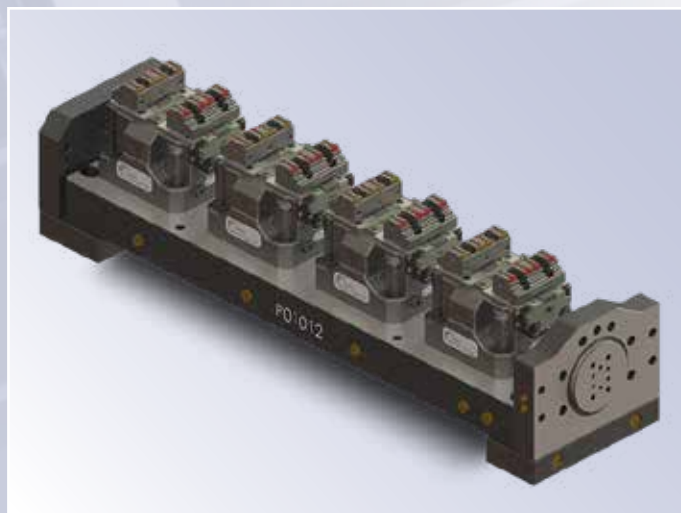
La crescente domanda di componenti ad alta precisione in settori strategici quali automotive, aerospaziale, medicale ed elettronico ha determinato un'ampia diffusione delle tavole rotanti CNC.

Questi dispositivi rivestono un ruolo cruciale nella produzione e grazie alle loro caratteristiche, le tavole rotanti rappresentano uno strumento imprescindibile nella produzione di parti complesse e di elevata qualità, capaci di rispondere alle più rigorose specifiche tecniche.

OML si pone come partner tecnologico innovativo e affidabile, offrendo una gamma

completa di prodotti standard e soluzioni speciali progettate per ottimizzare la produttività e migliorare le prestazioni delle precitate tavole indexate.

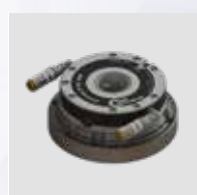
Attraverso un'approfondita conoscenza applicativa e un costante impegno nell'innovazione, OML supporta le aziende nel raggiungimento di livelli superiori di efficienza, precisione e competitività ■





4-Axis Workholding

Indice - Index



APS 140

Flangia
Flange

Pag. 4



IMG

Cubo triangolare per IMG 88-130
Triangular tombstone for IMG 88-130

Pag. 15



APS 140

Perni
Pin

Pag. 5



Y CHUCK

Bascula per Y CHUCK - Trunnion for Y CHUCK
Autocentrante statico - Static chuck
Flange per mandrini - Flanges for chuck

Pag. 16



APS 140

Bascula multipla - Multiple trunnion
Bascula liscia - Smooth trunnion
Bascula a reticolo - Grid trunnion

Pag. 6



MANDRINI - CHUCKS

Mandrino manuale SGSF
SGSF Manual chuck

Pag. 19



PLUS 5 INDEX

Plus 5 INDEX 52
Plus 5 INDEX 96
Plus 5 INDEX All in One 52/96

Pag. 9



CIVI-CN

Colonna CIVI 2000
CIVI 2000 Column

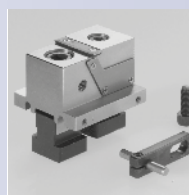
Pag. 20



PLUS 5

Bascula multipla Plus 5 - 52
Bascula Plus 5 - 96
Bascula multipla Plus 5 - 96
Multiple trunnion Plus 5 - 52
Trunnion Plus 5 - 96
Multiple trunnion Plus 5 - 96

Pag. 12



CIVI 2000

Sistema di bloccaggio multiplo
Multiple clamping system

Pag. 21



Applicazioni

- Flangia per tavole indexate CNC con cave a T
- Incluso 1 modulo APS 140 Premium

Caratteristiche tecniche

- 3 griffe di bloccaggio
- Ripetibilità < 0.005 mm
- Rivestimento di protezione
- Funzione Turbo per incrementare la forza di serraggio (senza Turbo 7.5 kN)
- Protezione anti-rotazione
- PEL
- Funzione di pulizia
- Completamente sigillato (proofline)

Dotazione standard

Flangia con 1 modulo APS 140 per tavole indexate Touchdex e CNC e per orientamento su tavole indexate con cave a T

Application

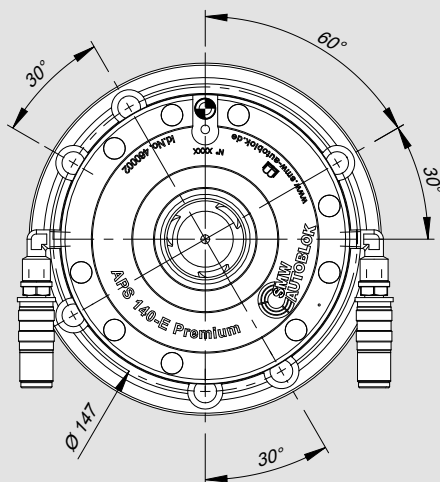
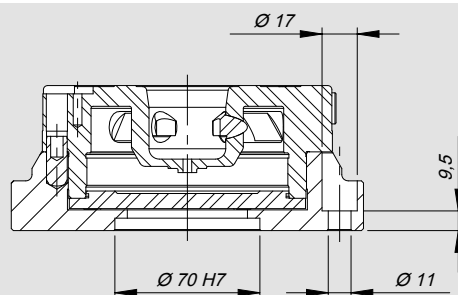
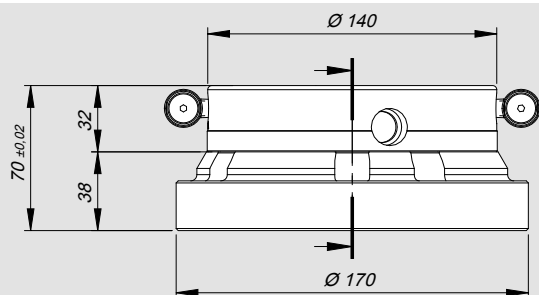
- Flange for CNC indexing tables with T-slots flange
- Included 1 modul APS 140 Premium

Technical features

- 3 clamping jaws
- Repeatability < 0.005 mm
- Turbo function to increase the clamping force (without Turbo 7.5 kN)
- Anti rotation key
- Air sensing
- Air cleaning
- Fully sealed (proofline)

Standard equipment

Flange with 1 APS 140 module for indexing tables and for orientation on indexing tables with T-slots



Soggetto a modifiche tecniche
Subject to technical changes

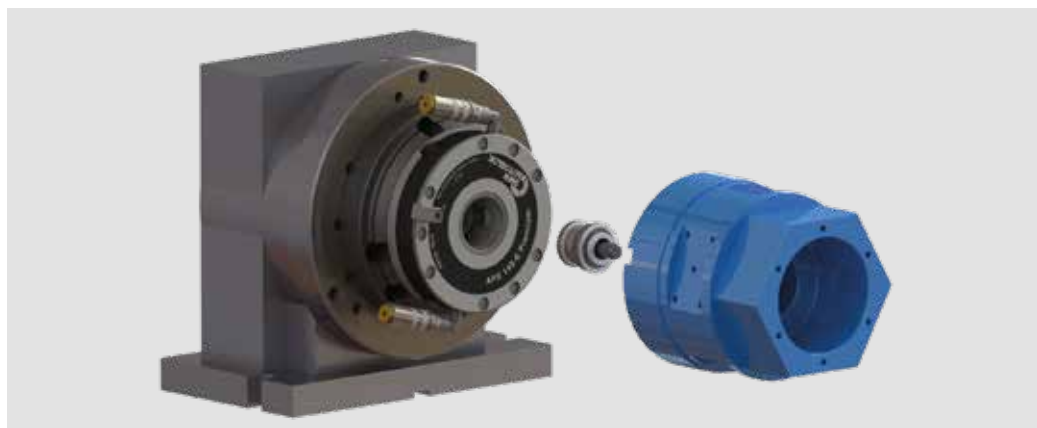
Codice - Id. No.

