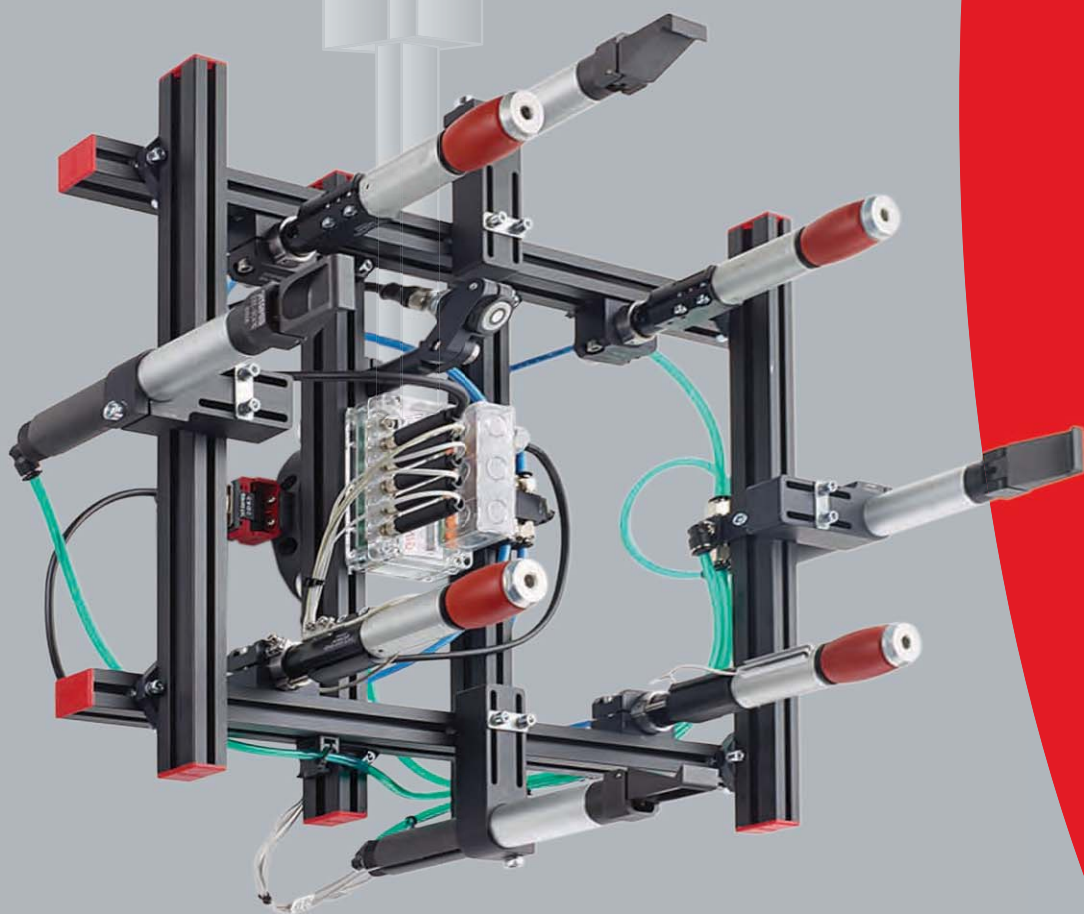
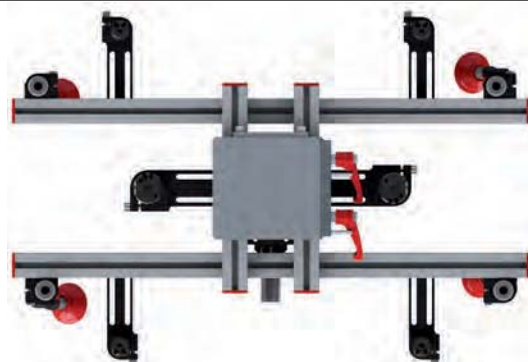


Gimatic Plastics

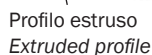


End of Arm Tooling (EOAT)

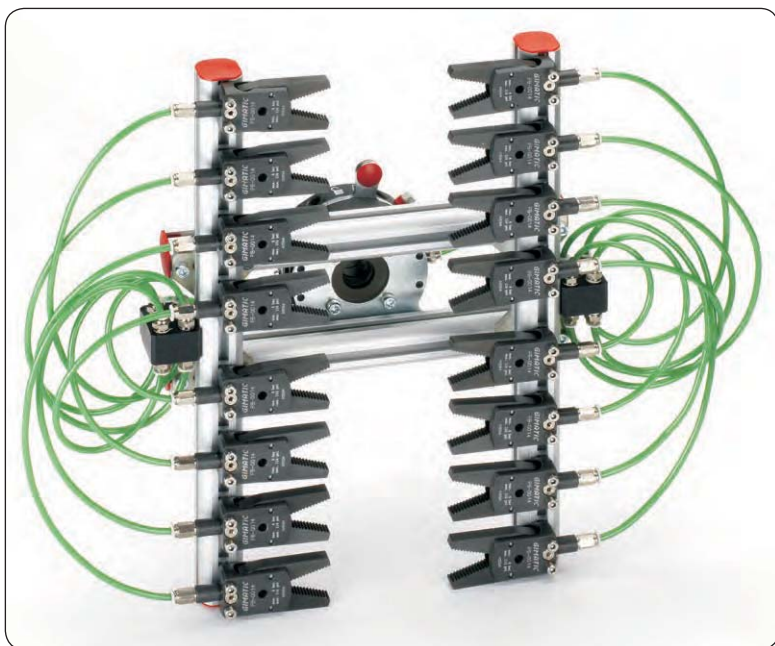


- estrarre il pezzo dallo stampo;
- afferrarlo saldamente;
- separarlo dalle materozze;
- afferrare le materozze dopo il taglio;
- scaricare le materozze nel riciclatore;
- depositare il pezzo smaterozzato su pallet o nastro trasportatore.

- to take the moulded part out of the mould;
- to grip it firmly;
- to separate the moulded part from the sprue;
- to grip the sprue after cutting;
- to drop the sprue in the recycling machine;
- to unload the moulded part onto a pallet or a conveyor.

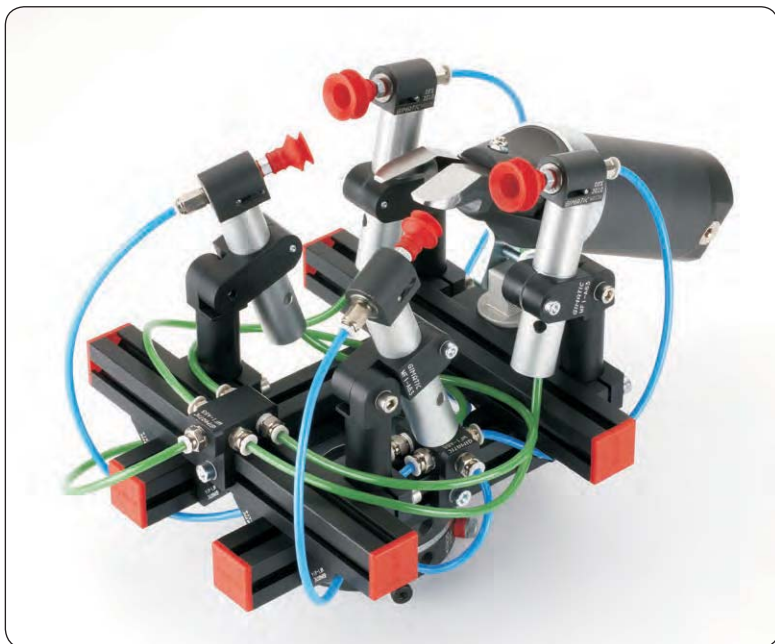


Esempi di applicazione / Application examples



Pinze per materozze usate per la manipolazione di piccoli pezzi prelevati da stampo a 16 impronte

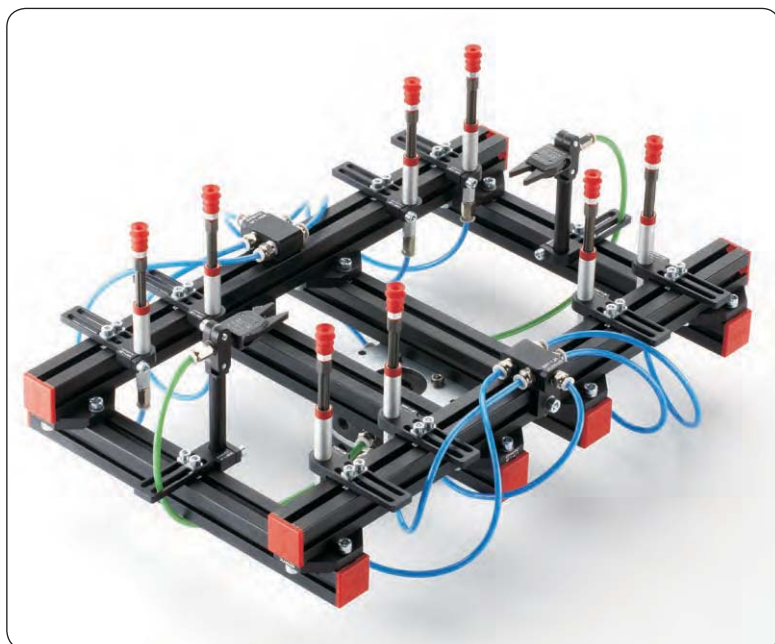
Sprue grippers used for the handling of small parts out of a 16-cavity mould



Pinze OFX usate per approssicare le ventose in uno spazio angusto

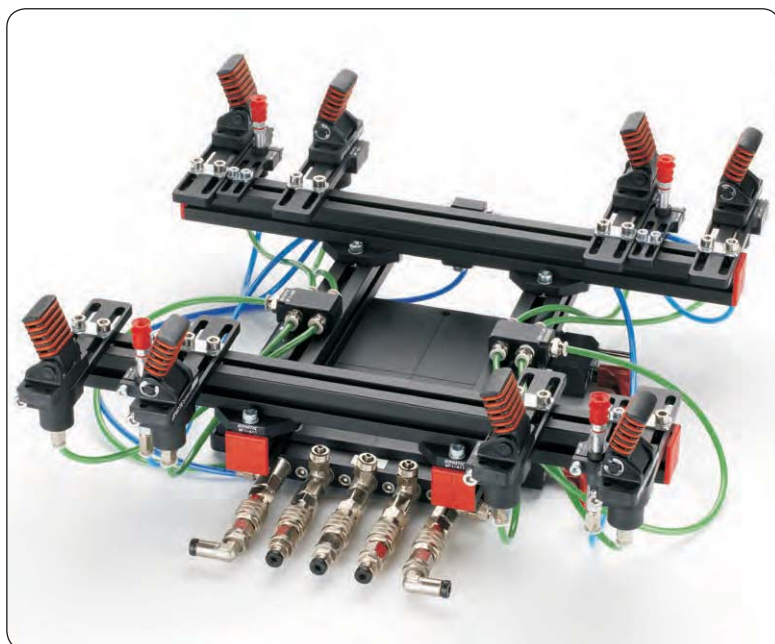
OFX grippers used for the vacuum cup approaching in a tight space

Esempi di applicazione / Application examples



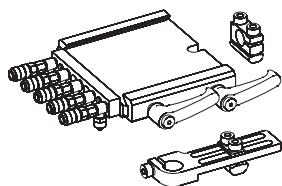
Ventose montate su sospensioni anti-rotazione

Vacuum cups mounted on non-rotative suspensions



Pinze mono-dito usate per tenere 4 pezzi per attrito

One-finger angular grippers used to hold 4 parts by friction



10

MFI

NEW

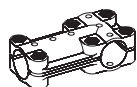
Moduli di fissaggio universali
Universal mounting clamps



81

MFP

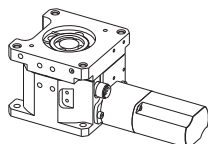
Moduli di fissaggio in plastica
Plastic Fastening Modules



85

MFM

Moduli di fissaggio in metallo
Metal Fastening Modules

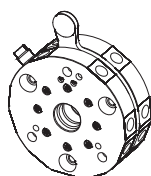


100

EQC

NEW

Cambia utensile elettrico
Electric quick changer



108

QC

NEW

Cambia utensile
Quick changer



122

CAQC / CBQC

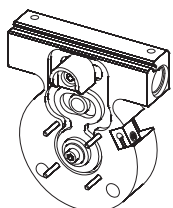
Modulo di connessione elettrica
Electrical connection module



125

LOQC

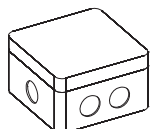
Unità di blocco per cambia utensili QC
Lock unit for QC quick changers



128

AQC

Attuatore pneumatico per cambia utensile QC
Pneumatic actuator for quick changer QC



134

SB

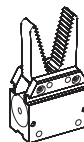
Scatola di derivazione per sensori
Sensor box



148

AGG

Pinza per agganciamento
Gripper for engagement



150

AA

Pinze autocentranti per materozze
Self-centering sprue grippers



154

PB

NEW

Pinze non autocentranti per materozze
Non-selfcentering sprue grippers



170

BB

Pinze in zama non autocentranti per materozze
Non-selfcentering sprue grippers in zamak

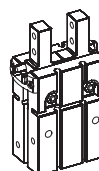


172

DD

NEW

Pinze autocentranti per materozze
Selfcentering sprue grippers



176

GS

NEW

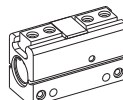
Pinze parallele a 2 griffe
2-jaw parallel-acting grippers



184

SGP-S

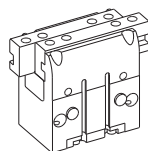
Pinze parallele a 2 griffe
2-jaw parallel-acting grippers



190

SZ

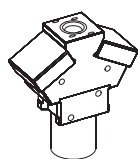
Pinze parallele a 2 griffe
2-jaw parallel-acting grippers



192

PQ

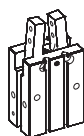
Pinze parallele a 2 griffe
2-jaw parallel-acting grippers



196

PT

Pinza ad aghi
Needle gripper



198

GW

Pinze angolari a 2 griffe
2-jaw angular-acting grippers



204

TFA

Mini pinze angolari a due griffe
2-jaw angular-acting mini grippers



208

MFD / MFU

Pinze ad espansione
Air Hands



215

IFU

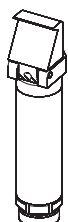
Micro pinze ad espansione
ID expansion micro grippers



216

OFD

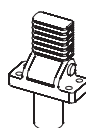
Pinza elastica mono-dito
One finger elastic module



218

OFA / OFR / OFS / OFR-G

Pinze per staffaggio
Grippers for clamping



230

OFP

Pinze per staffaggio angolari,
con dito in plastica
Angular grippers for clamping
with finger in polymer



234

OFX

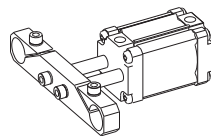
Pinze per staffaggio perpendicolari
Perpendicular grippers for clamping



236

OFL

Cilindro a corsa breve
Short stroke cylinder



238

OFB

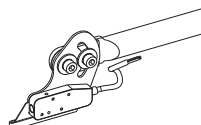
Cilindro guidato
Guided cylinder



242

OFC

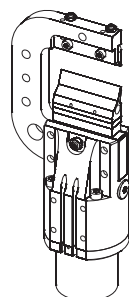
Mini cilindri
Mini cylinders



246

GNB

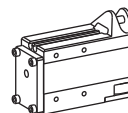
Portalama
Blade holder



248

GN

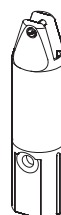
Taglierini a ghigliottina
Thrust Cut Nippers



250

GNS

Attuatori pneumatici per taglierini
Air nipper actuators



256

GN

Attuatori pneumatici per taglierini
Air nipper actuators



258

G.N

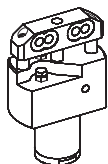
Lame per taglierini pneumatici serie GN
Blades for GN pneumatic nippers



260

JG

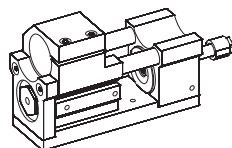
Griffe per taglierini pneumatici serie GN
Fingers for GN pneumatic nippers



262

ZG

Slitte per taglierini pneumatici serie GN
Slides for GN pneumatic nippers



264

ZJ

Slitta a doppia corsa
Double stroke slide

NEW



266

V01 / V02

Ventose
Vacuum cups



268

AV

Nippli (per ventose serie V)
Nipples (for vacuum cups series V)



270

VP.

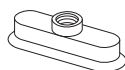
Ventose
Vacuum cups



271

AVP.

Nippli (per ventose serie VP.)
Nipples (for vacuum cups series VP.)



272

VS.

Ventose
Vacuum cups



276

AVS.

Nippli (per ventose serie VS.)
Nipples (for vacuum cups series VS.)



277

WS.

Ventose
Vacuum cups



281

VD.

Ventose
Vacuum cups



282

AVD.

Nippli (per ventose serie VD.)
Nipples (for vacuum cups series VD.)



283

WD.

Ventose
Vacuum cups



284

VG.

Ventose
Vacuum cups



290

PAAT

Ventose
Vacuum cups



291

VA

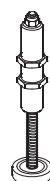
Giunti angolari
Elbow arms



292

VAC

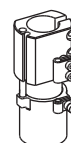
Giunti angolari
Elbow arms



293

VSX

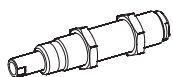
Pressore a molla
Spring rod



294

VMK

Sospensioni universali
Universal suspensions

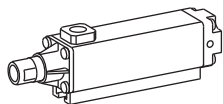


298

VS

Sospensioni
Suspensions

NEW



314

VAQ

Attuatori a depressione
Vacuum actuator



320

PV.

Pompe
Pumps



322

RG.

Raccordi
Fittings

NEW



330

AF

Nippli filettati
Threaded nipples



332

VITE

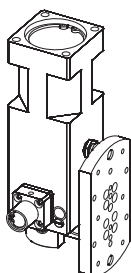
Dadi
Nuts



333

TU

Tubi flessibili
Hoses



334

RBT

Ribaltatori
Tilt units



338

OFN

Ribaltatore pneumatico per piccoli EOAT
Pneumatic tilt unit for small EOATs



340

Sensori
Sensors

NEW

346

Indice dei codici
Code index

352

Distributori Plastics
Distributors Plastics

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We reserve the right to make alterations.

Cambia utensile (lato robot)

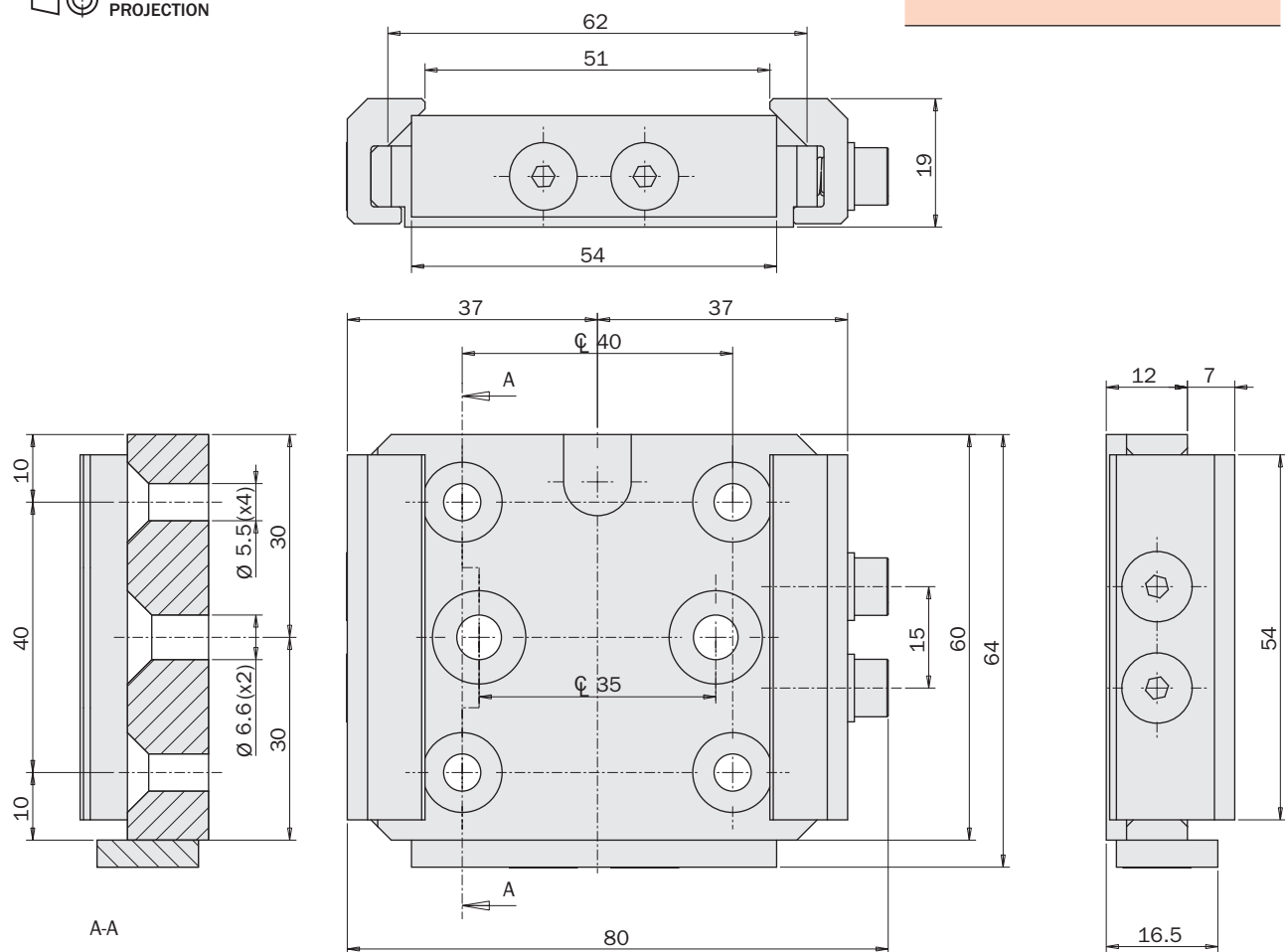
Quick changer (robot side)

NEW

MFI-A343E

Peso / Weight

165 g



Cambia utensile (lato pinza)

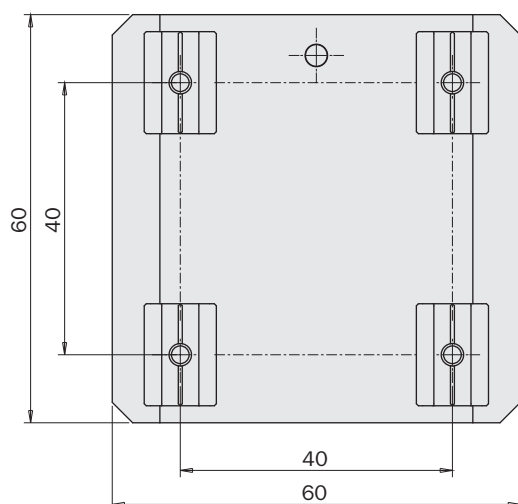
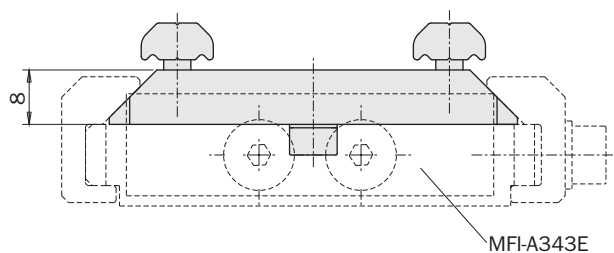
Quick changer (gripper side)

NEW

MFI-A344

Peso / Weight

65 g

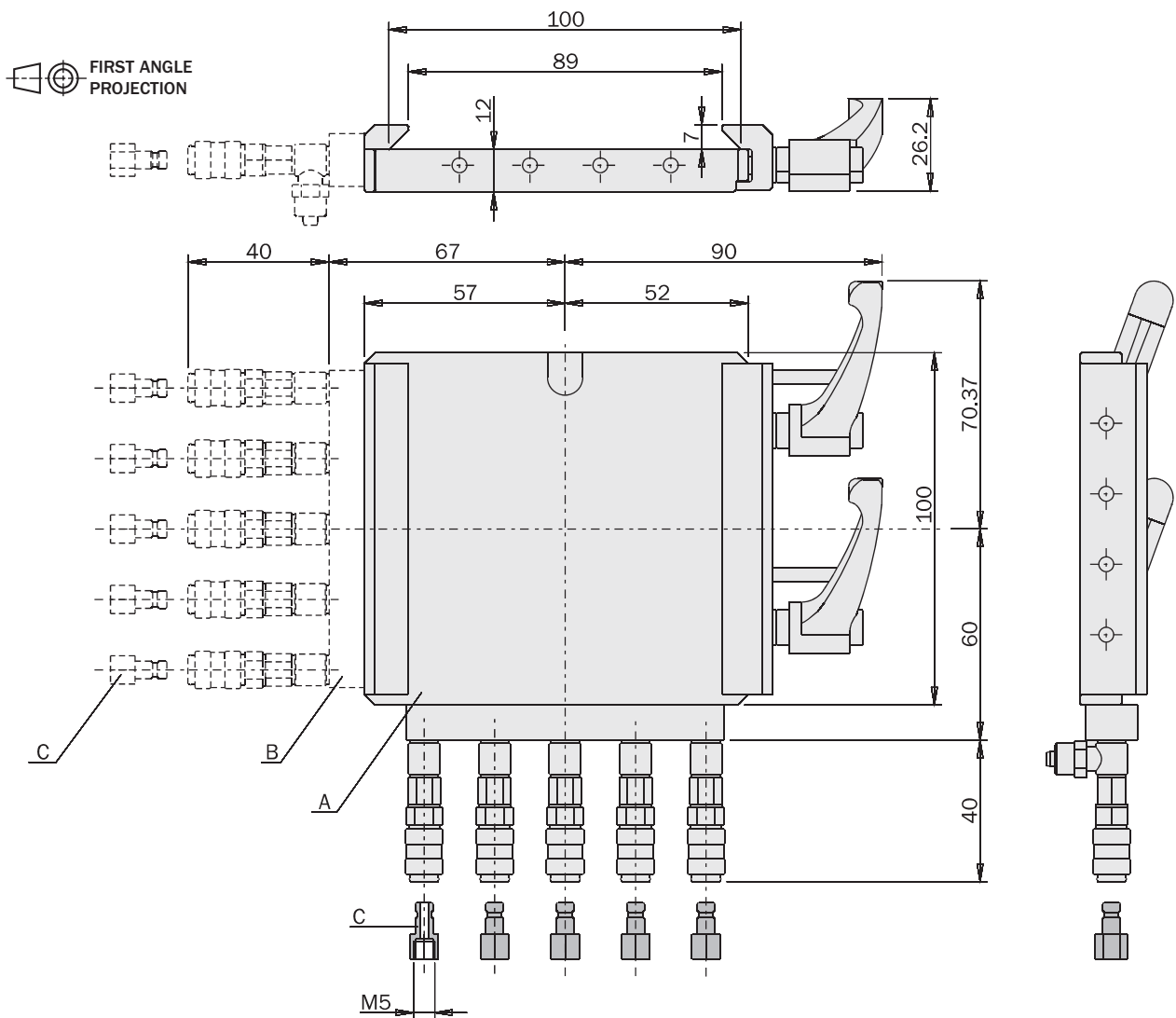
FIRST ANGLE
PROJECTION

Esempio di utilizzo / Application example



Cambia utensile (lato robot)

Quick changer (robot side)



	MFI-A40	MFI-A130	MFI-A133	MFI-A135
Peso / Weight	500 g	620 g	140 g	17 g

MFI-A40



A
MFI-A130



B
MFI-A133



C
MFI-A135



Innesto rapido (n° 5 pezzi)
Quick coupling (5 pieces)

Cambia utensile (lato pinza)

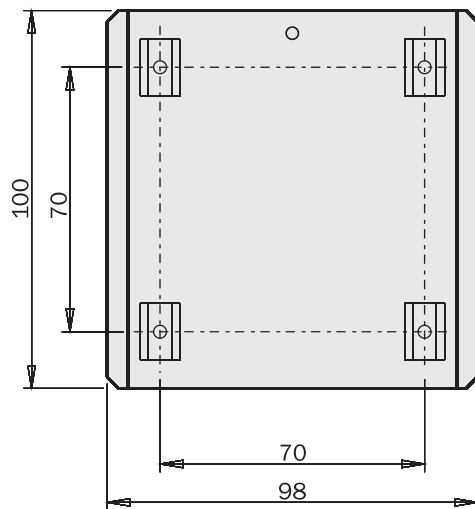
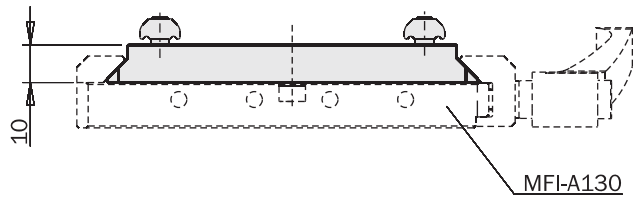
Quick changer (gripper side)



MFI-A41

Peso / Weight

270 g

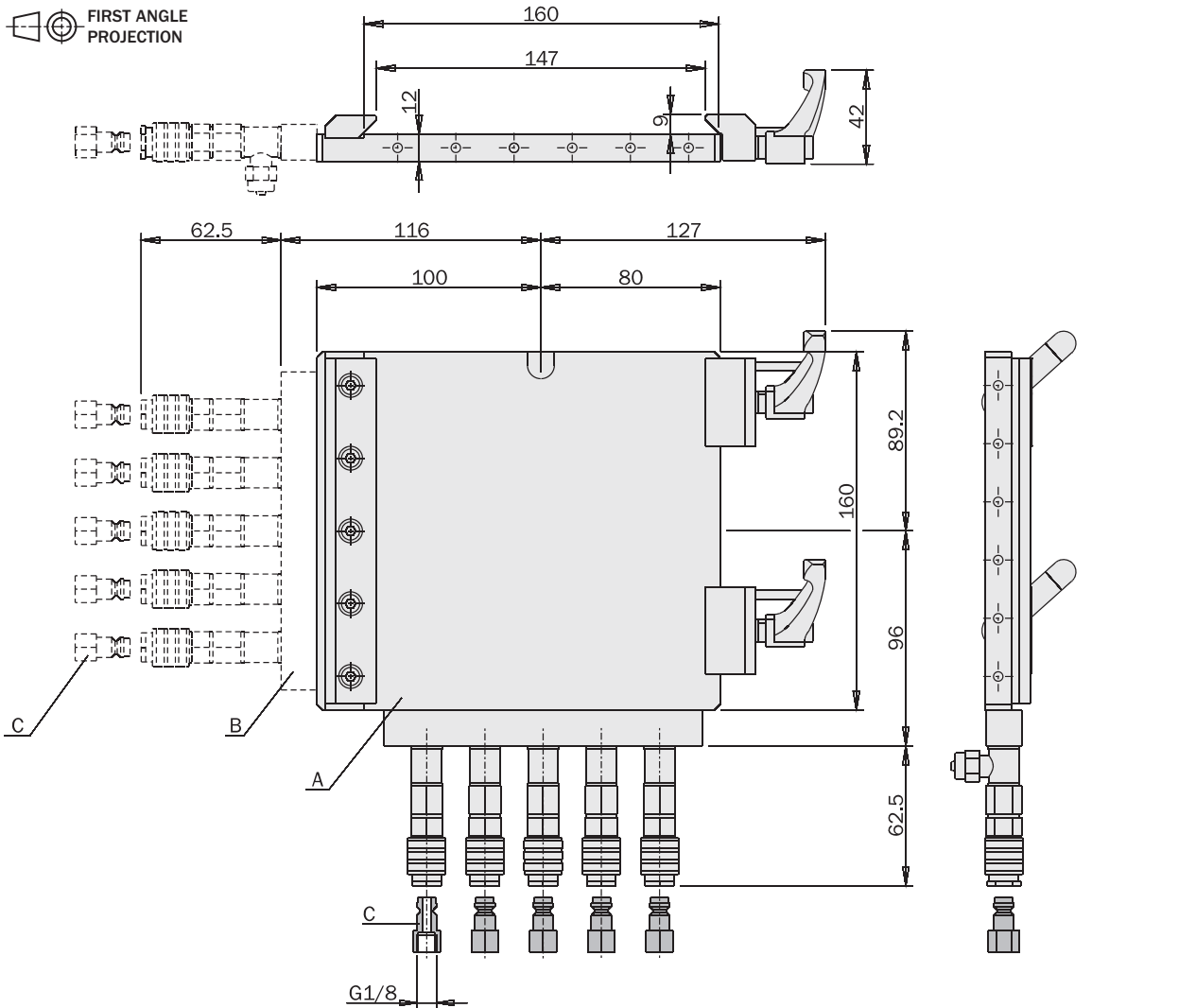


Esempio di utilizzo / Application example



Cambia utensile (lato robot)

Quick changer (robot side)

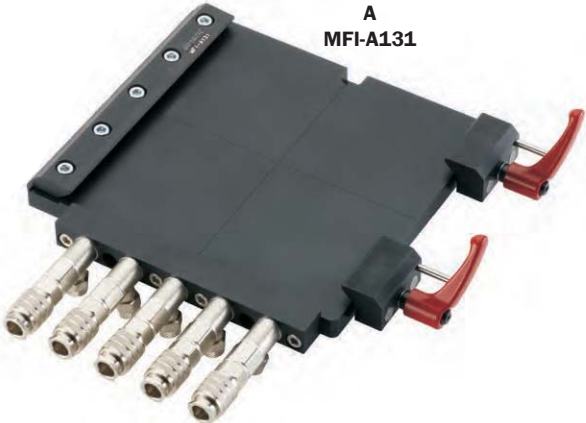


	MFI-A42	MFI-A131	MFI-A132	MFI-A134
Peso / Weight	1270 g	1650 g	450 g	40 g

MFI-A42



A
MFI-A131



B
MFI-A132



C
MFI-A134

Innesto rapido (n° 5 pezzi)
Quick coupling (5 pieces)

Cambia utensile (lato pinza)

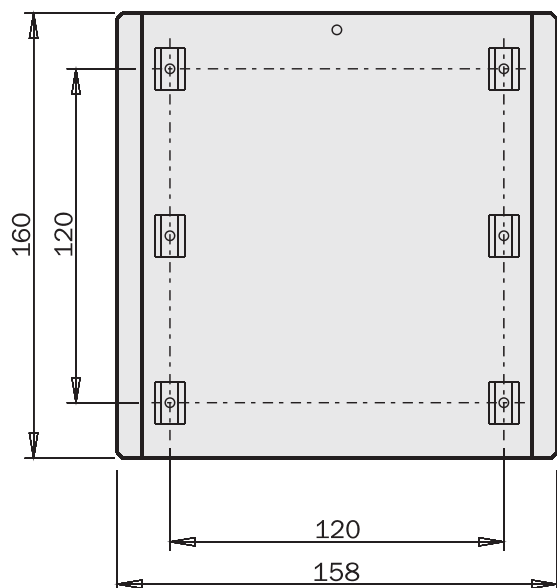
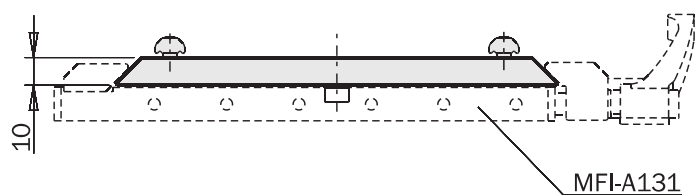
Quick changer (gripper side)



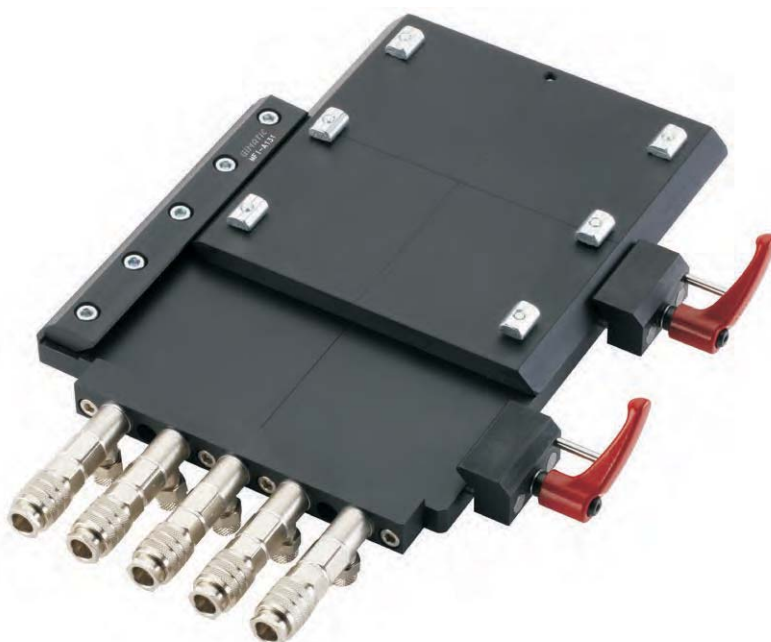
MFI-A43

Peso / Weight

670 g



Esempio di utilizzo / Application example

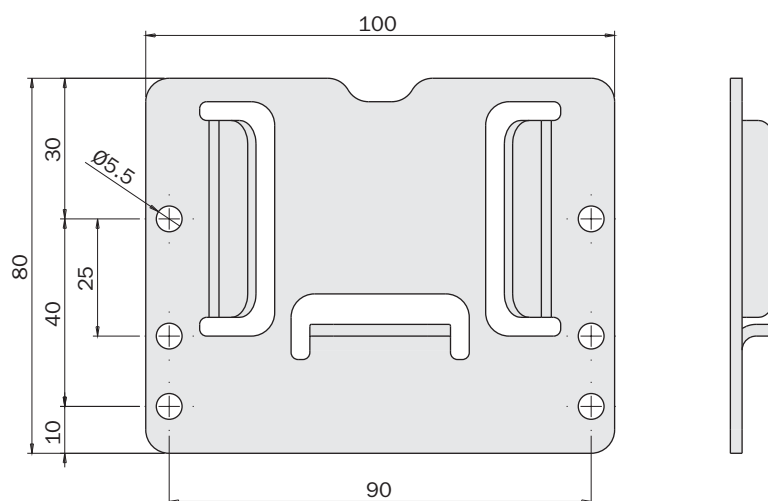


Magazzino per EOAT MFI-A344-H
(da usare con MFI-A344, 60x60mm)

EOAT storage MFI-A344-H
(to be used with MFI-A344, 60x60mm)



Dimensioni (mm) / Dimensions (mm)



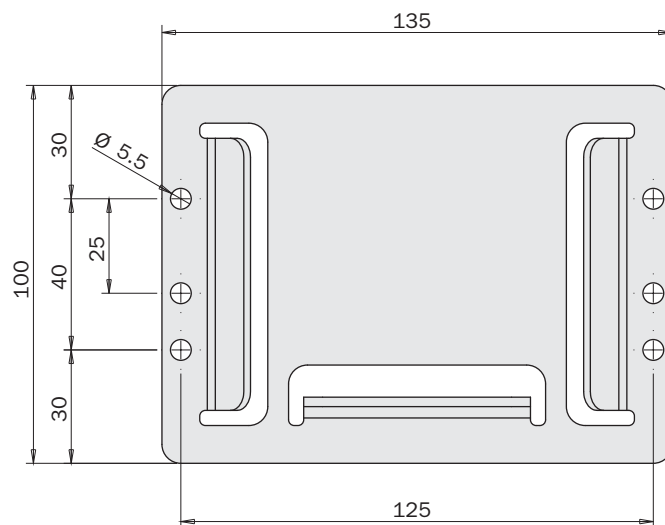
FIRST ANGLE
PROJECTION

Magazzino per EOAT MFI-A41-H
(da usare con MFI-A41, 98x100mm)

EOAT storage MFI-A41-H
(to be used with MFI-A41, 98x100mm)



Dimensioni (mm) / Dimensions (mm)



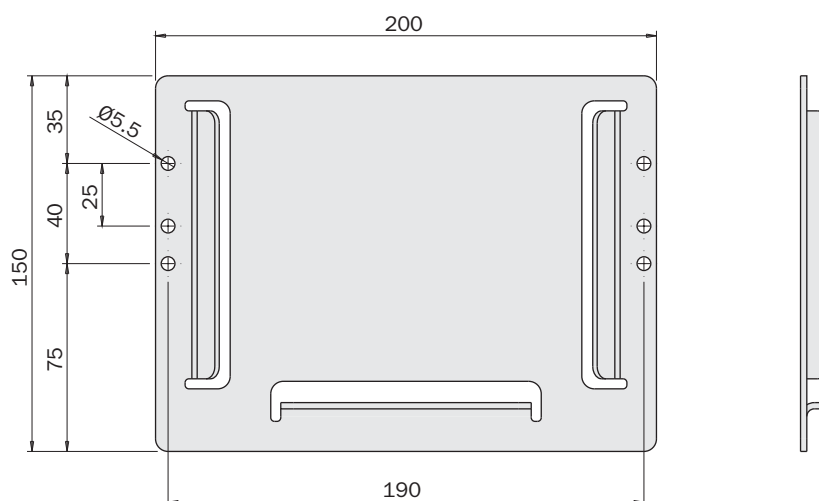
FIRST ANGLE
PROJECTION

Magazzino per EOAT MFI-A43-H
(da usare con MFI-A43, 158x160mm)

EOAT storage MFI-A43-H
(to be used with MFI-A43, 158x160mm)



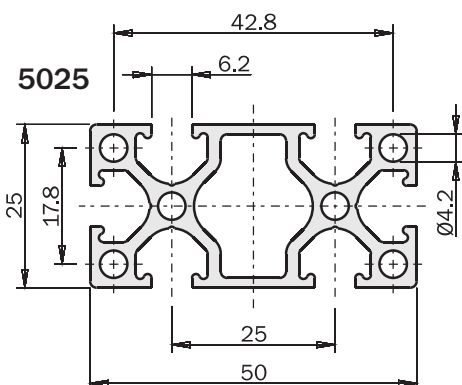
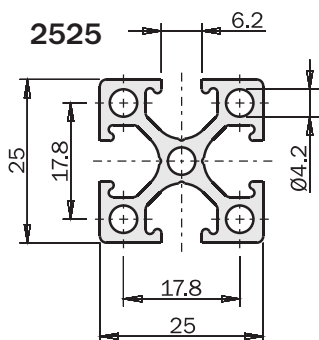
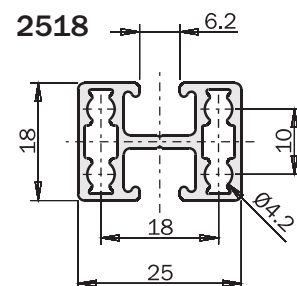
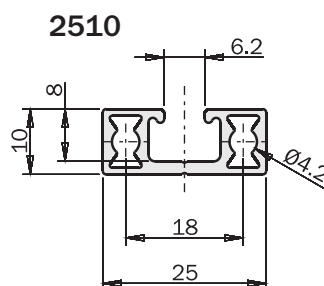
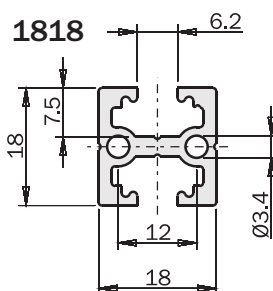
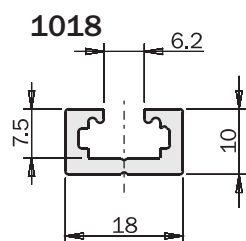
Dimensioni (mm) / Dimensions (mm)



FIRST ANGLE
PROJECTION

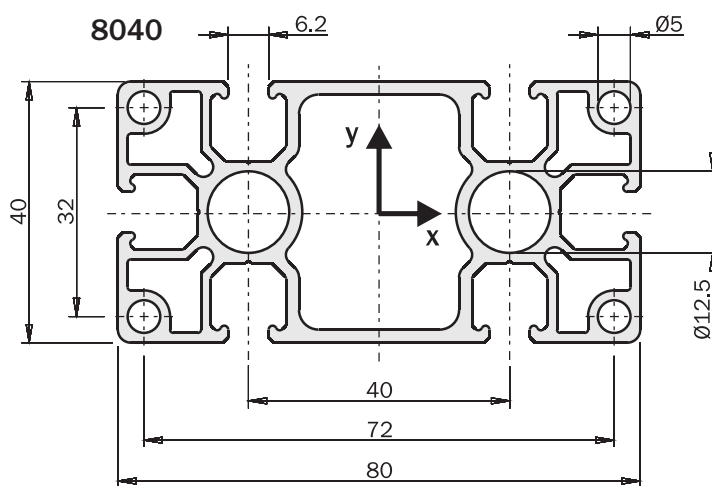
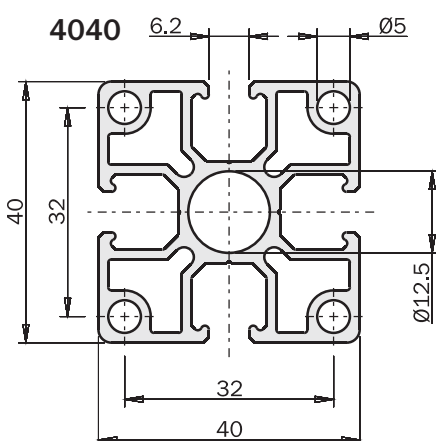
Travi quadre

Square beams



Tappi per estruso
Plugs for profile

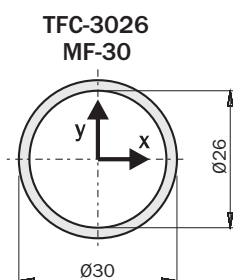
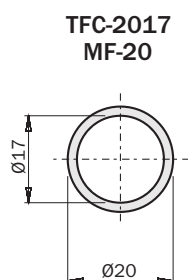
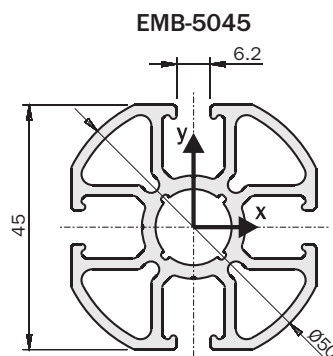
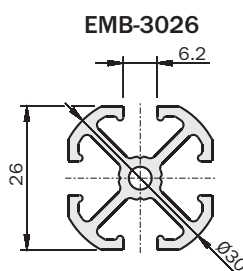
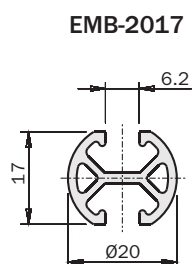
Confezione da 10 pezzi
10 pieces package



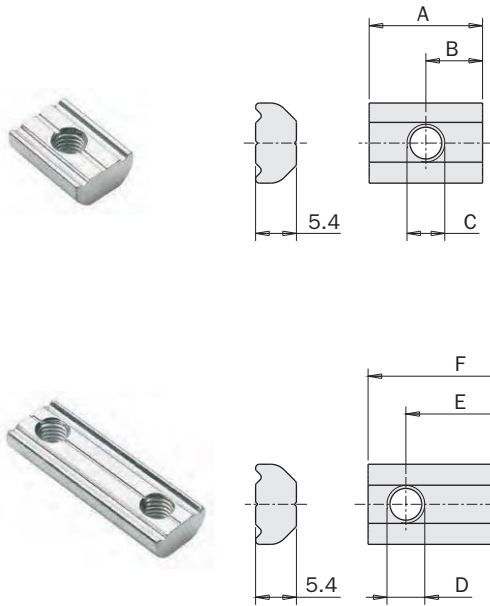
			Lunghezza Length	Peso Weight	Ix [mm ⁴]	Iy [mm ⁴]	Tappi Plugs	
EMB-1018-1000	EMF-1018-1000		1 m	250 g	1084	3855	MFI-A24	
EMB-1018-2000	EMF-1018-2000		2 m	500 g	1084	3855	MFI-A24	
EMB-1818-1000	EMF-1818-1000		1 m	400 g	4381	6245	MFI-A23	
EMB-1818-2000	EMF-1818-2000		2 m	800 g	4381	6245	MFI-A23	
EMB-2510-1000	EMF-2510-1000		1 m	280 g	1305	7300	MFI-A27	
EMB-2510-2000	EMF-2510-2000		2 m	560 g	1305	7300	MFI-A27	
EMB-2518-1000	EMF-2518-1000		1 m	400 g	5647	11544	MFI-A28	
EMB-2518-2000	EMF-2518-2000		2 m	800 g	5647	11544	MFI-A28	
EMB-2525-1000	EMF-2525-1000		1 m	610 g	16298	16289	MFI-A21	
EMB-2525-2000	EMF-2525-2000		2 m	1220 g	16298	16289	MFI-A21	
EMB-5025-1000	EMF-5025-1000		1 m	1040 g	28882	111103	MFI-A22	
EMB-5025-2000	EMF-5025-2000		2 m	2080 g	28882	111103	MFI-A22	
EMB-4040-1000	EMF-4040-1000		1 m	1300 g	86387	86387	MFI-A25	
EMB-4040-2000	EMF-4040-2000		2 m	2600 g	86387	86387	MFI-A25	
EMB-8040-1000	EMF-8040-1000		1 m	2180 g	155462	587130	MFI-A26	
EMB-8040-2000	EMF-8040-2000		2 m	4360 g	155462	587130	MFI-A26	

Travi tonde

Round beams



		Materiale Material	E [GPa]	Lunghezza Length	Peso Weight	I _x [mm ⁴]	I _y [mm ⁴]	Tappi Plugs	
EMB-2017-1000		Alluminio Aluminum	67	1 m	340 g	2534	5003	MFP-K29	
EMB-2017-2000		Alluminio Aluminum	67	2 m	680 g	2534	5003	MFP-K29	
EMB-3026-1000		Alluminio Aluminum	67	1 m	700 g	15842	15842	MFP-K28	
EMB-3026-2000		Alluminio Aluminum	67	2 m	1400 g	15842	15842	MFP-K28	
EMB-5045-1000		Alluminio Aluminum	67	1 m	1665 g	100773	100773	MFP-K50	
EMB-5045-2000		Alluminio Aluminum	67	2 m	3330 g	100773	100773	MFP-K50	
MF-20-1000		Alluminio Aluminum	67	1 m	230 g	3754	3754	MFP-K22	
MF-20-2000	NEW	Alluminio Aluminum	67	2 m	460 g	3754	3754	MFP-K22	
MF-30-1000		Alluminio Aluminum	67	1 m	444 g	17329	17329	MFP-K21	
MF-30-2000	NEW	Alluminio Aluminum	67	2 m	888 g	17329	17329	MFP-K21	
TFC-2017-1000	NEW	Carbonio Carbon composite	105	1 m	130 g	3754	3754	MFP-K22	
TFC-2017-1500		Carbonio Carbon composite	105	1.5 m	195 g	3754	3754	MFP-K22	
TFC-2017-2000	NEW	Carbonio Carbon composite	105	2 m	260 g	3754	3754	MFP-K22	
TFC-3026-1000	NEW	Carbonio Carbon composite	105	1 m	260 g	17329	17329	MFP-K21	
TFC-3026-1500		Carbonio Carbon composite	105	1.5 m	390 g	17329	17329	MFP-K21	
TFC-3026-2000	NEW	Carbonio Carbon composite	105	2 m	520 g	17329	17329	MFP-K21	

Dadi a T**T-Nuts**

	A [mm]	B [mm]	C [mm]	Peso Weight	
MFI-177	15	7.5	M4	5 g	
MFI-025	15	7.5	M5	5 g	
MFI-178	15	7.5	M6	5 g	

	D [mm]	E [mm]	F [mm]	Peso Weight	
MFI-003	M4	8	16	5 g	
MFI-006	M5	10	20	7 g	
MFI-009	M5	15	25	9 g	
MFI-148	M5	17	25	9 g	
MFI-016	M5	22	32	11 g	
MFI-027	M5	25	35	13 g	
MFI-055	M5	28	38	14 g	
MFI-050	M5	30	40	15 g	
MFI-029	M5	35	45	16 g	
MFI-020	M5	40	50	18 g	
MFI-043	M5	50	60	22 g	
MFI-022	M5	60	70	26 g	
MFI-045	M5	90	100	38 g	

Dadi a molla

Mantengono la posizione nella cava senza scivolare durante l'assemblaggio.