46167620

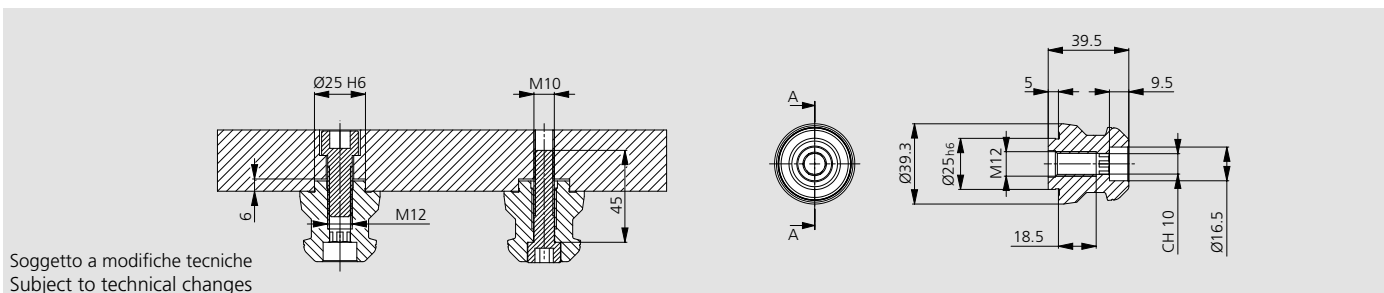
Peso - Weight (Kg)

17

Esempio di impiego
Application example



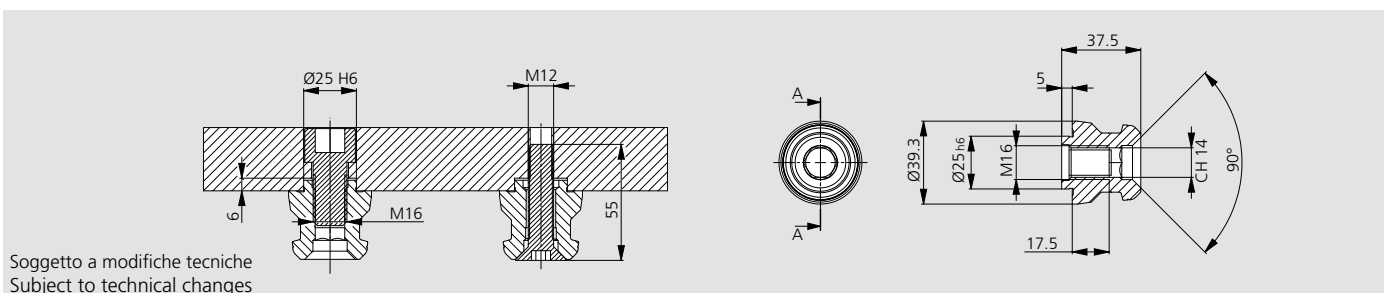
Filetto M12 - M12 thread



Soggetto a modifiche tecniche
Subject to technical changes

Codice - Id. No.	Tipo - type		Peso - Weight (Kg)
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46162356	B	M12	0.2
46162357	C	M12	0.2

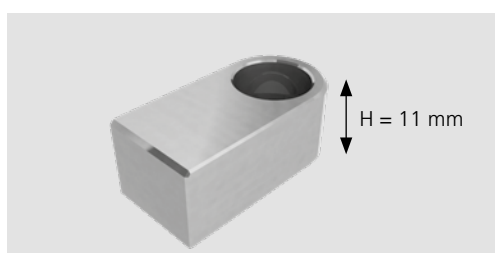
Filetto M16 - M16 thread



Soggetto a modifiche tecniche
Subject to technical changes

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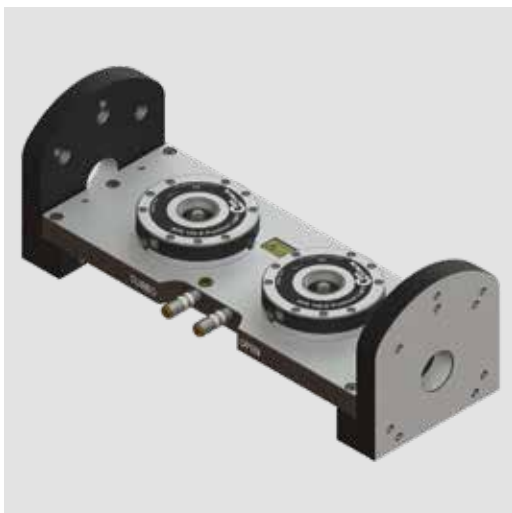
Chiavetta per uso singolo - Key for single use



Codice - Id. No.
58351312

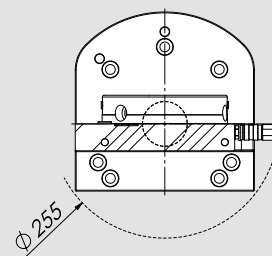
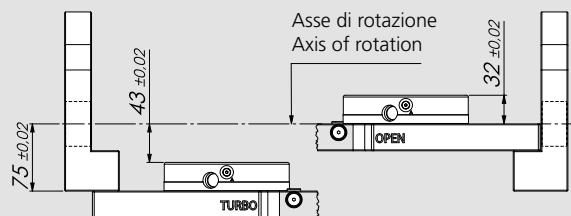
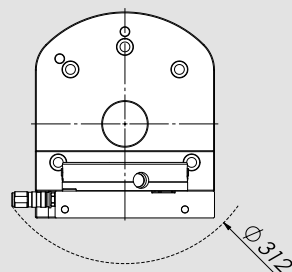
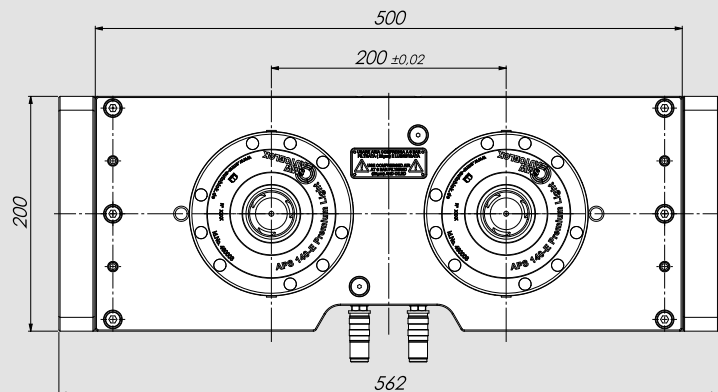
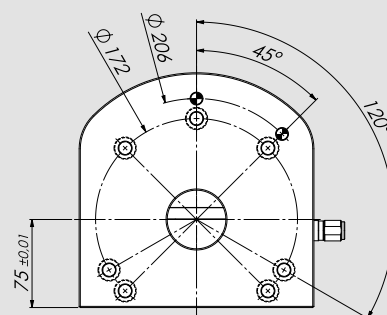
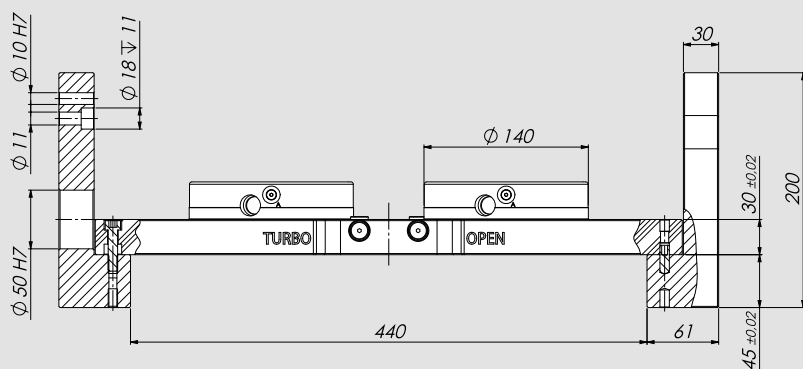
APS 140

BASCUA MODULARE PER APS 140 MODULAR TRUNNION FOR APS 140



Completo di APS 140 premium light

Complete with APS 140 premium Light



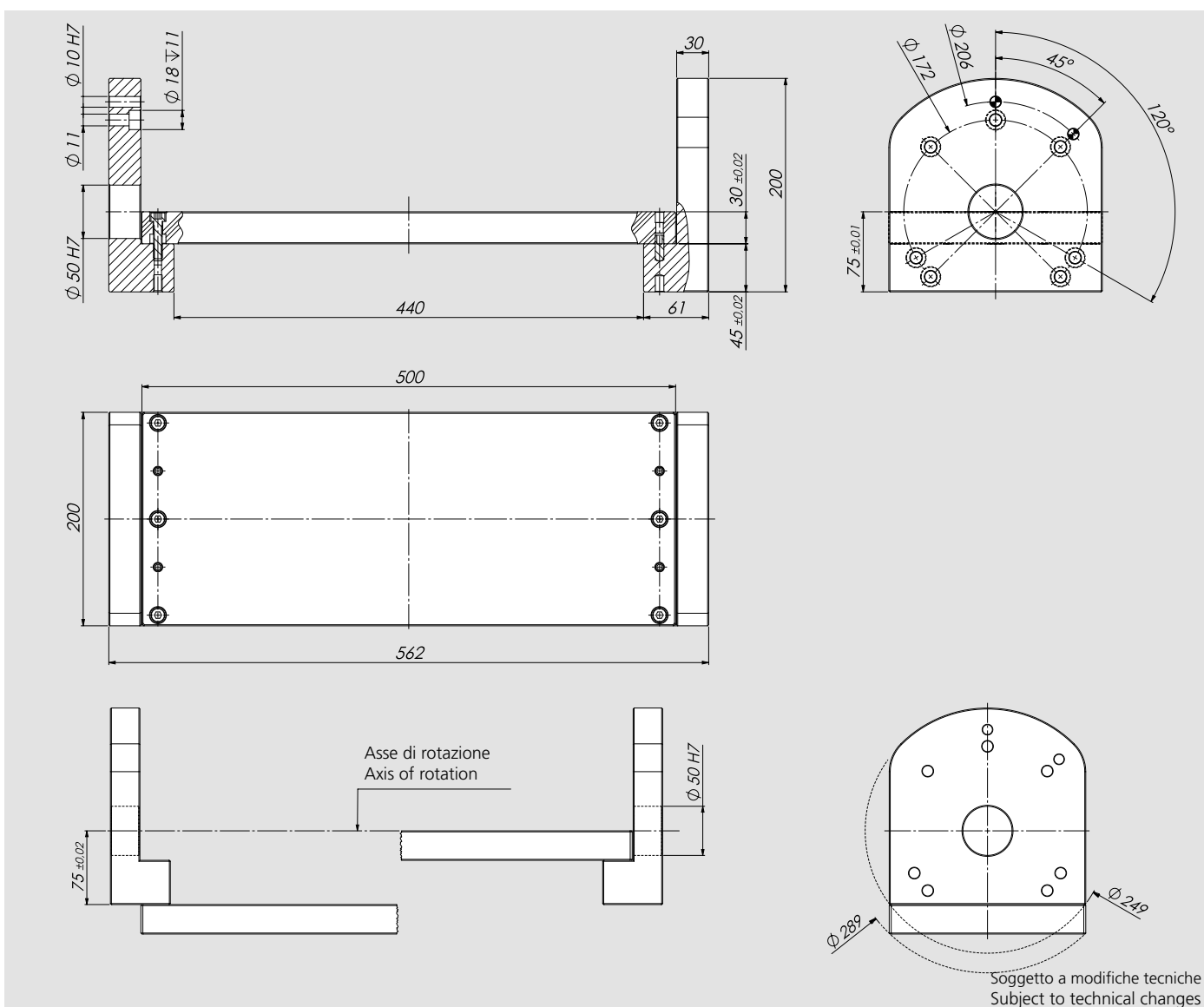
Soggetto a modifiche tecniche
Subject to technical changes

Codice - Id. No.

50191454

Peso - Weight (Kg)

46

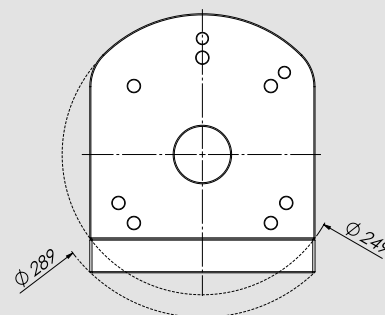
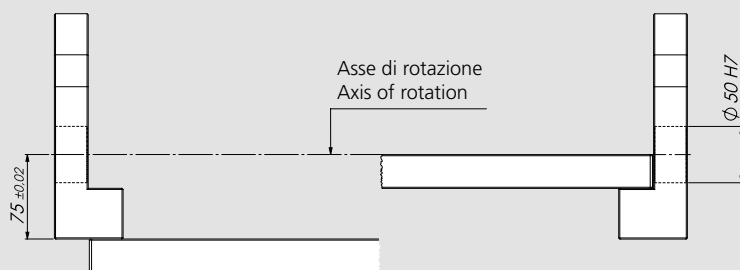
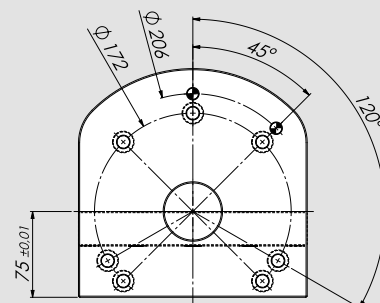
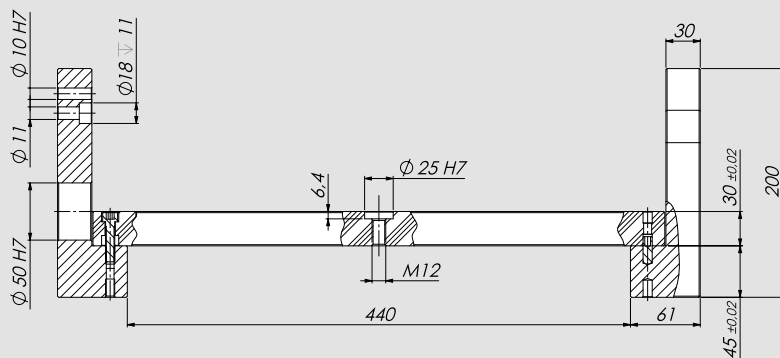


Codice - Id. No.

50191450

Peso - Weight (Kg)

43



Soggetto a modifiche tecniche
Subject to technical changes

Codice - Id. No.

50191452

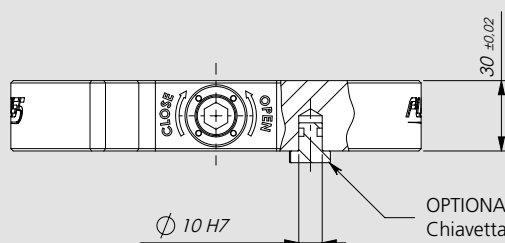
Peso - Weight (Kg)

42

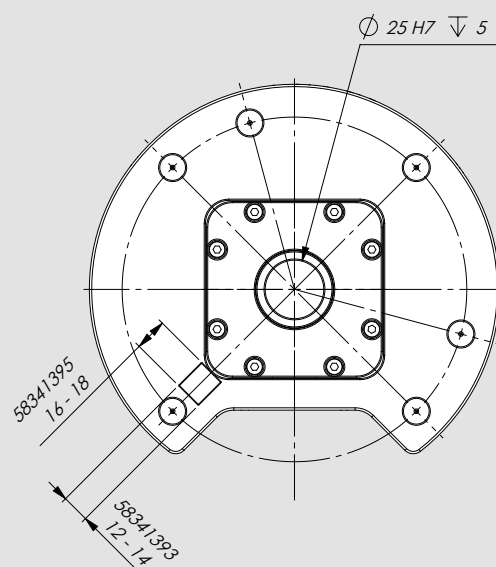
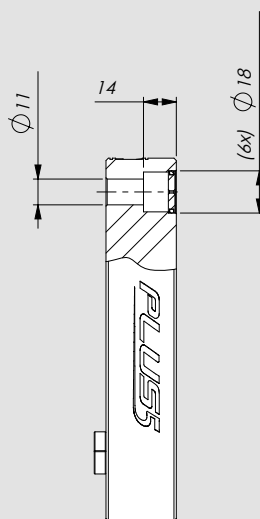
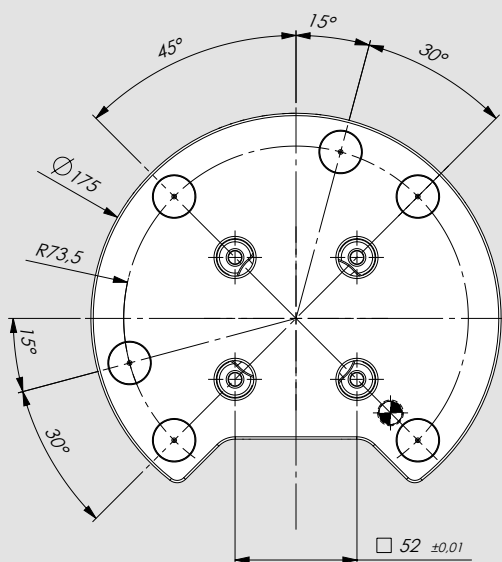


- Completo di chiave 10mm
- Perni non inclusi

- Complete with wrench 10mm
- Pins not included



OPTIONAL:
Chiavetta di posizionamento multislot - Multislot positioning key
58341393 / 58341395



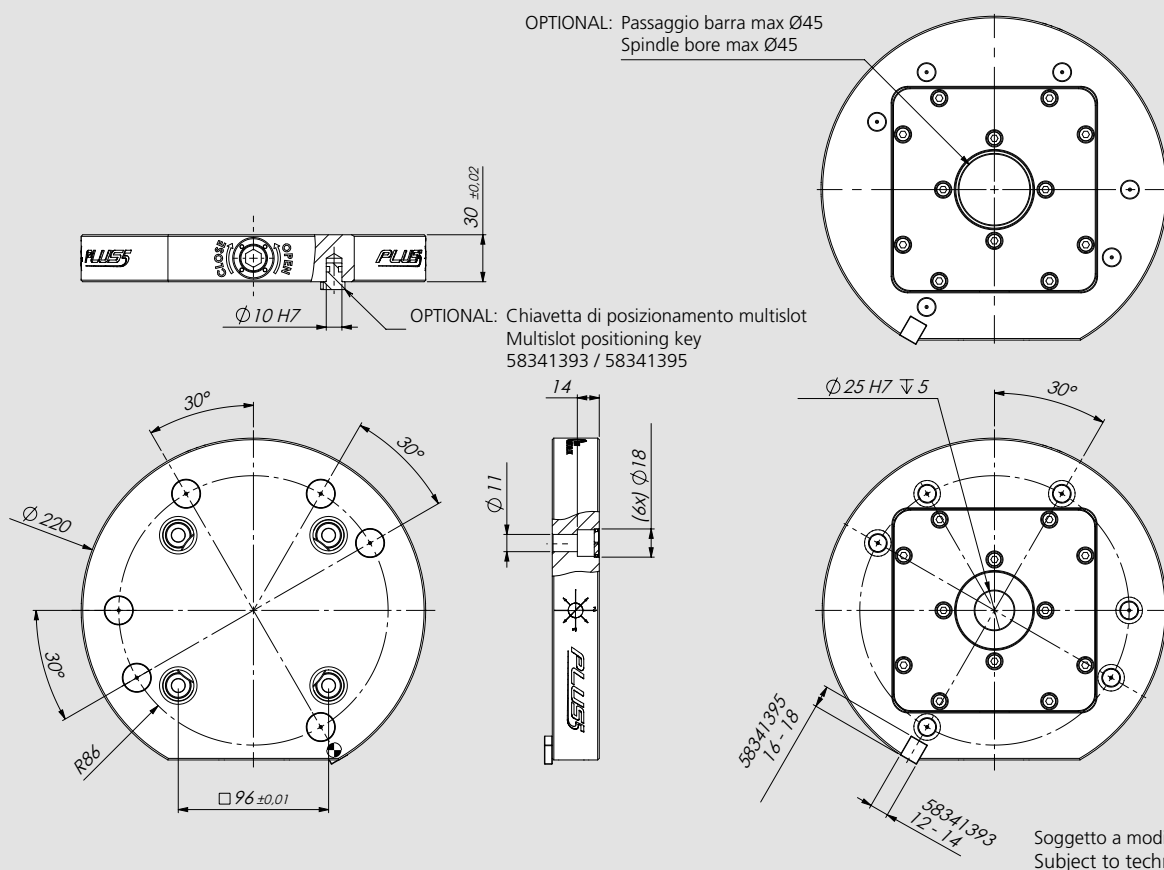
Soggetto a modifiche tecniche
Subject to technical changes