Adatti per le travi:

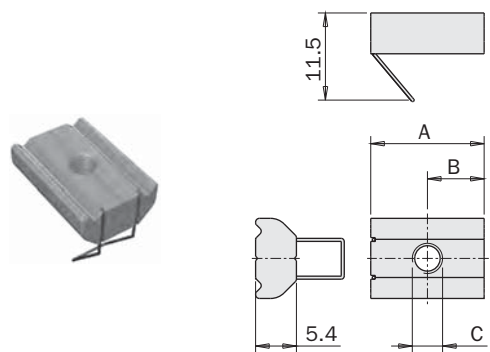
EMB-5045
EMB-3026
EMB/EMF-8040
EMB/EMF-4040
EMB/EMF-5025
EMB/EMF-2525
EMB/EMF-2518
EMB/EMF-2510

Spring nuts

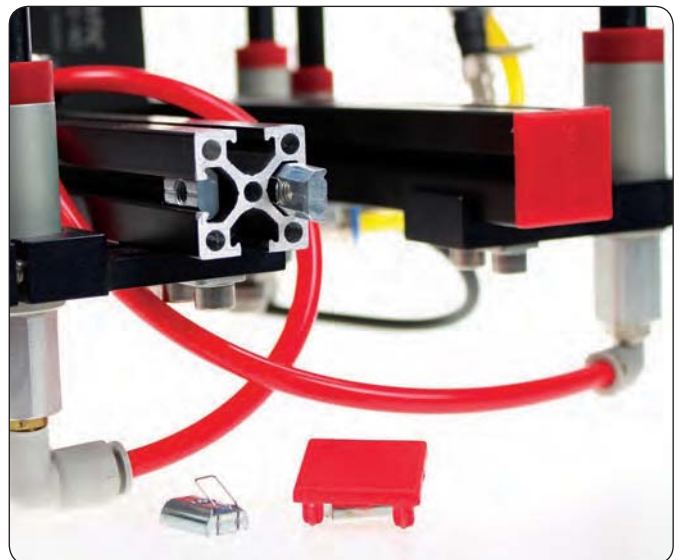
They hold the position in the slot without slipping during assembly.

Suitable for the beams:

EMB-5045
EMB-3026
EMB/EMF-8040
EMB/EMF-4040
EMB/EMF-5025
EMB/EMF-2525
EMB/EMF-2518
EMB/EMF-2510

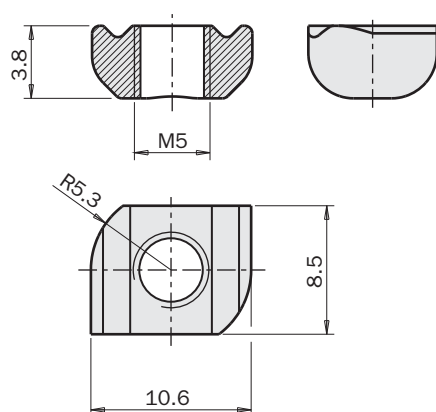


	A [mm]	B [mm]	C [mm]	Peso Weight	
MFI-A329	15	7.5	M4	5 g	
MFI-A331	15	7.5	M5	5 g	



Dado last-minute

Da usare quando si deve aggiungere qualcosa ad un EOAT già assemblato.



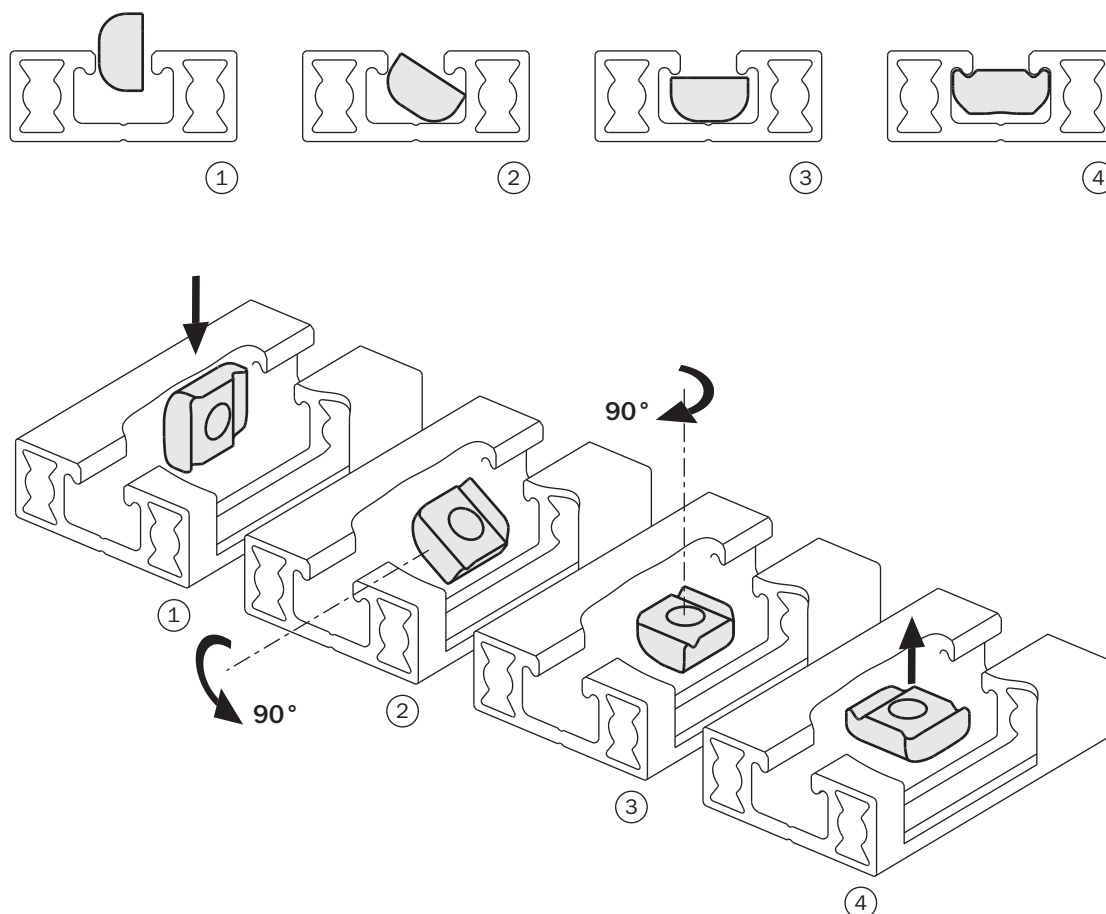
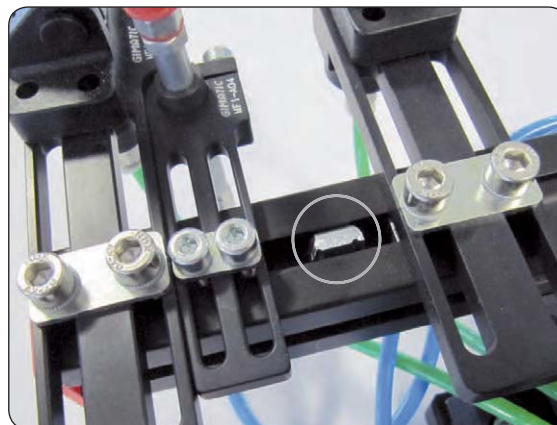
FIRST ANGLE
PROJECTION

Last-minute nut

To be used when you need to add something to an already assembled EOAT.

MFI-243

Peso / Weight	2 g
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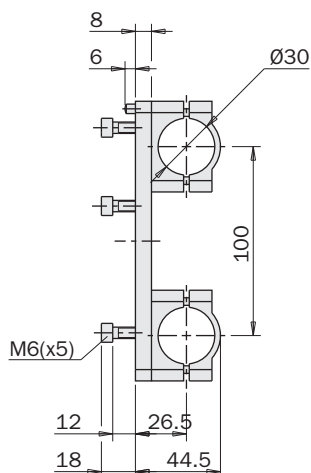
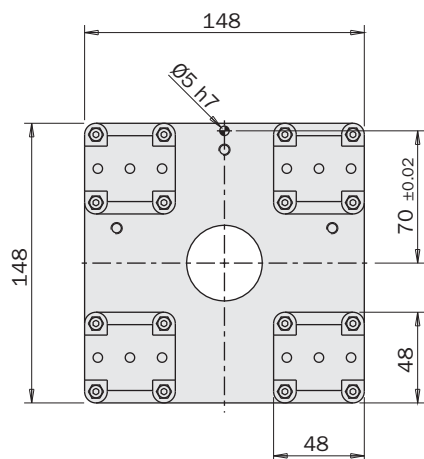


Interfaccia tubi con QC...-B

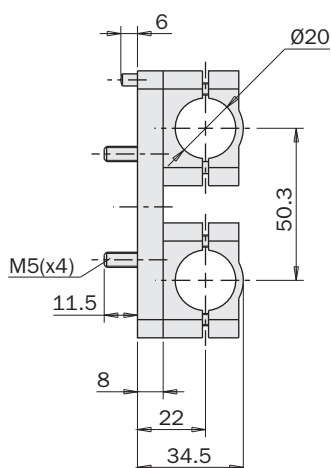
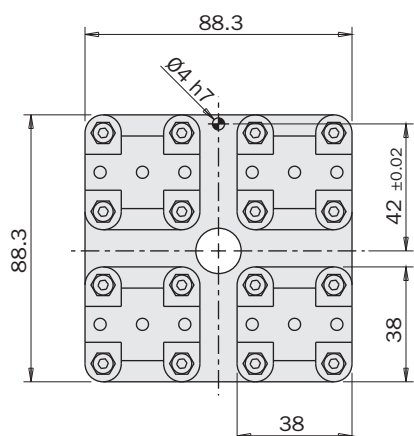
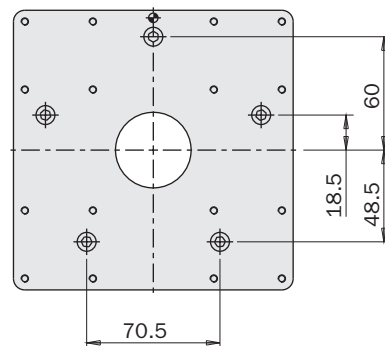
(kit completo di viti)

Interface between tubes and QC...-B

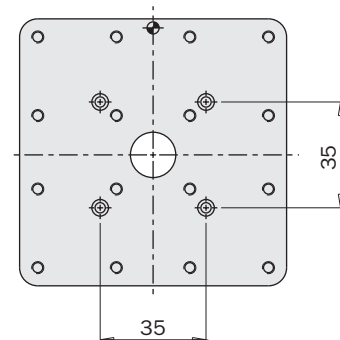
(kit with screws)



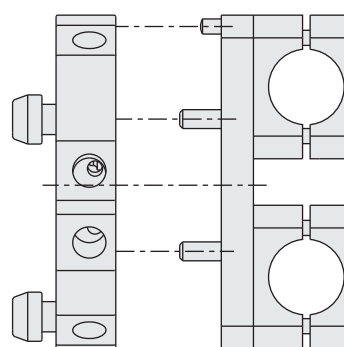
MFI-A313	
Peso / Weight	744 g



MFI-A328	
Peso / Weight	322 g



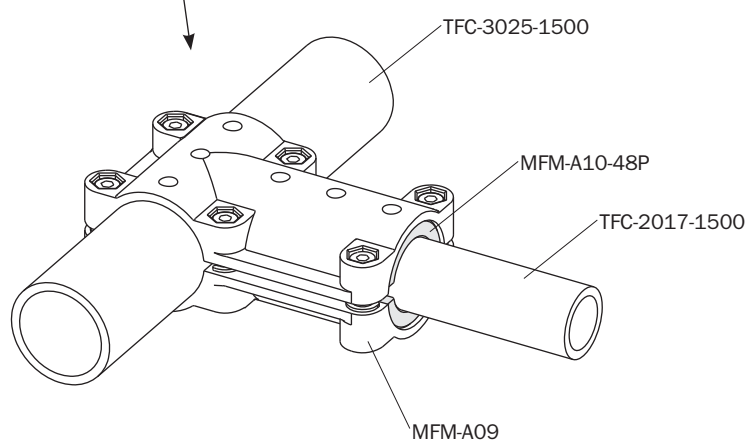
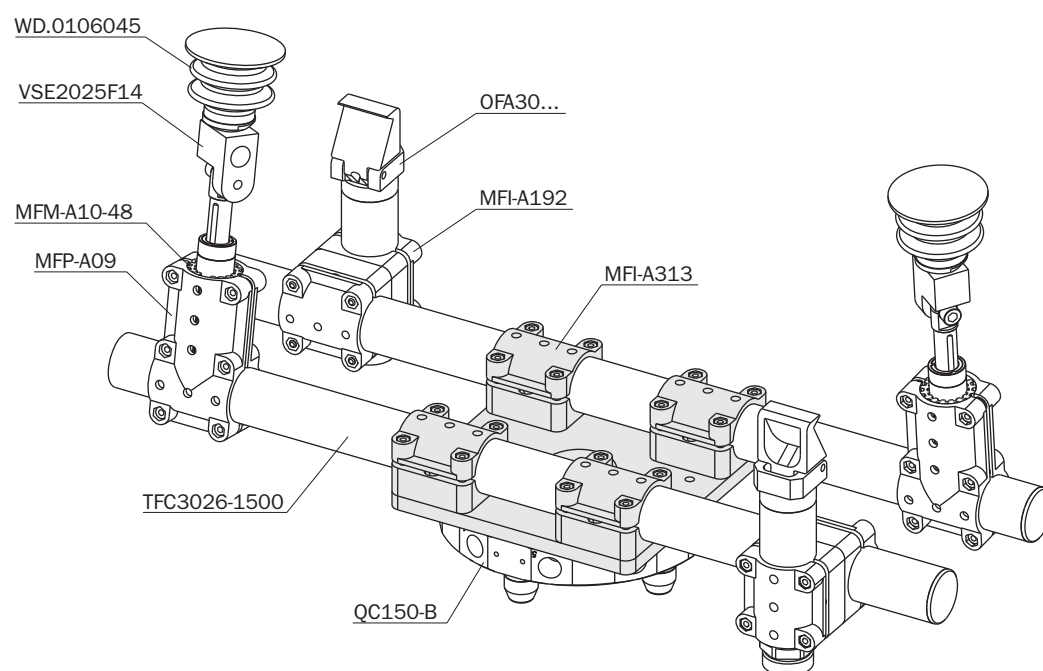
MFI-A328



QC90-B	MFI-A328
QC150-B	MFI-A313
QC160-B	MFI-A313

Esempio di applicazione con TFC

Application example with TFC

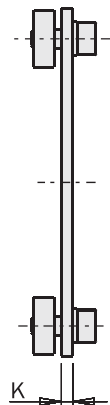
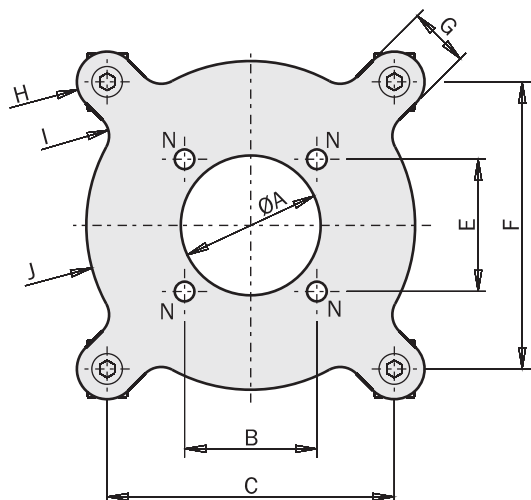


Interfaccia per cambia utensile QC

(kit completo di viti)

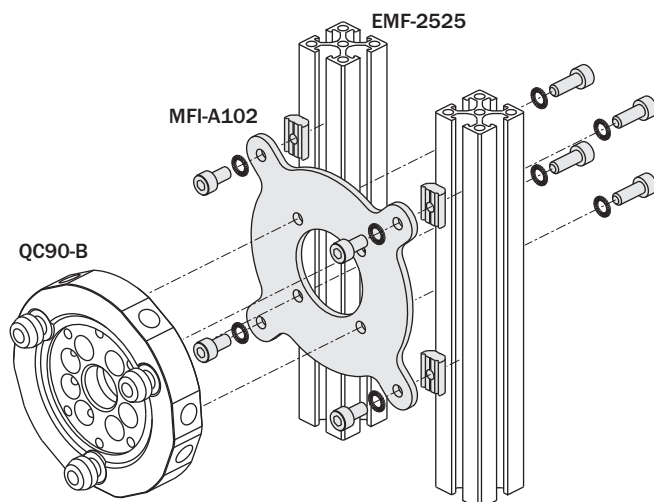
Interface for QC quick changer

(kit with screws)



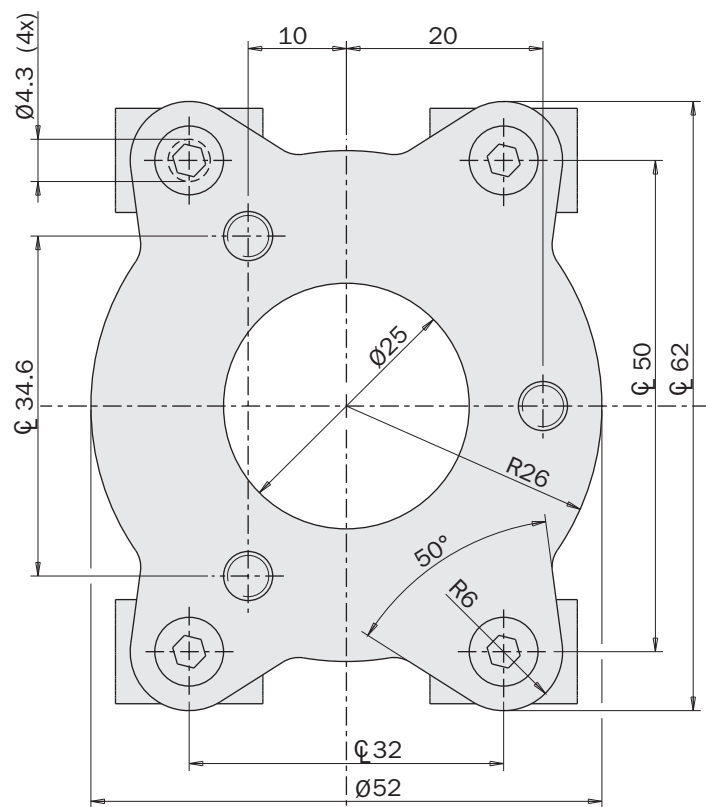
	MFI-A102	MFI-A103
A [mm]	Ø37	Ø70
B [mm]	35	74
C [mm]	76	130
E [mm]	35	52
F [mm]	76	110
G [mm]	16	24
H [mm]	8	12
I [mm]	6	15
J [mm]	43.5	72.5
K [mm]	3	4
N [mm]	Ø5.2	Ø6.2
QC...-B	QC90-B	QC150-B QC160-B
Peso / Weight	190 g	540 g

 FIRST ANGLE
PROJECTION

**Esempio di utilizzo / Application example**

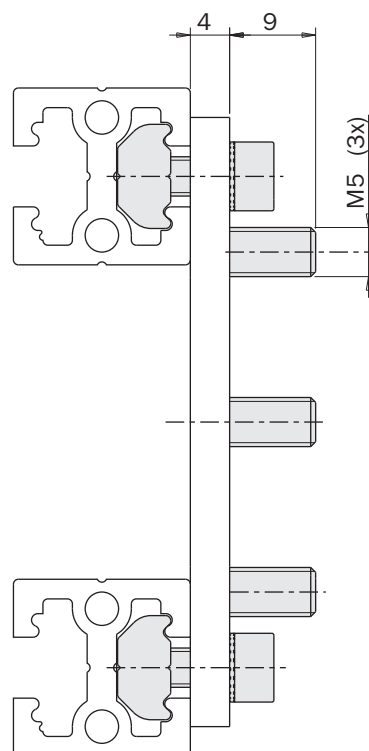
Interfaccia per cambia utensile QC

(kit completo di viti)



Interface for QC quick changer

(kit with screws)

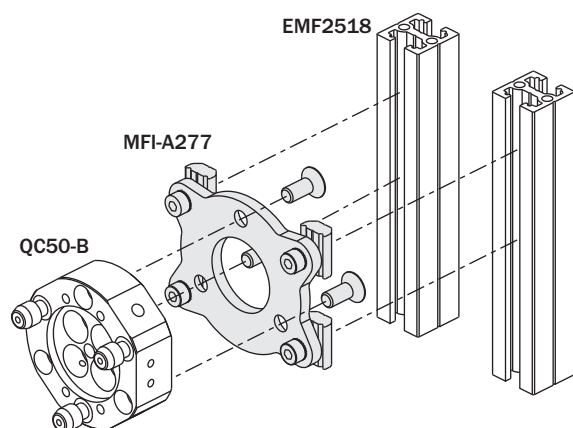


**FIRST ANGLE
PROJECTION**

MFI-A277

QC...-B	QC50-B
Peso / Weight	90 g

Esempio di utilizzo / Application example

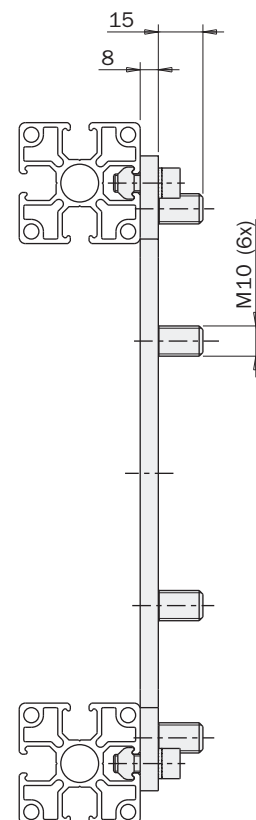
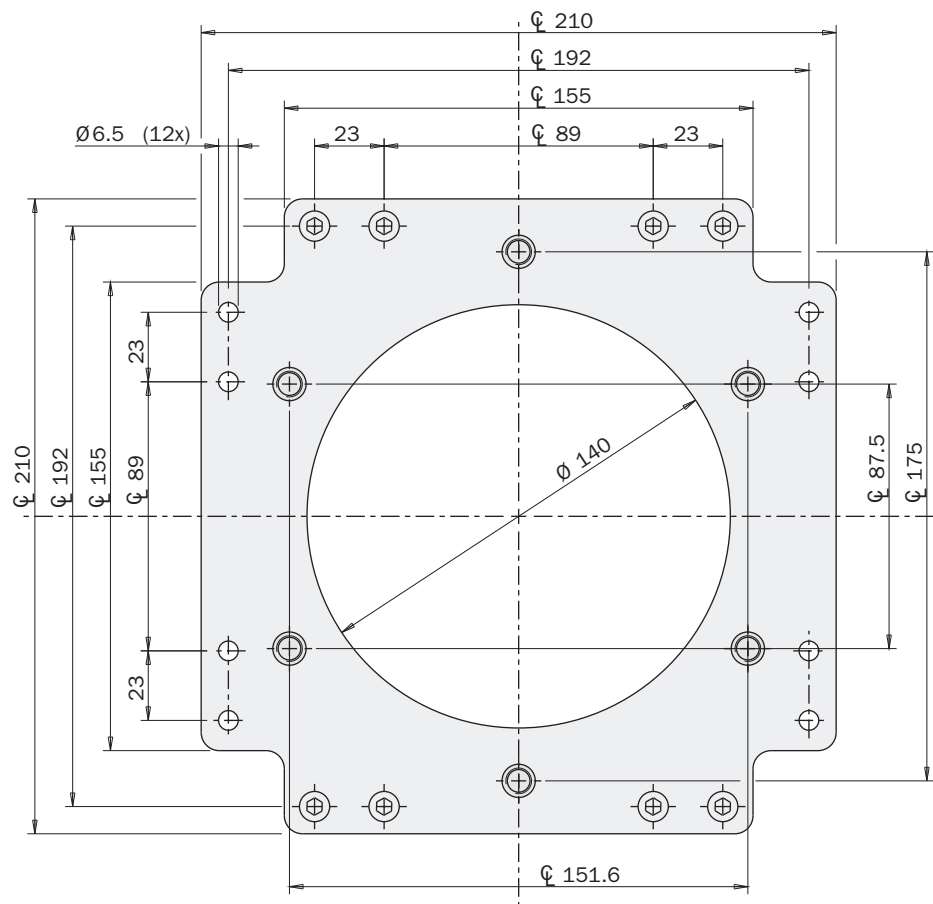


Interfaccia per cambia utensile QC

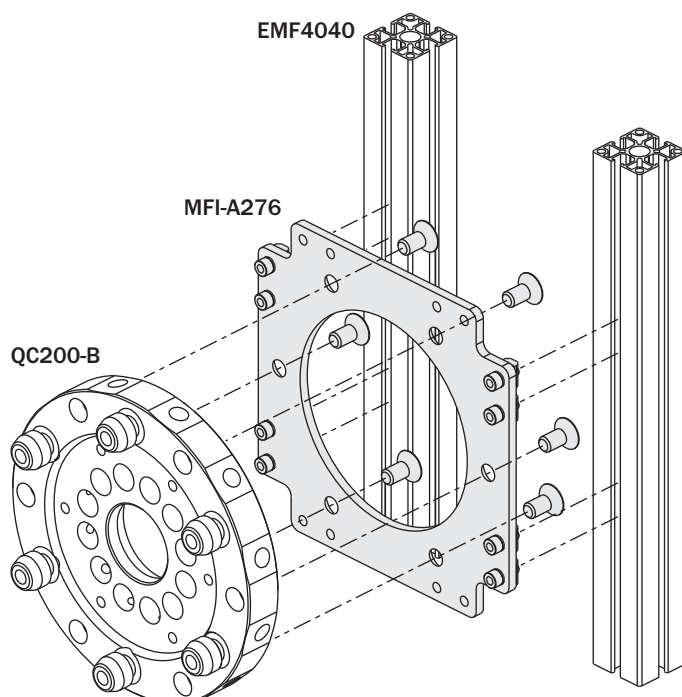
(kit completo di viti)

Interface for QC quick changer

(kit with screws)

**MFI-A276**

QC...-B	QC200-B
Peso / Weight	1850 g

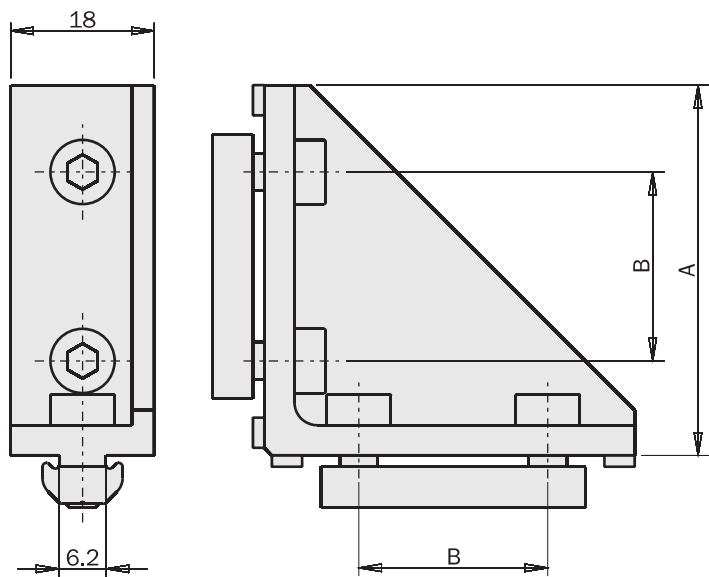
Esempio di utilizzo / Application example

Staffa per fissaggio a 90° di profili

(kit completo di viti)

Angle bracket for profiles

(kit with screws)

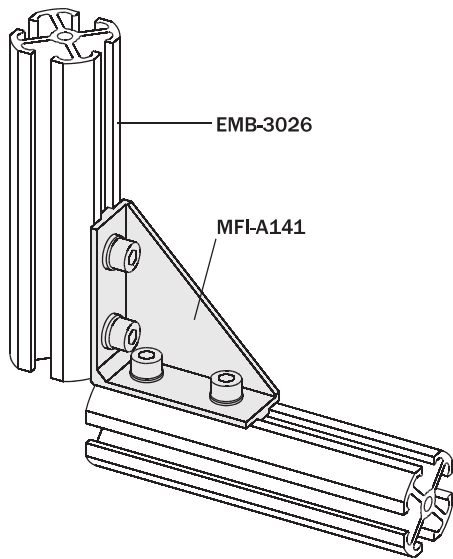
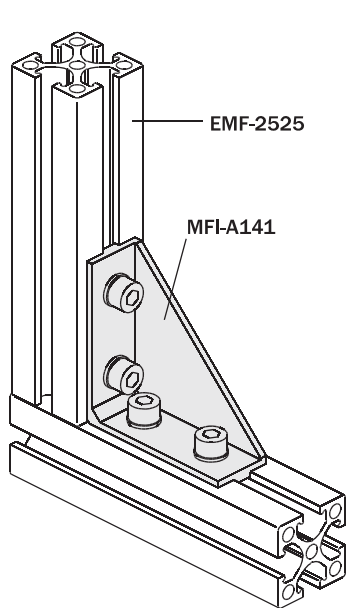


FIRST ANGLE
PROJECTION

	MFI-A140	MFI-A141
A [mm]	24	49
B [mm]	-	25
Peso / Weight	33 g	82 g



Esempio di utilizzo / Application example



Piastra di fissaggio dritta

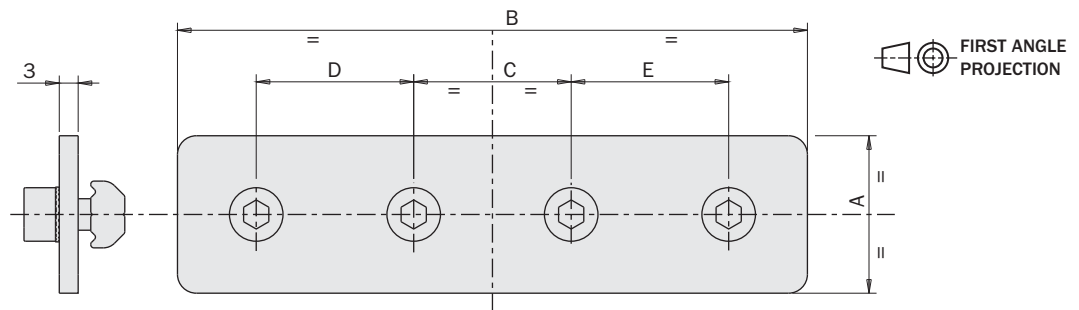
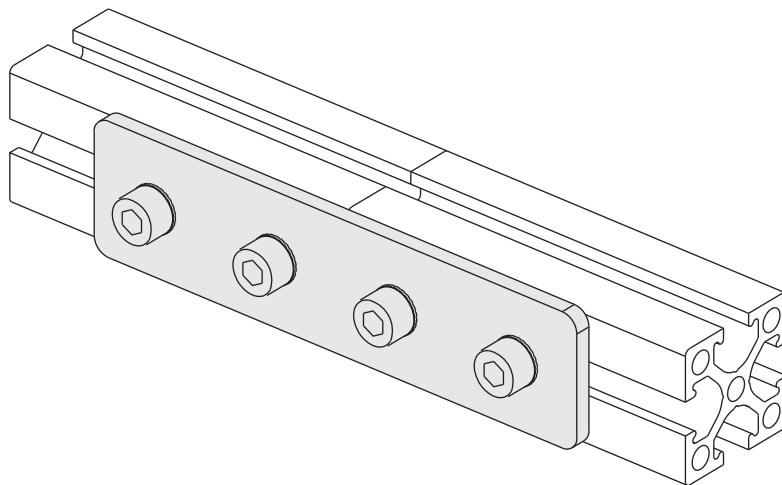
(kit completo di viti)

Straight fixing plate

(kit with screws)

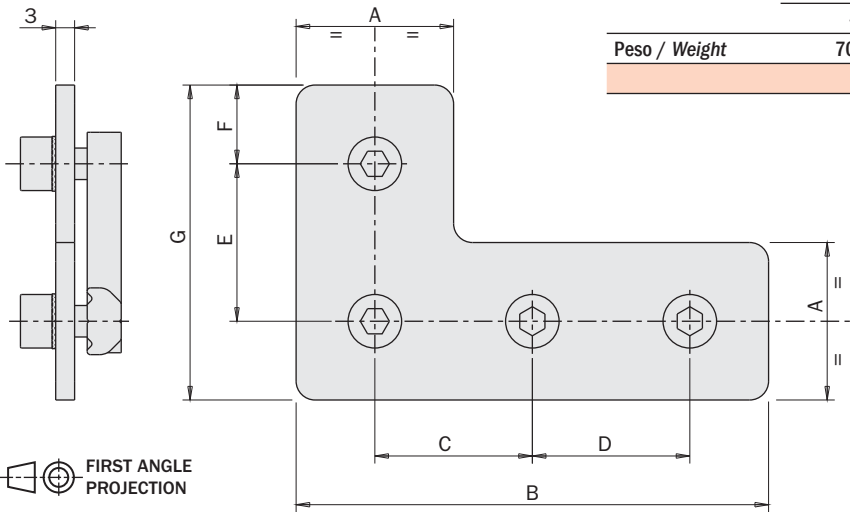
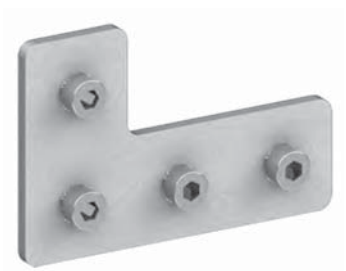


	MFI-A226	MFI-A227	MFI-A228
A [mm]	25	25	40
B [mm]	50	100	160
C [mm]	25	25	40
D [mm]	-	25	40
E [mm]	-	25	40
	2510	2510	-
	2518	2518	-
EMB	2525	2525	-
EMF	5025	5025	-
	-	-	4040
	-	-	8040
Peso / Weight	45 g	95 g	195 g

**Esempio di utilizzo / Application example**

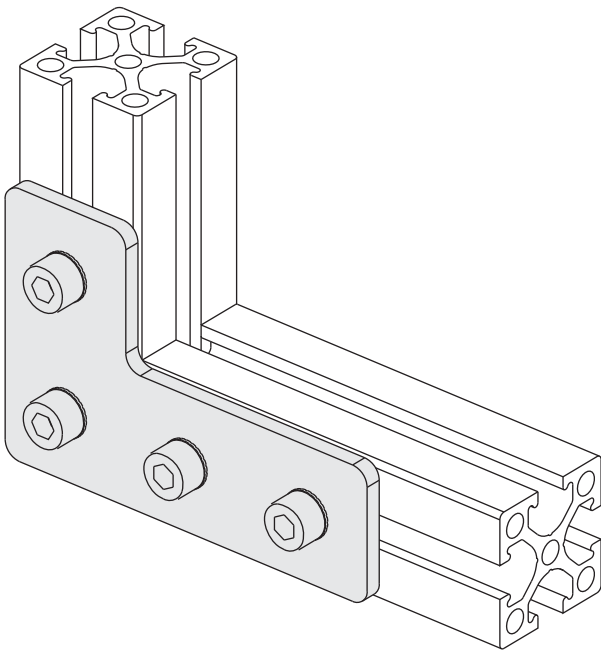
Piastra di fissaggio a L
(kit completo di viti)

L-shaped fixing plate
(kit with screws)



	MFI-A232	MFI-A233	MFI-A234
A [mm]	25	25	40
B [mm]	50	75	120
C [mm]	25	25	40
D [mm]	-	25	40
E [mm]	25	25	40
F [mm]	12.5	12.5	20
G [mm]	50	50	80
	2510	2510	-
	2518	2518	-
EMB	2525	2525	-
EMF	5025	5025	-
	-	-	4040
	-	-	8040
Peso / Weight	70 g	95 g	200 g

Esempio di utilizzo / Application example



Piastra di fissaggio a T

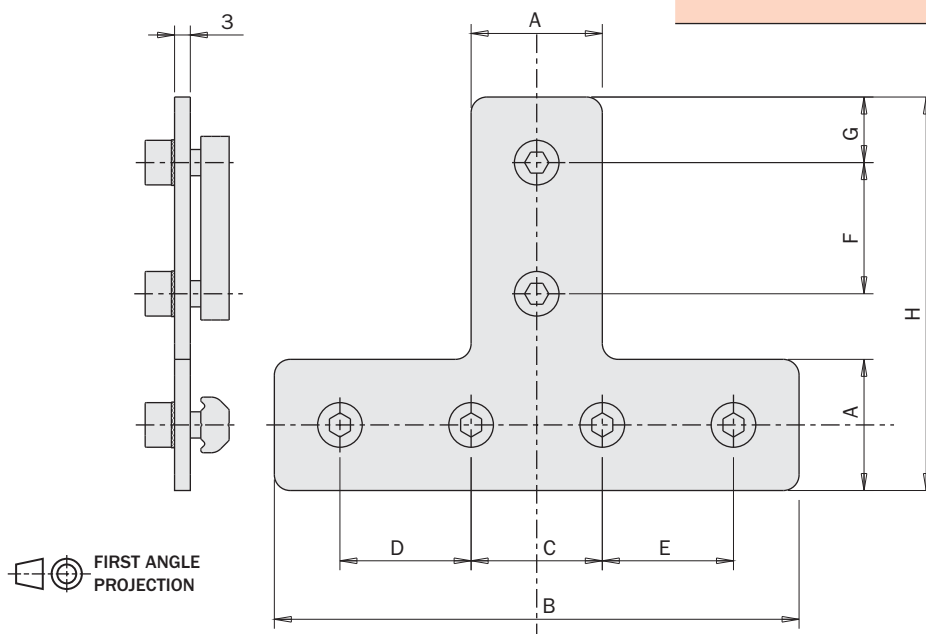
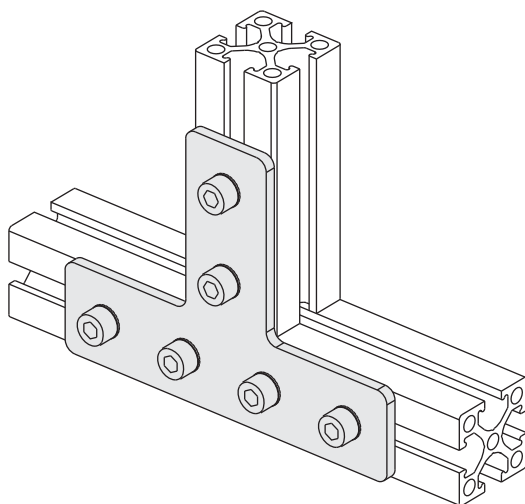
(kit completo di viti)

T-shaped fixing plate

(kit with screws)



	MFI-A229	MFI-A230	MFI-A231
A [mm]	25	25	40
B [mm]	50	100	120
C [mm]	25	25	90
D [mm]	-	25	-
E [mm]	-	25	-
F [mm]	25	25	40
G [mm]	12.5	12.5	15
H [mm]	75	75	110
	2510	2510	-
	2518	2518	-
EMB	2525	2525	-
EMF	5025	5025	-
	-	-	4040
	-	-	8040
Peso / Weight	95 g	145 g	250 g