Codice - Id. No.
46240111

Peso - Weight (Kg)
6



- Completo di chiave 10mm
- Perni non inclusi



Codice - Id. No.	Peso - Weight (Kg)
46240112	8

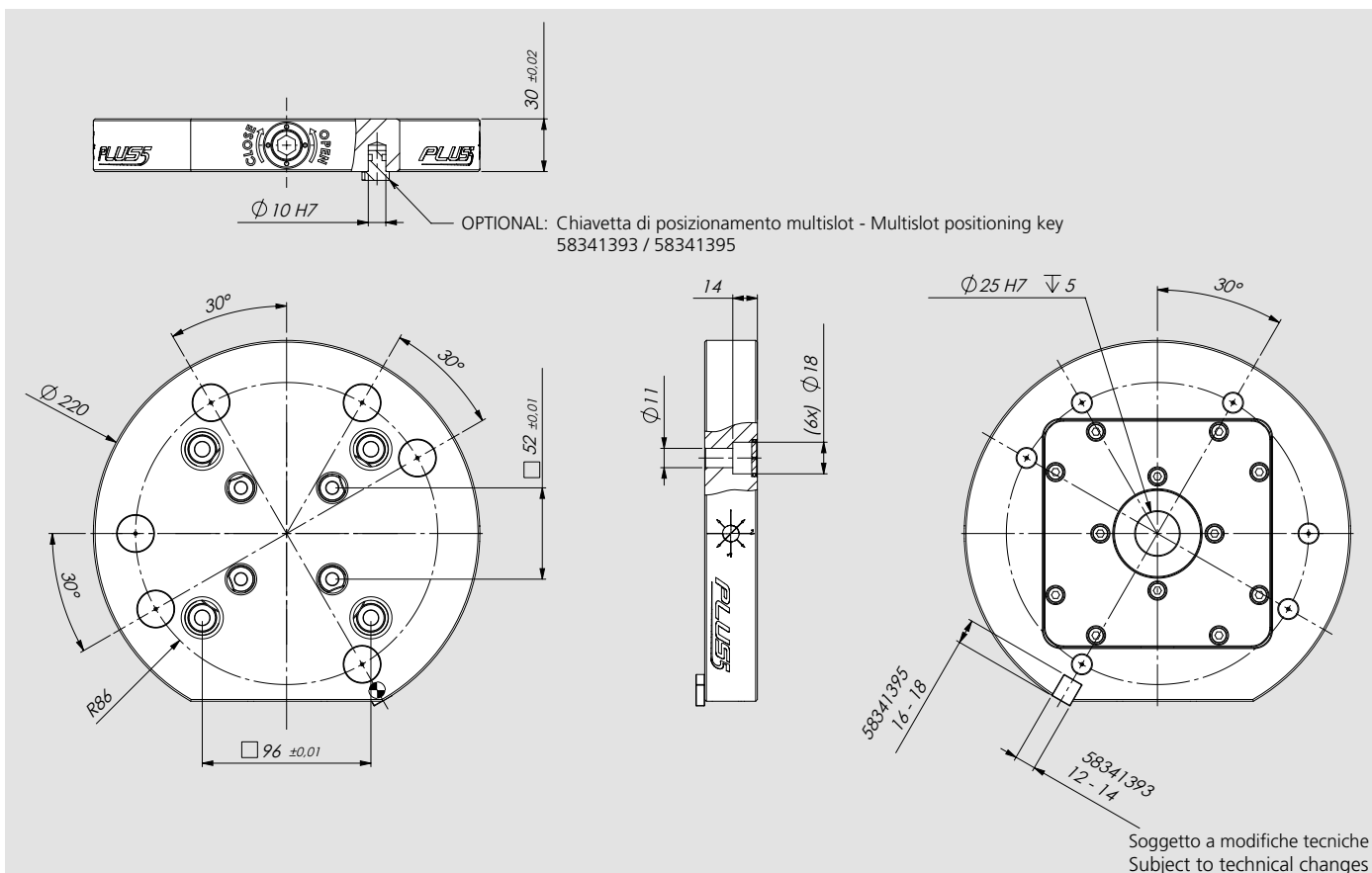
Esempio di impiego Application example





- Completo di:
 - chiave 10mm
 - tappi di protezione (Plus 5 - 96)
- Perni non inclusi

- Complete with:
 - wrench 10mm
 - protection caps (Plus 5 - 96)
- Pins not included



Codice - Id. No.	Peso - Weight (Kg)
46240113	8

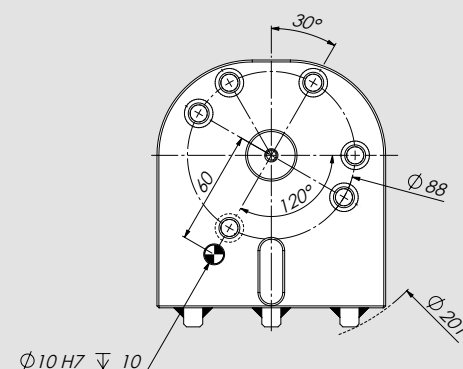
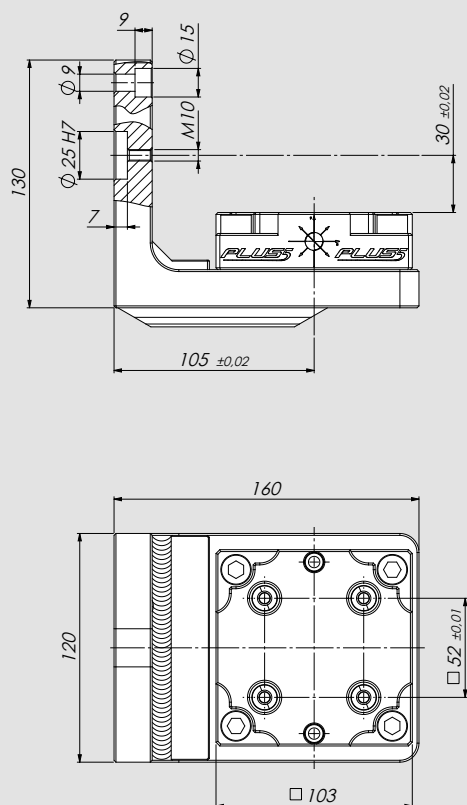
PLUS 5 - 52

BASCULE PER PLUS 5 - 52 TRUNNION FOR PLUS 5 - 52



Plus 5 - 52 non incluso

Plus 5 - 52 not included



Soggetto a modifiche tecniche
Subject to technical changes

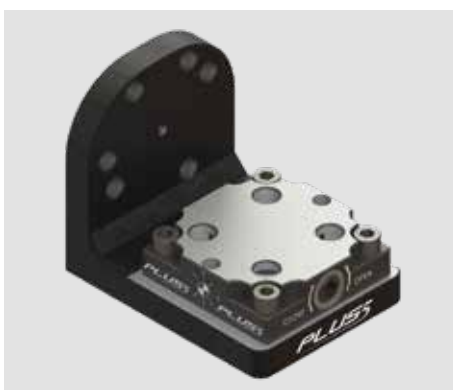
Codice - Id. No.

46242038

Peso - Weight (Kg)

6

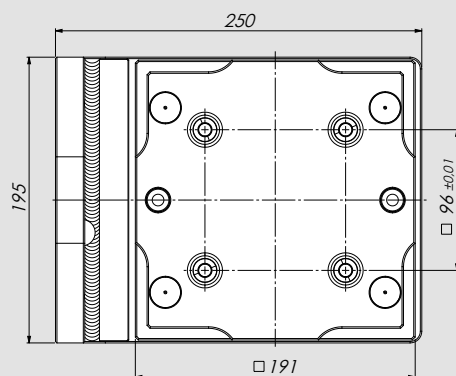
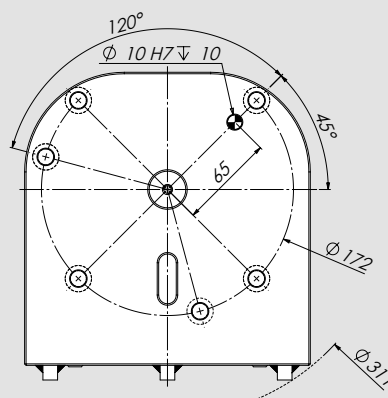
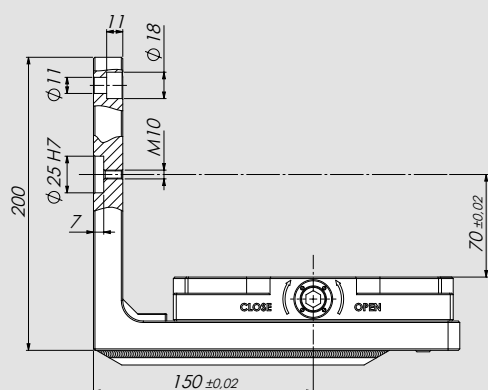
Esempio di impiego
Application example





Plus 5 - 96 non incluso

Plus 5 - 96 not included

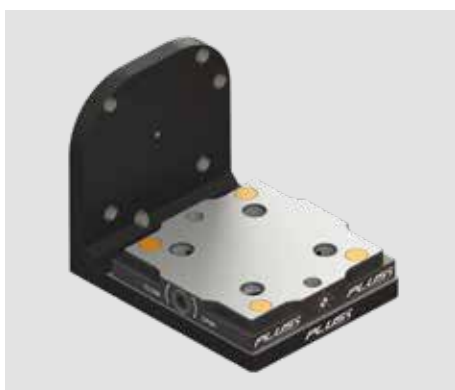


Soggetto a modifiche tecniche
 Subject to technical changes

Codice - Id. No.
 46242039

Peso - Weight (Kg)
 14

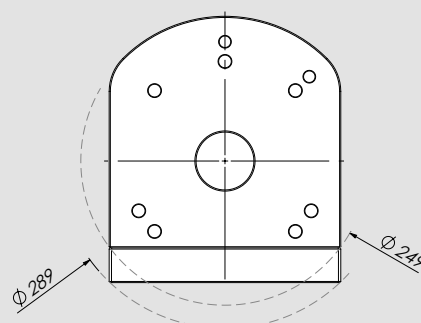
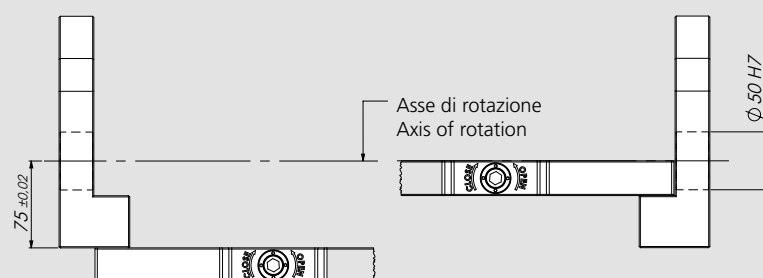
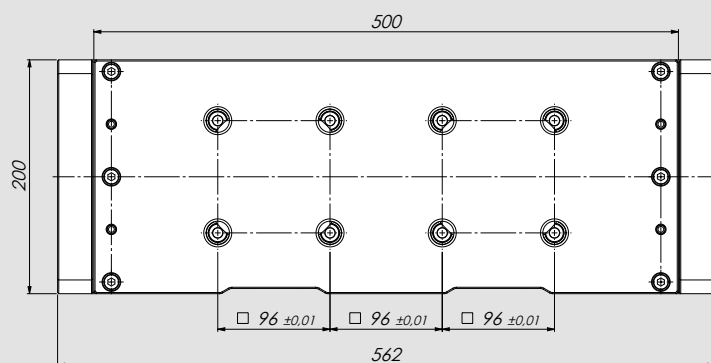
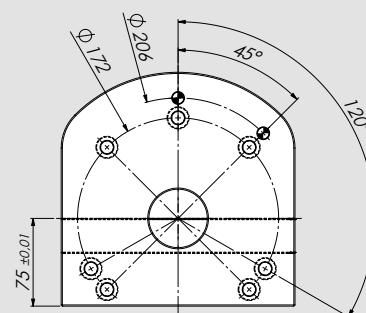
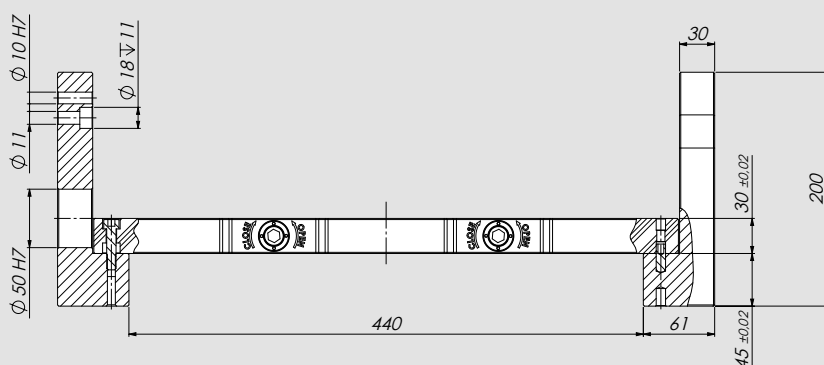
Esempio di impiego
Application example





- Completo di:
 - chiave 10mm
 - n. 2 piastrine di sicurezza (cod. 46248215)
- Perni non inclusi

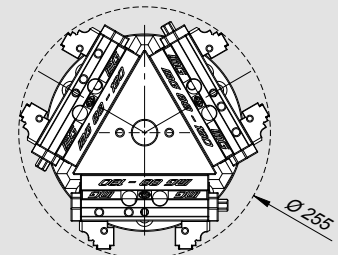
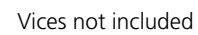
- Complete with:
 - wrench 10mm
 - n. 2 safety plates (Id. No. 46248215)
- Pins not included



Soggetto a modifiche tecniche
Subject to technical changes

Codice - Id. No.
46248320

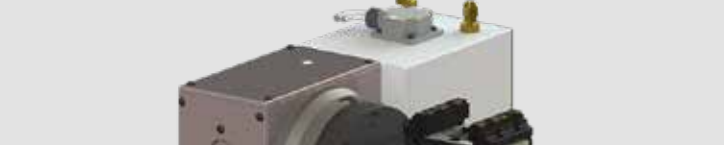
Peso - Weight (Kg)
43



Soggetto a modifiche tecniche - Subject to technical changes

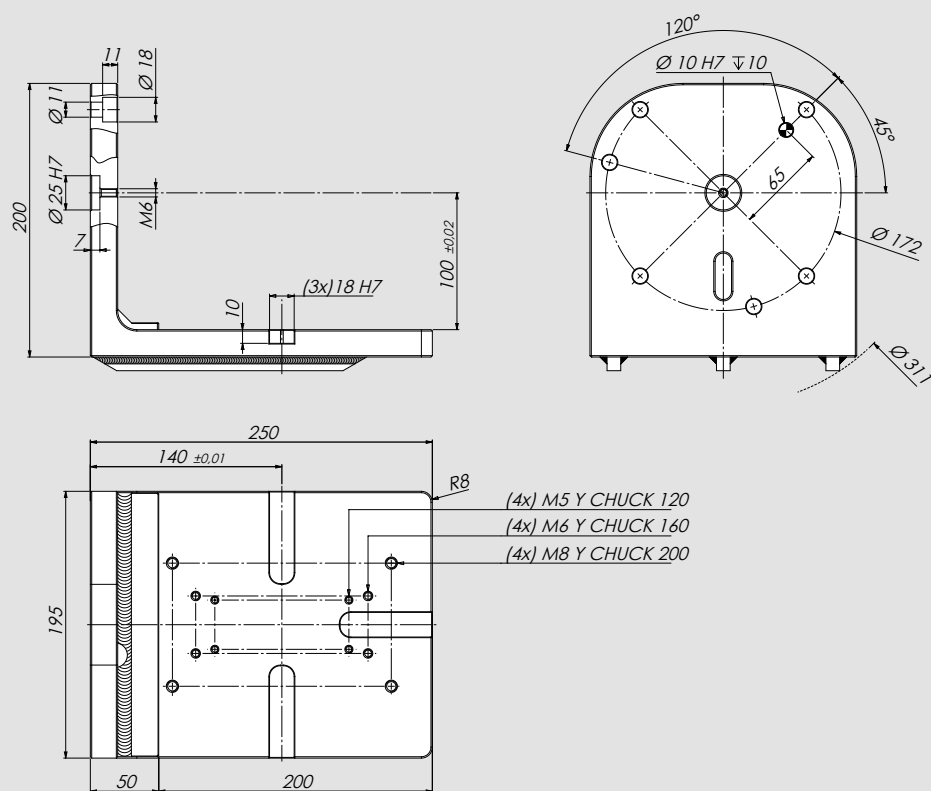
Peso - Weight (Kg)

25



Y CHUCK

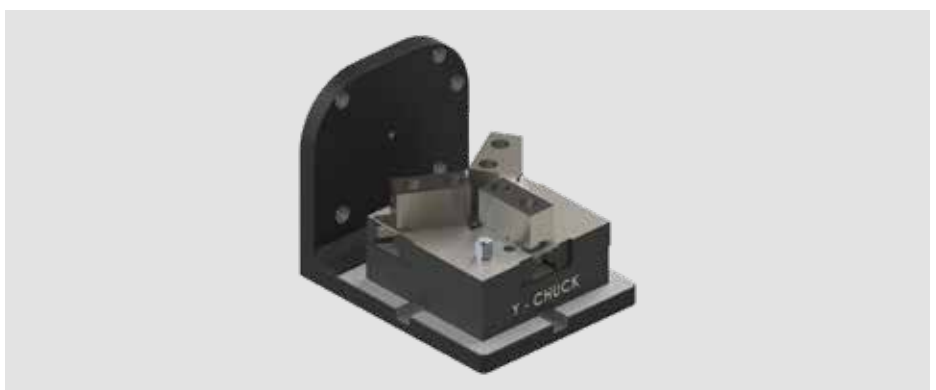
**BASCULA PER Y CHUCK
TRUNNION FOR Y CHUCK**