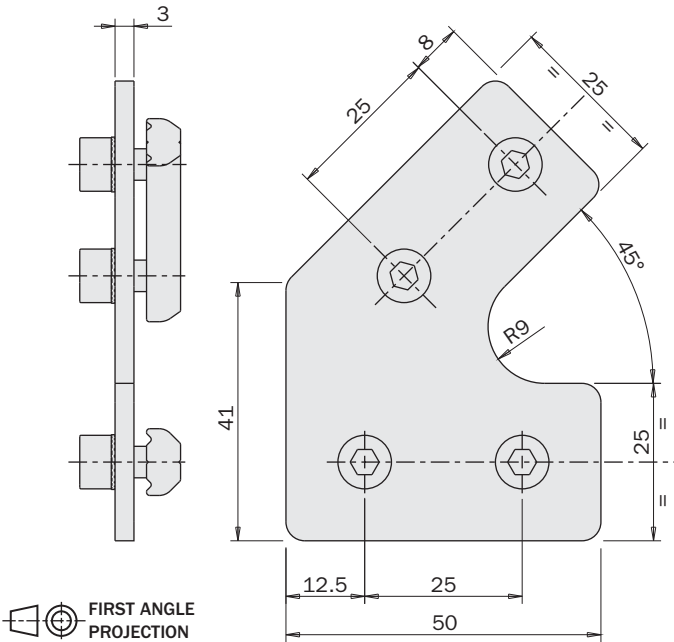
**Esempio di utilizzo / Application example**

Piastra di fissaggio a 45°
(kit completo di viti)

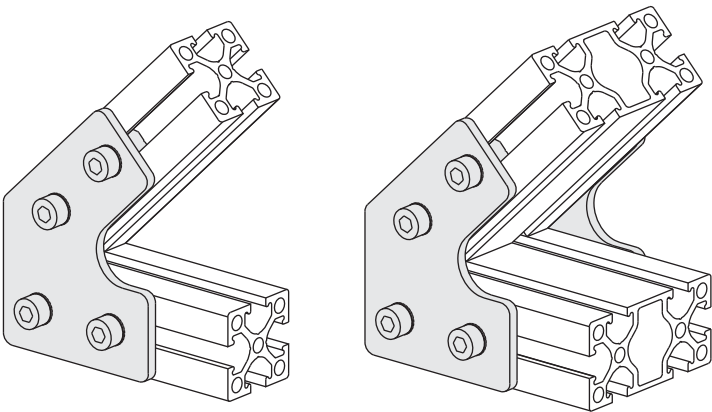
45° fixing plate
(kit with screws)

MFI-A221

Peso / Weight	100 g



Esempio di utilizzo / Application example

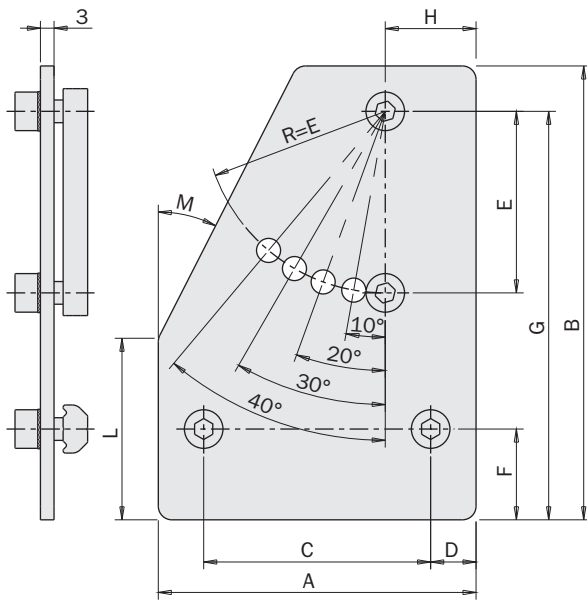


Piastra di fissaggio con angolo regolabile

(kit completo di viti)

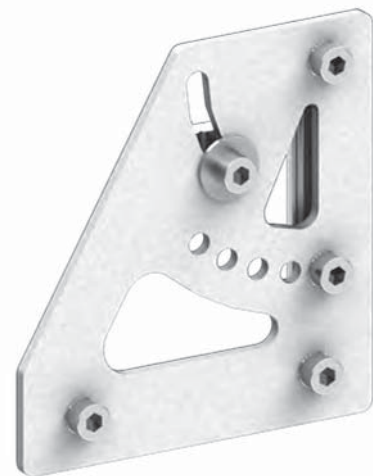
Fixing plate with adjustable angle

(kit with screws)

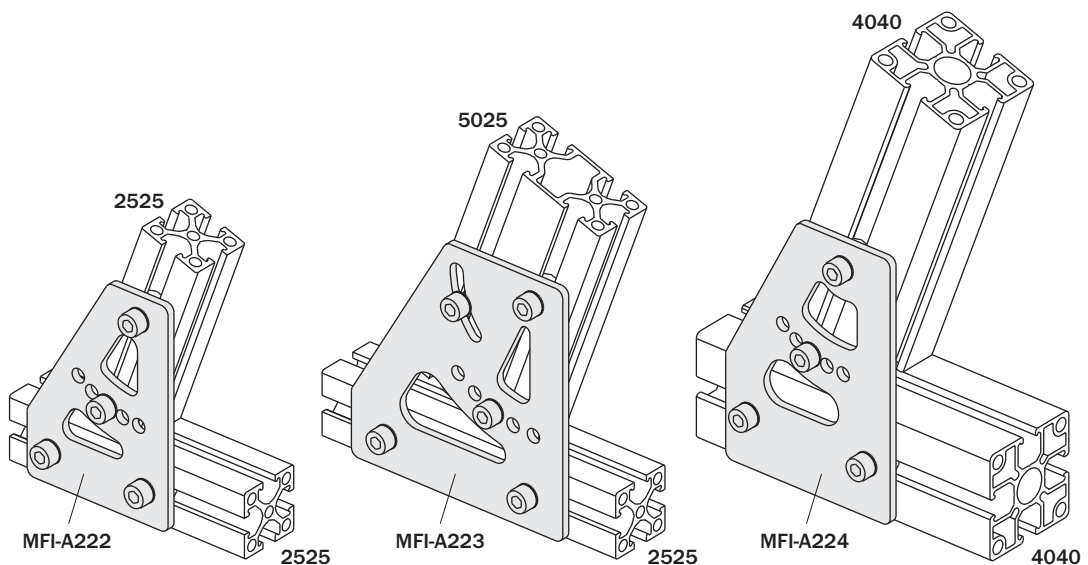


FIRST ANGLE PROJECTION

	MFI-A222	MFI-A223	MFI-A224
A [mm]	60	90	70
B [mm]	85	95	100
C [mm]	40	60	50
D [mm]	10	15	10
E [mm]	40	50	40
F [mm]	12.5	12.5	20
G [mm]	76	86	90
H [mm]	12.5	12.5	20
L [mm]	25	25	40
M [mm]	30°	30°	27°
	2510	2510	-
	2518	2518	-
EMB	2525	2525	-
EMF	5025	5025	-
	-	-	4040
	-	-	8040
Peso / Weight	130 g	215 g	175 g



Esempio di utilizzo / Application example

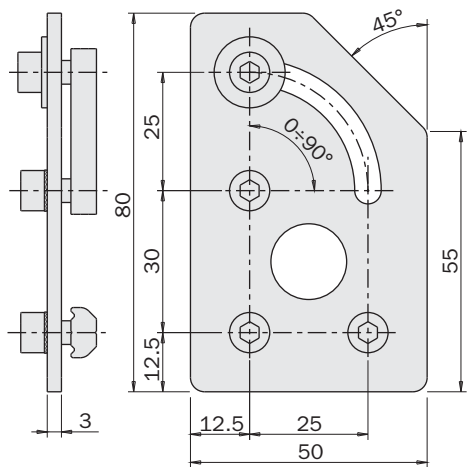


Piastra di fissaggio con angolo regolabile
(kit completo di viti)

Fixing plate with adjustable angle
(kit with screws)

MFI-A225

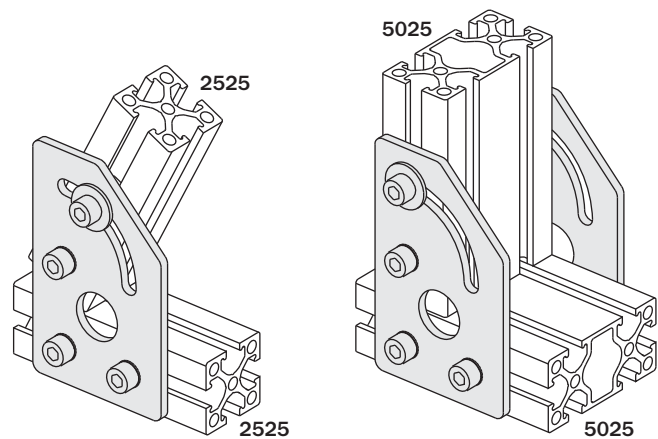
Peso / Weight	115 g



FIRST ANGLE
PROJECTION



Esempio di utilizzo / Application example

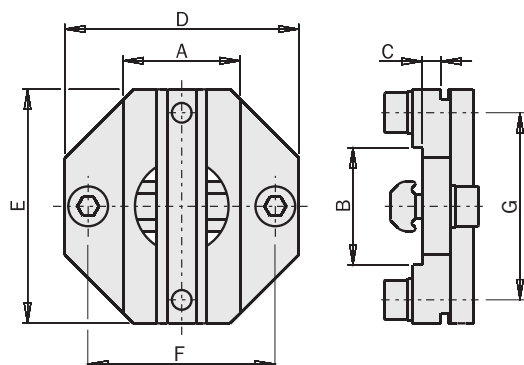


Staffa per fissaggio a croce di profili

(kit completo di viti)

Cross mounting bracket for profiles

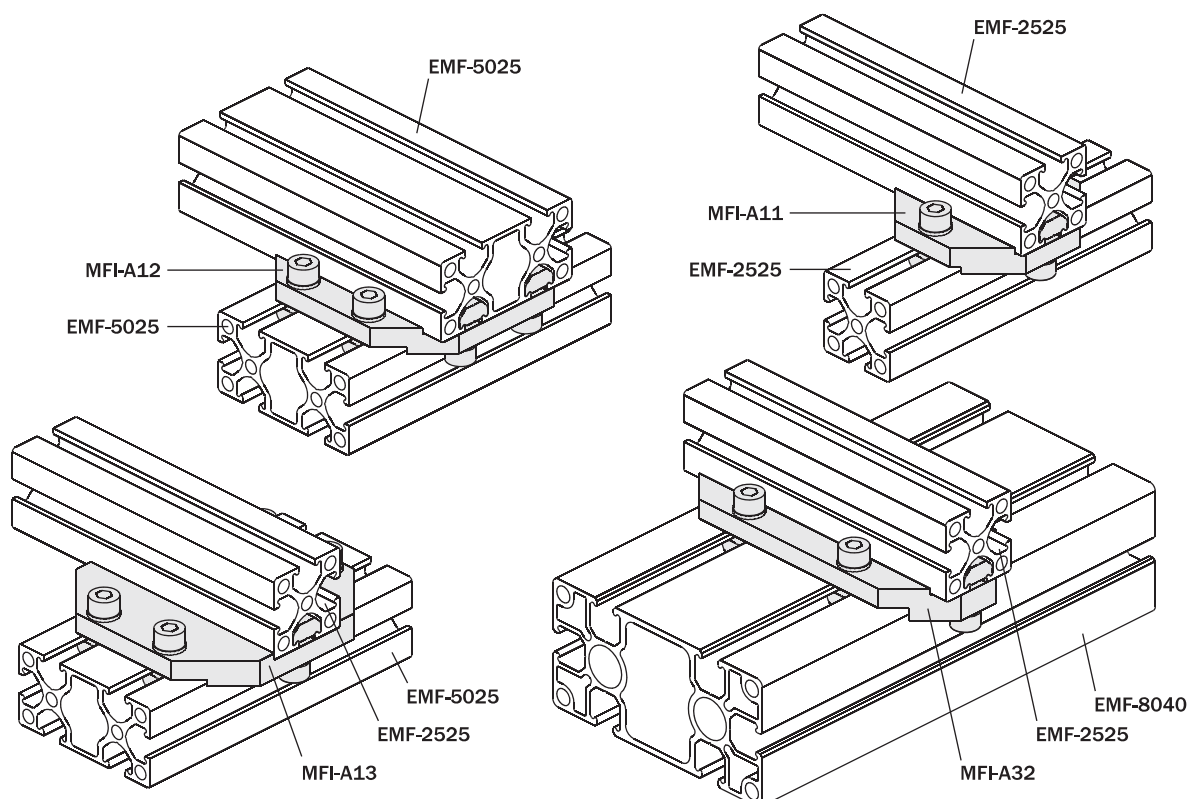
(kit with screws)



FIRST ANGLE PROJECTION

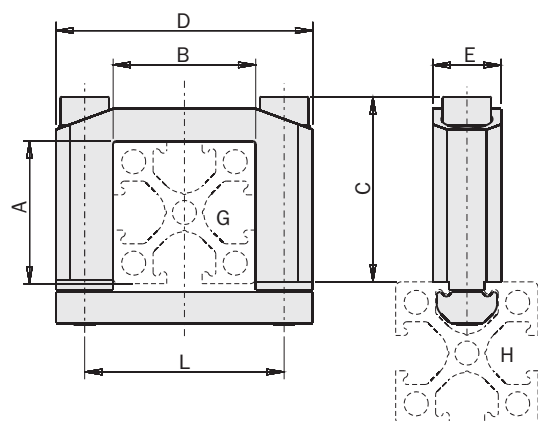


	MFI-A175	MFI-A265	MFI-A11	MFI-A12	MFI-A13	MFI-A29	MFI-A30	MFI-A31	MFI-A32	MFI-A33
A [mm]	18	18	25	50	25	40	80	40	25	25
B [mm]	18	25	25	50	50	40	80	80	80	40
C [mm]	2	4	4	4	4	4	4	4	4	4
D [mm]	38	38	45	70	45	60	100	60	45	45
E [mm]	38	45	45	70	70	60	100	100	100	60
F [mm]	28	35	35	60	35	50	90	50	35	35
G [mm]	28	35	35	60	60	50	90	90	90	50
EMF-1018	✓	✓	□	□	□	□	□	□	□	□
EMF-1818	✓	✓	□	□	□	□	□	□	□	□
EMF-2510	□	✓	✓	□	✓	□	□	□	✓	✓
EMF-2518	□	✓	✓	□	✓	□	□	□	✓	✓
EMF-2525	□	✓	✓	□	✓	□	□	□	✓	✓
EMF-5025	□	✓	✓	✓	✓	□	□	□	✓	✓
EMF-4040	□	□	□	□	□	✓	□	✓	□	✓
EMF-8040	□	□	□	□	□	✓	✓	✓	✓	✓
Peso / Weight	40 g	60 g	75 g	170 g	155 g	85 g	255 g	175 g	140 g	75 g

Esempio di utilizzo / Application example

Staffa (quadra) per fissaggio a croce

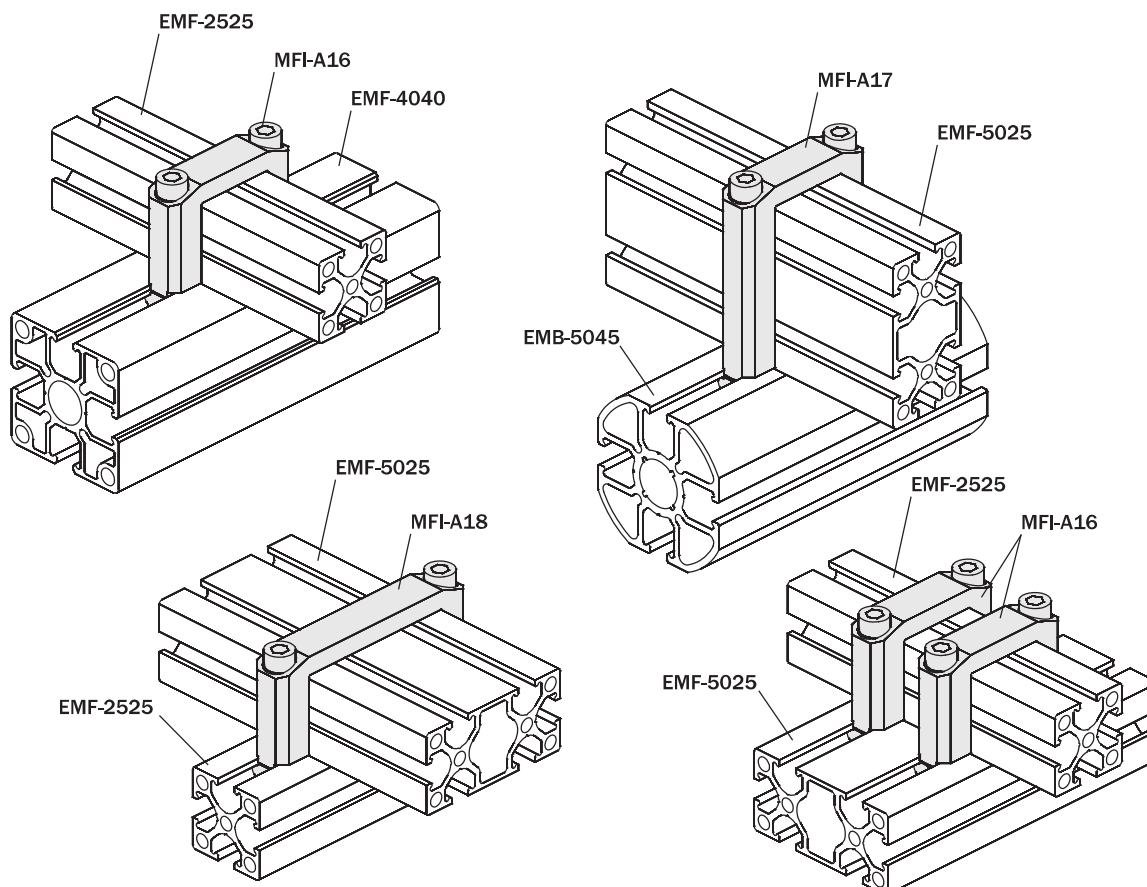
(kit completo di viti)


 FIRST ANGLE
PROJECTION

Cross (square) joint connector

(kit with screws)

	MFI-A244	MFI-A16	MFI-A17	MFI-A18
A [mm]	18	25	50	25
B [mm]	18	25	25	50
C [mm]	29	32	57	32
D [mm]	38	45	45	70
E [mm]	12	12	12	12
G	EMF-1818	EMF-2525	EMF-5025	EMF-5025
H	EMF-1818	-	-	-
	EMF-2518	-	-	-
	EMF-2510	EMF-2510	-	-
	EMF-2518	EMF-2518	-	-
	EMF-2525	EMF-2525	EMF-2525	EMF-2525
	EMF-5025	EMF-5025	EMF-5025	EMF-5025
	EMF-4040	EMF-4040	EMF-4040	EMF-4040
	EMF-8040	EMF-8040	EMF-8040	EMF-8040
	EMB-3026	EMB-3026	EMB-3026	EMB-3026
	EMB-5045	EMB-5045	EMB-5045	EMB-5045
L [mm]	28	35	35	60
Peso / Weight	41 g	45 g	65 g	50 g

Esempio di utilizzo / Application example


Staffa (tonda) per fissaggio a croce

(kit completo di viti)

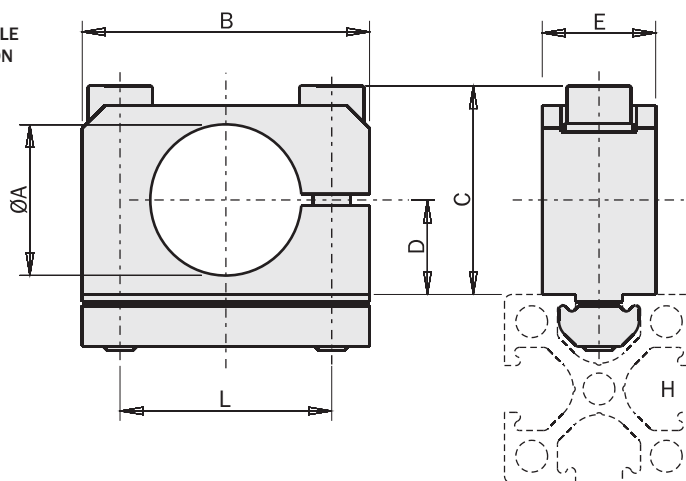
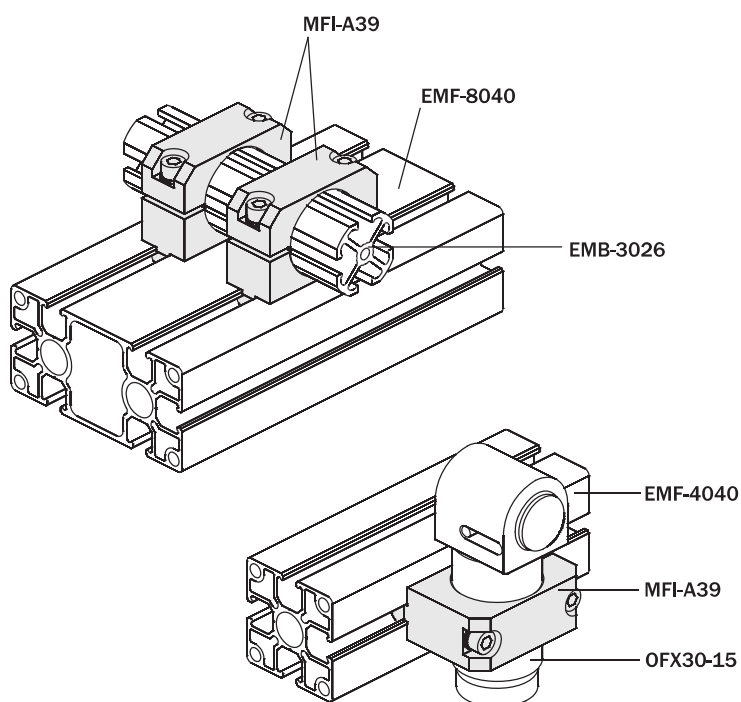
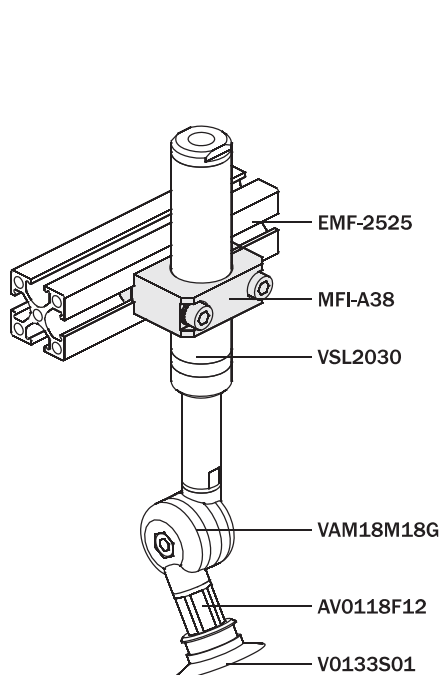
Cross (round) joint connector

(kit with screws)

	MFI-A156	MFI-A37	MFI-A38	MFI-A39	MFI-A178
A [mm]	Ø10	Ø14	Ø20	Ø30	Ø50
B [mm]	25	32	38	50	70
C [mm]	18.5	23	28	34	56
D [mm]	7	9	12.5	17	28
E [mm]	10	12	15	20	25
H	EMF-1018	-	-	-	-
	EMF-1818	-	-	-	-
	EMF-2510	EMF-2510	-	-	-
	EMF-2518	EMF-2518	-	-	-
	EMF-2525	EMF-2525	EMF-2525	EMF-2525	EMF-2525
	EMF-5025	EMF-5025	EMF-5025	EMF-5025	EMF-5025
	EMF-4040	EMF-4040	EMF-4040	EMF-4040	EMF-4040
	EMF-8040	EMF-8040	EMF-8040	EMF-8040	EMF-8040
	EMB-2017	-	-	-	-
	EMB-3026	EMB-3026	EMB-3026	EMB-3026	EMB-3026
	EMB-5045	EMB-5045	EMB-5045	EMB-5045	EMB-5045
L [mm]	17	22	28	40	60
Peso / Weight	15 g	32 g	45 g	75 g	150 g



FIRST ANGLE
PROJECTION

**Esempio di utilizzo / Application example**

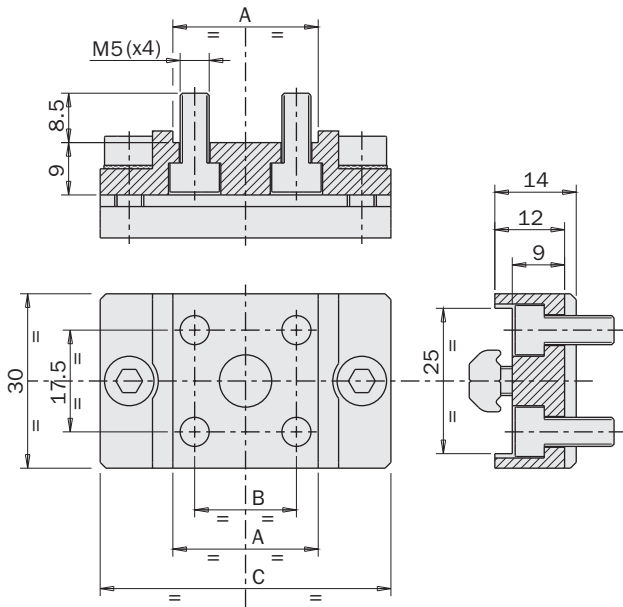
Fissaggio verticale profili

(kit completo di viti)

Vertical fastening of the profiles

(kit with screws)

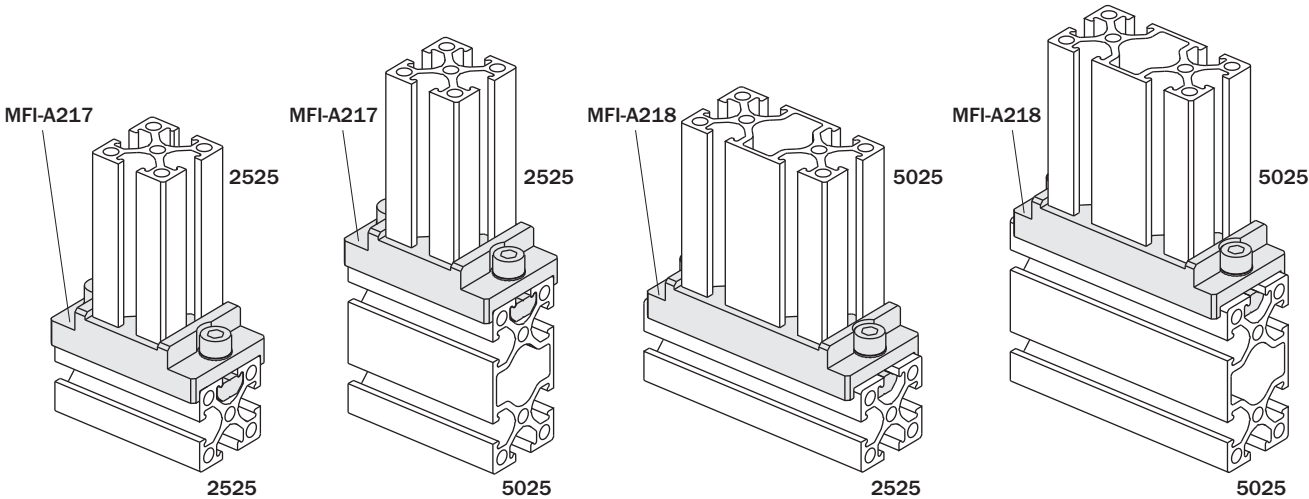
FIRST ANGLE
PROJECTION



	MFI-A217	MFI-A218
A [mm]	25	50
B [mm]	17.5	42.5
C [mm]	50	70
EMB	2525	2525
EMF	5025	5025
Peso / Weight	65 g	85 g



Esempio di utilizzo / Application example



Fissaggio verticale profili

(kit completo di viti)

Vertical fastening of the profiles

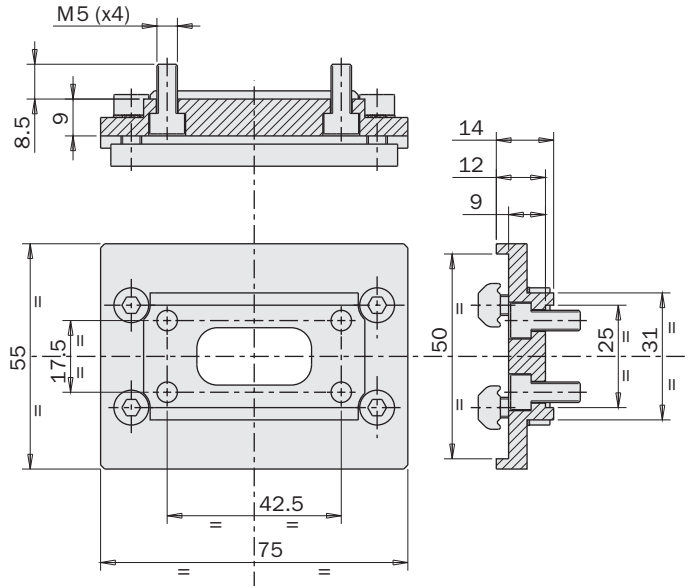
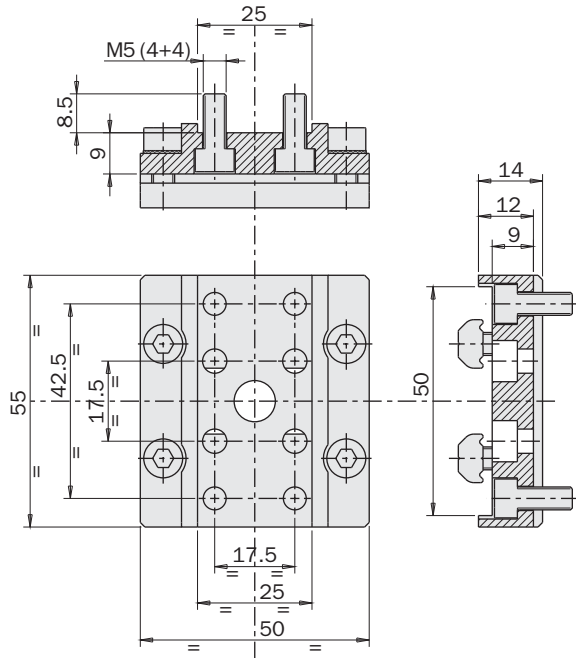
(kit with screws)

MFI-A219

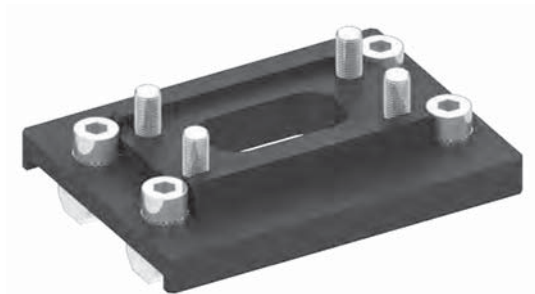
Peso / Weight 110 g

MFI-A220

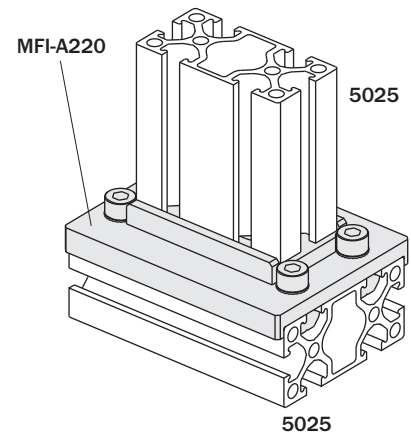
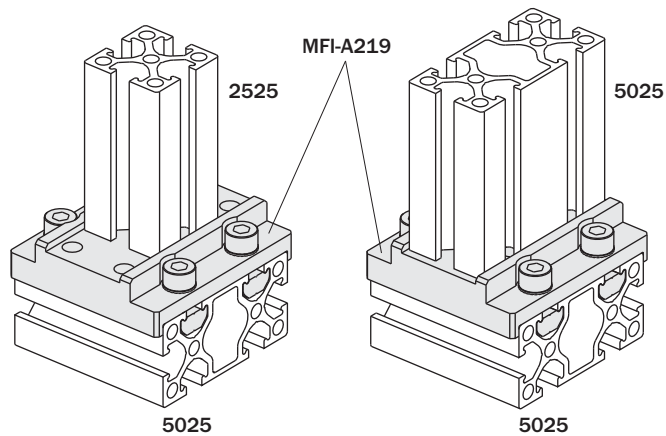
Peso / Weight 140 g



FIRST ANGLE PROJECTION



Esempio di utilizzo / Application example

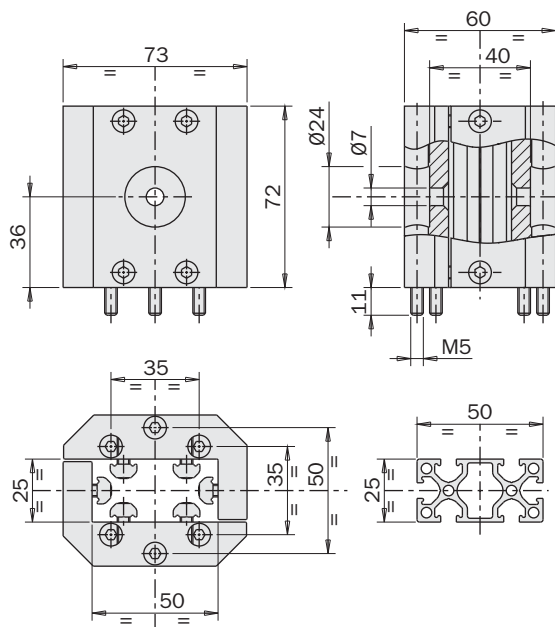


Interfaccia per braccio a sbalzo

(kit completo di viti)

MFI-A254

Peso / Weight	680 g
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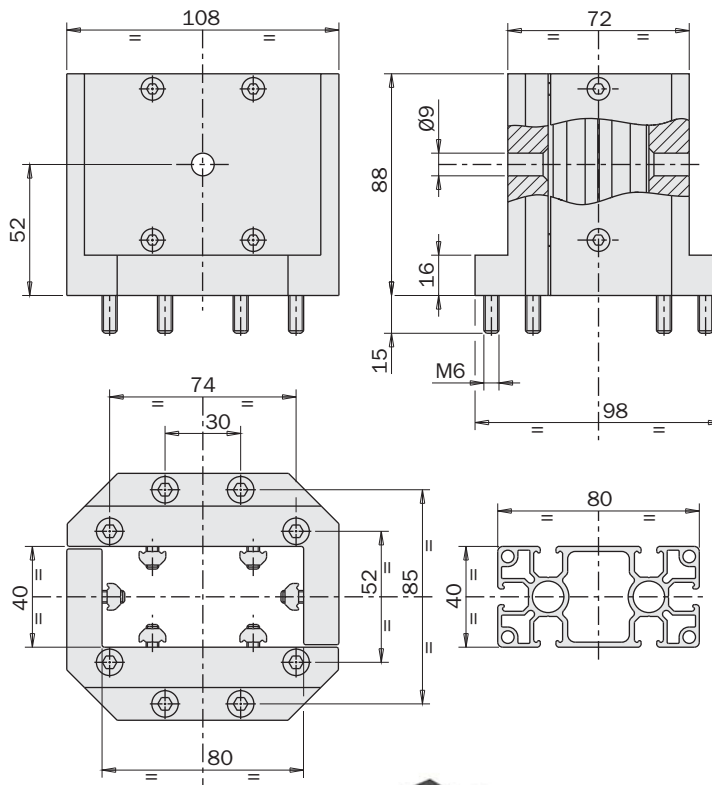


Interface for square profile/Quick Changer

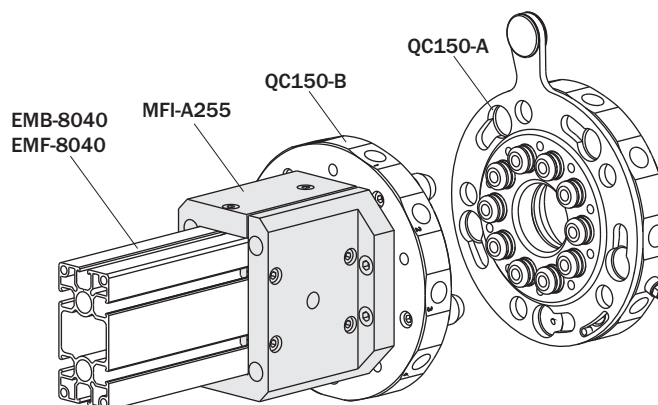
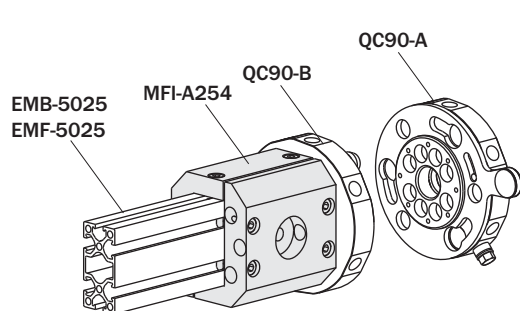
(kit with screws)

MFI-A255

Peso / Weight	1300 g
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Esempio di utilizzo / Application example



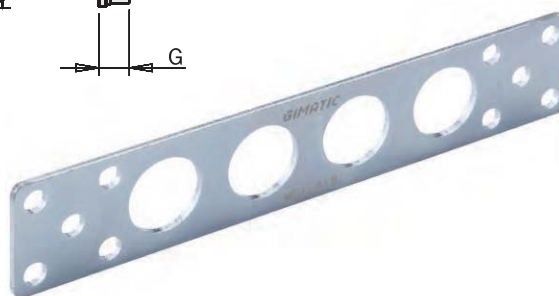
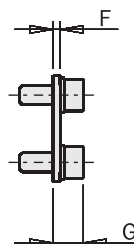
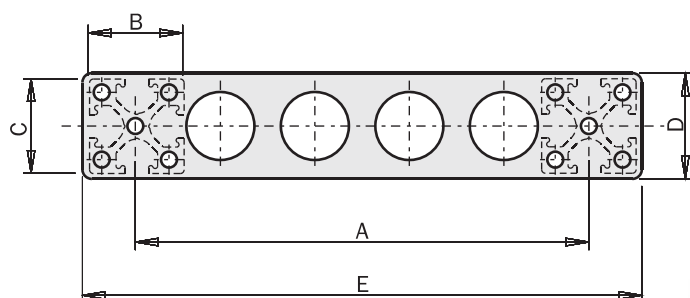
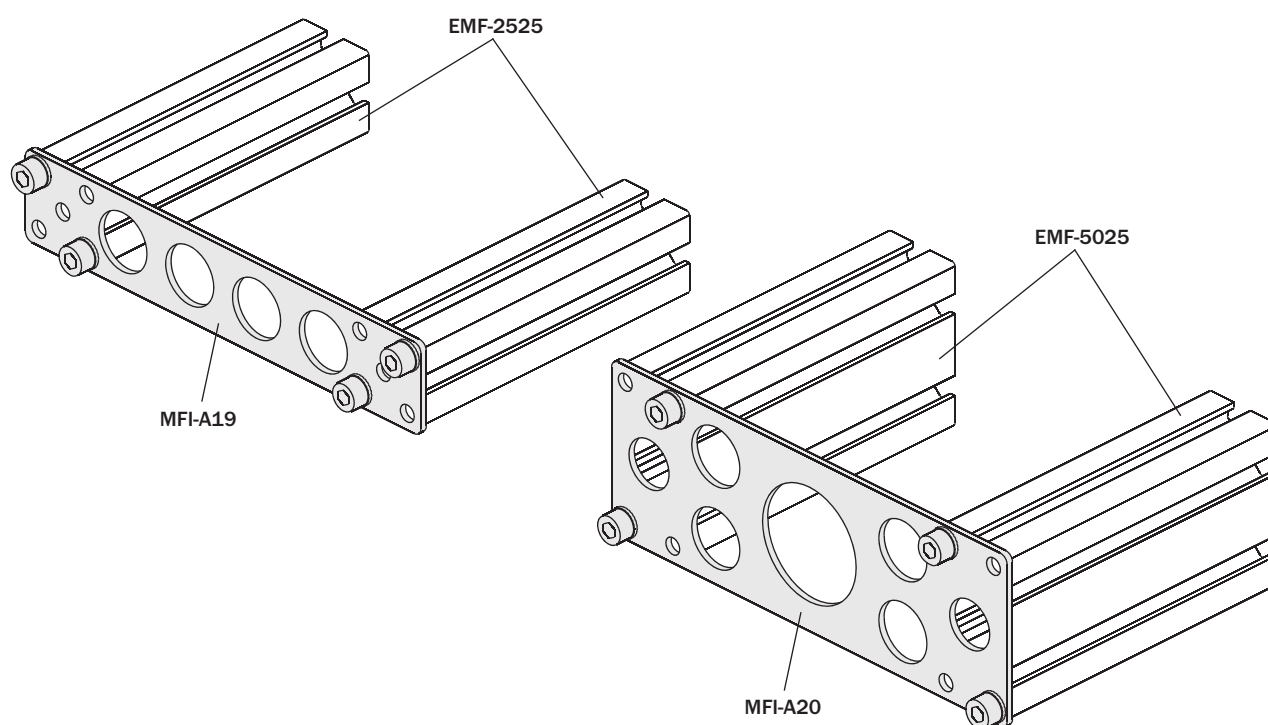
Connettore piatto dritto

(kit completo di viti)

Flat straight connector

(kit with screws)

	MFI-A101	MFI-A19	MFI-A201	MFI-A100	MFI-A20	MFI-A202
A [mm]	76	120	130	76	120	130
B [mm]	25	25	25	25	25	25
C [mm]	25	25	25	50	50	50
D [mm]	28	28	28	53	53	53
E [mm]	104	148	158	104	148	158
F [mm]	2	2	2	2	2	2
G [mm]	8	8	8	8	8	8
EMF-...	EMF-2525	EMF-2525	EMF-2525	EMF-5025	EMF-5025	EMF-5025
Peso / Weight	50 g	60 g	65 g	75 g	100 g	110 g

 FIRST ANGLE
PROJECTION
**Esempio di utilizzo / Application example**

Staffa

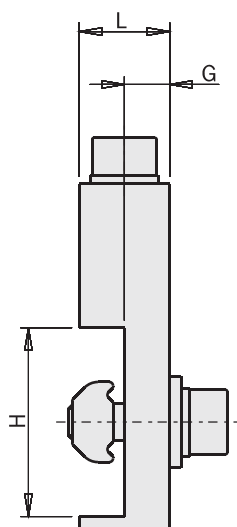
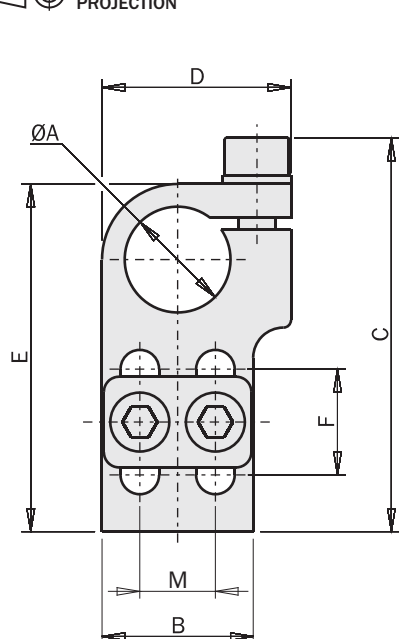
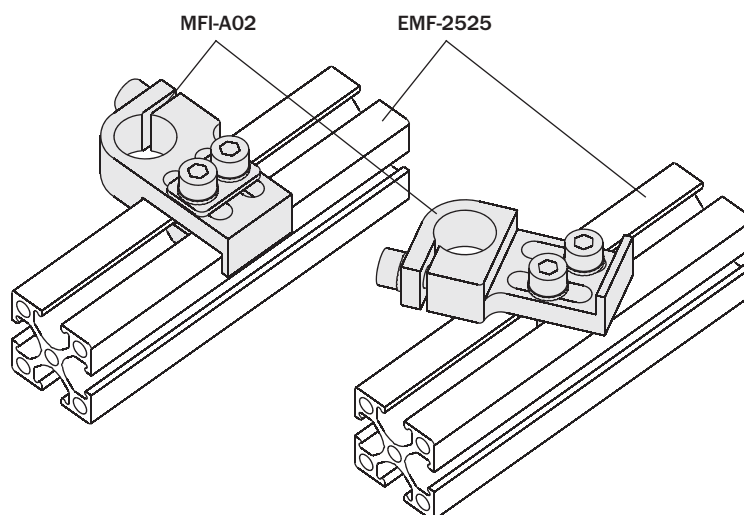
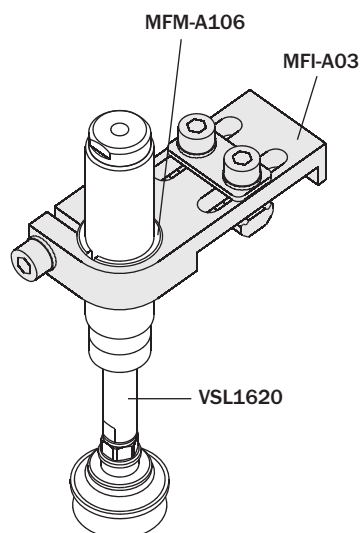
(kit completo di viti)

Mounting bracket

(kit with screws)