Soggetto a modifiche tecniche
Subject to technical changes

Codice - Id. No.	Peso - Weight (Kg)
50191456	14

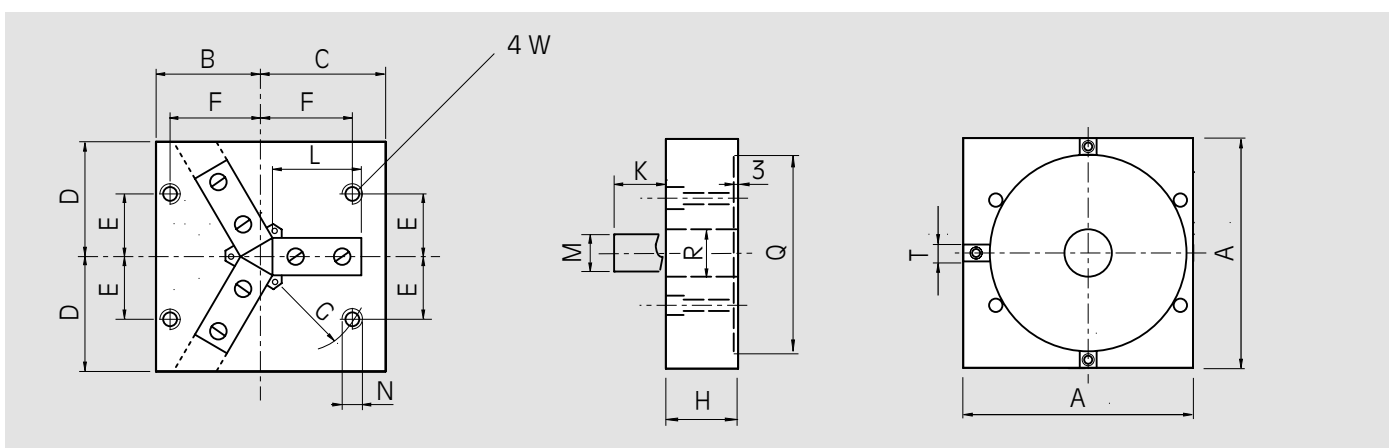
Esempio di impiego Application example





Autocentrante statico YC, caratterizzato da un'innovativa funzionalità che consente la trasformazione in una morsa estremamente compatta e robusta.

The YC static chuck features an innovative function that allows it to be transformed into an extremely compact and strong vise.



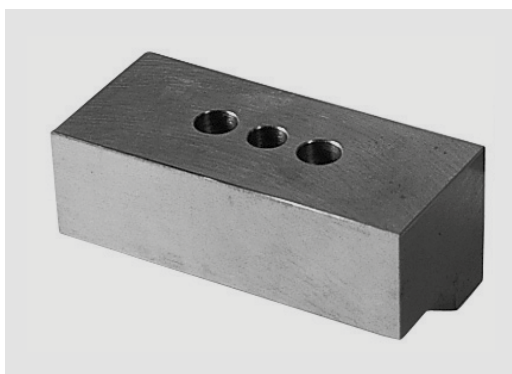
Codice - Id. No.	Modello - Type	A mm	B mm	C mm	D mm	H mm	R mm	Q mm	N mm	G mm	T mm	E mm	F mm	W
51 99 13 33	Y - 120	120	55	65	60	43	Ø 25	--	10	55	12	18	49	M 5
51 99 13 34	Y - 160	160	70	90	80	65	Ø 34	Ø 119	12	73,5	18	21	63	M 6
51 99 13 35	Y - 200	200	90	110	100	65	Ø 44	Ø 170	12	99	18	45	80	M 8
51 99 13 36	Y - 300	300	140	160	150	65	Ø 104	Ø 270	12	147	18	80	120	M 10

Specifiche - Specification

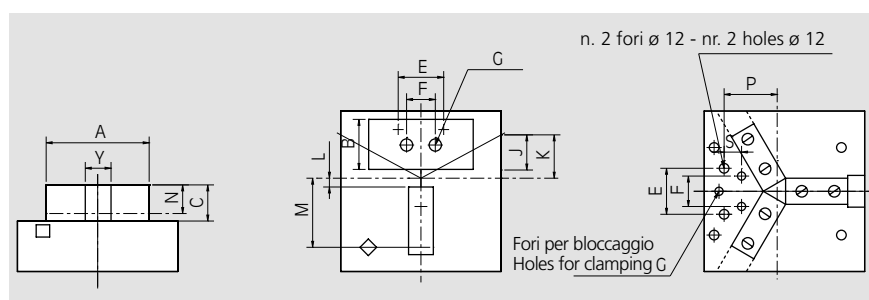
Modello Type	corsa ganascia jaw stroke mm	coppia consentita input torque N-m	forza bloccaggio gripping force kN	campo di presa gripping range mm	peso weight Kg
Y - 120	7	50	11	8 ~ 90	4,5
Y - 160	10	100	22	15 ~ 126	12
Y - 200	15	130	33	20 ~ 173	19
Y - 300	25	150	38	40 ~ 266	40

Dim. ganascia tenera - Soft-jaw dim.

Modello Type	K mm	L mm	M mm	Codice Id. No.
Y - 120	30	60	19	51991366
Y - 160	41	70	30	51991367
Y - 200	43	85	30	51991368
Y - 300	54	115	45	51991369



Ganascia fissa - Fixed jaw



Codice - Id. No.	Modello - Type	A mm	B mm	C mm	E mm	F mm	G mm	N mm	Y mm	S mm	P mm	min J mm	max K mm	min L mm	max M mm
51 99 13 37	Y - 120	80	45	30	60	30	2-M6	16	18	10	45	12	45	6	55
51 99 13 38	Y - 160	100	45	41	70	30	2-M8	18	30	10	53	20	40	10	65
51 99 13 39	Y - 200	130	62	43	60	40	2-M10	20	30	20	65	15	50	10	70
51 99 13 40	Y - 300	160	115	54	60	120	3-M12	35	45	20	105	15	100	13	120

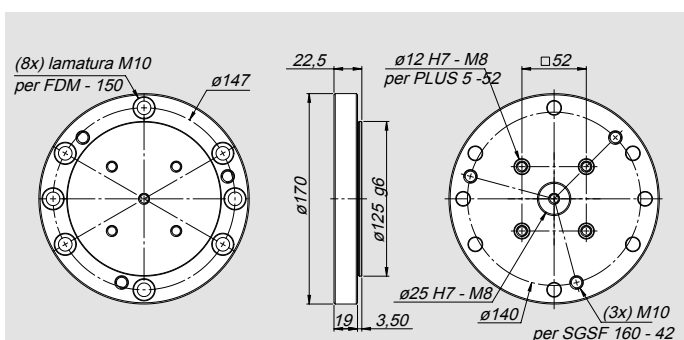
FLANGE

FLANGE PER MANDRINI FLANGES FOR CHUCK

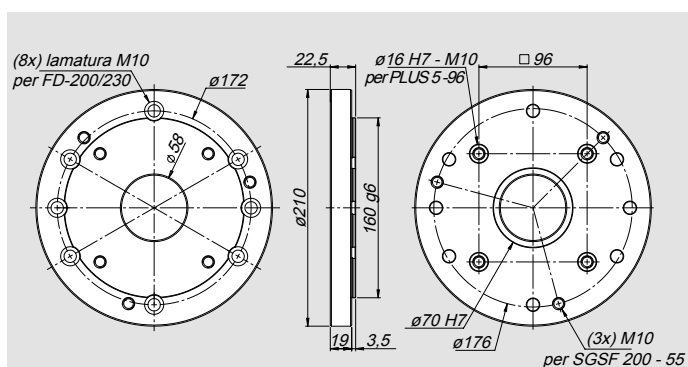


Mandrino non incluso

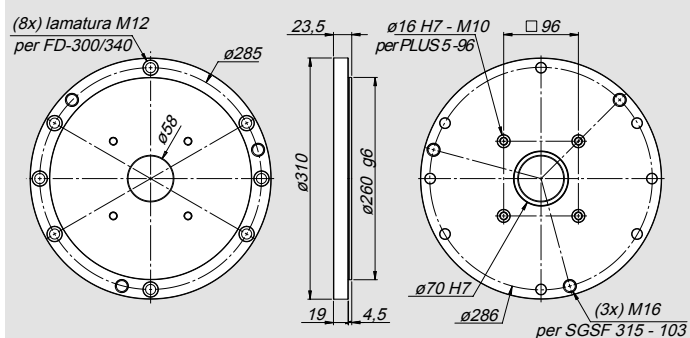
Chuck not included



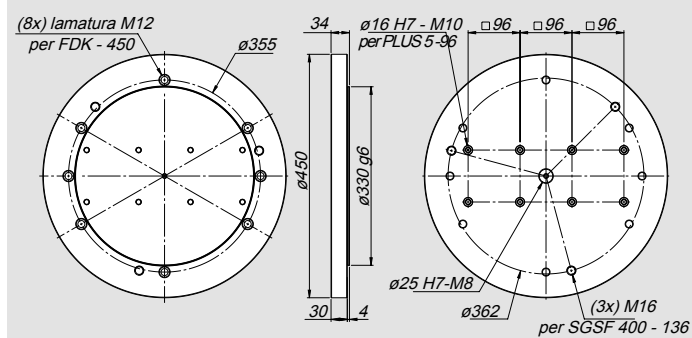
Codice - Id. No.	Peso - Weight (Kg)
51991341	3