	MFI-A01	MFI-A270	MFI-A02	MFI-A204	MFI-A03
A [mm]	Ø10	Ø10	Ø14	Ø20	Ø20
B [mm]	16	16	20	25	25
C [mm]	43	49	52.1	57.1	74.1
D [mm]	20	20	25	30	30
E [mm]	38	44	46	51.5	68
F [mm]	10	14	14	14	22
G [mm]	4.5	4.5	6	6.2	6
H [mm]	18	25	25	25	40
L [mm]	8	8	12	12	12
M [mm]	8	8	10	15	15
EMF-...	EMF-1018 EMF-1818	EMF-2510 EMF-2518 EMF-2525 EMF-5025	EMF-2510 EMF-2518 EMF-2525 EMF-5025	EMF-2510 EMF-2518 EMF-2525 EMF-5025	EMF-4040 EMF-8040
Peso / Weight	20 g	21 g	34 g	45 g	48 g

 FIRST ANGLE PROJECTION


Esempio di utilizzo / Application example


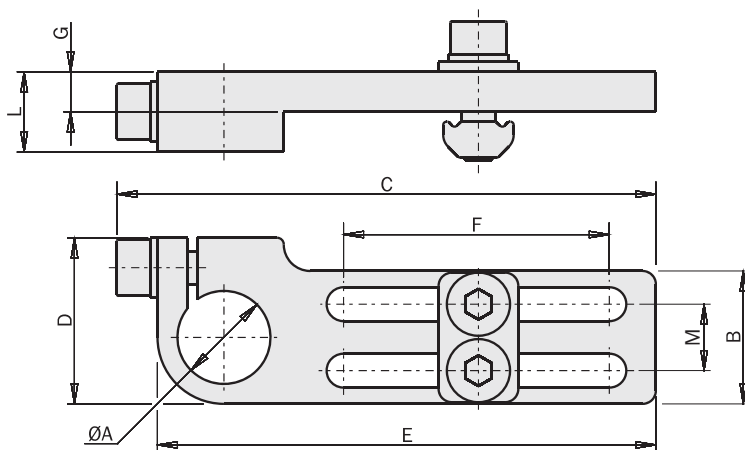
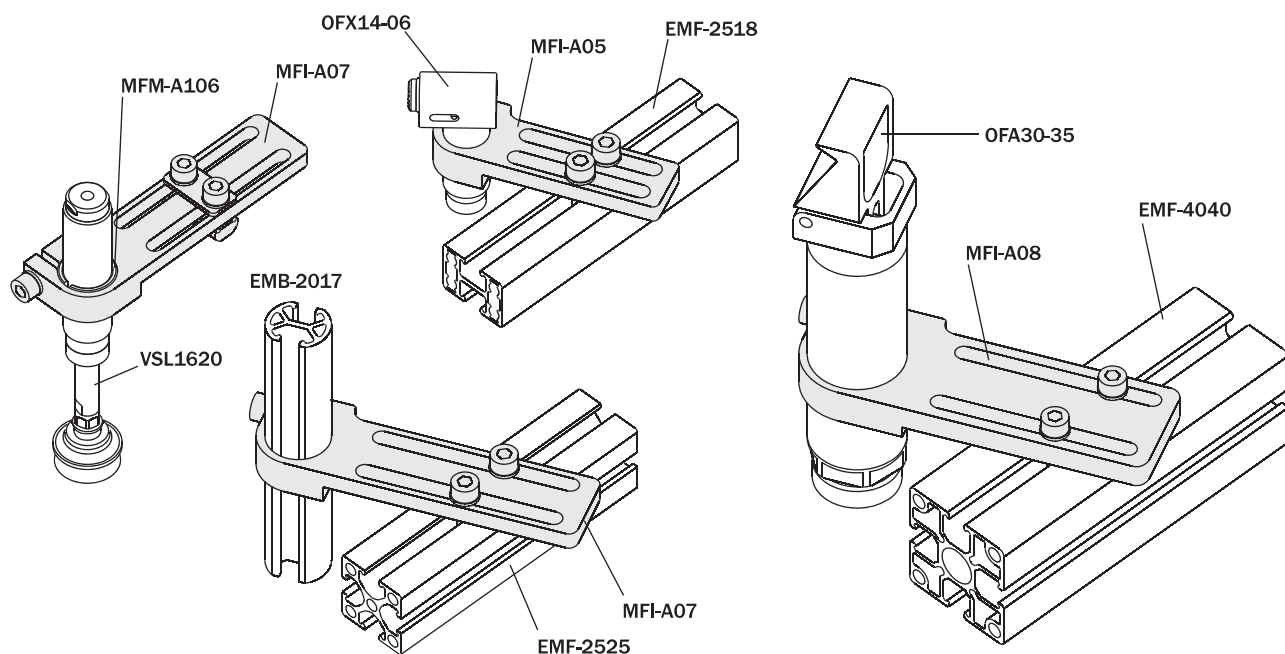
Staffa

(kit completo di viti)

Mounting bracket

(kit with screws)

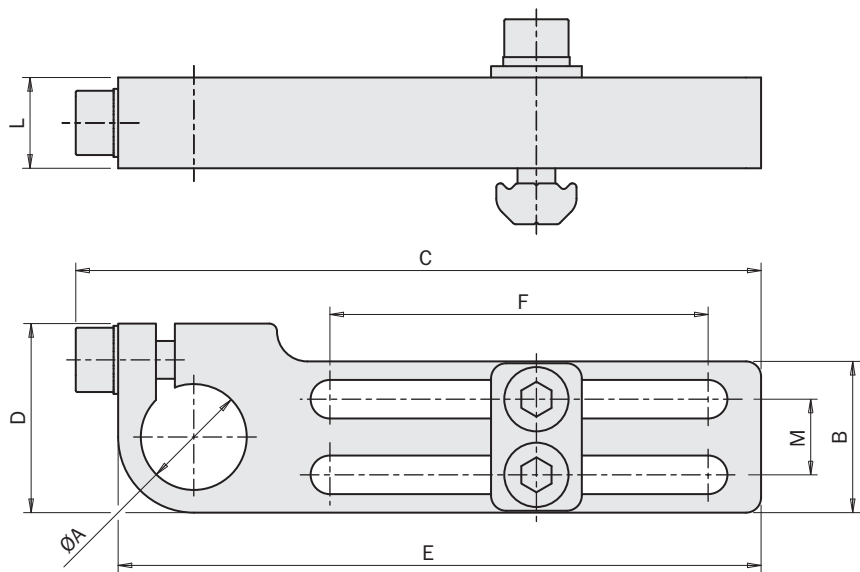
		MFI-A04	MFI-A05	MFI-A06	MFI-A07	MFI-A08
A	[mm]	Ø10	Ø14	Ø14	Ø20	Ø30
B	[mm]	16	20	20	25	35
C	[mm]	75	81.1	91.1	111.1	121.1
D	[mm]	20	25	25	30	40
E	[mm]	70	75	85	105	115
F	[mm]	40	40	50	60	60
G	[mm]	4.5	6	6	6	8
L	[mm]	8	12	12	12	12
M	[mm]	8	10	10	15	22
EMF / EMB		EMF-1018	EMF-1018	EMF-1018	-	-
		EMF-1818	EMF-1818	EMF-1818	-	-
		EMF-2510	EMF-2510	EMF-2510	EMF-2510	EMF-2510
		EMF-2518	EMF-2518	EMF-2518	EMF-2518	EMF-2518
		EMF-2525	EMF-2525	EMF-2525	EMF-2525	EMF-2525
		EMF-5025	EMF-5025	EMF-5025	EMF-5025	EMF-5025
		-	EMF-4040	EMF-4040	EMF-4040	EMF-4040
		-	EMF-8040	EMF-8040	EMF-8040	EMF-8040
		EMB-2017	EMB-2017	EMB-2017	-	-
		EMB-3026	EMB-3026	EMB-3026	EMB-3026	EMB-3026
		EMB-5045	EMB-5045	EMB-5045	EMB-5045	EMB-5045
Peso / Weight		23 g	38 g	40 g	55 g	95 g

**Esempio di utilizzo / Application example**

Staffa robusta
(kit completo di viti)

Heavy duty mounting bracket
(kit with screws)

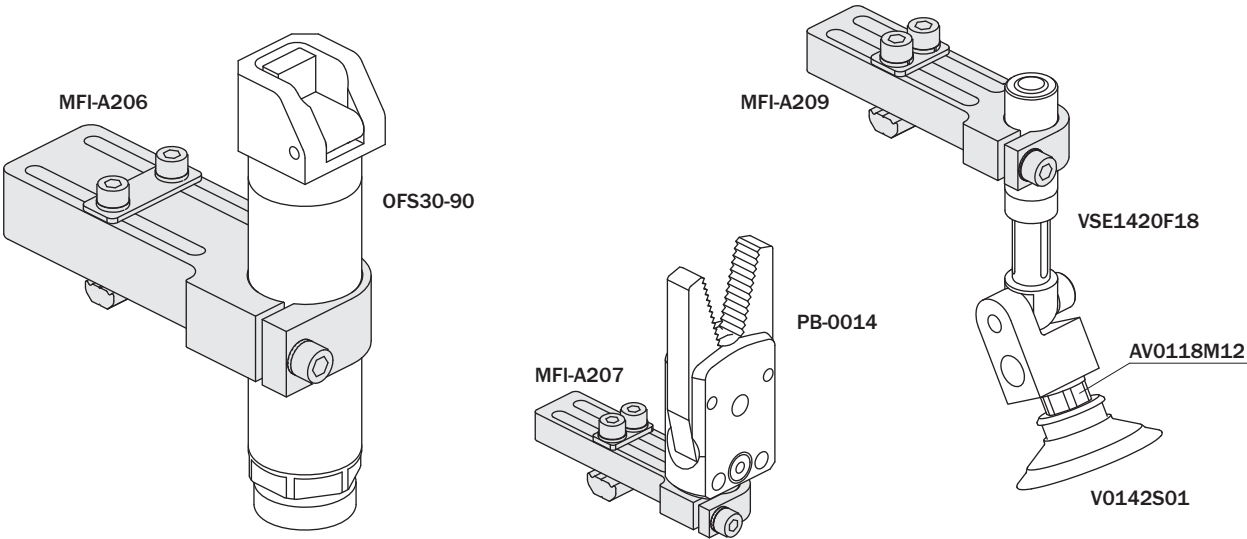
	MFI-A207	MFI-A209	MFI-A205	MFI-A206
A [mm]	Ø10	Ø14	Ø20	Ø30
B [mm]	16	20	25	35
C [mm]	75	90.6	110.6	122.2
D [mm]	20	25	30	42
E [mm]	70	85	105	115
F [mm]	40	50	60	60
L [mm]	8.3	12	15	20
M [mm]	8	10	15	22
Peso / Weight	30 g	60 g	85 g	175 g



FIRST ANGLE
PROJECTION



Esempio di utilizzo / Application example



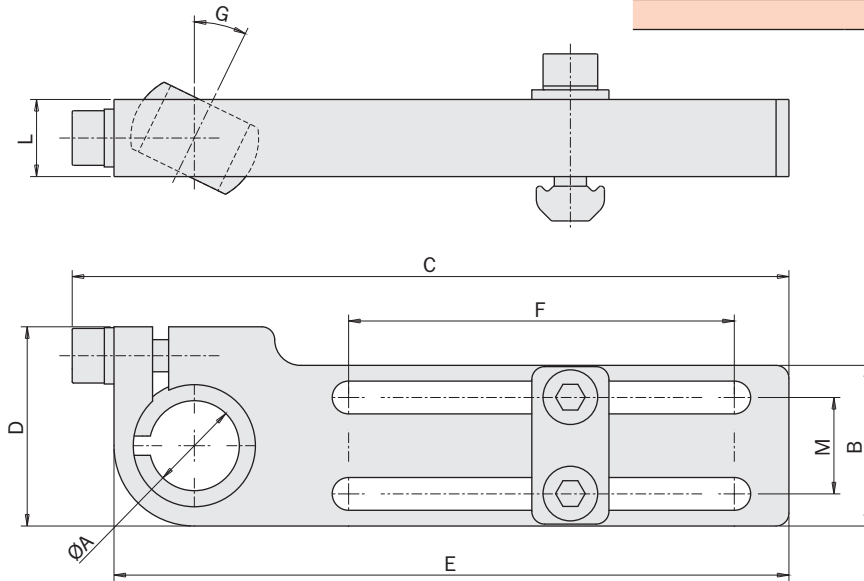
Staffa robusta con giunto sferico

(kit completo di viti)

Heavy-duty mounting bracket with ball joint

(kit with screws)

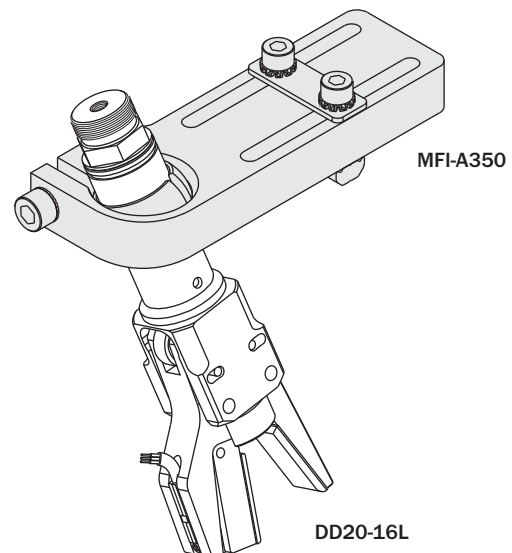
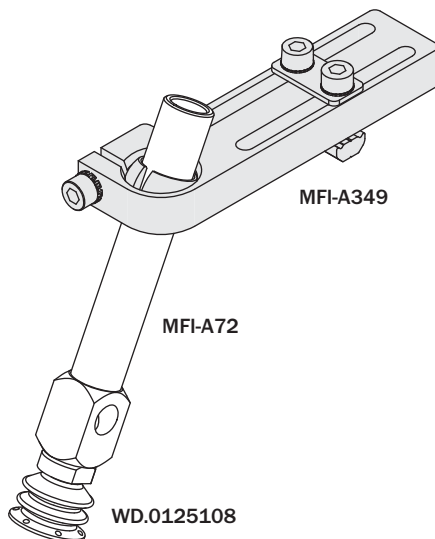
		NEW MFI-A348	NEW MFI-A349	NEW MFI-A350
A	[mm]	10	14	20
B	[mm]	20	25	35
C	[mm]	89.5	111.5	121.8
D	[mm]	25	31	42
E	[mm]	85	105	115
F	[mm]	50	60	60
G		0-26°	0-26°	0-26°
L	[mm]	8.3	12	15
M	[mm]	10	15	22
Peso / Weight		45 g	86 g	160 g



FIRST ANGLE
PROJECTION



Esempio di utilizzo / Application example



Staffa asolata angolare

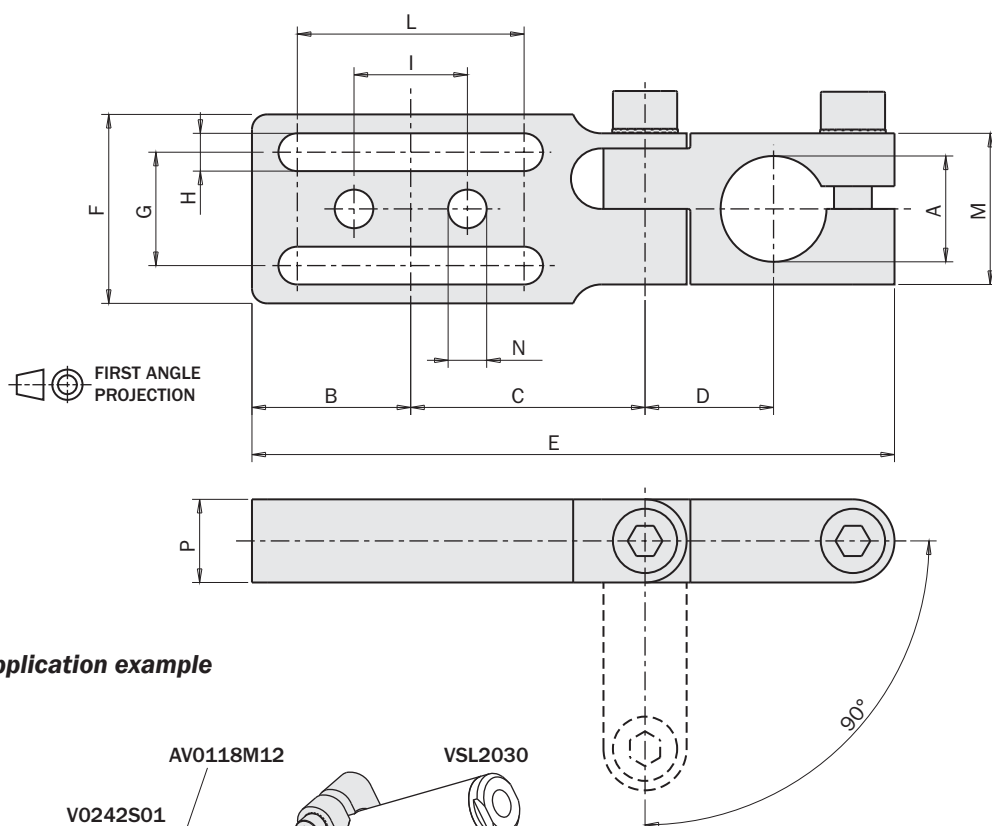
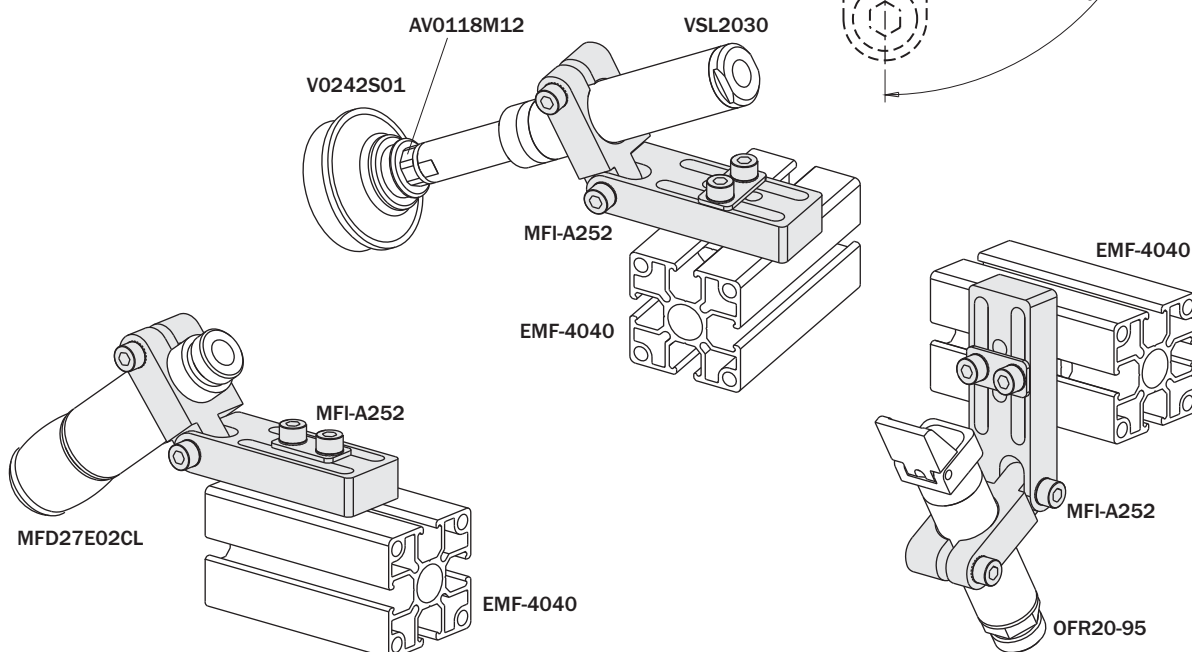
(kit completo di viti)

Slotted angular bracket

(kit with screws)



		MFI-A250	MFI-A251	MFI-A252	MFI-A253
A	[mm]	Ø10	Ø14	Ø20	Ø30
B	[mm]	15	21	26	32
C	[mm]	23	31	39	49
D	[mm]	14	17	22	28
E	[mm]	64.5	85	107	135.5
F	[mm]	16	25	25	36
G	[mm]	8	15	15	22
H	[mm]	4.1	5.1	5.1	5.1
I	[mm]	-	15	15	22
L	[mm]	20	30	40	50
M	[mm]	16	20	25	36
N	[mm]	-	Ø5.1	Ø5.1	Ø5.1
P	[mm]	9	11	13	16
Peso / Weight		30 g	50 g	90 g	185 g


Esempio di utilizzo / Application example


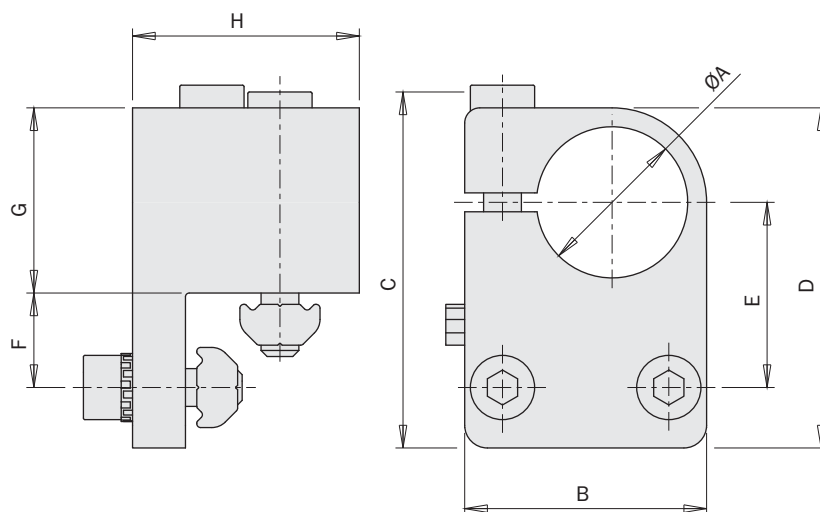
Staffa

(kit completo di viti)

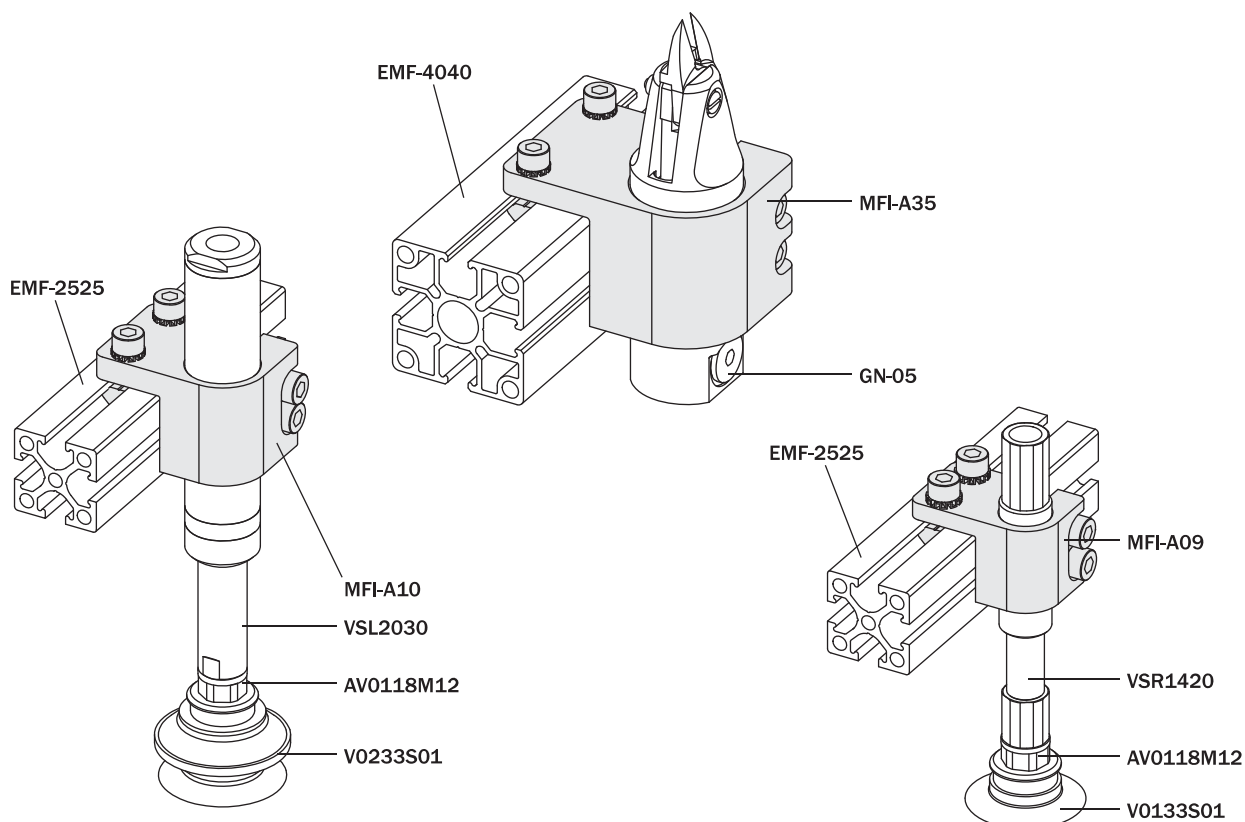
Mounting bracket

(kit with screws)

		NEW MFI-A09	NEW MFI-A10	NEW MFI-A36	NEW MFI-A34	NEW MFI-A35
A	[mm]	Ø14	Ø20	Ø20	Ø30	Ø30
B	[mm]	25	32	35	40	45
C	[mm]	42.6	47.6	54.1	53.1	64.1
D	[mm]	40	45	54.5	55	65.5
E	[mm]	22	24.5	33	29.5	39
F	[mm]	12.5	12.5	20	12.5	20
G	[mm]	19.5	24.5	26.5	34.5	37.5
H	[mm]	25	30	35	30	40
EMF-...		EMF-2525 EMF-5025	EMF-2525 EMF-5025	EMF-4040 EMF-8040	EMF-2525 EMF-5025	EMF-4040 EMF-8040
Peso / Weight		50 g	70 g	95 g	90 g	150 g

**Esempio di utilizzo / Application example**

FIRST ANGLE PROJECTION



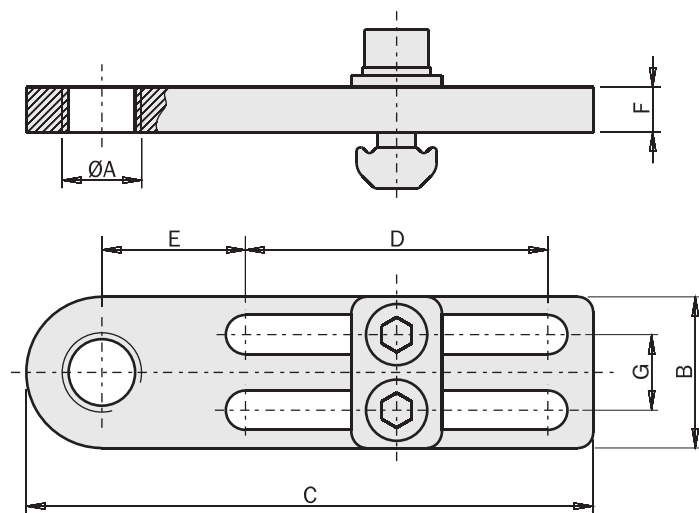
Staffa

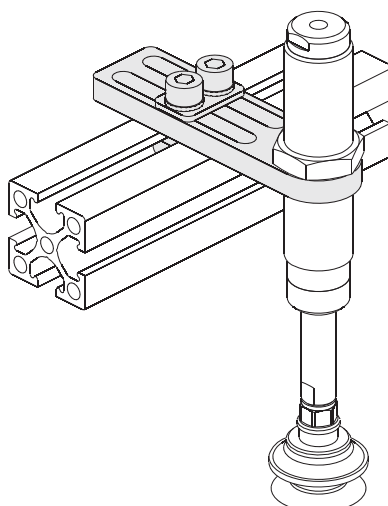
(kit completo di viti)

Mounting bracket

(kit with screws)

	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Peso Weight
MFI-A104	G1/8"	20	75	40	19	6	10	25 g
MFI-A105	G1/8"	25	105	60	26.5	6	15	42 g
MFI-A106	M10x1	20	75	40	19	6	10	30 g
MFI-A107	M10x1	25	105	60	26.5	6	15	40 g
MFI-A266	M12x1	20	75	40	19	6	10	30 g
MFI-A267	M12x1	25	105	60	26.5	6	15	47 g
MFI-A108	M14x1	20	75	40	19	6	10	20 g
MFI-A109	M14x1	25	105	60	26.5	6	15	40 g
MFI-A210	M14x1.5	25	75	40	19	6	10	20 g
MFI-A211	M14x1.5	25	105	60	26.5	6	15	40 g
MFI-A110	M16x1	20	75	40	19	6	10	20 g
MFI-A111	M16x1	25	105	60	26.5	6	15	40 g
MFI-A112	M20x1.5	25	75	40	19	6	15	30 g
MFI-A113	M20x1.5	25	105	60	26.5	6	15	35 g
MFI-A268	M25x1.5	30	85	40	24	8	15	52 g
MFI-A269	M25x1.5	30	115	60	34	8	15	67 g
MFI-A114	-	20	75	40	19	6	10	25 g
MFI-A115	-	25	105	60	26.5	6	15	40 g


 FIRST ANGLE
PROJECTION

Esempio di utilizzo / Application example


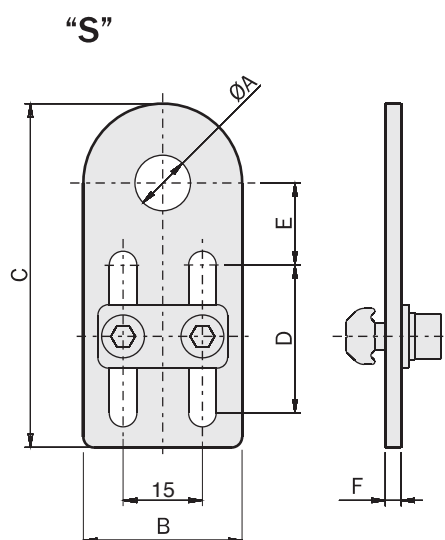
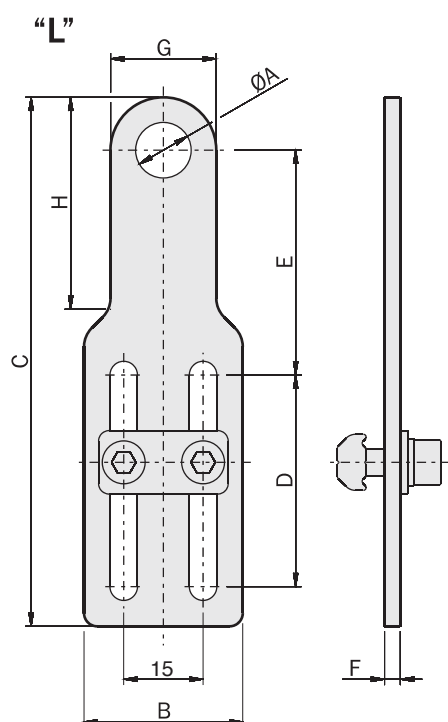
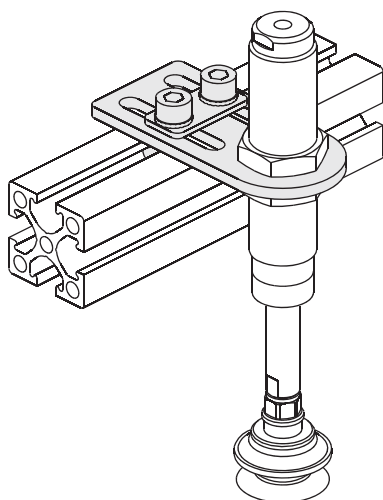
Staffa

(kit completo di viti)

Mounting bracket

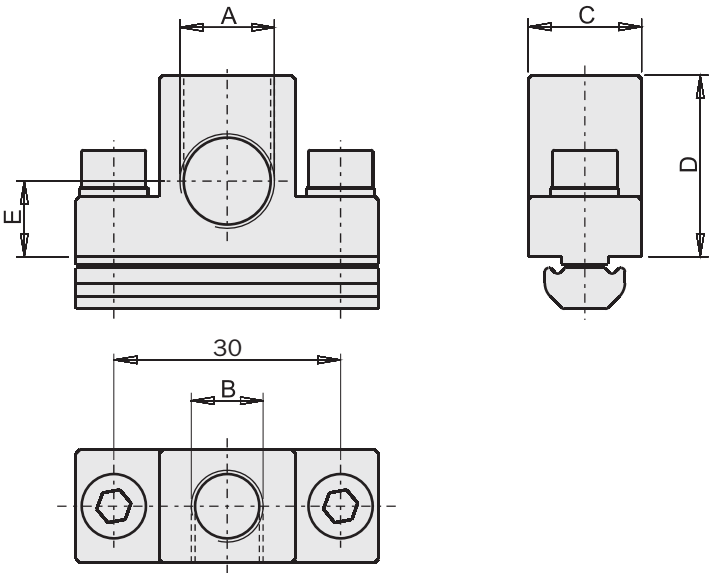
(kit with screws)

	Tipo Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	Peso Weight
MFI-A116	L	Ø10.5	30	100	40	42.5	3	20	38	60 g
MFI-A117	L	Ø12.5	30	100	40	42.5	3	20	38	60 g
MFI-A118	L	Ø14.5	30	100	40	42.5	3	24	38	60 g
MFI-A119	L	Ø16.5	30	100	40	42.5	3	30	-	65 g
MFI-A120	L	Ø20.5	30	100	40	42.5	3	30	-	60 g
MFI-A181	L	Ø22.5	30	100	40	42.5	5	35	26	105 g
MFI-A182	L	Ø25.5	30	100	40	42.5	5	35	26	100 g
MFI-A121	S	Ø10.5	30	65	28	15.5	3	-	-	45 g
MFI-A122	S	Ø12.5	30	65	28	15.5	3	-	-	45 g
MFI-A123	S	Ø14.5	30	65	28	15.5	3	-	-	45 g
MFI-A124	S	Ø16.5	30	65	28	15.5	3	-	-	45 g
MFI-A125	S	Ø20.5	30	65	28	15.5	3	-	-	40 g
MFI-A183	S	Ø22.5	30	70	28	17	5	35	26	75 g
MFI-A184	S	Ø25.5	30	70	28	17	5	35	26	70 g

**Esempio di utilizzo / Application example**

Staffa per attacco diretto ventosa
(kit completo di viti)

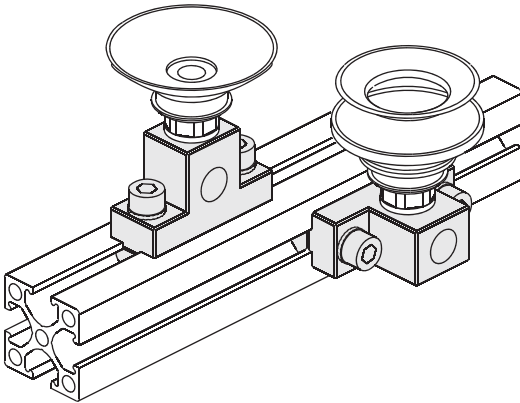
Direct connector for vacuum cup
(kit with screws)



		MFI-A46	MFI-A47
A	[mm]	G1/8"	G1/4"
B	[mm]	G1/8"	G1/8"
C	[mm]	15	15
D	[mm]	24	24
E	[mm]	12	10
EMF/EMB	EMF-1018	-	-
	EMF-1818	-	-
	EMF-2510	EMF-2510	EMF-2510
	EMF-2518	EMF-2518	EMF-2518
	EMF-2525	EMF-2525	EMF-2525
	EMF-5025	EMF-5025	EMF-5025
	EMF-4040	EMF-4040	EMF-4040
	EMF-8040	EMF-8040	EMF-8040
	EMB-2017	-	-
	EMB-3026	EMB-3026	EMB-3026
	EMB-5045	EMB-5045	EMB-5045
Peso / Weight		42 g	40 g



Esempio di utilizzo / Application example

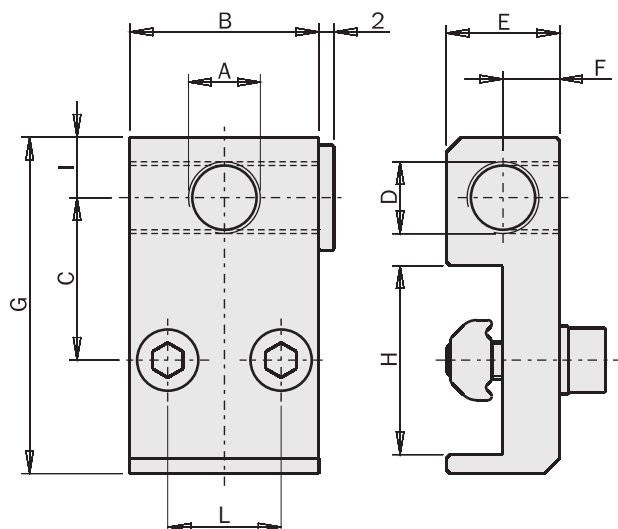


Staffa per ventosa

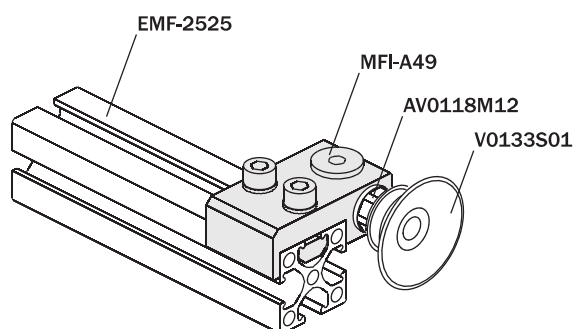
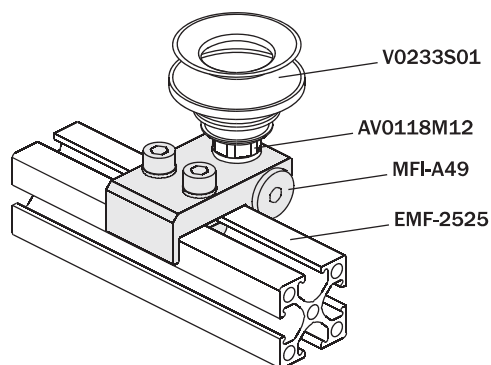
(kit completo di viti)

Mounting bracket for vacuum cup

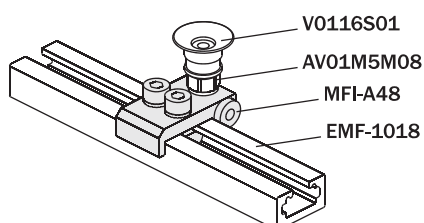
(kit with screws)



	MFI-A48	MFI-A49	MFI-A50
A [mm]	M5	G1/8"	G1/4"
B [mm]	16	25	25
C [mm]	13.5	21.5	21.5
D [mm]	M5	G1/8"	G1/8"
E [mm]	8	15	15
F [mm]	4	7.5	7.5
G [mm]	29	44.5	46.5
H [mm]	18	25	25
I [mm]	4.3	8	10
L [mm]	8	15	15
EMF - ...	EMF-1818	EMF-2510	EMF-2510
	EMF-1018	EMF-2518	EMF-2518
	-	EMF-2525	EMF-2525
	-	EMF-5025	EMF-5025
Peso / Weight	15 g	45 g	45 g

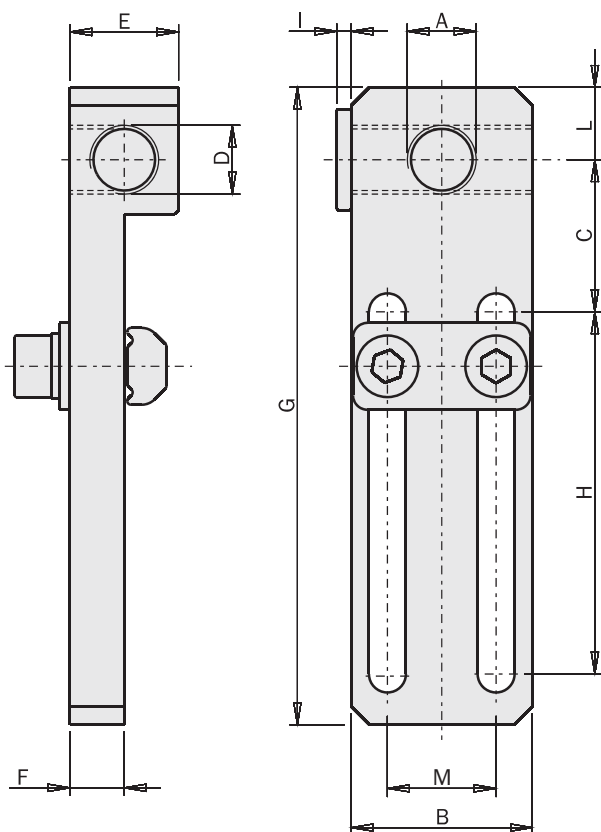
**Esempio di utilizzo / Application example**

Solo per MFI-A48 e MFI-A49
Only for MFI-A48 and MFI-A49



Staffa lunga per ventosa

(kit completo di viti)



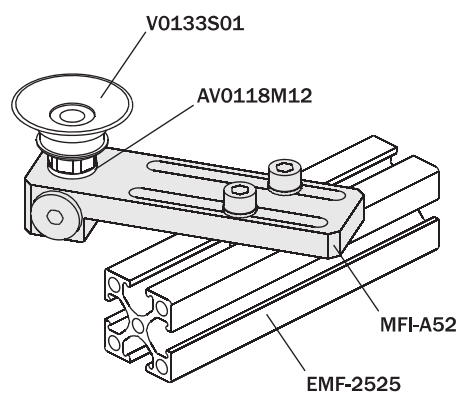
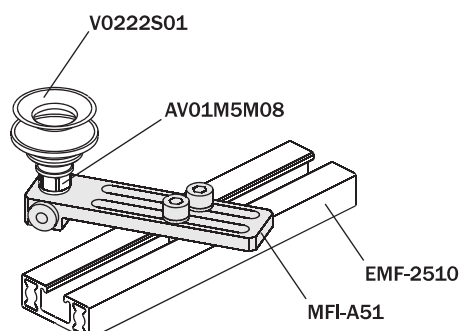
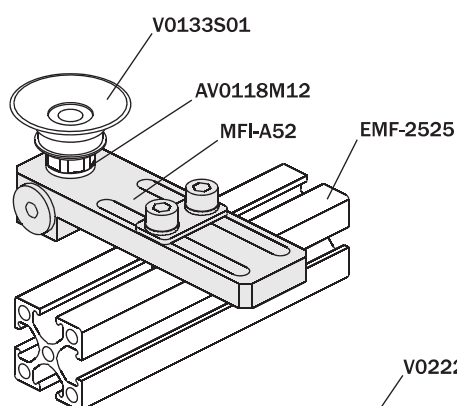
Long mounting bracket for vacuum cup

(kit with screws)

	MFI-A51	MFI-A52	MFI-A53
A [mm]	M5	G1/8"	G1/4"
B [mm]	16	25	25
C [mm]	14	21	21
D [mm]	M5	G1/8"	G1/8"
E [mm]	8	15	15
F [mm]	4	7.5	7.5
G [mm]	65	88	88
H [mm]	40	50	50
I [mm]	2	2	2
L [mm]	6	10	10
M [mm]	8	15	15
EMF/EMB	EMF-1018	EMF-1018	EMF-1018
	EMF-1818	EMF-1818	EMF-1818
	EMF-2510	EMF-2510	EMF-2510
	EMF-2518	EMF-2518	EMF-2518
	EMF-2525	EMF-2525	EMF-2525
	EMF-5025	EMF-5025	EMF-5025
	-	EMF-4040	EMF-4040
	-	EMF-8040	EMF-8040
	EMB-2017	EMB-2017	EMB-2017
	EMB-3026	EMB-3026	EMB-3026
	EMB-5045	EMB-5045	EMB-5045
Peso / Weight	20 g	60 g	60 g

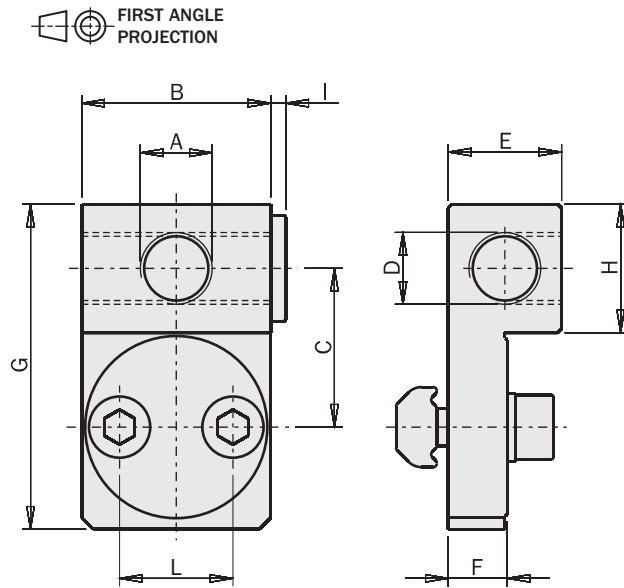


Esempio di utilizzo / Application example



Staffa ad angolo regolabile per ventosa

(kit completo di viti)

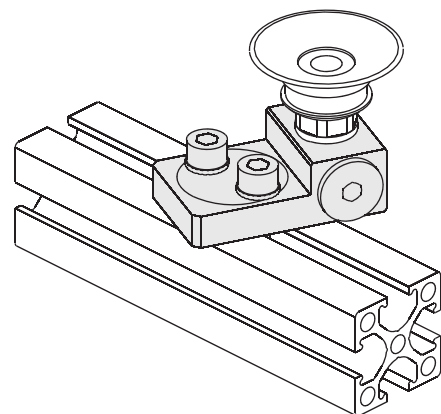
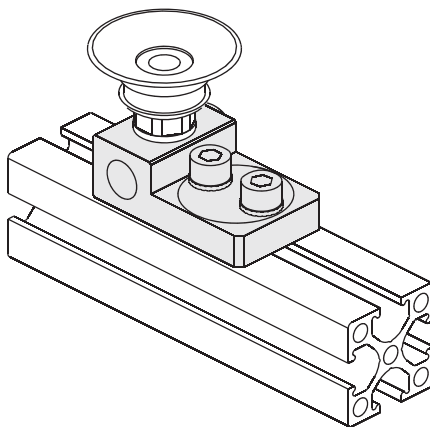


Adjustable angle connector for vacuum cup

(kit with screws)

		MFI-A54	MFI-A55	MFI-A56
A	[mm]	M5	G1/8"	G1/4"
B	[mm]	16	25	25
C	[mm]	13	21	21
D	[mm]	M5	G1/8"	G1/8"
E	[mm]	10	15	15
F	[mm]	5.3	7.8	7.8
G	[mm]	28	43	43
H	[mm]	10	17	17
I	[mm]	2	2	2
L	[mm]	8	15	15
EMF/EMB	EMF-1018	-	-	-
	EMF-1818	-	-	-
	EMF-2510	EMF-2510	EMF-2510	EMF-2510
	EMF-2518	EMF-2518	EMF-2518	EMF-2518
	EMF-2525	EMF-2525	EMF-2525	EMF-2525
	EMF-5025	EMF-5025	EMF-5025	EMF-5025
	-	EMF-4040	EMF-4040	EMF-4040
	-	EMF-8040	EMF-8040	EMF-8040
	EMB-2017	EMB-2017	EMB-2017	EMB-2017
	EMB-3026	EMB-3026	EMB-3026	EMB-3026
	EMB-5045	EMB-5045	EMB-5045	EMB-5045
	Peso / Weight	15 g	45 g	42 g

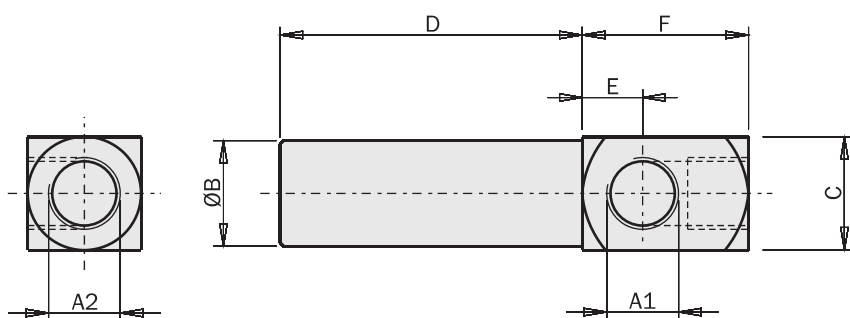
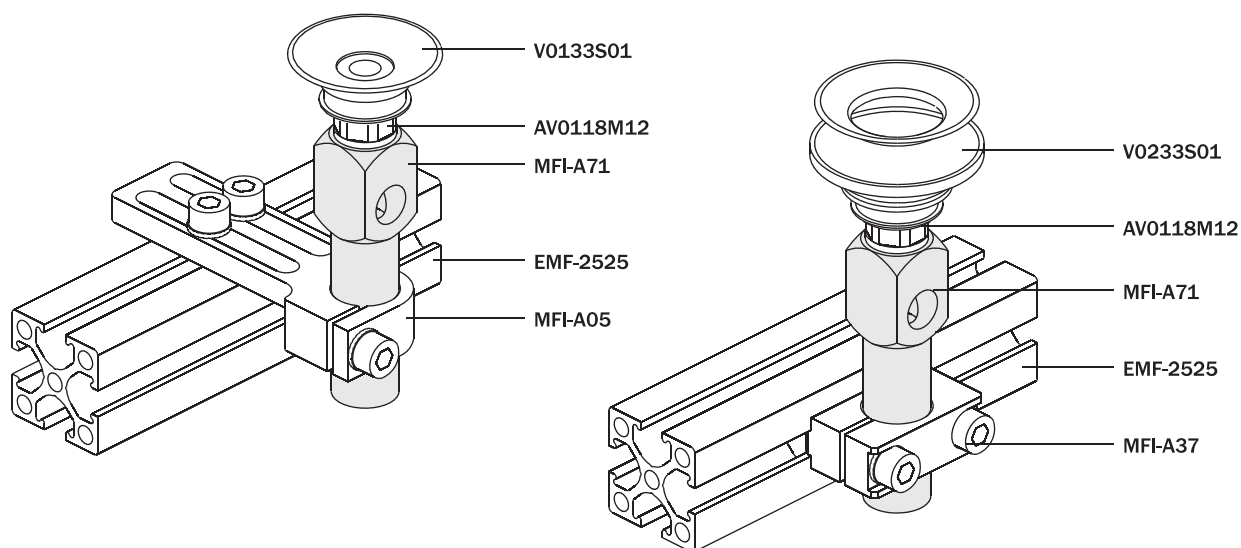
Esempio di utilizzo / Application example



Gambo per ventosa
Leg for vacuum cup

	MFI-A170	MFI-A171	MFI-A172	MFI-A71	MFI-A72	MFI-A73	MFI-A74	MFI-A75	MFI-A76
A1 [mm]	M5	M5	M5	G1/8"	G1/8"	G1/8"	G1/8"	G1/8"	G1/8"
A2 [mm]	M5	M5	M5	G1/8"	G1/8"	G1/8"	G1/4"	G1/4"	G1/4"
B [mm]	Ø10	Ø10	Ø10	Ø14	Ø14	Ø14	Ø20	Ø20	Ø20
C [mm]	11	11	11	15	15	15	20	20	20
D [mm]	30	60	90	40	80	120	50	100	150
E [mm]	6	6	6	8	8	8	8	8	8
F [mm]	16	16	16	22	22	22	23	23	23
Peso / Weight	10 g	13 g	17 g	17 g	25 g	32 g	40 g	60 g	75 g

FIRST ANGLE
PROJECTION


Esempio di utilizzo / Application example


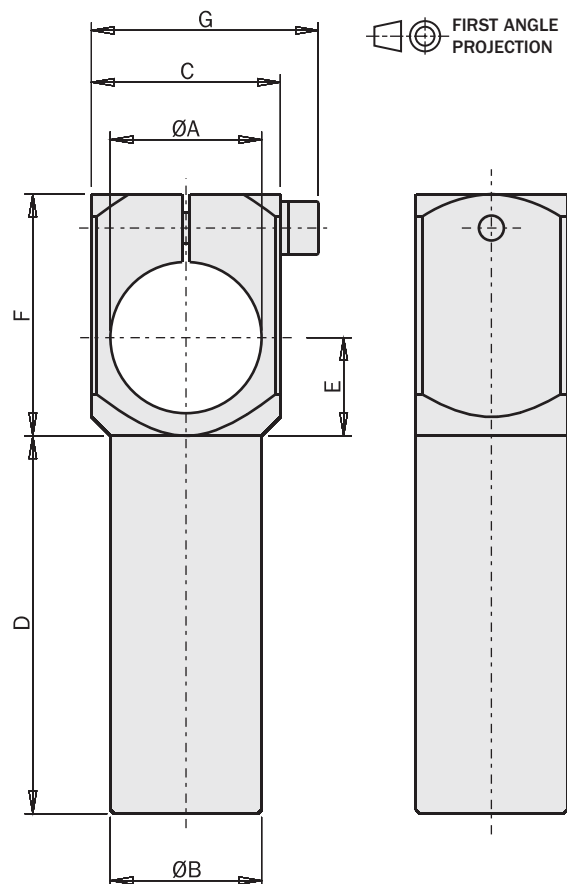
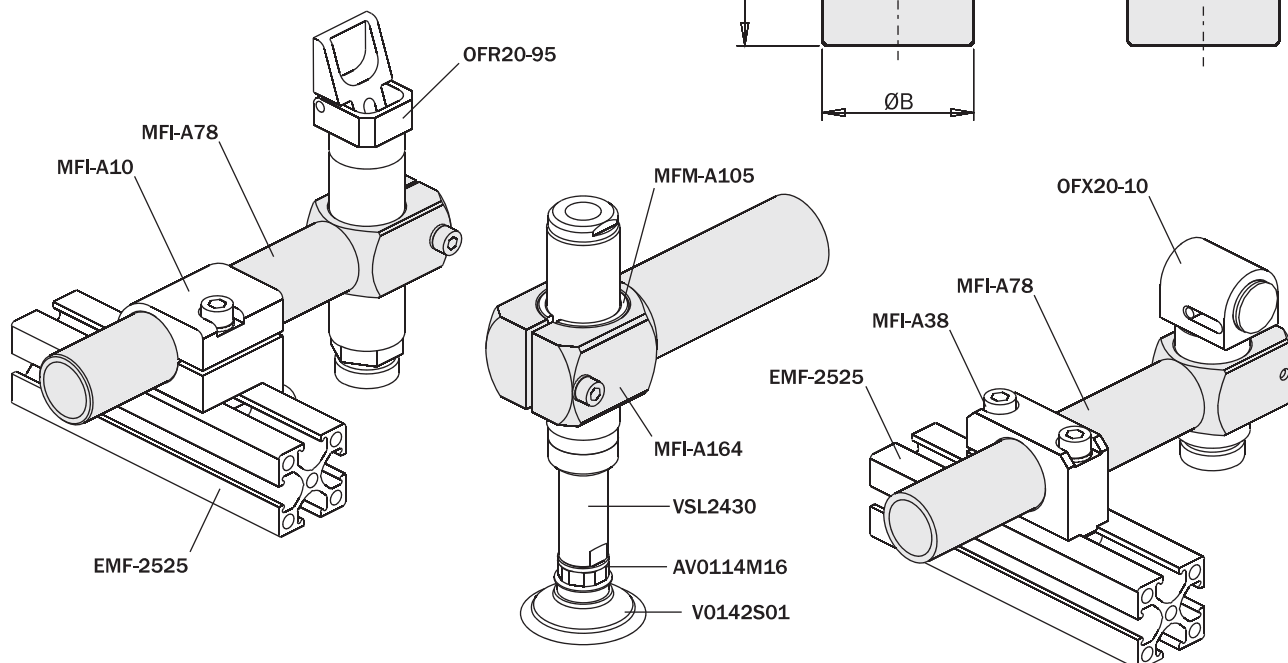
Gambo con cravatta

(kit completo di viti)

Clamp leg

(kit with screws)

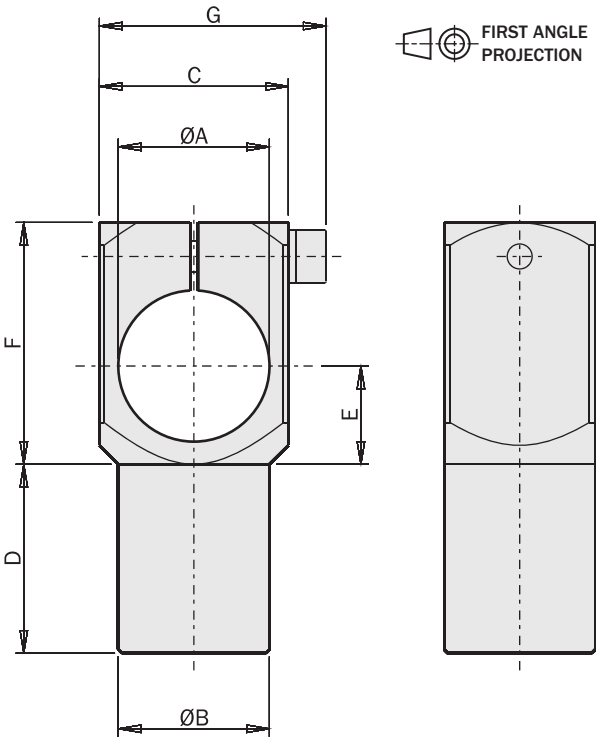
	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Peso Weight
MFI-A158	Ø10	Ø10	14	30	7	19	19	10 g
MFI-A159	Ø10	Ø10	14	60	7	19	19	15 g
MFI-A160	Ø10	Ø10	14	90	7	19	19	20 g
MFI-A161	Ø14	Ø14	18	40	10	26	24	20 g
MFI-A162	Ø14	Ø14	18	80	10	26	24	30 g
MFI-A163	Ø14	Ø14	18	120	10	26	24	40 g
MFI-A77	Ø20	Ø20	25	50	13	32	32	45 g
MFI-A78	Ø20	Ø20	25	100	13	32	32	70 g
MFI-A79	Ø20	Ø20	25	150	13	32	32	105 g
MFI-A164	Ø30	Ø30	40	80	19	44	46	170 g
MFI-A165	Ø30	Ø30	40	140	19	44	46	230 g
MFI-A166	Ø30	Ø30	40	200	19	44	46	300 g

**Esempio di utilizzo / Application example**

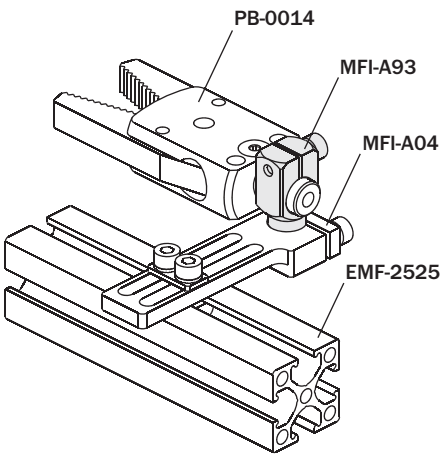
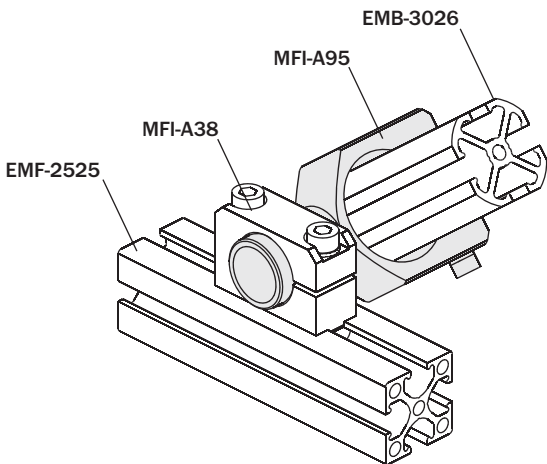
Gambo con cravatta
(kit completo di viti)

Clamp leg
(kit with screws)

	MFI-A93	MFI-A157	MFI-A94	MFI-A95	MFI-A203
A [mm]	Ø10	Ø14	Ø20	Ø30	Ø30
B [mm]	Ø10	Ø14	Ø20	Ø20	Ø30
C [mm]	14x10	18x14	25x20	40x20	40x30
D [mm]	15	20	25	25	40
E [mm]	7	10	13	19	19
F [mm]	19	26	32	44	44
G [mm]	19	24	30	45	47
Peso / Weight	8 g	15 g	35 g	60 g	130 g



Esempio di utilizzo / Application example



Gambo con cravatta robusto

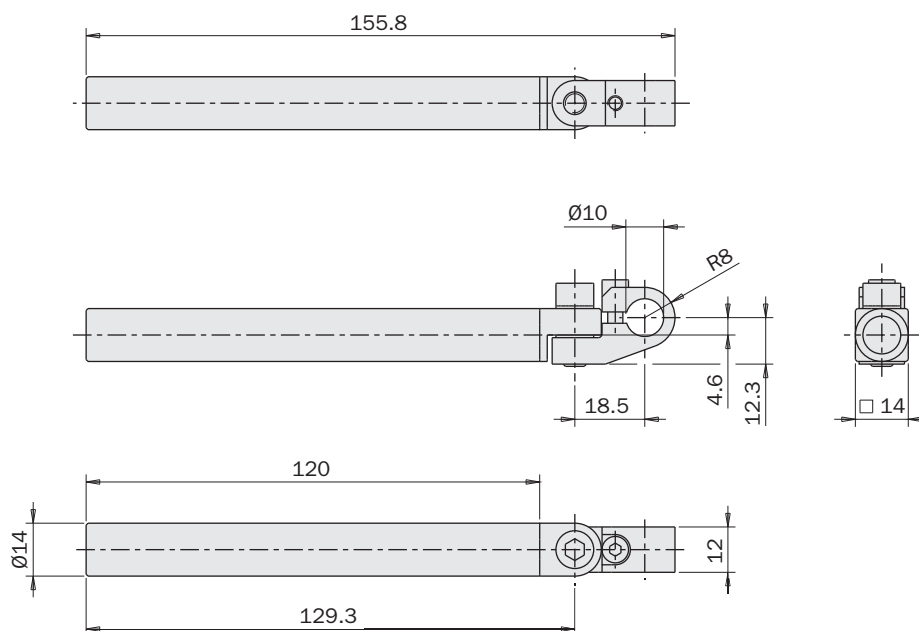
(kit completo di viti)

Heavy duty clamp leg

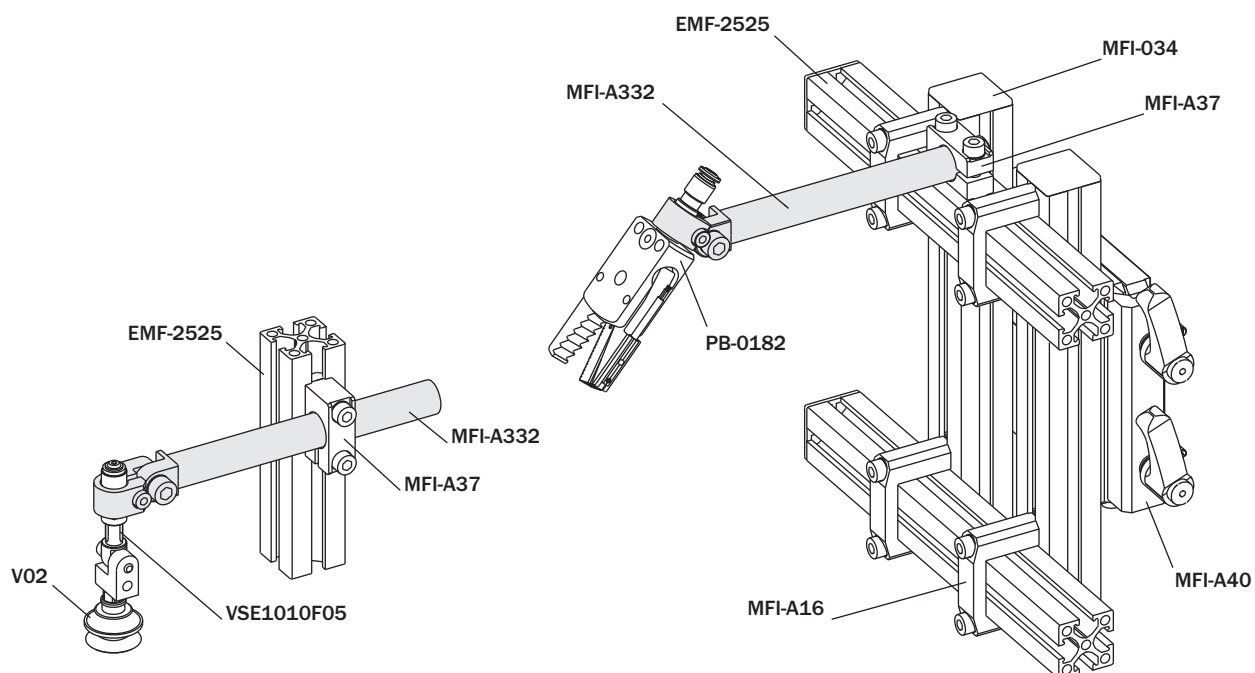
(kit with screws)

NEW**MFI-A332**

Peso / Weight 50 g



FIRST ANGLE PROJECTION

**Esempio di utilizzo / Application example**

Blocco distributore laterale (1 canale)

(kit completo di viti)



G1/8" (x5)

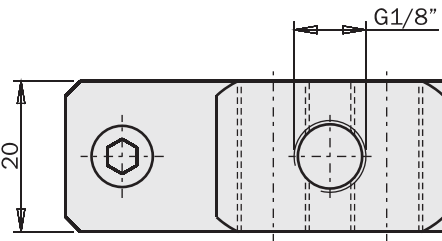
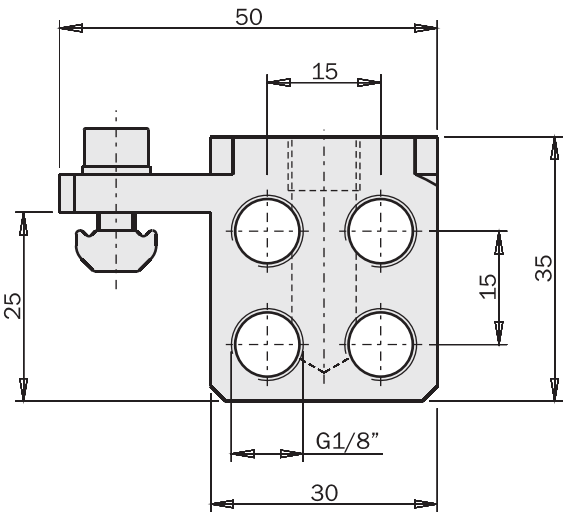
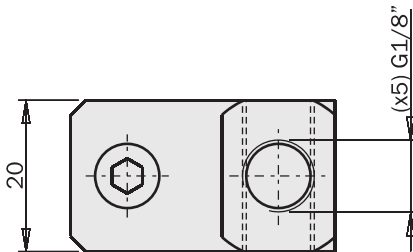
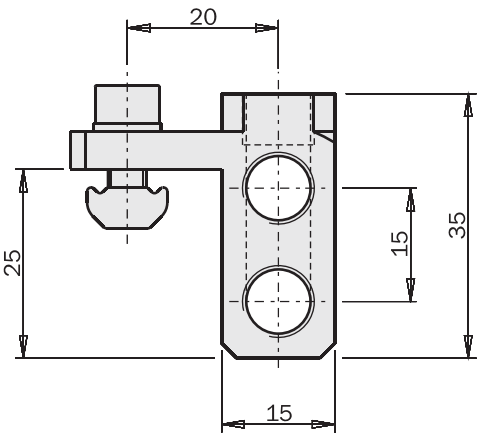


G1/8" (x9)

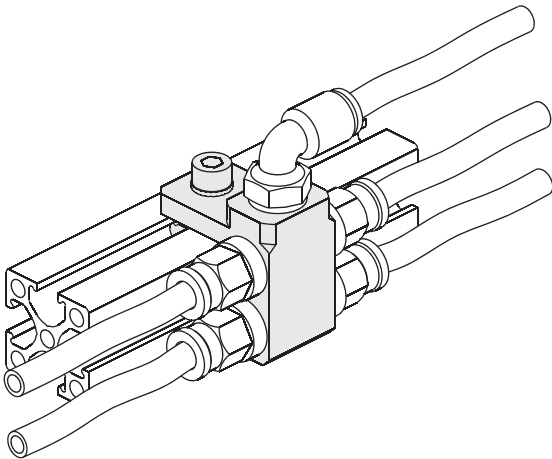
Side manifold block (1 channel)

(kit with screws)

	MFI-A68	MFI-A69
EMF-....	EMF-2518	EMF-2518
	EMF-2525	EMF-2525
	EMF-5025	EMF-5025
Peso / Weight	30 g	50 g



Esempio di utilizzo / Application example



Blocco distributore laterale (2 canali)

(kit completo di viti)

Side manifold block (2 channels)

(kit with screws)

**G1/8" (5+5)****MFI-A70**

EMF-2518

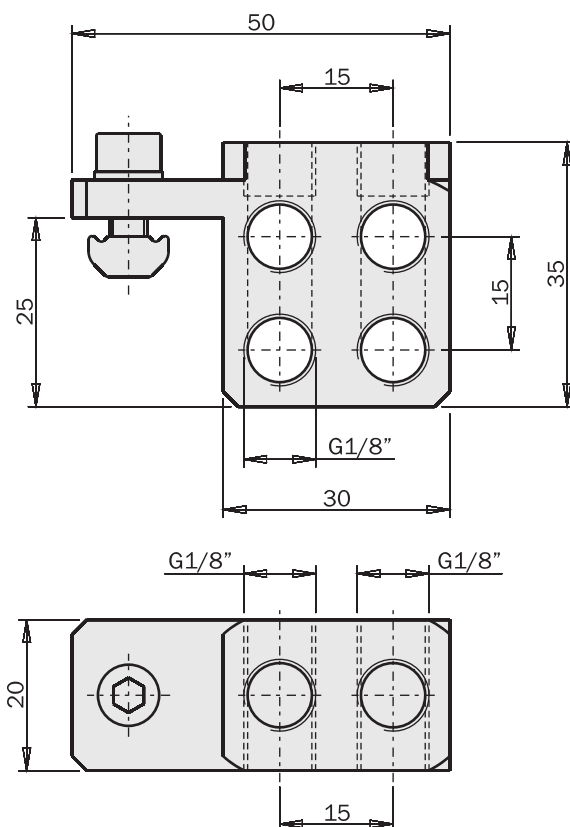
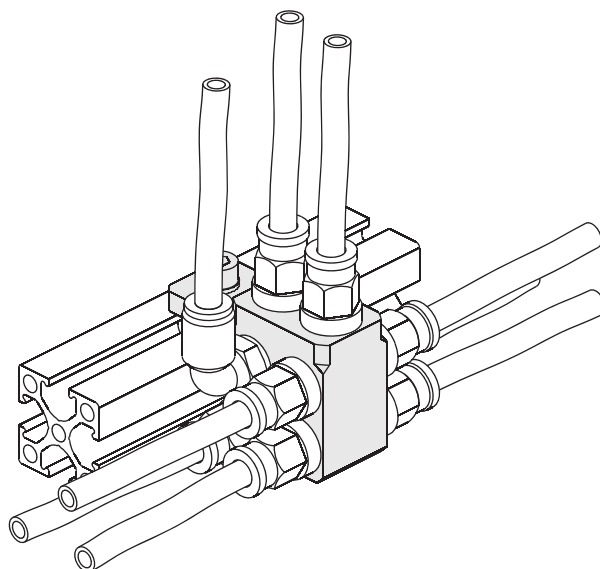
EMF-....

EMF-2525

EMF-5025

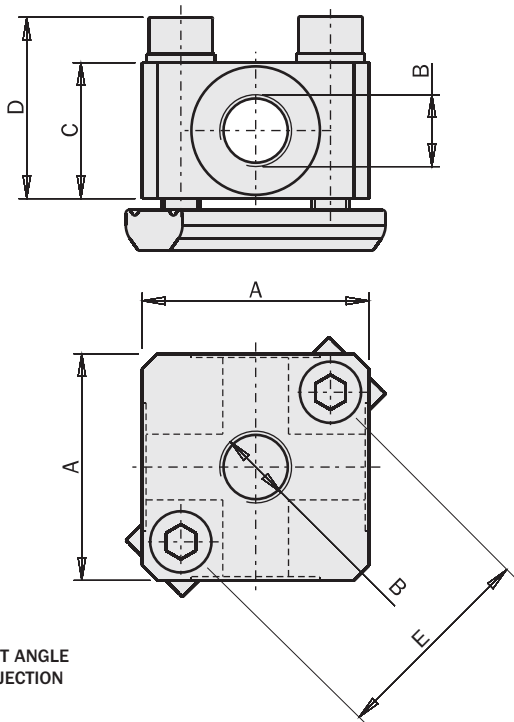
Peso / Weight

48 g

**FIRST ANGLE
PROJECTION**
**Esempio di utilizzo / Application example**

Blocco distributore
(kit completo di viti)

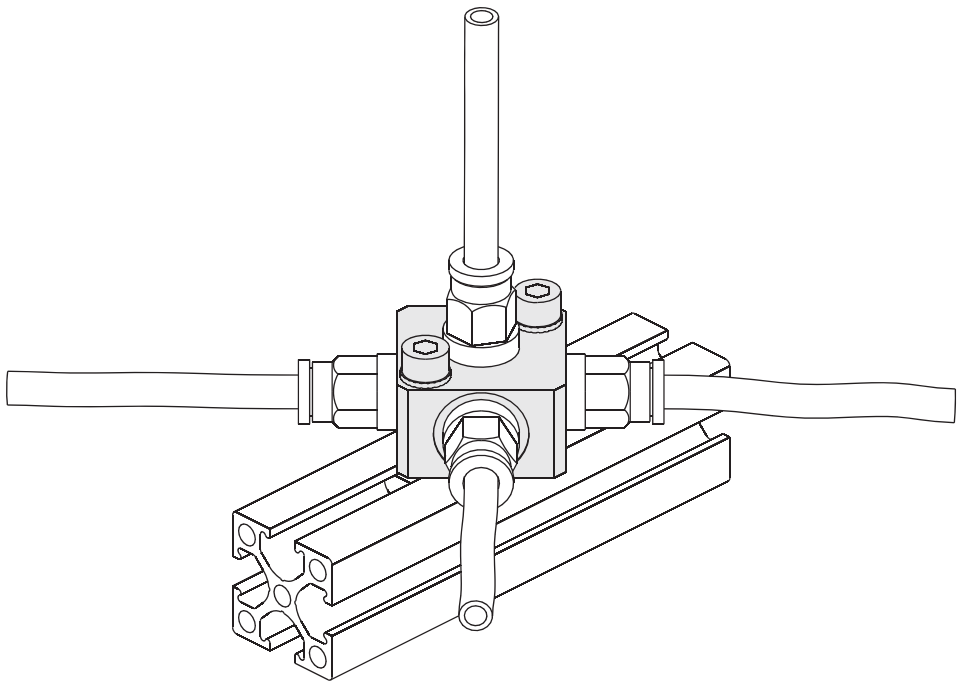
Manifold block
(kit with screws)



		MFI-A66	MFI-A67
A	[mm]	30	40
B	[mm]	(x5) G1/8"	(x5) G1/4"
C	[mm]	18	20
D	[mm]	24	23
E	[mm]	28	35
Peso / Weight		50 g	80 g



Esempio di utilizzo / Application example

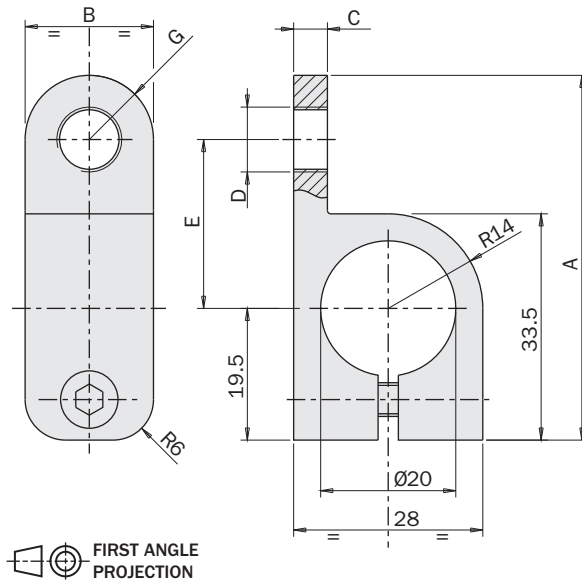


Supporto orientabile

(kit completo di viti)

Swivelling support

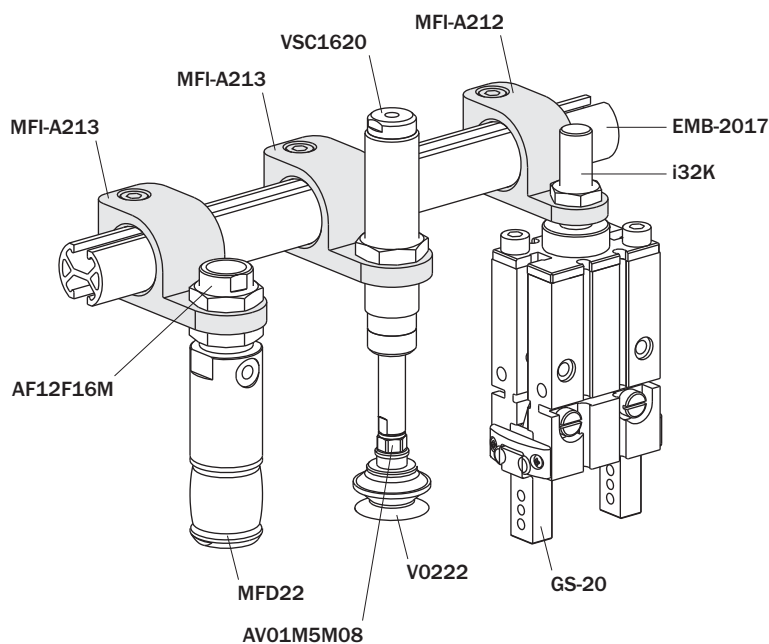
(kit with screws)



	MFI-A212	MFI-A213
A [mm]	53.5	60.5
B [mm]	19	24
C [mm]	5	6
D [mm]	G1/8"	M16x1
E [mm]	25	29
G [mm]	R9.5	R12
Peso / Weight	30 g	40 g



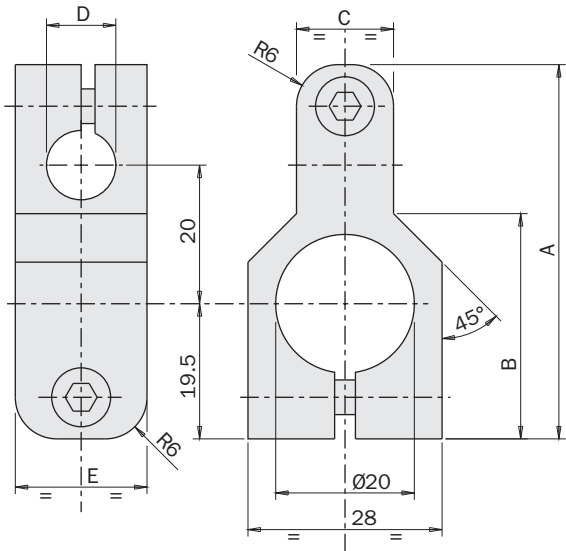
Esempio di utilizzo / Application example



Blocco di connessione a croce

(kit completo di viti)

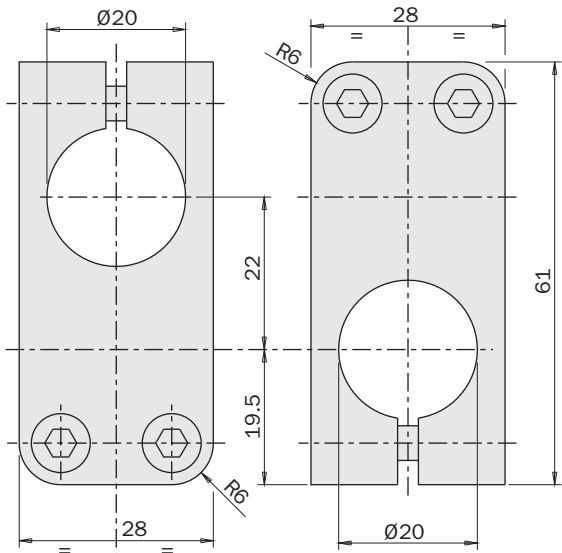
	MFI-A214	MFI-A215
A [mm]	54	56
B [mm]	32.5	30.5
C [mm]	14	18
D [mm]	Ø10	Ø14
E [mm]	19	22
Peso / Weight	40 g	45 g



Cross connection block

(kit with screws)

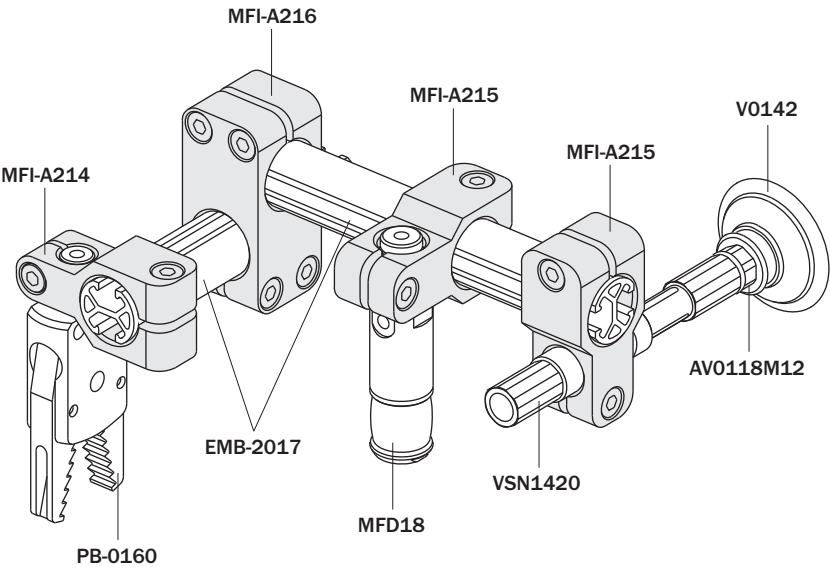
	MFI-A216
Peso / Weight	70 g



FIRST ANGLE PROJECTION



Esempio di utilizzo / Application example



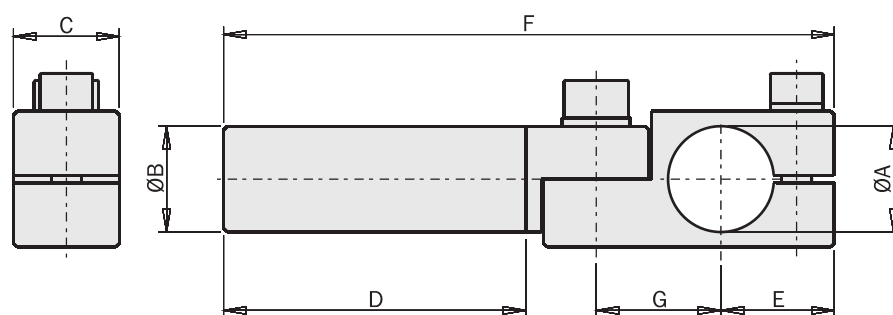
Gomito con cravatta

(kit completo di viti)

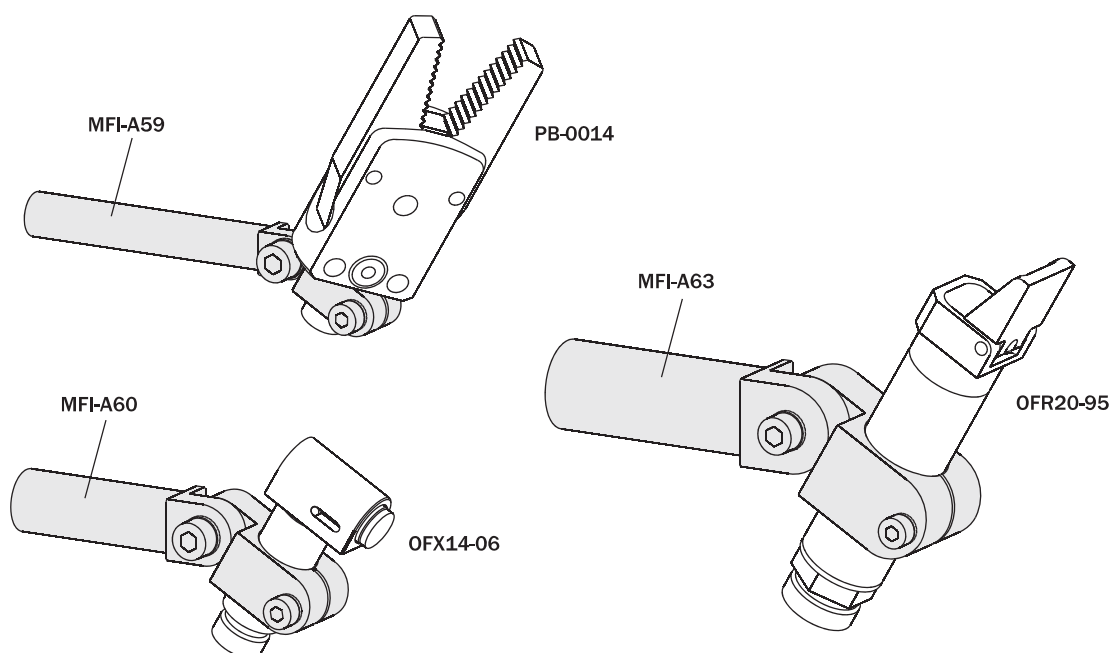
Elbow arm

(kit with screws)

		MFI-A59	MFI-A60	MFI-A61	MFI-A62	MFI-A63	MFI-A64	MFI-A65	MFI-A167	MFI-A168	MFI-A169
A	[mm]	Ø10	Ø14	Ø14	Ø14	Ø20	Ø20	Ø20	Ø30	Ø30	Ø30
B	[mm]	Ø10	Ø14	Ø14	Ø14	Ø20	Ø20	Ø20	Ø30	Ø30	Ø30
C	[mm]	10	14	14	14	20	20	20	30	30	30
D	[mm]	60	40	80	120	50	100	150	80	140	200
E	[mm]	13	16	16	16	19	19	19	27	27	27
F	[mm]	93	82	122	162	104	154	204	160	220	280
G	[mm]	12.5	16.5	16.5	16.5	22.5	22.5	22.5	34.8	34.8	34.8
Peso / Weight		20 g	32 g	42 g	50 g	70 g	90 g	120 g	235 g	300 g	360 g



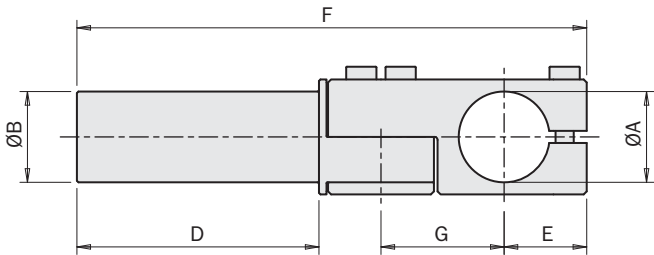
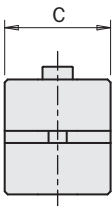
FIRST ANGLE PROJECTION

**Esempio di utilizzo / Application example**

Snodo robusto con cravatta
(kit completo di viti)

Heavy duty elbow arm
(kit with screws)

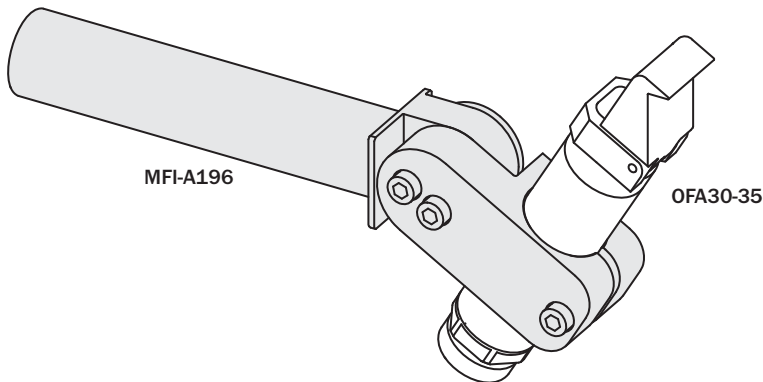
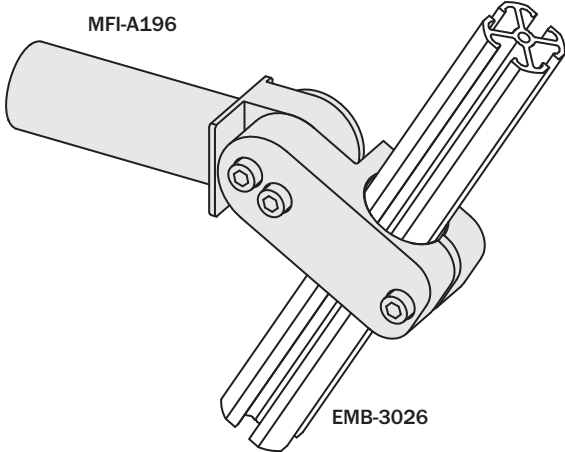
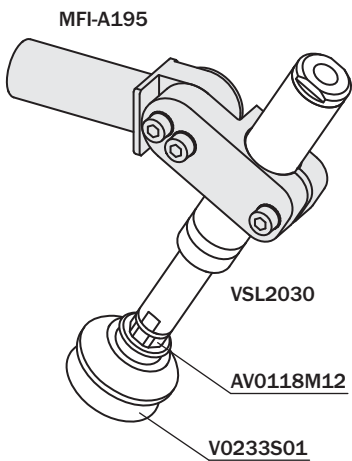
		MFI-A195	MFI-A199	MFI-A200	MFI-A196	MFI-A197	MFI-A198
A	[mm]	Ø20	Ø20	Ø20	Ø30	Ø30	Ø30
B	[mm]	Ø20	Ø20	Ø20	Ø30	Ø30	Ø30
C	[mm]	25	25	25	35	35	35
D	[mm]	50	100	150	80	140	200
E	[mm]	19.5	19.5	19.5	27.3	27.3	27.3
F	[mm]	113.5	163.5	213.5	168.5	228.5	288.5
G	[mm]	28.7	28.7	28.7	40.7	40.7	40.7
Peso / Weight		95 g	115 g	130 g	330 g	380 g	435 g