Codice - Id. No.	Peso - Weight (Kg)
51991342	5



Codice - Id. No.	Peso - Weight (Kg)
51991343	13



Codice - Id. No.	Peso - Weight (Kg)
51991347	39

Esempio di impiego
Application example

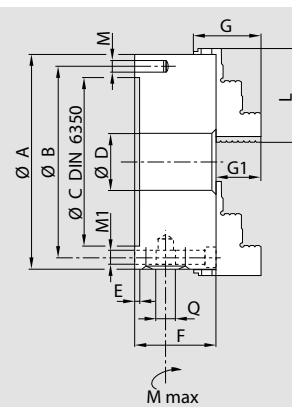
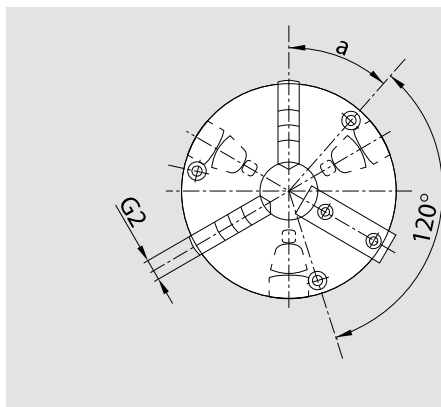


MANDRINO MANUALE SGSF (con foratura anteriore)

Autocentrante SMW a comando manuale a guida semplice con corpo in acciaio

SGSF MANUAL CHUCK (frontal mounting)

SMW self-centering manual chuck, steel body

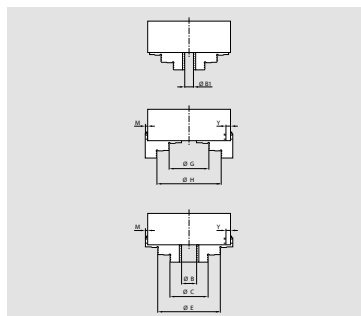


Codice - Id. No.		33031216	33031220	33031231	33031240
Mandrino - Chuck		SGSF 160-42	SGSF 200-55	SGSF 315-103	SGSF 400-136
Attacco DIN 6350 - Attachement DIN 6350	Dim	FL 125	FL 160	FL 260	FL 330
H6	A mm	160	200	315	400
	B mm	140	176	286	362
	C mm	125	160	260	330
	D mm	42	55	103	136
	E mm	4	4	5	5
	F mm	68	78	96,2	108
	G mm	53	54	73	92
	G1 mm	32	29	41	55
	G2 mm	20	25	32	36
	L mm	70	85	125	145
Foratura anteriore - Front mounting	M1 mm	3xM10	3xM10	3xM16	3xM16
	Q mm	11	11	14	17
	a °	102°	42°	42°	45°
Massima velocità - Max speed	rpm	4500	4000	2800	2000
Coppia - Torque M max	Nm	120	160	200	280
Massa con griffe - Weight (w. jaws)	Kg	11,2	20	50	90
Momento d'inerzia - Moment of inertia	Kgm ²	0,03	0,10	0,60	1,80

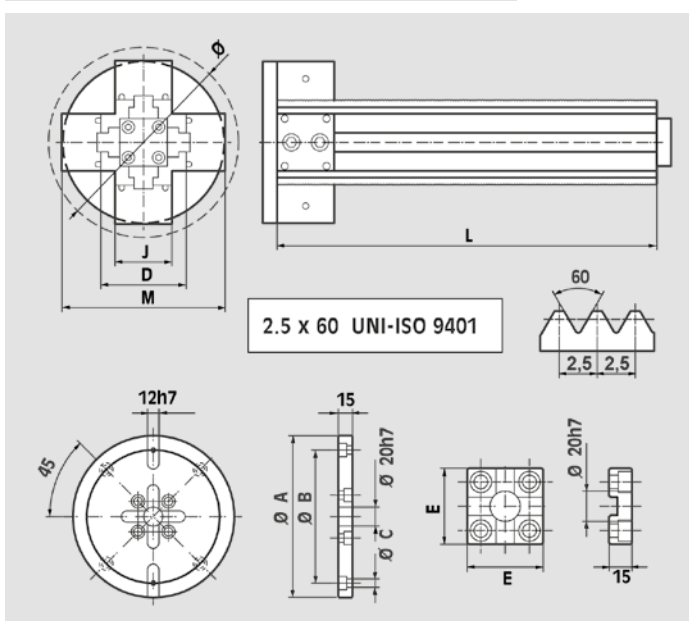
Mandrino - Chuck		SGSF 160-42	SGSF 200-55	SGSF 315-103	SGSF 400-136
Diametri di bloccaggio consigliati alla max forza di bloccaggio - Suggested clamping diameters at max. clamping force					
Griffe monoblocco - Monoblock jaws	B mm	19-56	22-75	58-115	77-162
	G mm	64-101	78-130	129-199	169-254
	H mm	113-150	146-198	226-296	295-380
	C mm	57-94	68-121	128-184	149-234
	E mm	109-146	136-189	212-281	275-360
	Y mm	0	4	9	16
	M mm	18	22	25	26
Diametro di bloccaggio minimo con forza di bloccaggio ridotta del 40% - Min. clamping diameters with clamping force reduced by 40%					
		3	4	10	10
N° spire della corona - No. of scroll teeth		2	3	5	5
N° spire della corona in presa per bloccaggio di sicurezza		2	3	5	5
No. of meshing scroll teets for safety clamping					

- Per massime velocità e maxime chiusure, tutte le spire devono essere in presa
- Per controllo spire in presa verso l'esterno quota (M) verso l'interno quota (Y)
- Per funzionamenti fuori di questi limiti ± 16 mm sul diametro, ridurre la chiusura del 25%
- ATTENZIONE: I DIAMETRI DI BLOCCAGGIO SONO STATI CALCOLATI CON LE SPIRE IN PRESA SEGNALE IN TABELLA

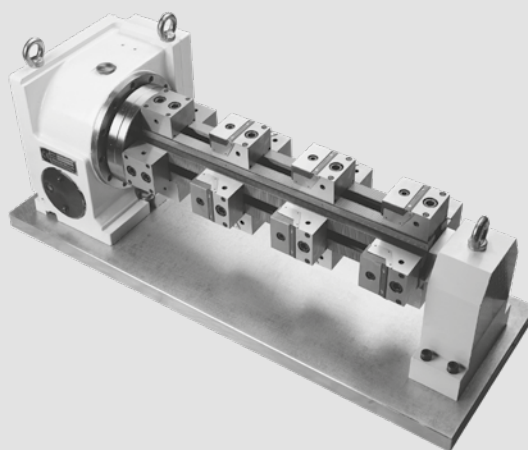
- For max. speed and max. clamping, all teeth shall be meshing
- For meshing teeth control towards outside dimension (M) toward inside dimension (Y)
- For features exceeding these limits ± 16 mm on diameter, shall be reduced by 25%
- ATTENTION: CLAMPING DIAMETERS HAVE BEEN CALCULATED WITH A.M. MESHING TEETH



Mandrino - Chuck		SGSF 160-42	SGSF 200-55	SGSF 315-103	SGSF 400-136
Accessori - Accessories		Codici - Id. No.			
Set-3 GRC		03651630	03652030	03653130	03654030
Set-3 Blocchetti teneri		03601630	03602030	03603130	03604030
Set-3 Griffe monoblocco Dx		03551630	03552030	03553130	03554030
Set-3 Griffe monoblocco Sx		03561630	03562030	03563130	03564030
Set-3 Griffe reversibili		03631630	03632030	03633130	03634030
Chiave		02711700		02713100	02714000



Esempio di impiego
Application example

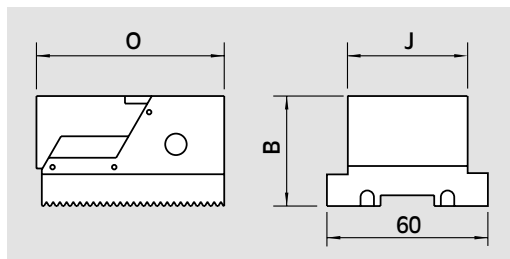


Tipo - Type	Cod. - Id.No.	J mm	D mm	M mm	L mm	Ø rot. mm	Ø A mm	Ø B mm	Ø C mm	E mm	Peso - Weight Kg
CV-CN 60-400	77584111				400						19
CV-CN 60-500	77584112	60	90	170	500	200	170	140	9	50	23
CV-CN 60-630	77584113				630						29
CV-CN 90-400	77584211				400						34
CV-CN 90-500	77584212	90	115	205	500	230	210	180	11	70	41
CV-CN 90-630	77584213				630						50