FIRST ANGLE
PROJECTION



Esempio di utilizzo / Application example



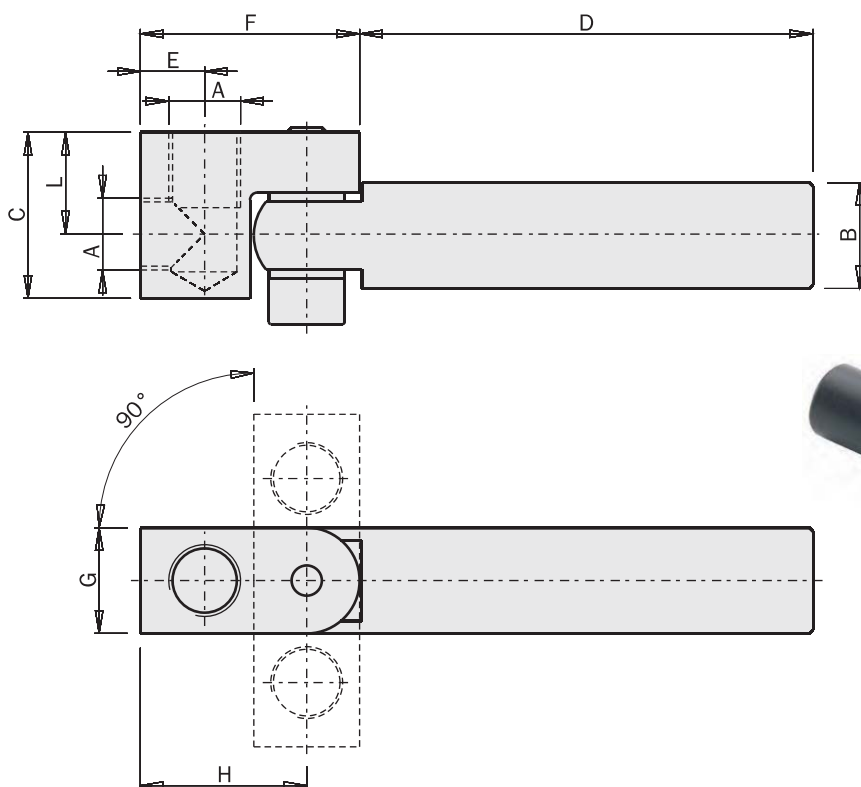
Gomito per ventosa

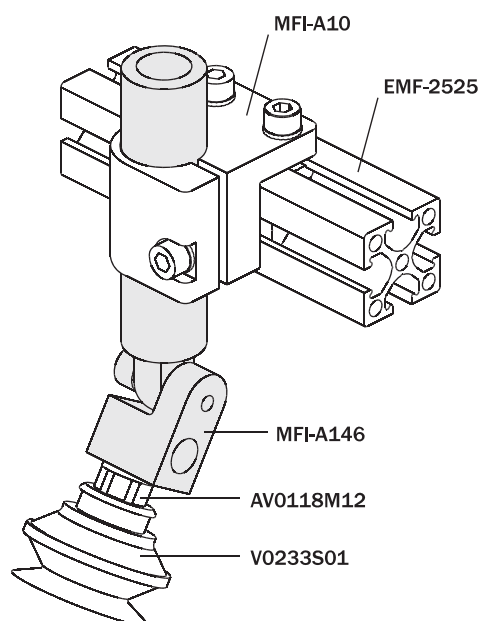
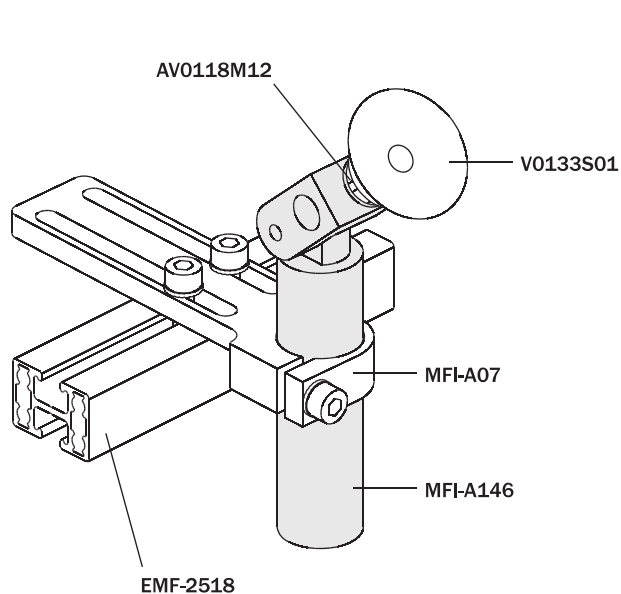
(kit completo di viti)

Elbow arm for vacuum cup

(kit with screws)

	A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	L [mm]	Peso Weight
MFI-A142	M5	Ø10	16.5	45	5.5	19	14	22	11	18 g
MFI-A143	M5	Ø10	16.5	90	5.5	19	14	22	11	27 g
MFI-A144	G1/8"	Ø14	22	60	8.5	29	14	22	13.5	33 g
MFI-A145	G1/8"	Ø14	22	120	8.5	29	14	22	13.5	50 g
MFI-A146	G1/8"	Ø20	22	78	8.5	29	14	22	13.5	60 g
MFI-A147	G1/8"	Ø20	22	153	8.5	29	14	22	13.5	100 g
MFI-A148	G1/4"	Ø20	27	75	12	38	20	28	15	75 g
MFI-A149	G1/4"	Ø20	27	150	12	38	20	28	15	115 g



 FIRST ANGLE
PROJECTION
**Esempio di utilizzo / Application example**

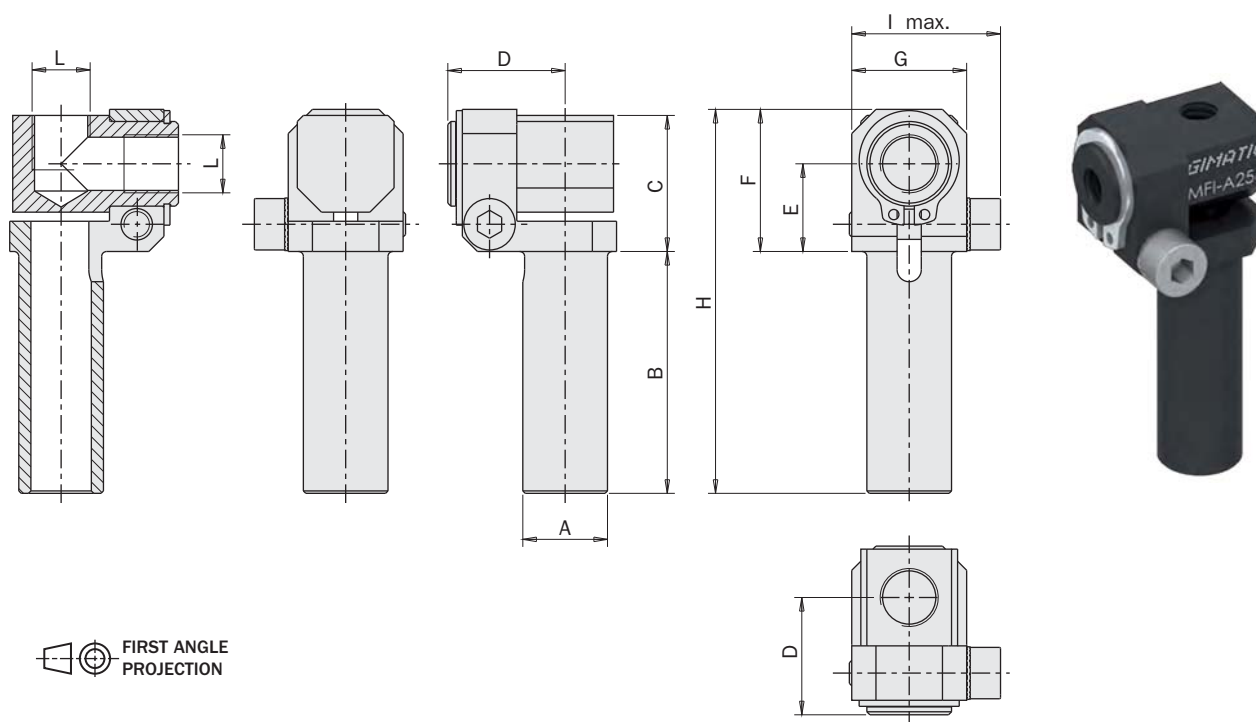
Gomito a cravatta per ventosa

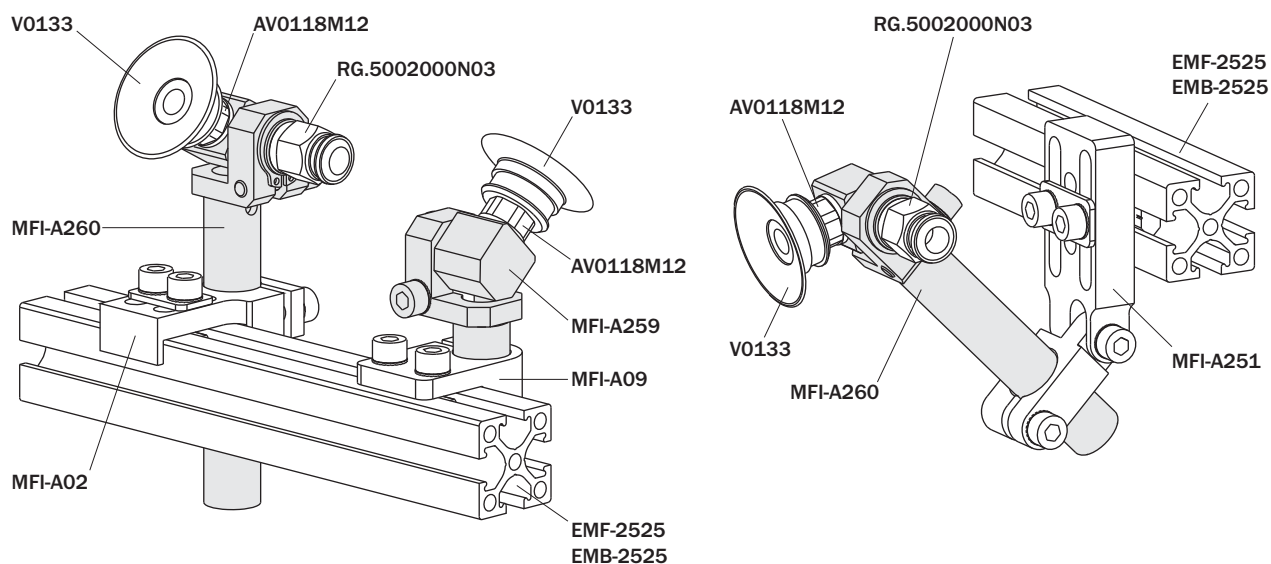
(kit completo di viti)

Elbow arm for vacuum cup clamping

(kit with screws)

	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L [mm]	Peso Weight
MFI-A256	Ø10	30	17	14.5	11	18	14	48	18.5	M5	14 g
MFI-A257	Ø10	60	17	14.5	11	18	14	78	18.5	M5	17 g
MFI-A258	Ø10	90	17	14.5	11	18	14	108	18.5	M5	20 g
MFI-A259	Ø14	40	22.5	19.4	14.5	23.5	19	63.5	24.5	G1/8"	32 g
MFI-A260	Ø14	80	22.5	19.4	14.5	23.5	19	103.5	24.5	G1/8"	40 g
MFI-A261	Ø14	120	22.5	19.4	14.5	23.5	19	143.5	24.5	G1/8"	48 g
MFI-A290	Ø20	50	28	23.3	18	30	24	80	31	G1/8"	63 g
MFI-A291	Ø20	100	28	23.3	18	30	24	130	31	G1/8"	78 g
MFI-A292	Ø20	150	28	23.3	18	30	24	180	31	G1/8"	93 g
MFI-A262	Ø20	50	28	23.3	18	30	24	80	31	G1/4"	58 g
MFI-A263	Ø20	100	28	23.3	18	30	24	130	31	G1/4"	73 g
MFI-A264	Ø20	150	28	23.3	18	30	24	180	31	G1/4"	88 g


 FIRST ANGLE
PROJECTION

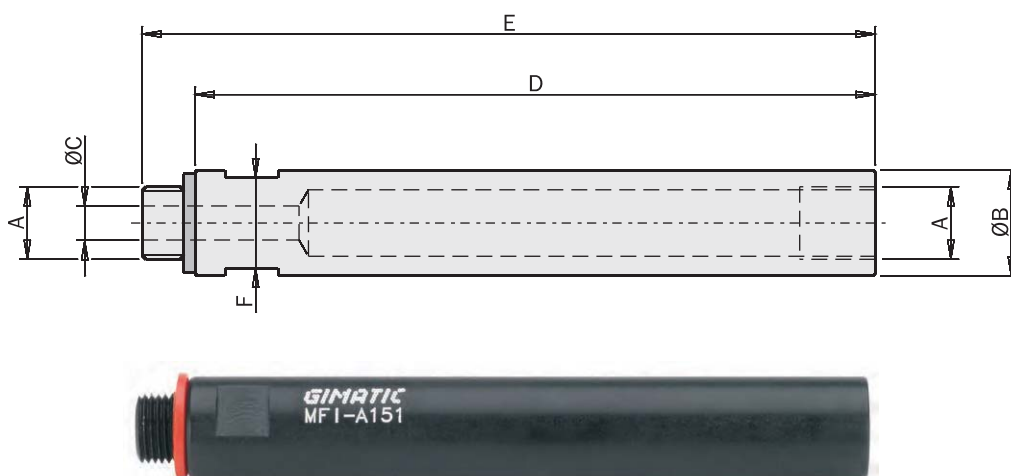
Esempio di utilizzo / Application example


Prolunga con canale per l'aria

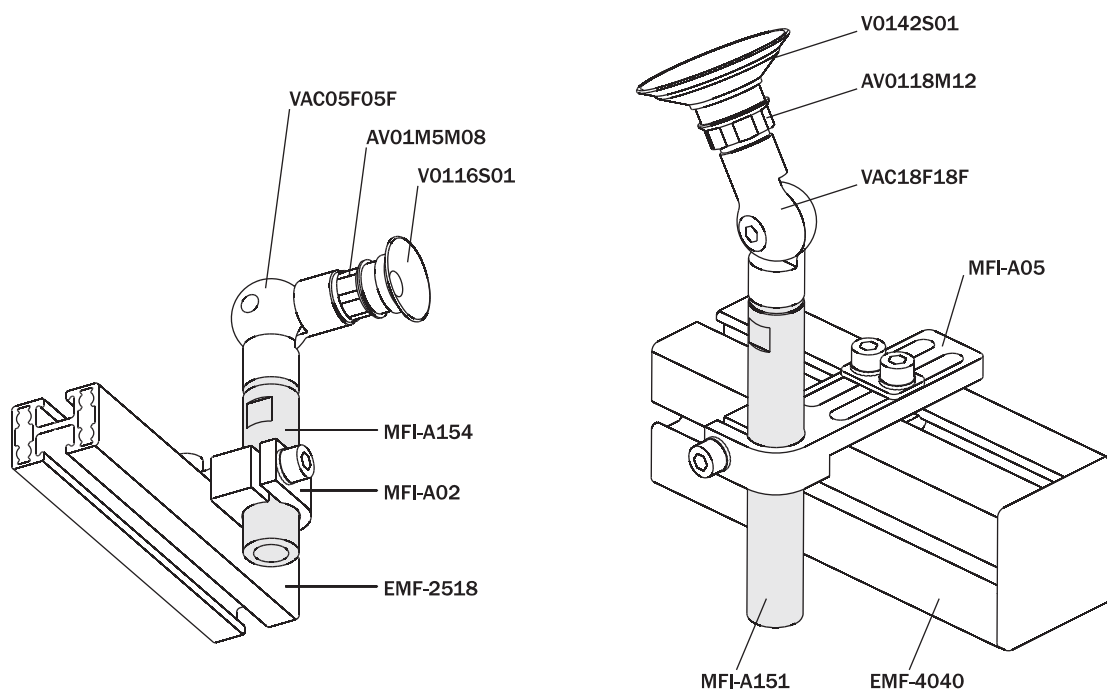
Extension tube with air lead

	MFI-A154	MFI-A155	MFI-A150	MFI-A151	MFI-A152	MFI-A153
A [mm]	M5	M5	G1/8"	G1/8"	G1/4"	G1/4"
B [mm]	Ø10	Ø10	Ø14	Ø14	Ø20	Ø20
C [mm]	Ø2	Ø2	Ø4.5	Ø4.5	Ø6.5	Ø6.5
D [mm]	45	90	45	90	45	90
E [mm]	50	95	52	97	53	98
F [mm]	8	8	12	12	17	17
Peso / Weight	10 g	15 g	15 g	25 g	30 g	55 g

FIRST ANGLE
PROJECTION

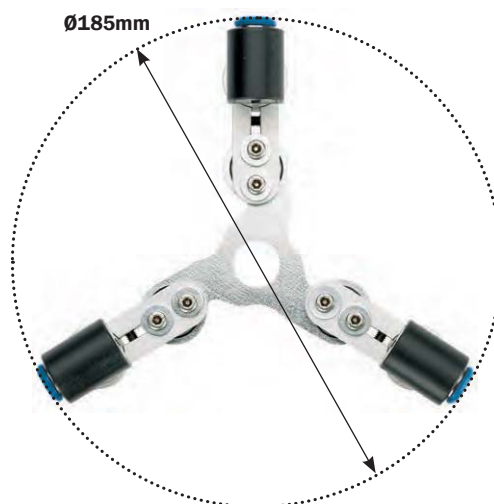


Esempio di utilizzo / Application example



Staffa per il montaggio di tre unità
Mounting bracket for three units
MFI-A194

Peso / Weight	200 g


OFX20-10


Staffa per il montaggio della pinza OFP20 su profilo

(kit completo di viti)

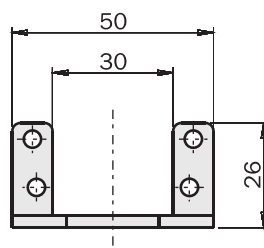
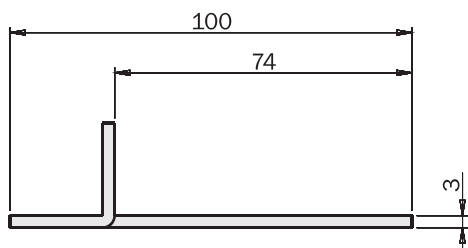
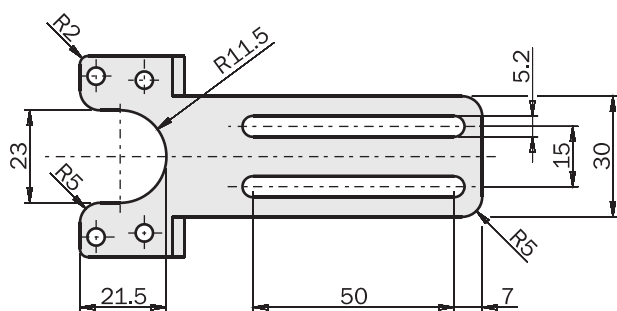
OFP20 gripper mounting bracket, to use with profile

(kit with screws)

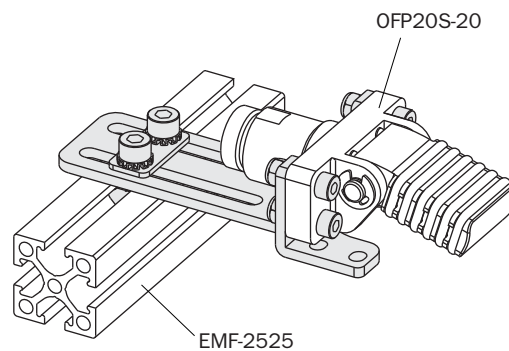
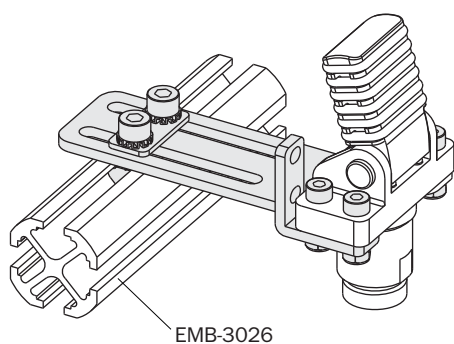
MFI-A176

Peso / Weight 95 g

FIRST ANGLE
PROJECTION

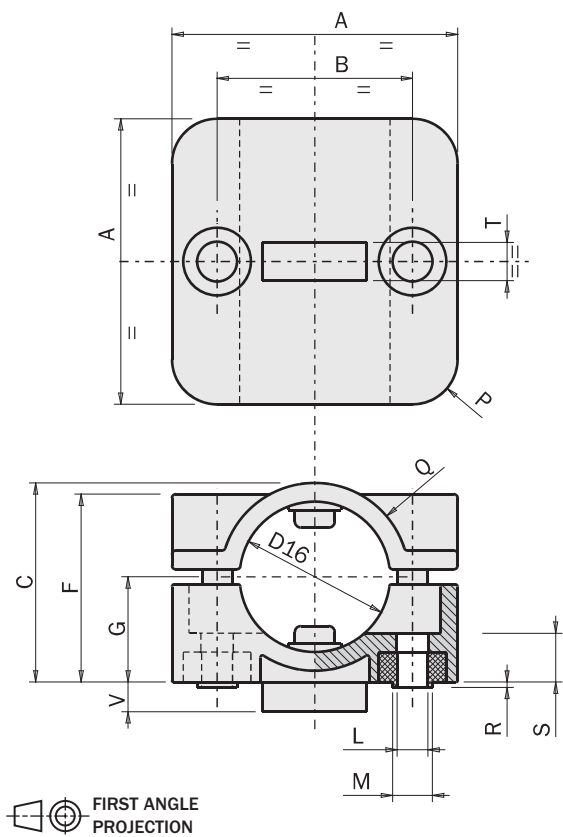


Esempio di utilizzo / Application example



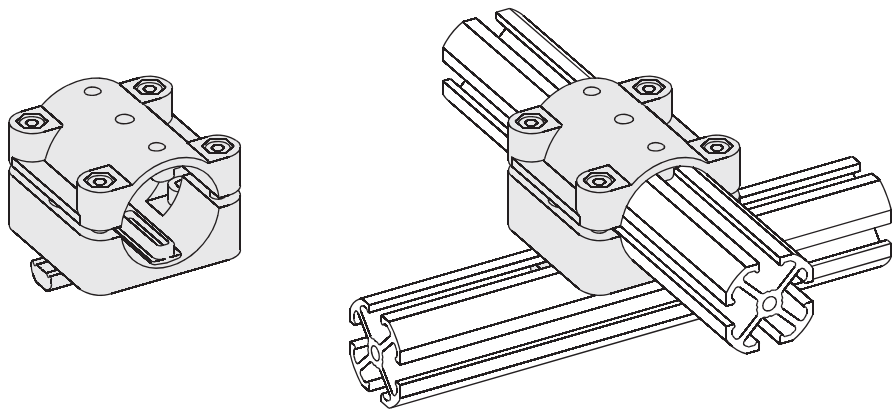
Kit di bloccaggio in plastica per estruso
(kit completo di viti)

Locking kit in technopolymer for extruded profile
(kit with screws)



	MFI-A188	MFI-A189	MFI-A190
A [mm]	38	48	73
B [mm]	26	36	59
C [mm]	26.5	36.5	56
D16 [mm]	Ø20	Ø30	Ø50
F [mm]	25	32	45.5
G [mm]	14	18.5	28
L [mm]	Ø4.1	Ø5.1	6.3
M [mm]	Ø5.3	Ø6.4	-
P [mm]	6	6	7
Q [mm]	12.5	12.5	28
R [mm]	0.7	1	-
S [mm]	6.5	6.5	16
T [mm]	-	-	10.3
V [mm]	-	-	3
Peso / Weight	48 g	77 g	510 g

Esempio di utilizzo / Application example

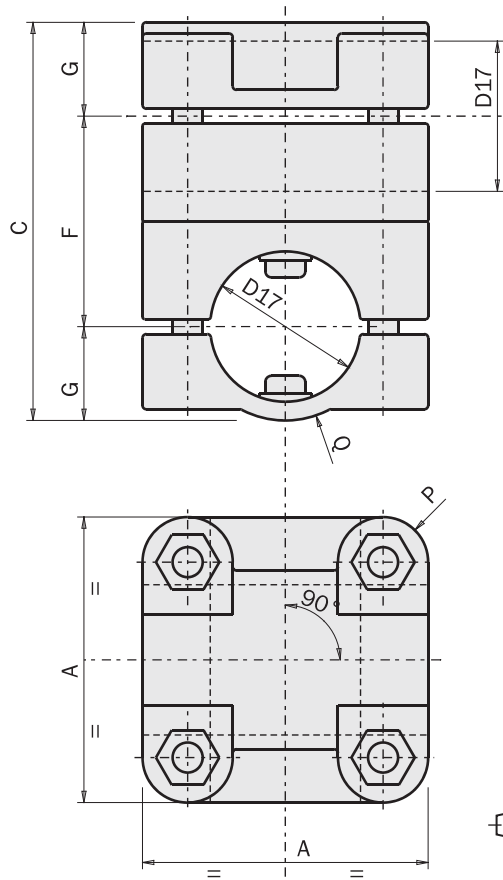


Kit di bloccaggio in plastica per doppio estruso

(kit completo di viti)

Locking kit in technopolymer for double extruded profile

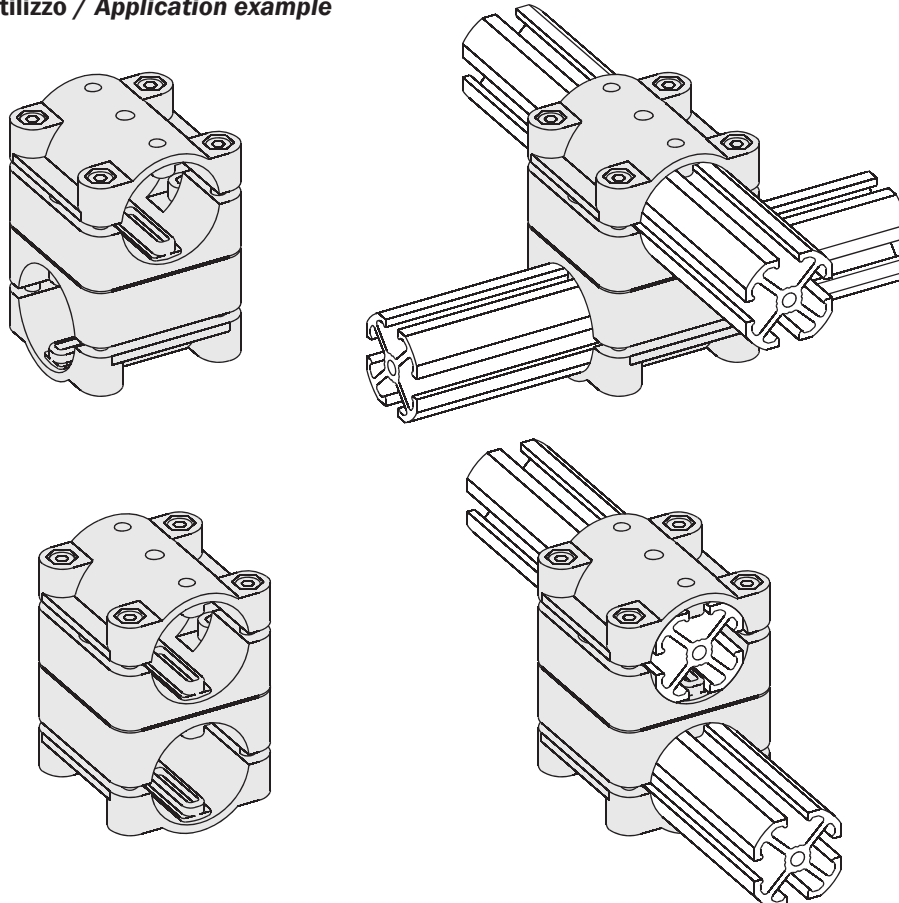
(kit with screws)



	MFI-A191	MFI-A192	MFI-A193
A [mm]	38	48	73
C [mm]	53	73	112
D17 [mm]	Ø20	Ø30	Ø50
F [mm]	28	37	56
G [mm]	12.5	18	28
P [mm]	6	6	7
Q [mm]	12.5	18	28
Peso / Weight	77 g	122 g	930 g

FIRST ANGLE PROJECTION

Esempio di utilizzo / Application example

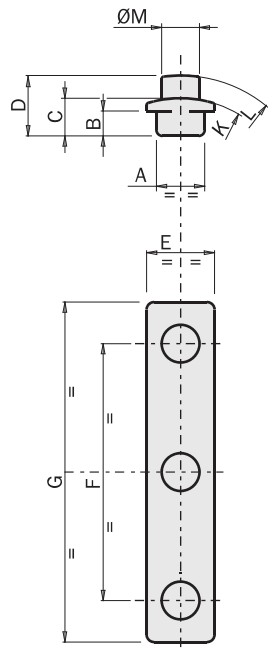


Linguette di centraggio tonde

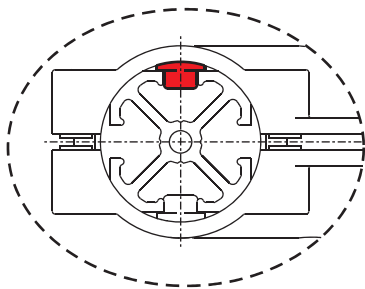
(Confezione da 10 pezzi)

Rounded centering feather keys

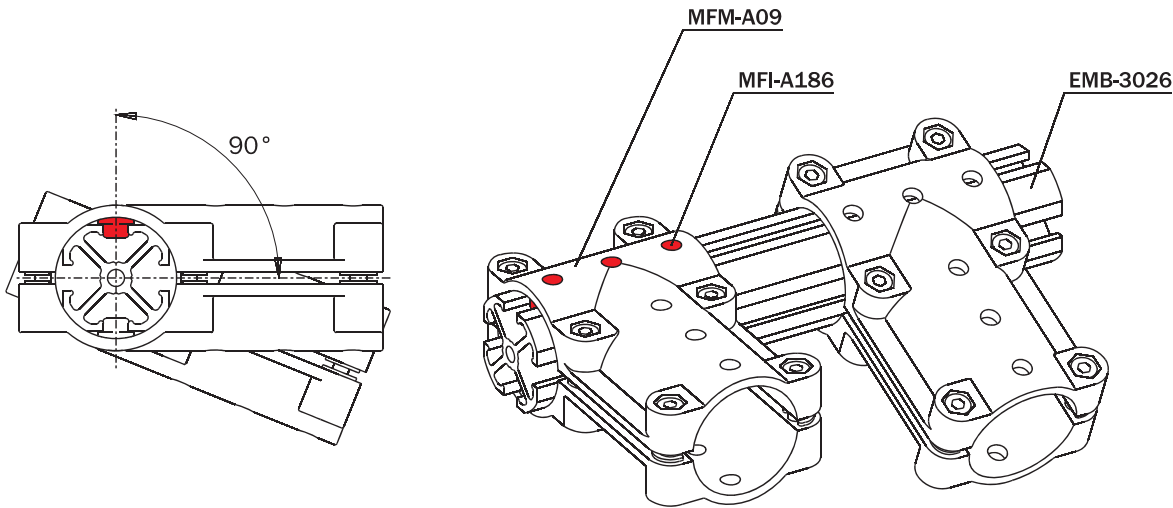
(10 pieces package)



	MFI-A186	MFI-A185	MFI-A187
A [mm]	6.4	6.4	6.4
B [mm]	3.3	3	3
C [mm]	5	4.5	5.5
D [mm]	8	7	8.5
E [mm]	9	8.5	15
F [mm]	34	28	44
G [mm]	45	36	60
K [mm]	R15	R10	R25
L [mm]	R18	R12.5	R28
M [mm]	Ø5	Ø4	Ø8
EMB	EMB-3026	EMB-2017	EMB-5045
Peso / Weight	20 g	10 g	40 g



Esempio di utilizzo / Application example



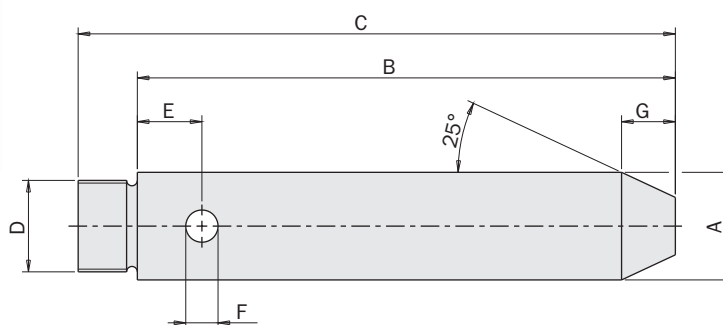
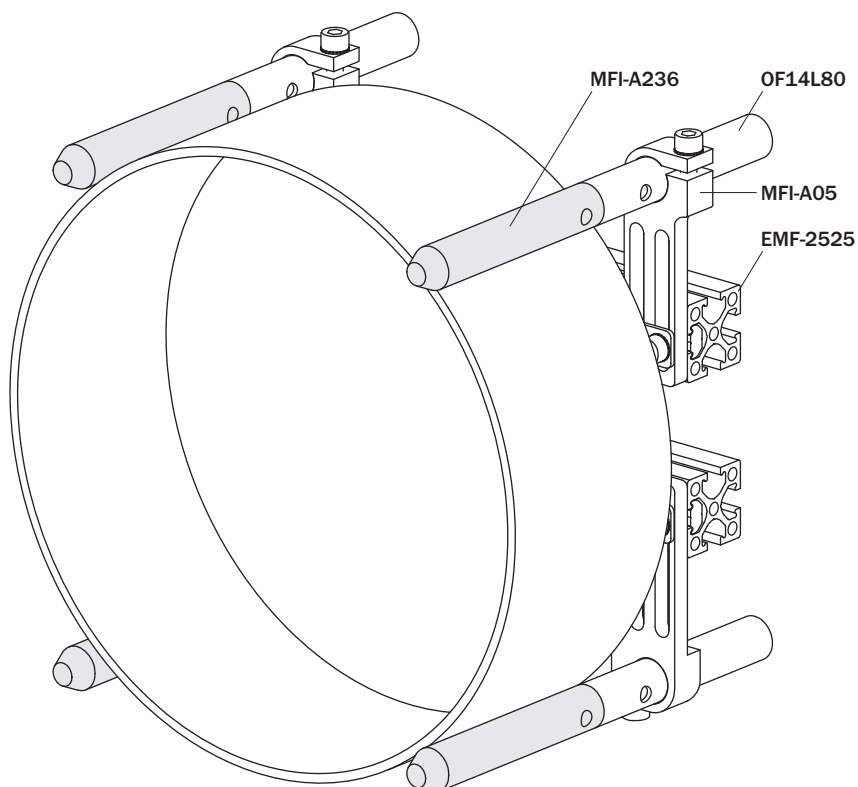
Spina di centraggio filettata

(Materiale: POM)

Threaded centering pin

(Material: POM)

	MFI-A235	MFI-A236	MFI-A237	MFI-A238
A [mm]	Ø10	Ø14	Ø20	Ø30
B [mm]	60	80	100	100
C [mm]	68	88	111	113
D [mm]	M8x1	M12x1	M17x1	M27x1
E [mm]	6	8	12	15
F [mm]	Ø3.5	Ø5	Ø6	Ø8
G [mm]	5	7	10	14
Peso / Weight	7 g	20 g	45 g	45 g

**Esempio di utilizzo / Application example**

Staffa per fissaggio cavi

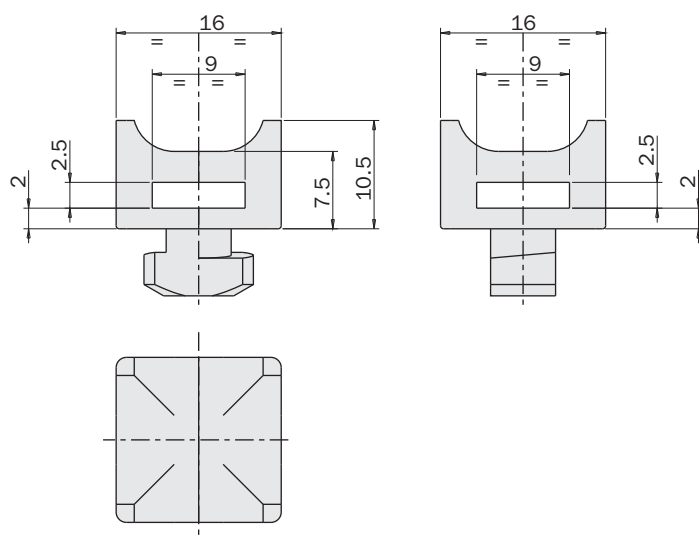
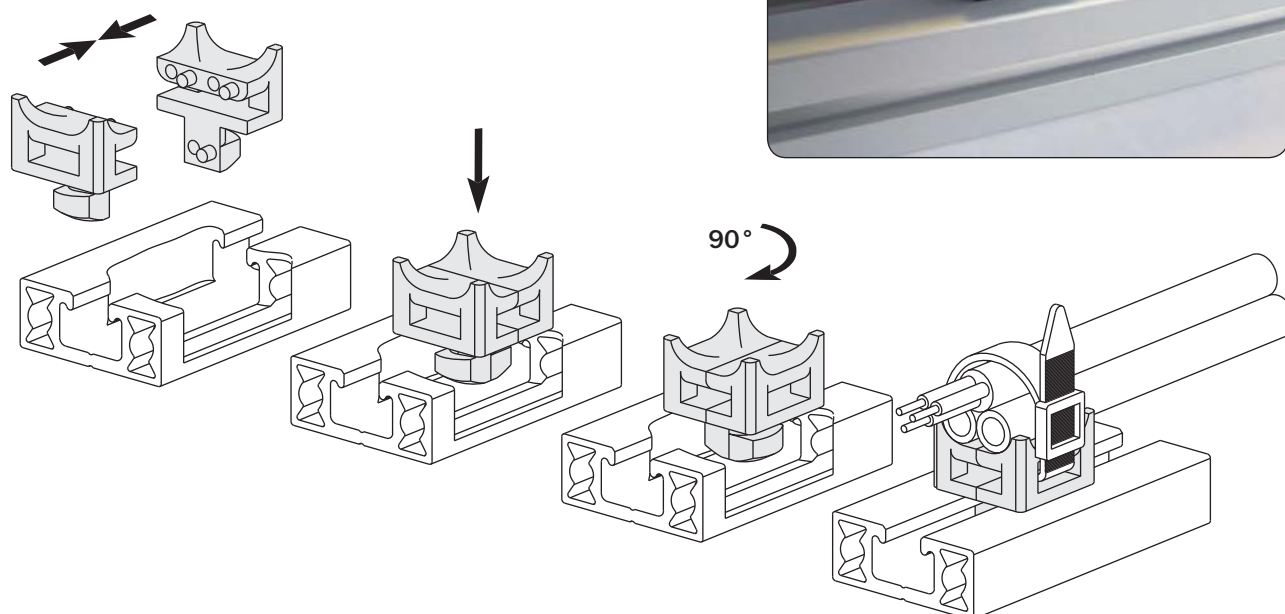
(Confezione da 10 pezzi)

Hose mounting bracket

(10 pieces package)

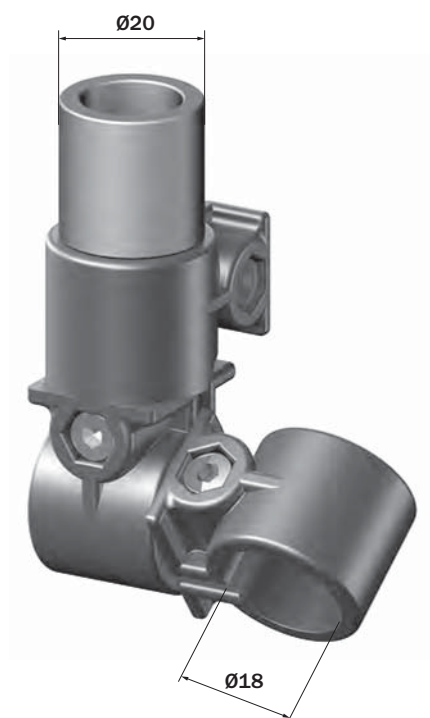
MFI-A239

Peso / Weight 20 g


Esempio di utilizzo / Application example


Porta sensore Ø18

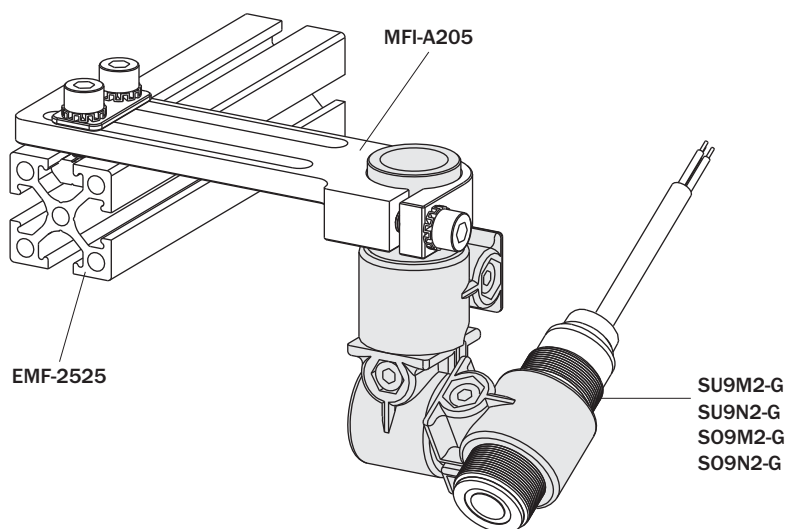
Sensor holder Ø18



MFI-A310

Peso / Weight	47 g
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Esempio di utilizzo / Application example

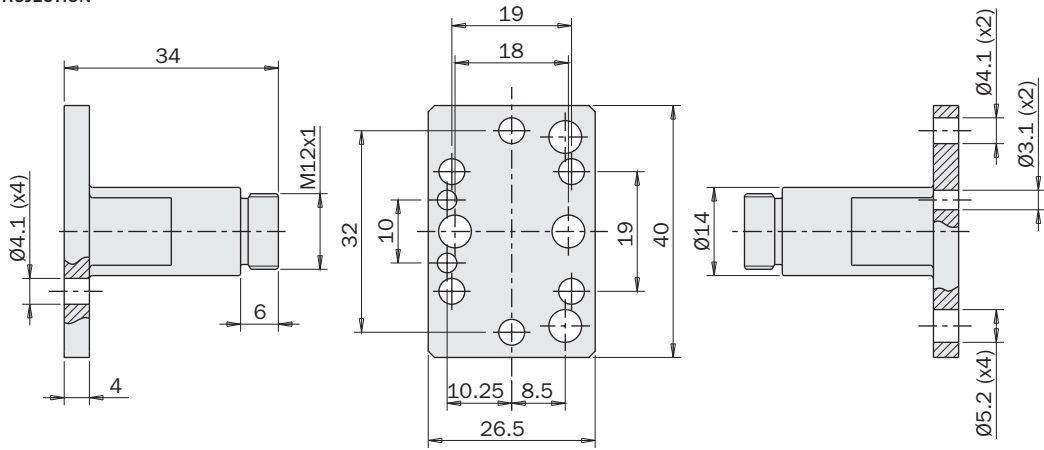


Staffa per fissaggio pinza
(kit completo di viti)

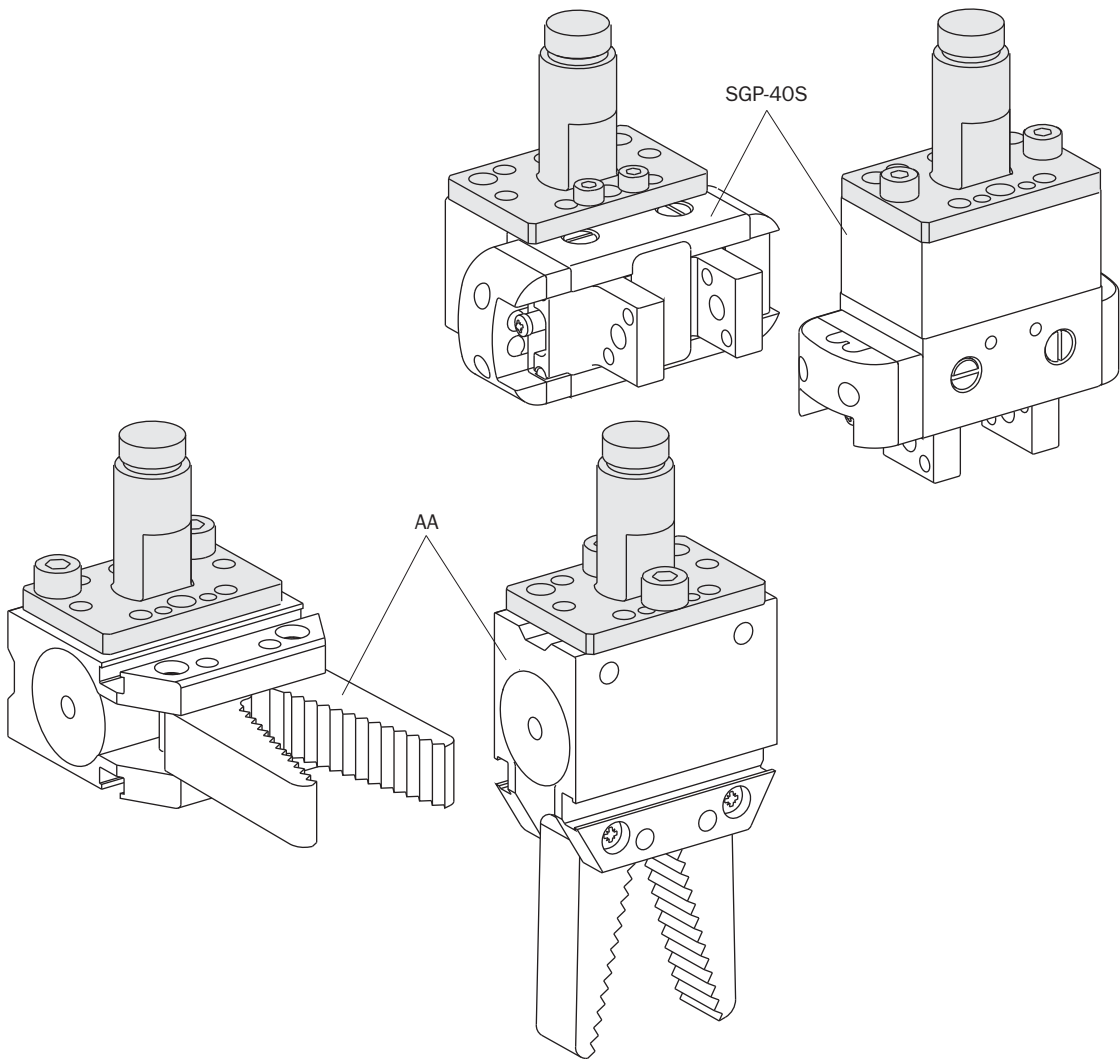
Gripper mounting bracket
(kit with screws)