Capacità di serraggio - Clamping capacity

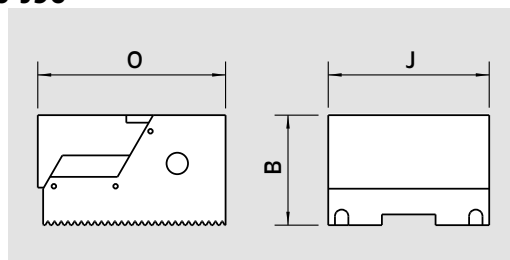
	A max. mm			
CIVI 2000 38/60-250	120	25	-	-
CIVI 2000 38/60-400	270	100	43	15
CIVI 2000 38/60-500	370	150	76	40
CIVI 2000 38/60-630	500	215	120	73
CIVI 2000 90-250	99	-	-	-
CIVI 2000 90-400	249	84	29	-
CIVI 2000 90-500	349	134	62	26
CIVI 2000 90-630	479	199	106	59

**Set supporto mobile completo J38 liscio
Movable smooth jaw set J38**



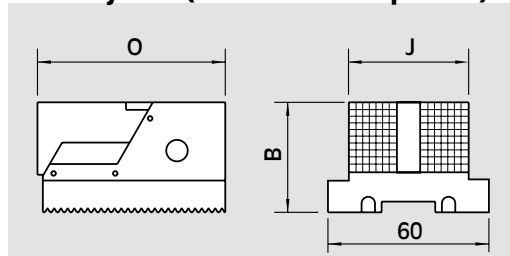
Modello - Type	Codice - Id. No.	B mm	J mm	O mm	Peso - Weight kg
CV 38	77584063 *	40	38	70	1

**Set supporto mobile completo J60-J90 liscio
Movable smooth jaw set J60-J90**



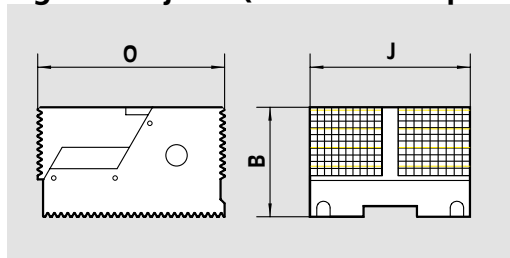
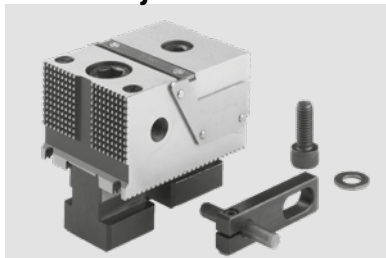
Modello - Type	Codice - Id. No.	B mm	J mm	O mm	Peso - Weight kg
CV 60	77584163 *	40	60	70	1.4
CV 90	77584263 *	45	90	80	2.9

**Set supporto mobile completo J38 con dentatura (per pezzi grezzi)
Movable jaw set J38 with grooved jaws (for raw workpieces)**



Modello - Type	Codice - Id. No.	B mm	J mm	O mm	Peso - Weight kg
CV 38	77584068 *	40	38	70	1

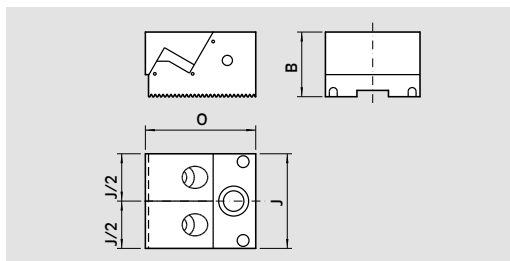
**Set supporto mobile completo J 60-J90 con dentatura (per pezzi grezzi)
Movable jaw set J60-J90 with grooved jaws (for raw workpieces)**



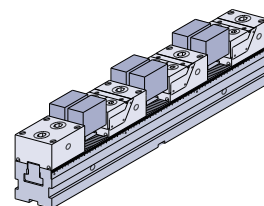
Modello - Type	Codice - Id. No.	B mm	J mm	O mm	Peso - Weight kg
CV 60	77584168 *	40	60	70	1.4
CV 90	77584268 *	45	90	80	2.9

* Codici validi solo per montaggio su colonna CIVI
* Codes valid only for mounting on CIVI column

Set supporto mobile a doppia ganaschia - Movable set with double jaws

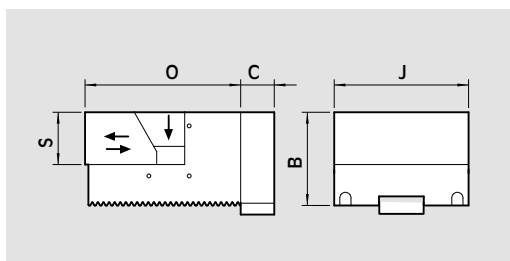


Esempio di utilizzo



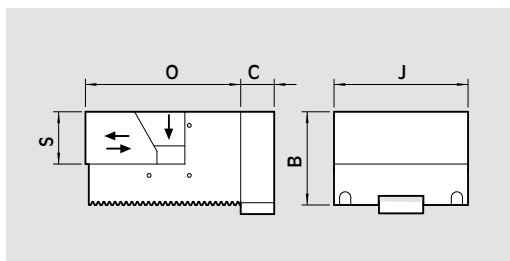
Modello - Type	Codice - Id. No.	B mm	J mm	O mm	Peso - Weight kg
CV 60	77584164 *	40	60	70	1.5
CV 90	77584264 *	45	90	80	3

Set supporto mobile con ganasce tenere in alluminio - Movable jaw set with aluminium jaws



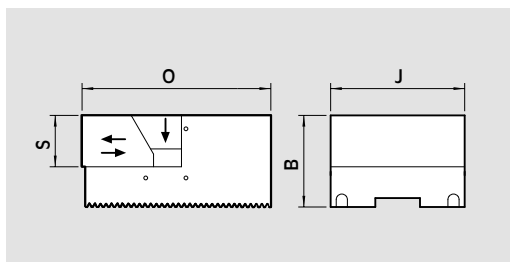
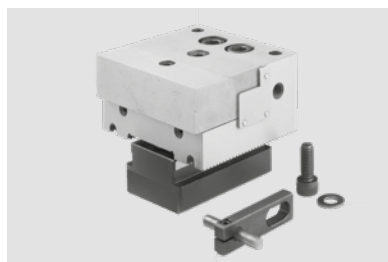
Modello - Type	Codice - Id. No.	B mm	C mm	J mm	O mm	S mm	Peso - Weight kg
CV 60	77584165 *	40	15	60	69.5	23	1.2
CV 90	77584265 *	45	20	90	80	25	2.7

Set supporto mobile con ganasce tenere in acciaio - Movable jaw set with steel soft jaws



Modello - Type	Codice - Id. No.	B mm	C mm	J mm	O mm	S mm	Peso - Weight kg
CV 60	77584166 *	40	15	60	69.5	23	1.4
CV 90	77584266 *	45	20	90	80	25	3

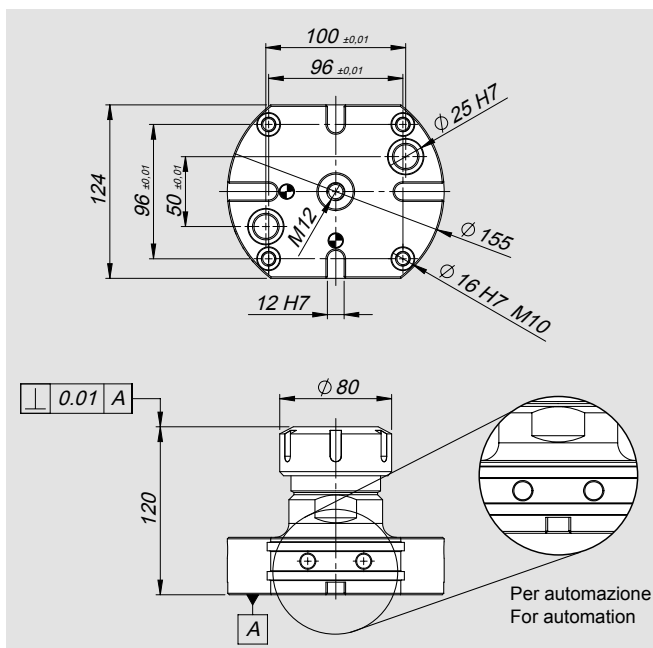
Set supporto mobile con ganaschia in acciaio temprata - Movable jaw set with steel hardened jaw



Modello - Type	Codice - Id. No.	B mm	J mm	O mm	S mm	Peso - Weight kg
CV 60	77584167 *	40	60	69.5	23	1.4
CV 90	77584267 *	45	90	80	25	3

* Codici validi solo per montaggio su colonna CIVI
* Codes valid only for mounting on CIVI column

MANDRINO PORTA PINZA ER50 - COLLECT CHUCK ER50



Codice - Id. No.
46233500

Esempio di impiego
Application example





SINTERGRIP



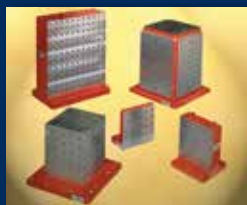
APS



PLUS 5



TDM



FMS



TC



MC



CLAK SYSTEM



IMG



V5



GENIUS



CIVI SINTERGRIP



CAM SYSTEM



HOLDING CLAMPS



VARI CLAMP



TWIN VISE



JAWS



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