MFI-A314	
per / for	AA / SGP-40S
Peso / Weight	25 g

FIRST ANGLE
PROJECTION



Esempio di utilizzo / Application example



Staffa per fissaggio pinza

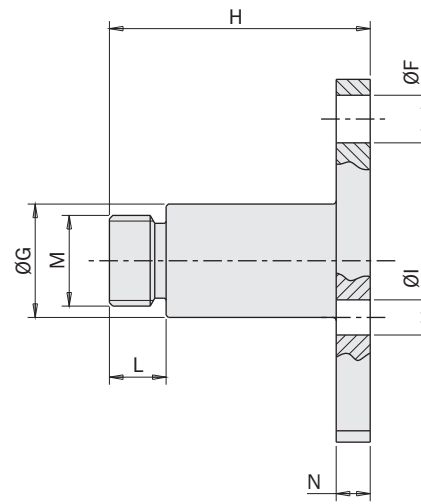
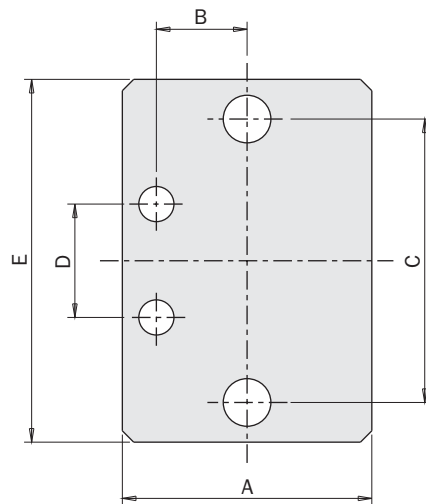
(kit completo di viti)

Gripper mounting bracket

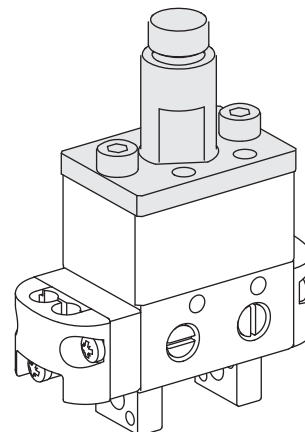
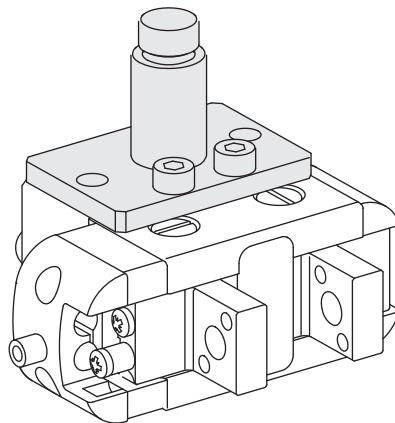
(kit with screws)

		MFI-A315	MFI-A316	MFI-A317
per / for		SGP-32S	SGP-25S	SGP-20S
A	[mm]	22	18	16
B	[mm]	8	6	5.5
C	[mm]	25	20	15
D	[mm]	10	10	8
E	[mm]	32	26	20
F	[mm]	Ø4.2	Ø3.1	Ø2.6
G	[mm]	Ø10	Ø10	Ø10
H	[mm]	23	22	21
I	[mm]	Ø3.1	Ø3.1	Ø2.6
L	[mm]	5	5	5
M	[mm]	M8x1	M8x1	M8x1
N	[mm]	3	3	2
Peso / Weight		11 g	9 g	7 g

FIRST ANGLE
PROJECTION



Esempio di utilizzo / Application example



Staffa per fissaggio pinza

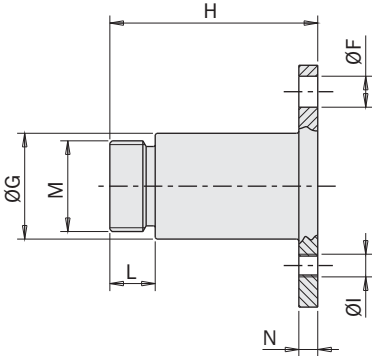
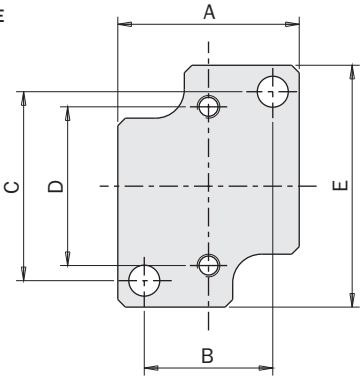
(kit completo di viti)

Gripper mounting bracket

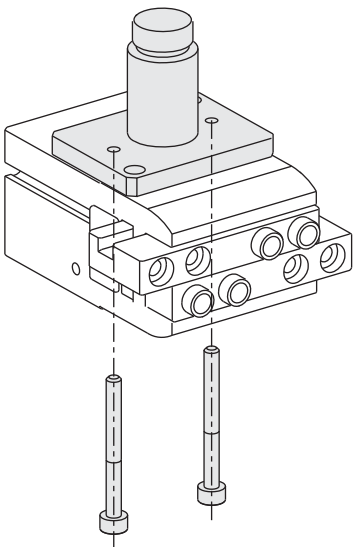
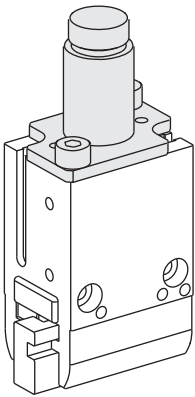
(kit with screws)

		MFI-A318	MFI-A319	MFI-A320
per / for		PQ1608	PQ2012	PQ2516
A	[mm]	19.5	24	28
B	[mm]	14	17	21
C	[mm]	20	25	29
D	[mm]	17	21	24
E	[mm]	25.5	32	36
F	[mm]	Ø3.1	Ø4.2	Ø4.2
G	[mm]	Ø10	Ø14	Ø14
H	[mm]	22	27.5	29
I	[mm]	M2.5	M3	M3
L	[mm]	5	6	6
M	[mm]	M8x1	M12x1	M12x1
N	[mm]	3	2.5	4
Peso / Weight		11 g	18 g	20 g

FIRST ANGLE
PROJECTION



Esempio di utilizzo / Application example



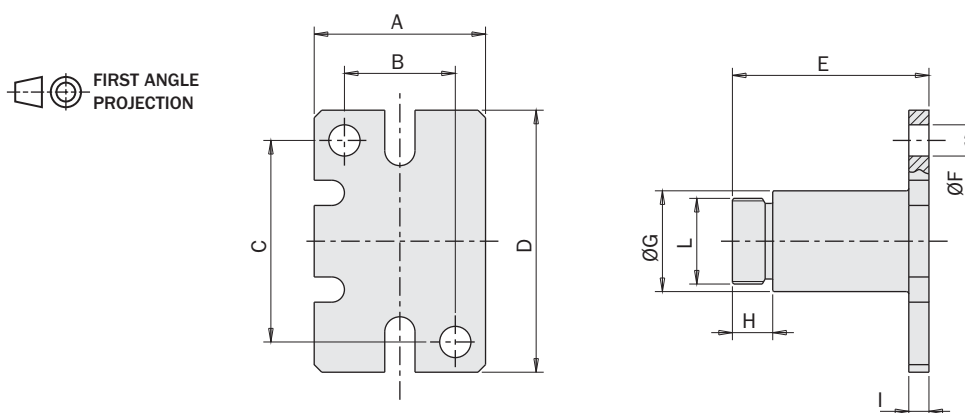
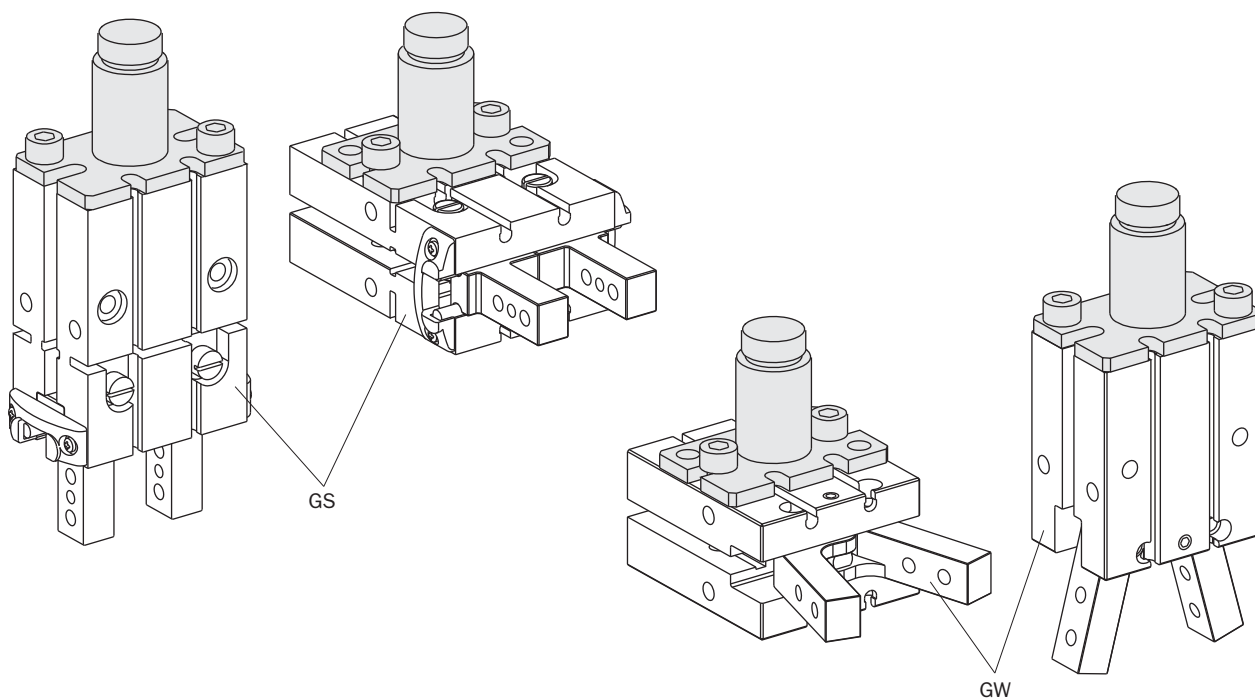
Staffa per fissaggio pinza

(kit completo di viti)

Gripper mounting bracket

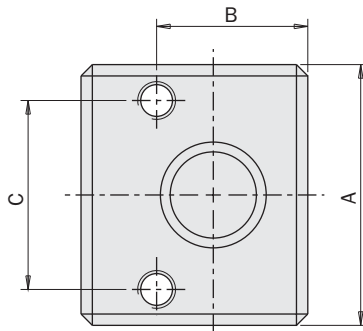
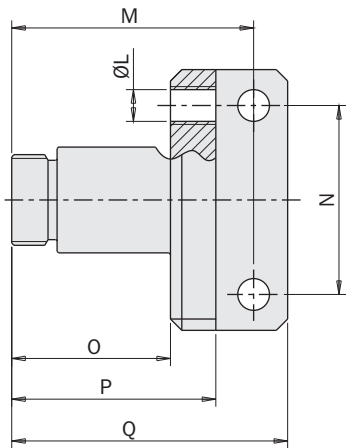
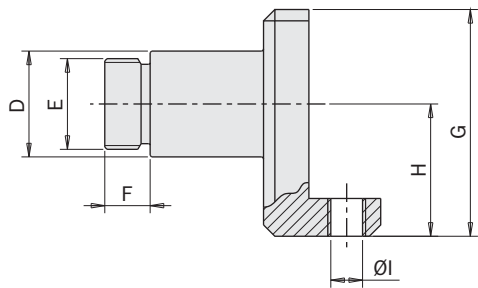
(kit with screws)

	MFI-A321	MFI-A322	MFI-A323	MFI-A324
per / for	GS-10 / GW-10	GS-16 / GW-16	GS-20 / GW-20	GS-25 / GW-25
A [mm]	17.5	24	28	34
B [mm]	12	15	18	22
C [mm]	18	22	32	40
D [mm]	23.5	31	42	52
E [mm]	21	26.5	30	39
F [mm]	Ø3.1	Ø4.1	Ø5.2	Ø6.2
G [mm]	Ø10	Ø14	Ø14	Ø20
H [mm]	5	6	6	8
I [mm]	2	2.5	4	4
L [mm]	M8x1	M12x1	M12x1	M17x1
Peso / Weight	8 g	18 g	29 g	57 g

**Esempio di utilizzo / Application example**

Staffa per fissaggio pinza
(kit completo di viti)

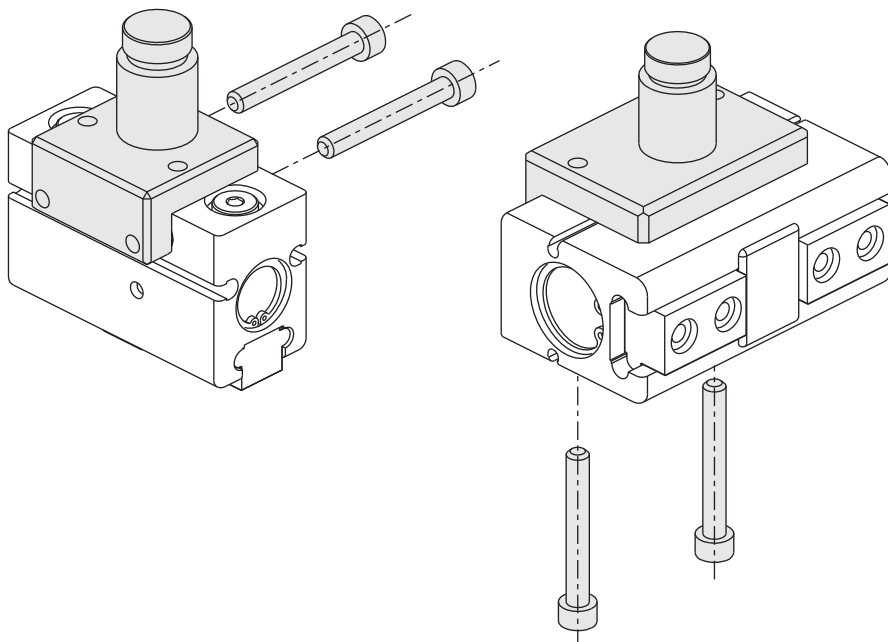
Gripper mounting bracket
(kit with screws)



FIRST ANGLE
PROJECTION

	MFI-A325	MFI-A326	MFI-A327
per / for	SZ12	SZ16	SZ25
A [mm]	29	34.5	62
B [mm]	17	20	30
C [mm]	22	25	50
D [mm]	Ø14	Ø14	Ø20
E [mm]	M12x1	M12x1	M17x1
F [mm]	6	6	8
G [mm]	28	30	45
H [mm]	17	17.5	26.5
I [mm]	M4	M5	M6
L [mm]	M4	M5	M6
M [mm]	32	32	46
N [mm]	22	25	50
O [mm]	21	21	29
P [mm]	27	27	39
Q [mm]	35.5	36.5	52
Peso / Weight	33 g	41 g	140 g

Esempio di utilizzo / Application example

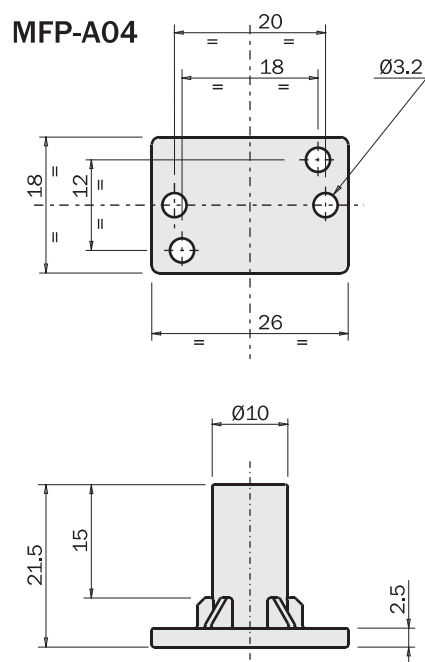
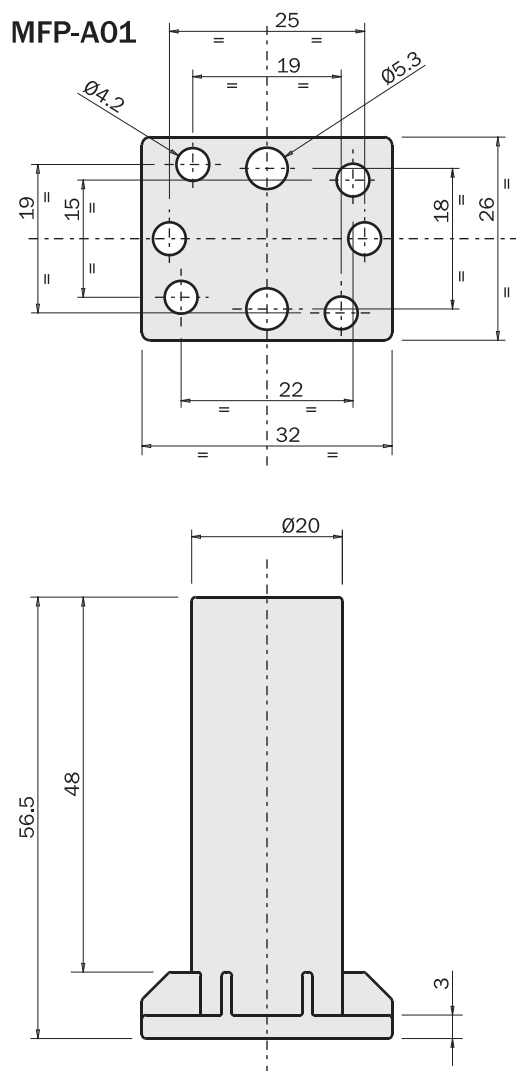


Basetta in plastica per fissaggio pinza

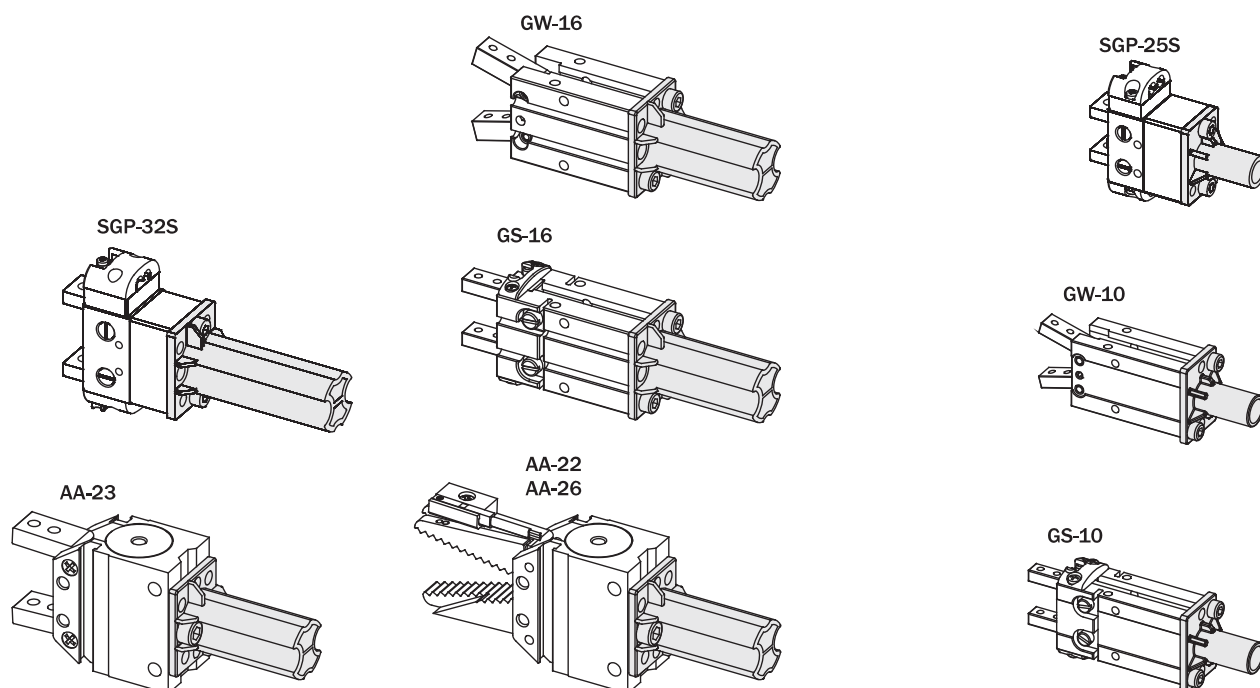
(kit completo di viti)

Polymer mounting bracket for gripper

(kit with screws)



	MFP-A01	MFP-A04
Peso / Weight	26 g	5 g

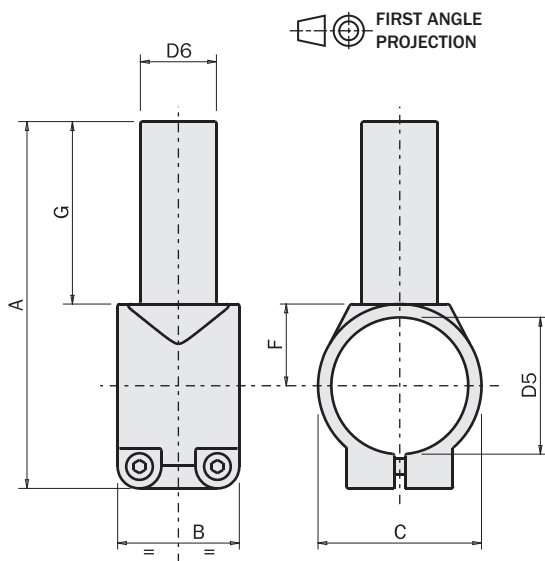
Esempio di utilizzo / Application example

Staffa in plastica

(kit con 2 semicorpi + viti)

Polymer mounting bracket

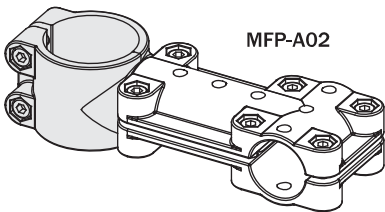
(2 half-pieces + screws)



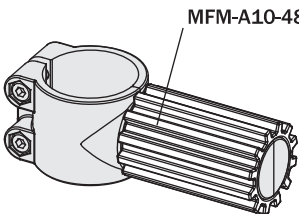
		MFP-A05	MFP-A06	MFP-A07	MFP-A08
A	[mm]	96.5	107.5	118.5	90
B	[mm]	32	36	40	30
C	[mm]	Ø43	Ø52.6	Ø64	Ø36
D5	[mm]	Ø36	Ø45	Ø56	Ø30
D6	[mm]	Ø20	Ø20	Ø20	Ø20
F	[mm]	21.5	26.3	32	18
G	[mm]	48	48	48	48
Peso / Weight		54 g	65 g	82 g	48 g



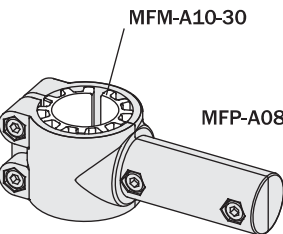
Esempio di utilizzo / Application example



MFP-A02

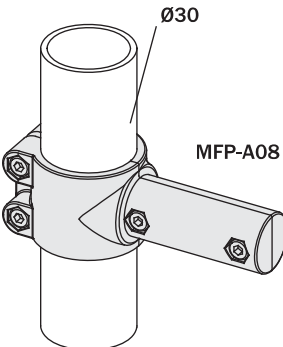


MFM-A10-48



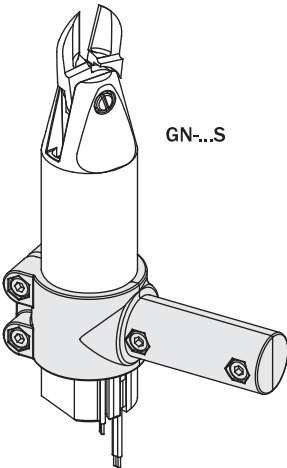
MFM-A10-30

MFP-A08

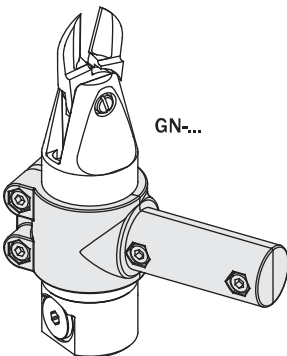


Ø30

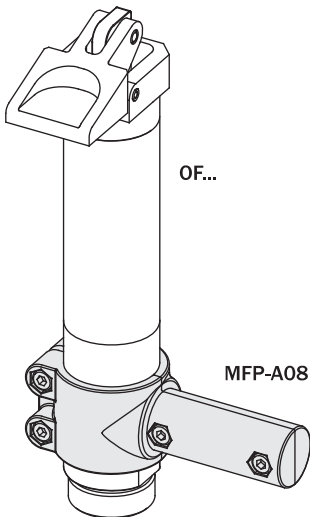
MFP-A08



GN-...S

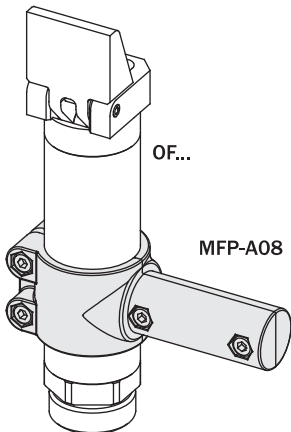


GN-...



OF...

MFP-A08



OF...

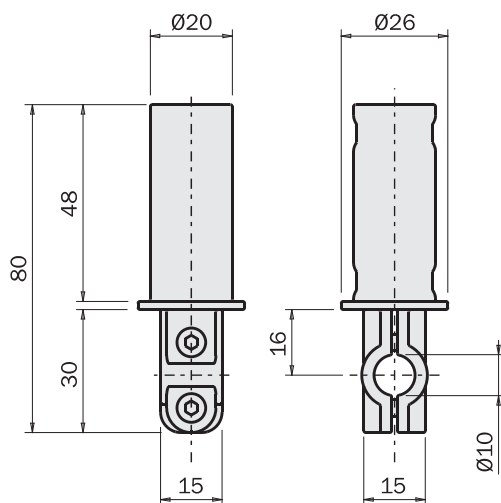
MFP-A08

Staffa Ø20-10 in plastica

(kit con 2 semicorpi + viti)

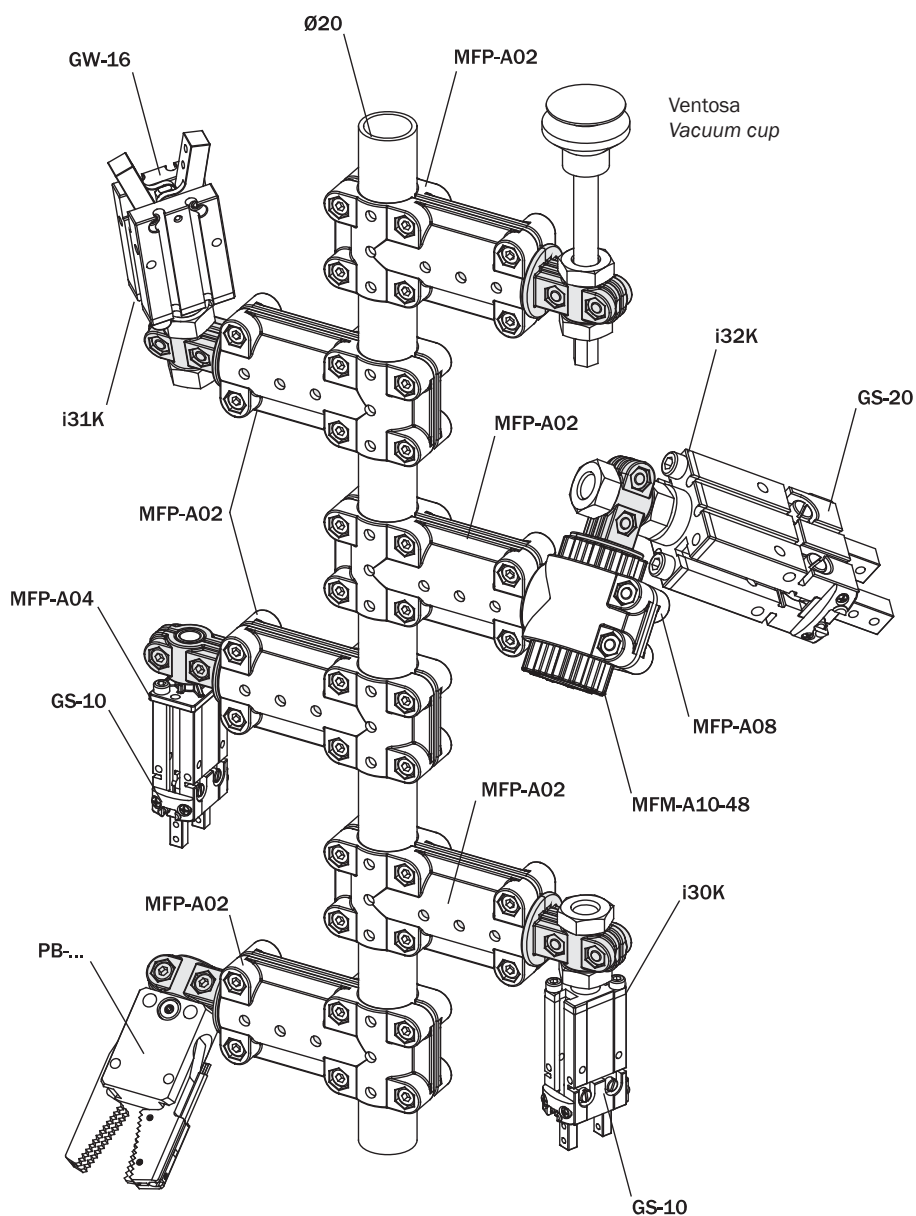
Polymer mounting bracket Ø20-10

(2 half-pieces + screws)

FIRST ANGLE
PROJECTION**MFP-A03**

Peso / Weight

35 g

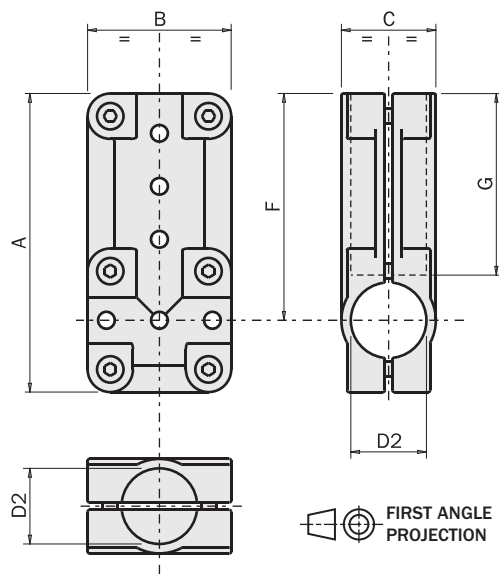
Esempio di utilizzo / Application example

Giunto angolare in plastica

(kit con 2 semicorpi + viti)

Polymer T connector

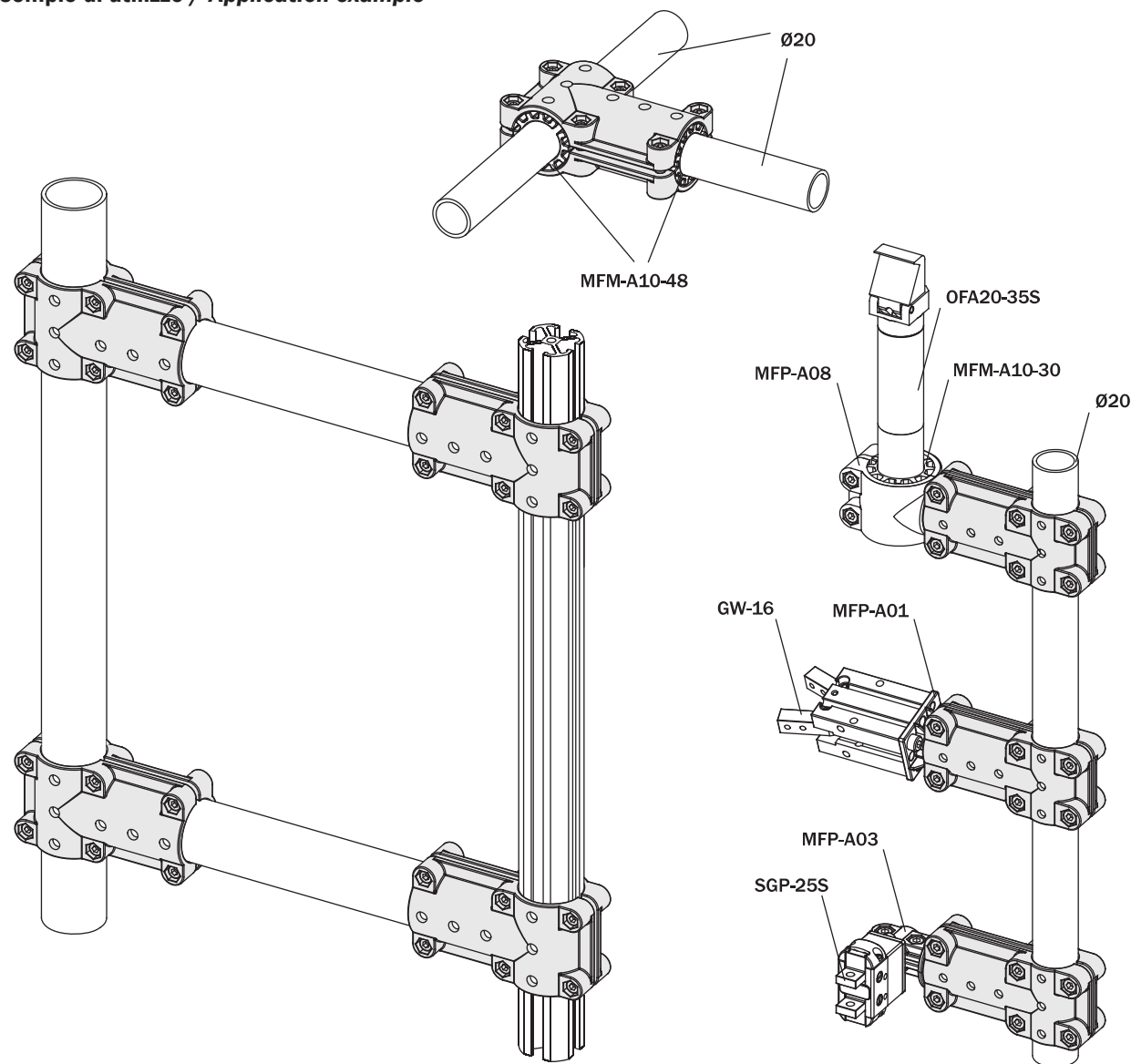
(2 half-pieces + screws)



	MFP-A02	MFP-A09
A [mm]	79	90
B [mm]	38	48
C [mm]	25	36
D2 [mm]	Ø20	Ø30
F [mm]	60	66
G [mm]	48	48
Peso / Weight	53 g	82 g



Esempio di utilizzo / Application example

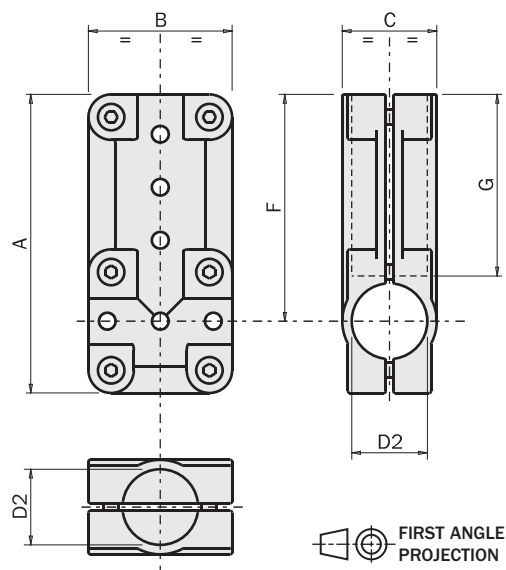


Giunto angolare in acciaio

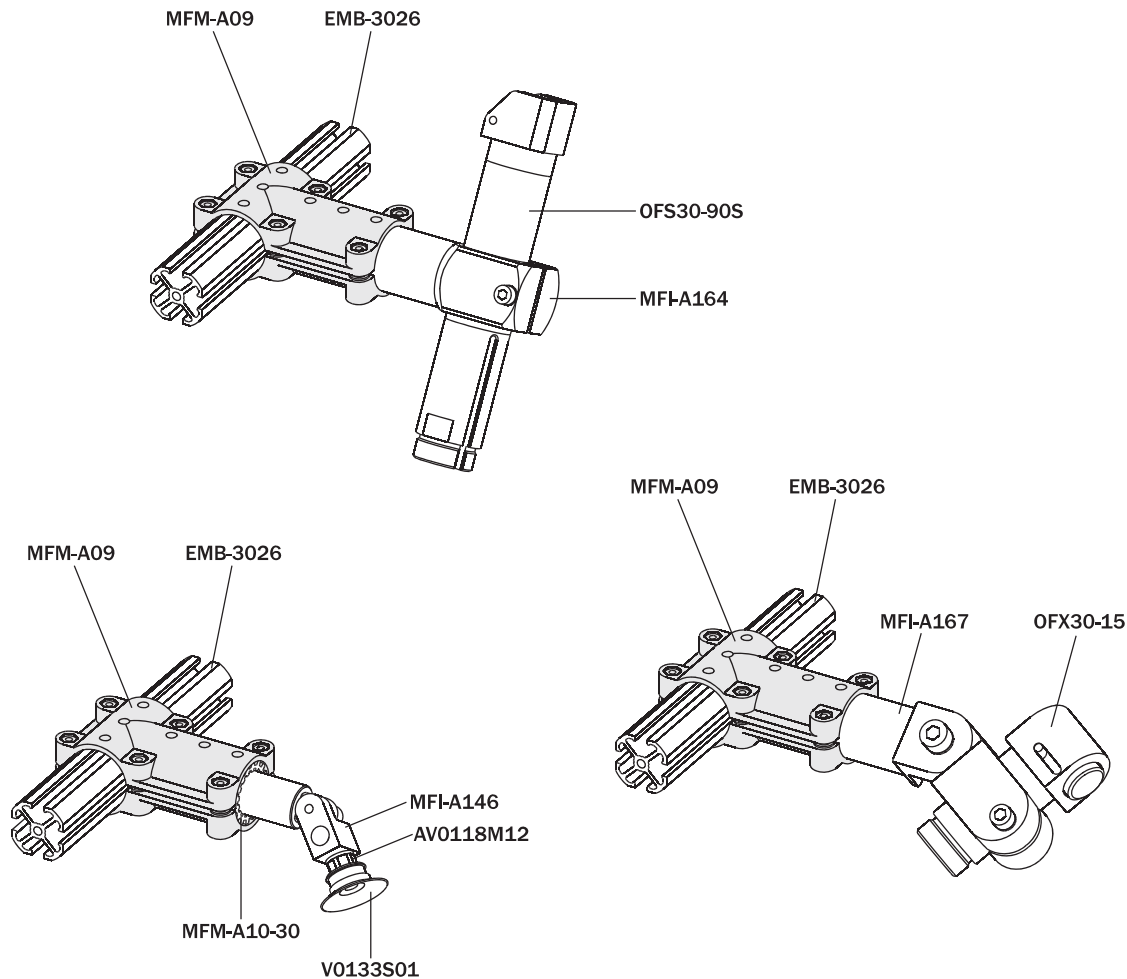
(kit con 2 semicorpi + viti)

Steel T connector

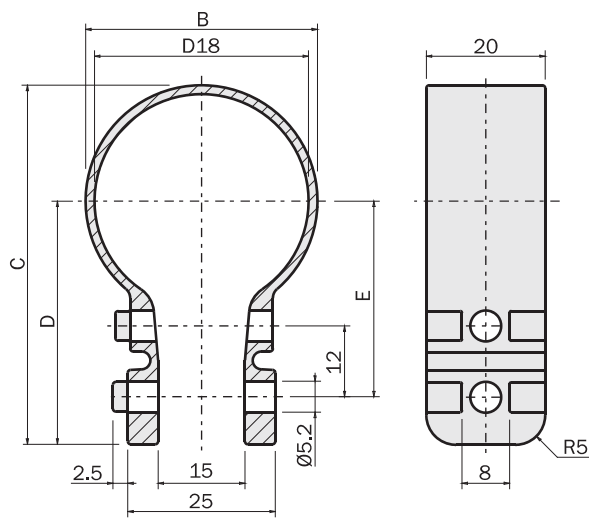
(2 half-pieces + screws)



	MFM-A02	MFM-A09	MFM-A85
A [mm]	79	90	133
B [mm]	38	48	73
C [mm]	25	36	56
D2 [mm]	Ø20	Ø30	Ø50
F [mm]	60	66	97
G [mm]	48	48	70
Peso / Weight	200 g	328 g	660 g

**Esempio di utilizzo / Application example**

Staffa in acciaio
(kit completo di viti)



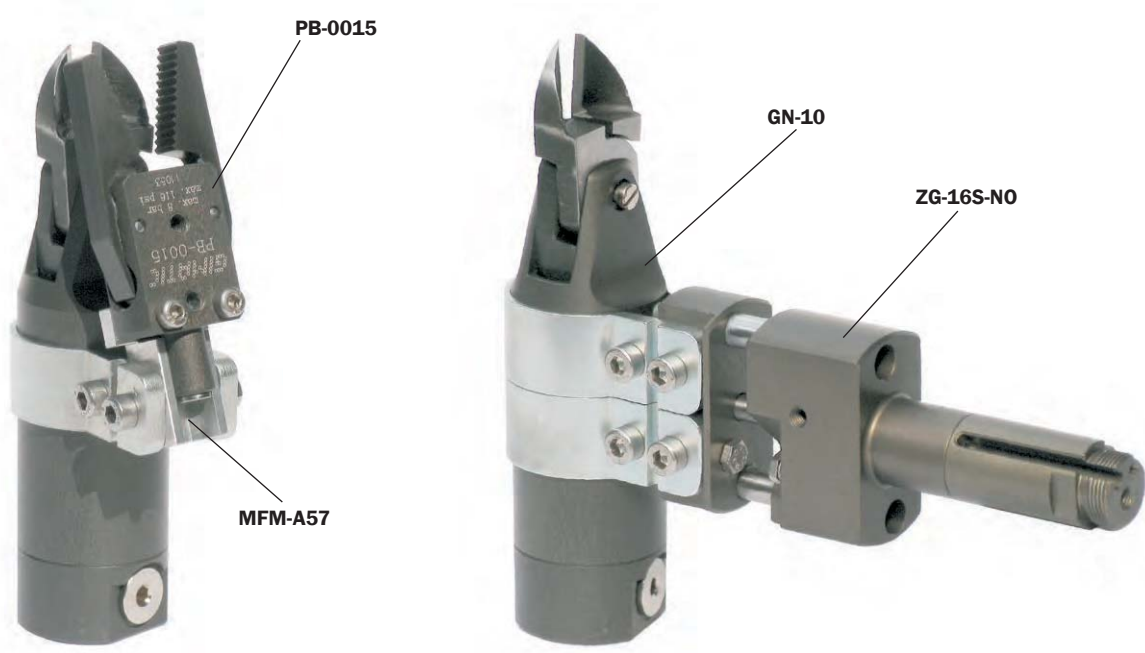
FIRST ANGLE
PROJECTION

Steel mounting bracket
(kit with screws)

	MFM-A30	MFM-A36	MFM-A45	MFM-A56
D18 [mm]	Ø30	Ø36	Ø45	Ø56
B [mm]	Ø33	Ø39	Ø48	Ø60
C [mm]	55	60.5	70	83.5
D [mm]	38.5	41	46	53.5
E [mm]	30.5	33	38	45.5
Peso / Weight	69 g	75 g	80 g	102 g



Esempio di utilizzo / Application example

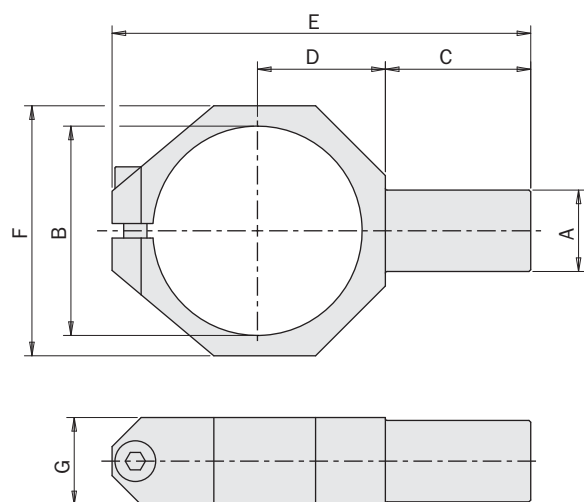


Staffa in alluminio

(kit completo di viti)

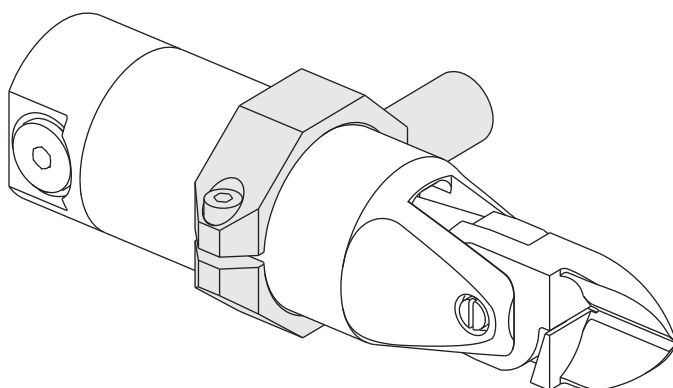
Aluminium mounting bracket

(kit with screws)



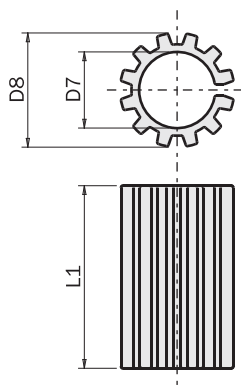
FIRST ANGLE
PROJECTION

	MFM-A110	MFM-A111	MFM-A112	MFM-A11
A [mm]	Ø14	Ø20	Ø20	Ø30
B [mm]	Ø36	Ø45	Ø56	Ø75
C [mm]	25	35	40	48
D [mm]	22	28	33	41
E [mm]	72	94.5	111	138
F [mm]	43	53	65	83
G [mm]	15	20	25	40
Peso / Weight	30 g	65 g	110 g	308 g

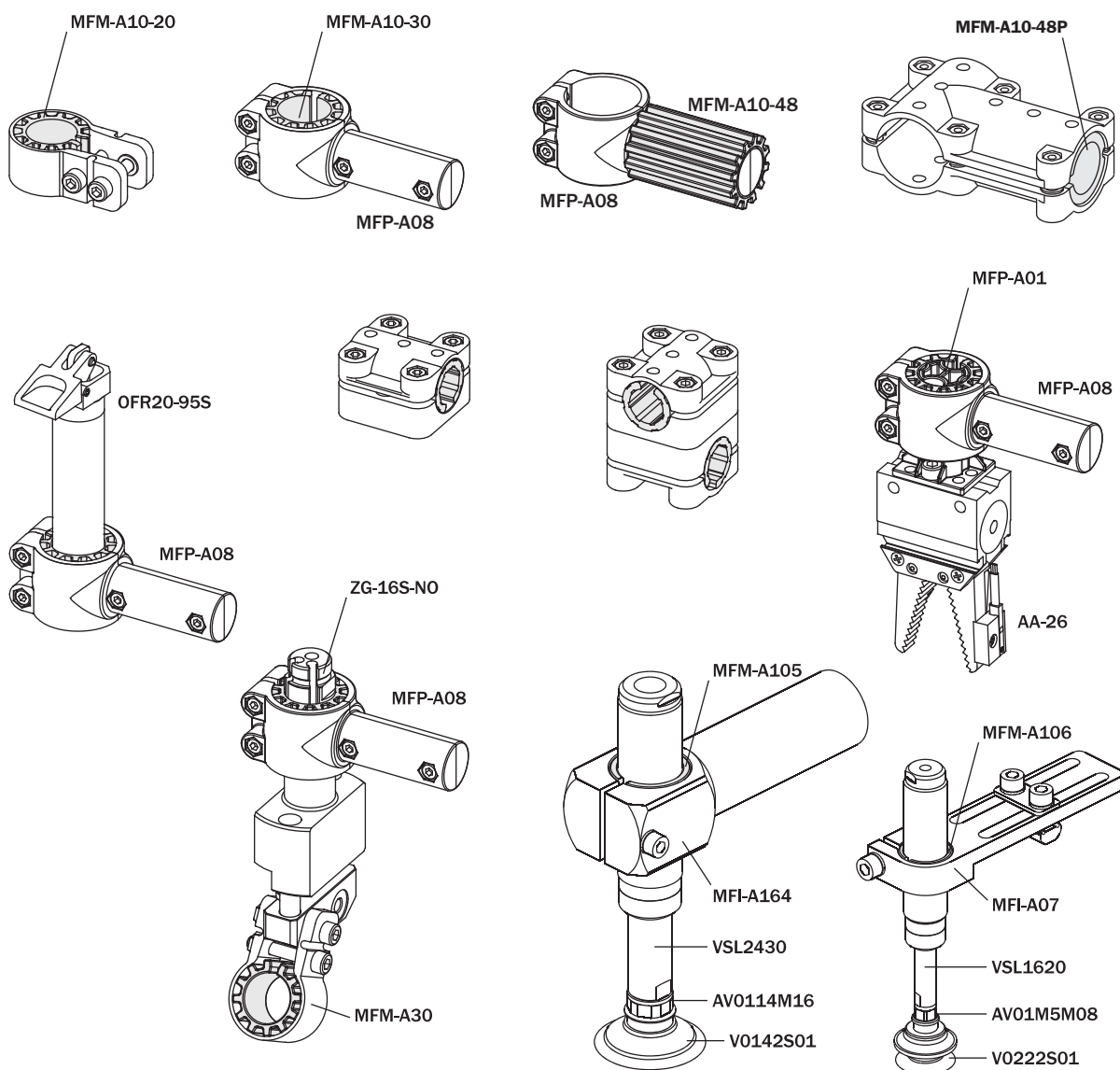
**Esempio di utilizzo / Application example**

Riduzione
Adapter

FIRST ANGLE
PROJECTION

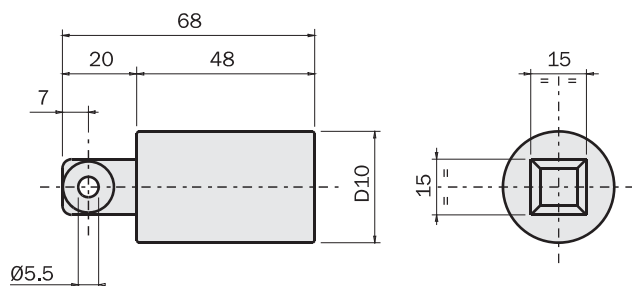


	D7 [mm]	D8 [mm]	L1 [mm]	Peso Weight
MFM-A120	Ø10	Ø14	13	3 g
MFM-A114	Ø12	Ø14	14	2 g
MFM-A55-38	Ø14	Ø20	38	16 g
MFM-A55-48	Ø14	Ø20	48	19 g
MFM-A106	Ø16	Ø20	12	5 g
MFM-A115	Ø16	Ø20	20	6 g
MFM-A10-20	Ø20	Ø30	20	13 g
MFM-A10-30	Ø20	Ø30	30	21 g
MFM-A10-48	Ø20	Ø30	48	33 g
MFM-A10-48P	Ø20	Ø30	48	24 g
MFM-A105	Ø24	Ø30	12	8 g
MFM-A116	Ø25	Ø30	30	17 g
MFM-A96	Ø30	Ø50	65	240 g


Esempio di utilizzo / Application example


Supporto orientabile

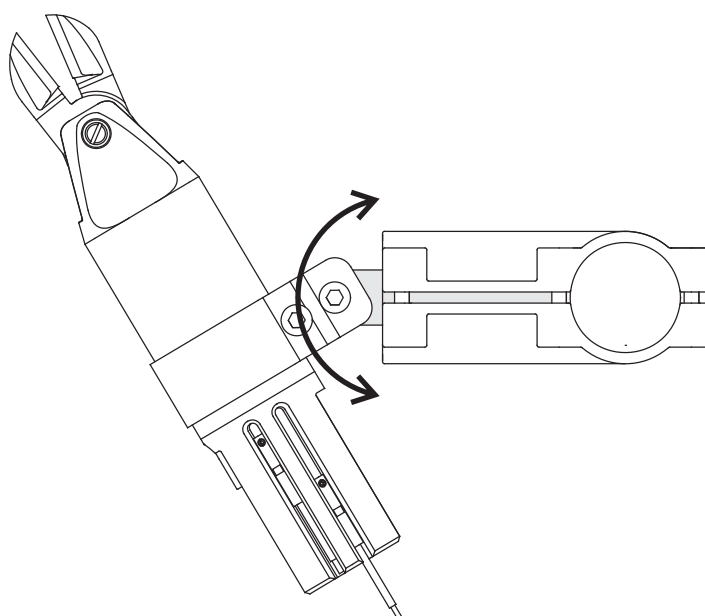
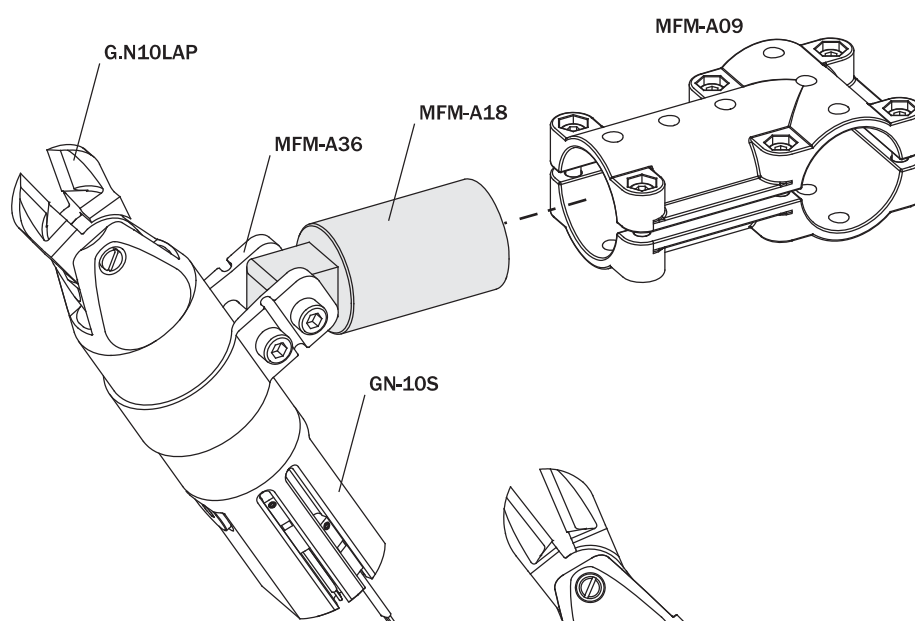
Hinge with stud



	MFM-A17	MFM-A18
D10	Ø20 mm	Ø30 mm
Peso / Weight	56 g	82 g



Esempio di utilizzo / Application example

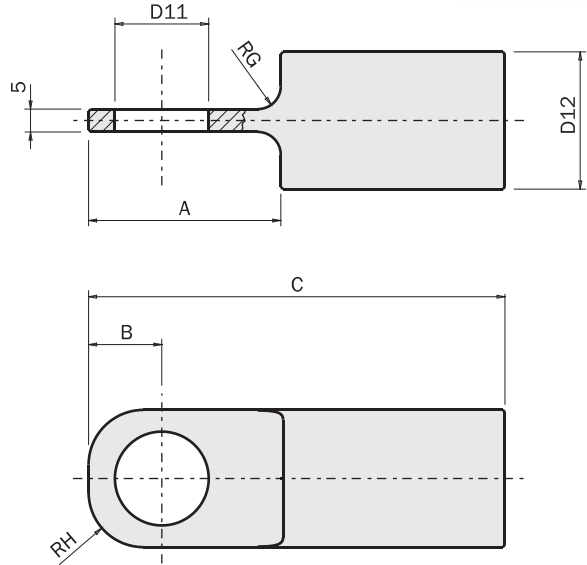


Supporto per sospensione

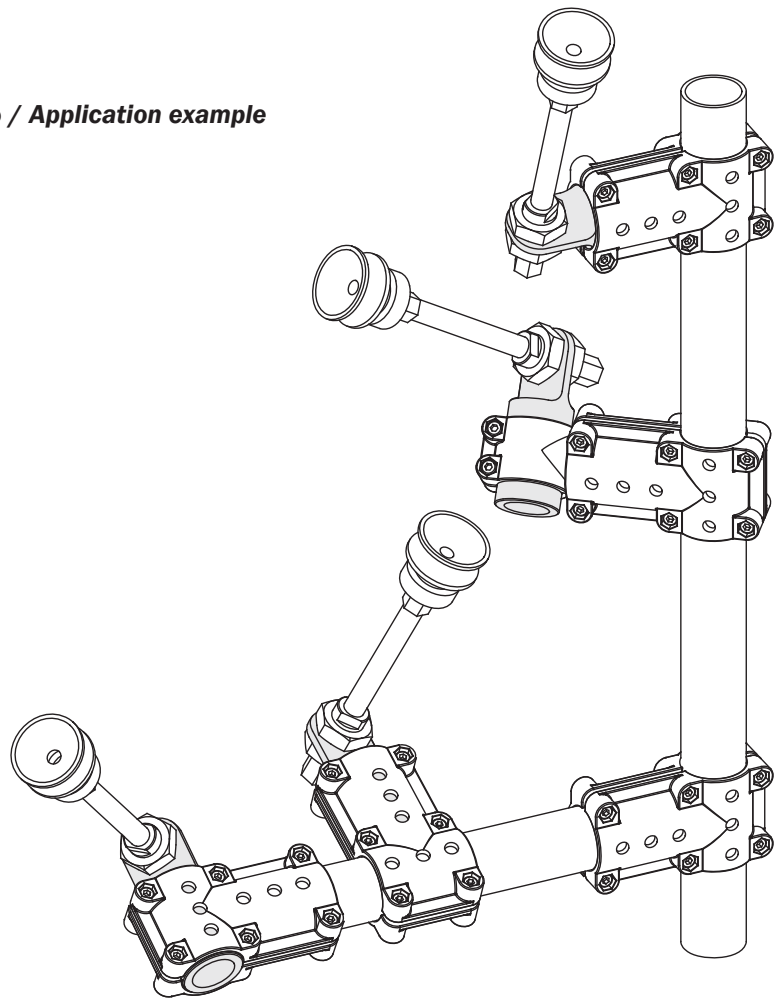
Holder for suspensions

FIRST ANGLE
PROJECTION

		MFM-A19	MFM-A20	MFM-A21	MFM-A22	MFM-A23
A	[mm]	26	26	31	36	42
B	[mm]	10	10.5	12	13	16
C	[mm]	75	75	80	85	91
D12	[mm]	Ø20	Ø20	Ø20	Ø30	Ø30
D11	[mm]	Ø10.5	Ø12.5	Ø14.5	Ø16.5	Ø20.5
RG	[mm]	2.5	2.5	2.5	5	5
RH	[mm]	7	7	7	12	12
Peso / Weight		52 g	52 g	52 g	84 g	86 g



Esempio di utilizzo / Application example

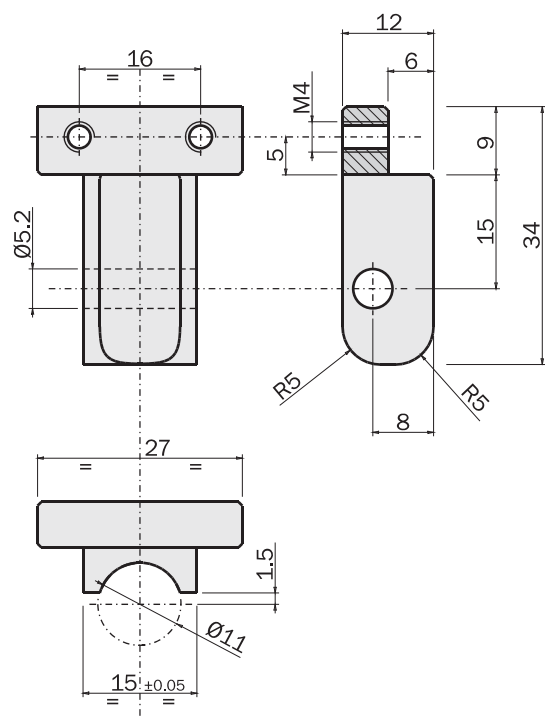


Blocchetto di fissaggio per PB

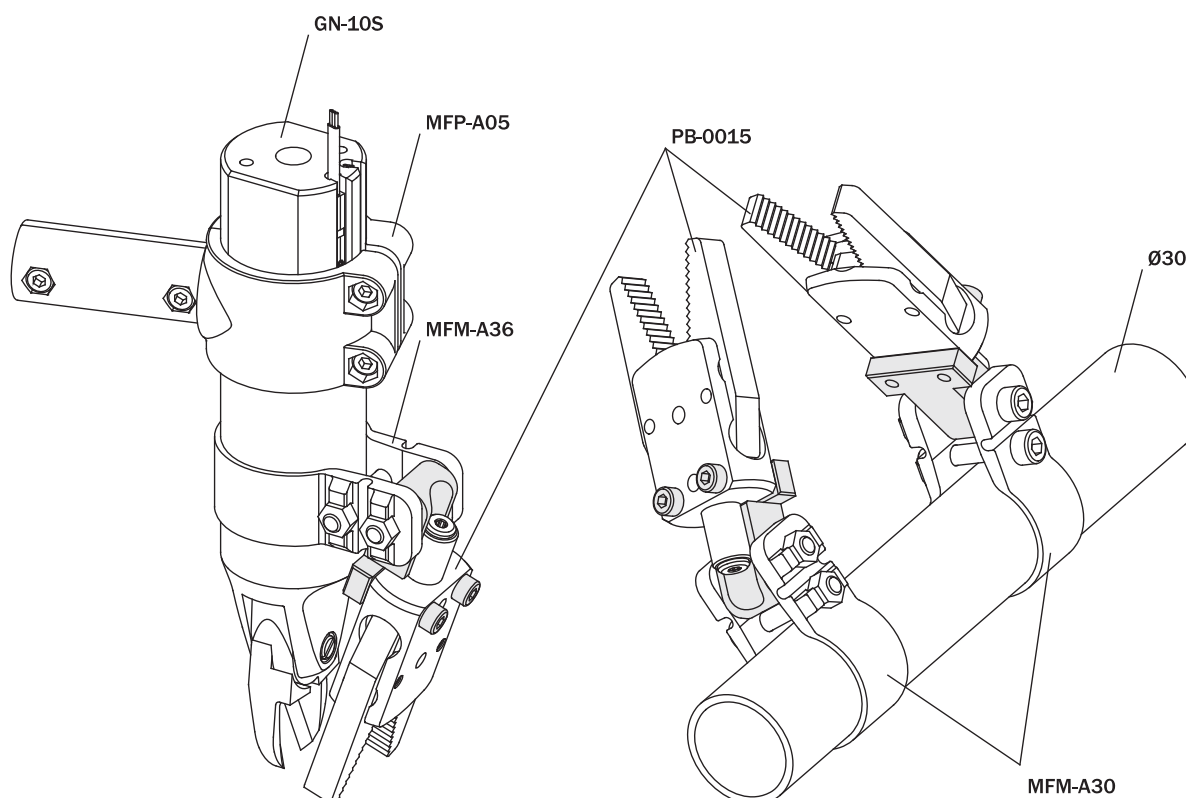
(kit completo di viti)

PB mounting connector

(kit with screws)

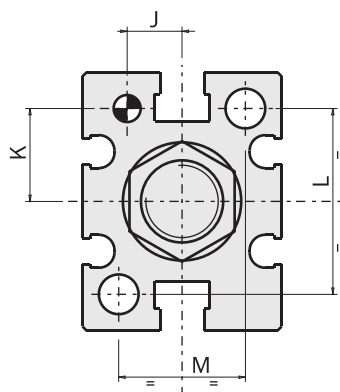
FIRST ANGLE
PROJECTION**MFM-A57**

Peso / Weight 25 g

**Esempio di utilizzo / Application example**

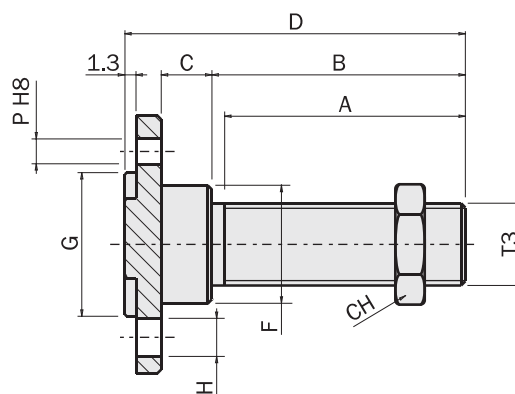
Interfaccia per pinze

(kit completo di viti)



Interface for grippers

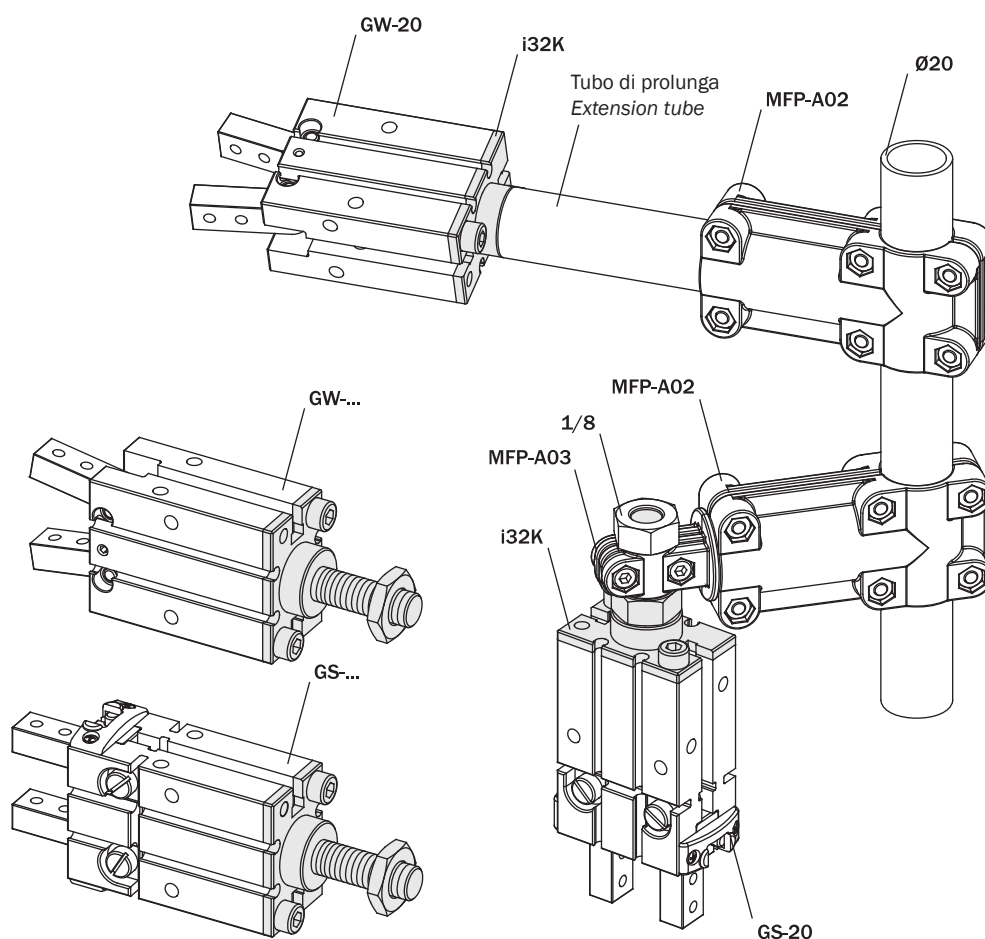
(kit with screws)



FIRST ANGLE PROJECTION

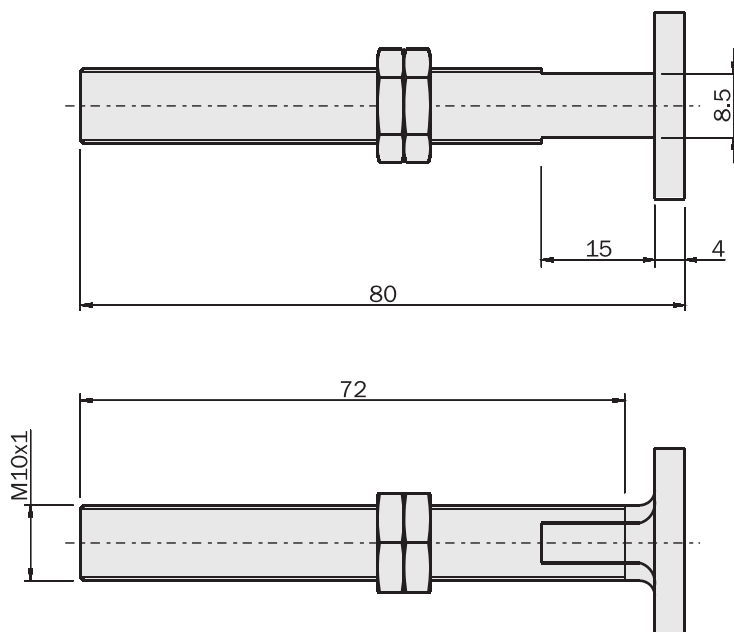
	i30K	i31K	i32K	i33K
A [mm]	25	28.5	28.5	28.5
B [mm]	25	30	30	30
C [mm]	5	6	7	8
CH [mm]	14	14	14	17
D [mm]	34.3	40.3	41.3	44.3
T3 [mm]	G1/8"	G1/8"	G1/8"	M15x1
F [mm]	Ø10	Ø14	Ø20	Ø20
G [mm]	Ø11	Ø17	Ø21	Ø26
H [mm]	Ø3.3	Ø4.5	Ø5.5	Ø6.5
J [mm]	5.2	6.5	7.5	10
K [mm]	7.6	11	16	21
L [mm]	18	22	32	40
M [mm]	12	15	18	22
P [mm]	Ø2 H8	Ø3 H8	Ø4 H8	Ø4 H8
per / for	GS-10/GW-10	GS-16/GW-16	GS-20/GW-20	GS-25/GW-25
Peso / Weight	9 g	14 g	14 g	43 g

Esempio di utilizzo / Application example



Interfaccia per pinze

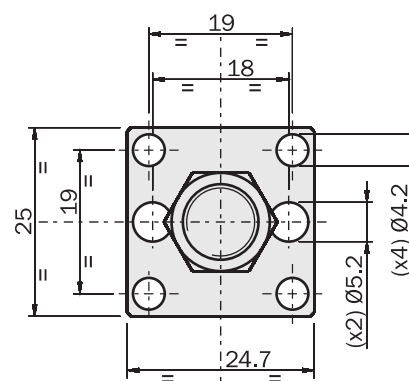
(kit completo di viti)



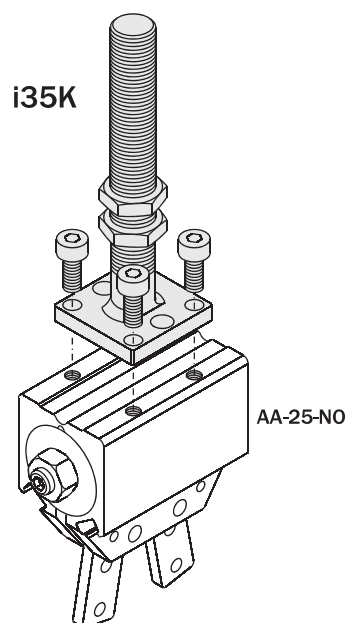
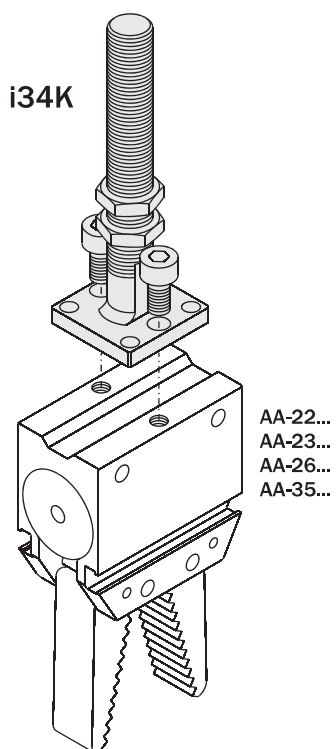
Interface for grippers

(kit with screws)

	i34K	i35K
Peso / Weight	65 g	65 g



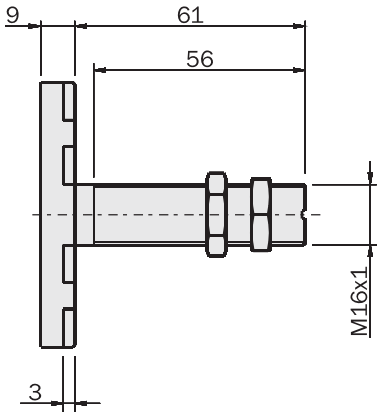
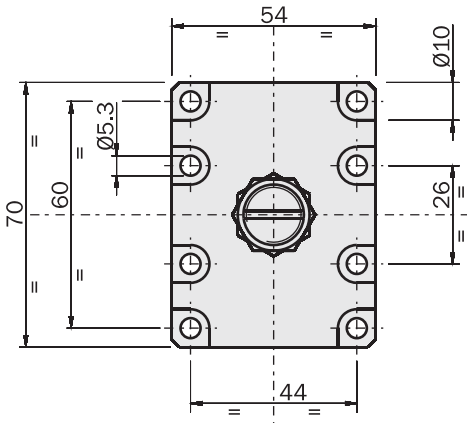
Esempio di utilizzo / Application example



Interfaccia per pinze
(kit completo di viti)

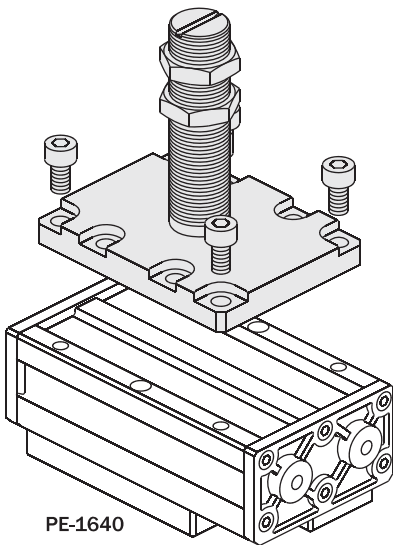
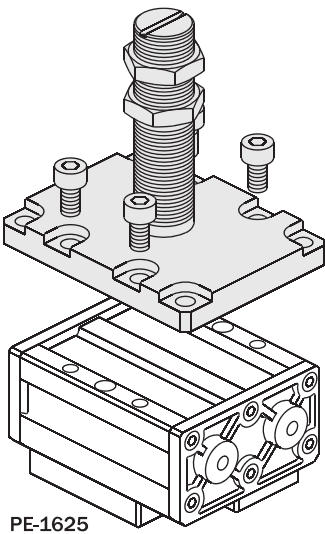
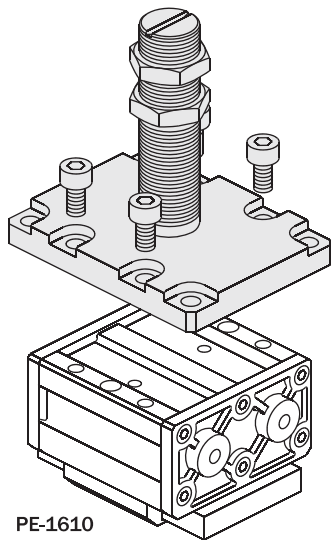
Interface for grippers
(kit with screws)

	i36K
Peso / Weight	190 g



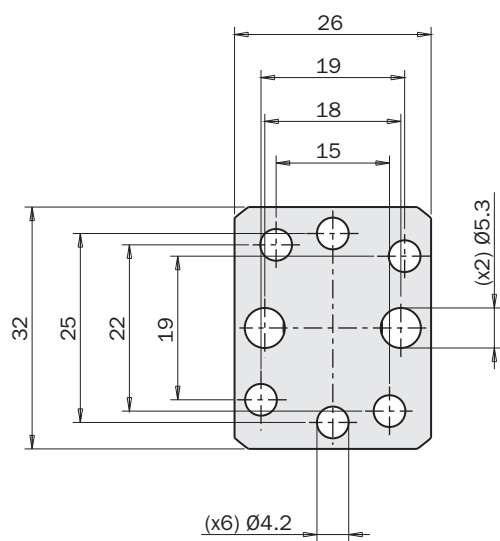
FIRST ANGLE
PROJECTION

Esempio di utilizzo / Application example



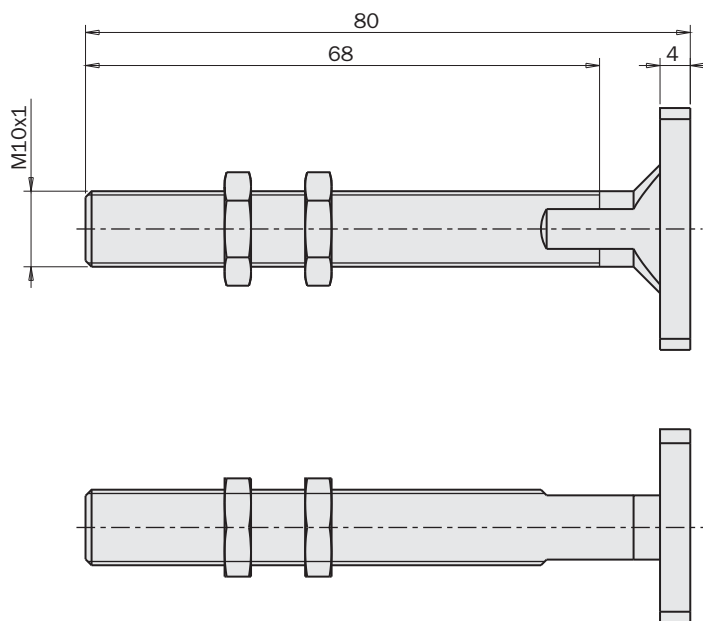
Interfaccia per pinze

Interface for grippers

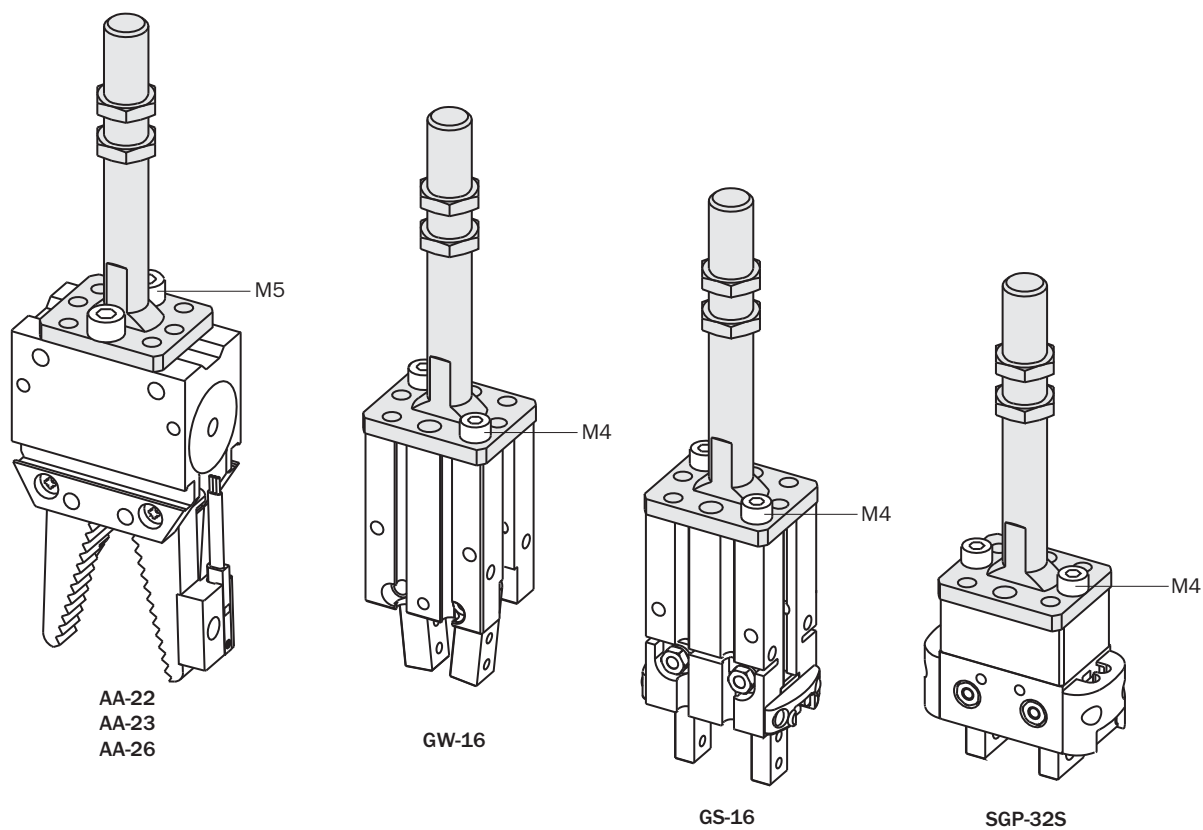


FIRST ANGLE
PROJECTION

	i37K
Peso / Weight	85 g

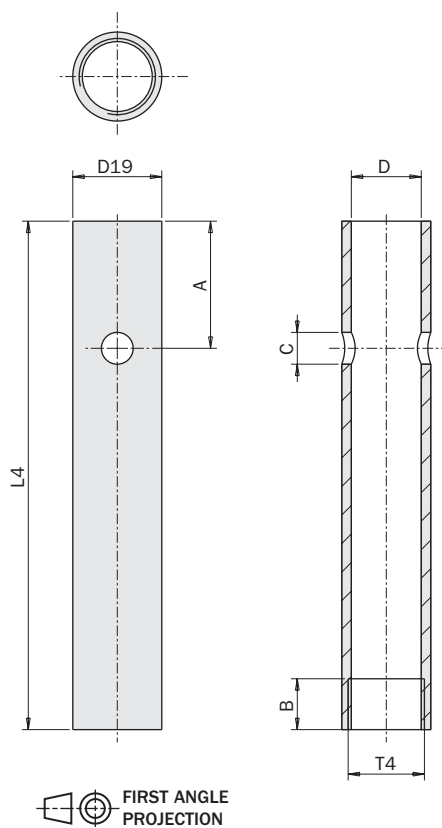


Esempio di utilizzo / Application example



Tubo di prolunga
(in alluminio)

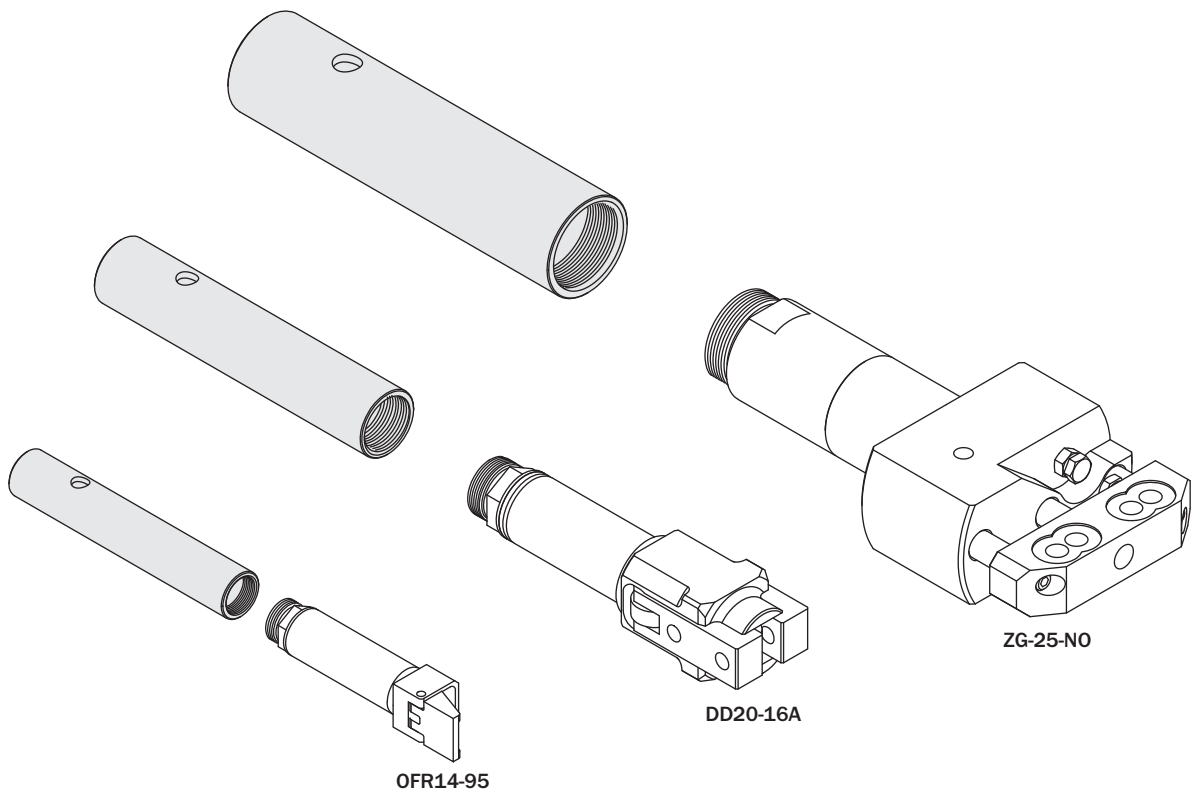
Extension tube
(in aluminum)



	OF10L60	OF14L80	OF20L100	OF30L120
A [mm]	15	20	25	30
B [mm]	8	8	12	14
C [mm]	Ø3.5	Ø5	Ø6	Ø8
D [mm]	Ø7	Ø11	Ø16	Ø25
D19 [mm]	Ø10	Ø14	Ø20	Ø30
L4 [mm]	60	80	100	120
T4 [mm]	M8x1	M12x1	M17x1	M27x1
Peso / Weight	7 g	10 g	30 g	65 g



Esempio di utilizzo / Application example



Interfaccia per taglierino GNS

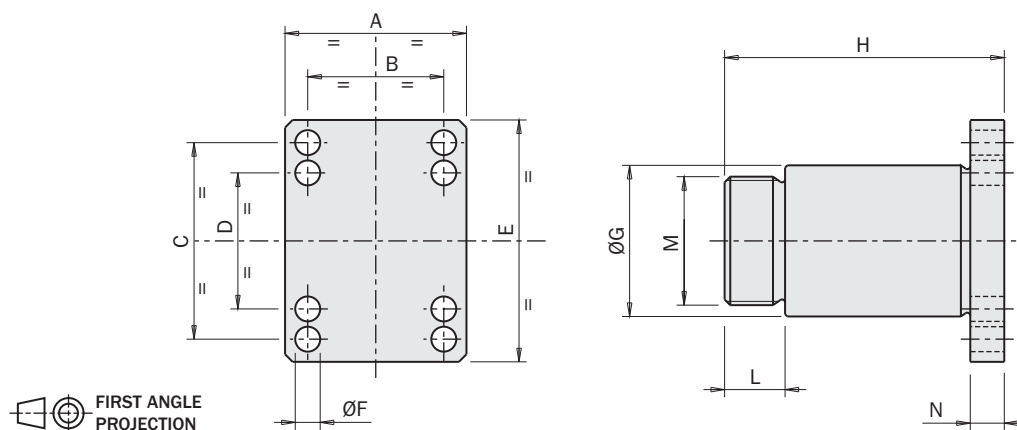
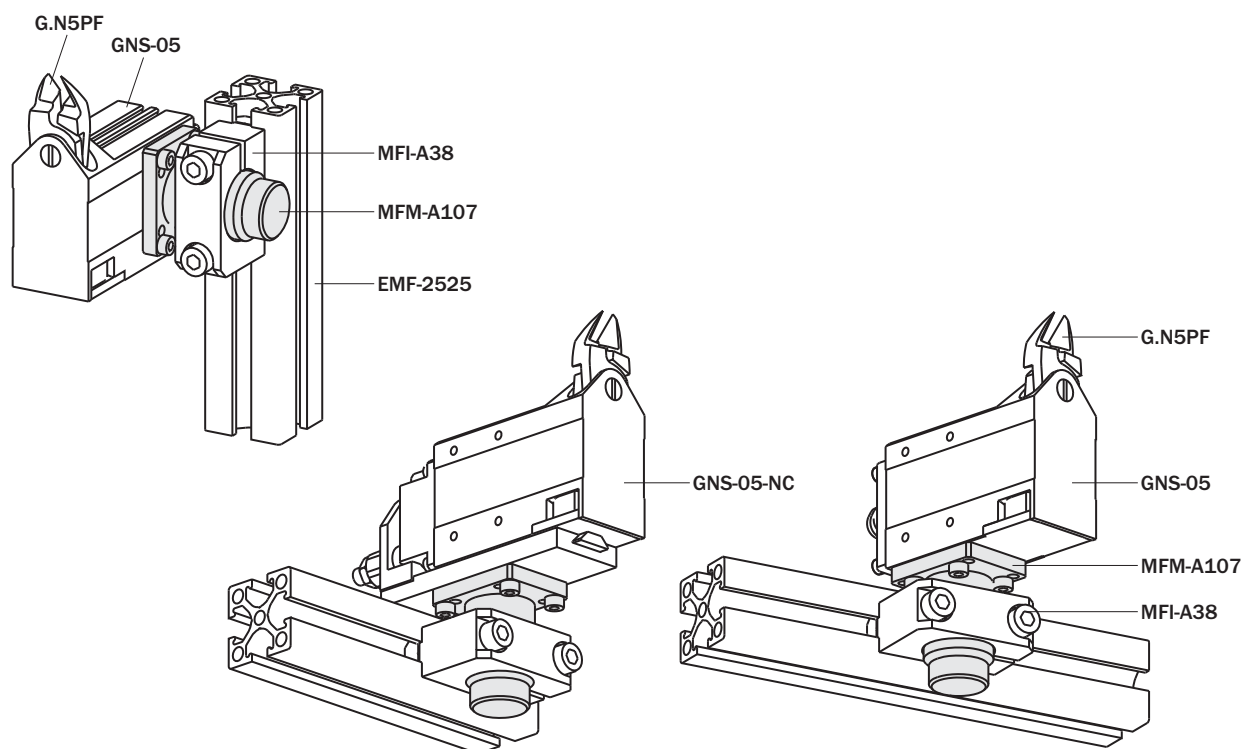
(kit completo di viti)

GNS nipper mounting bracket

(kit with screws)



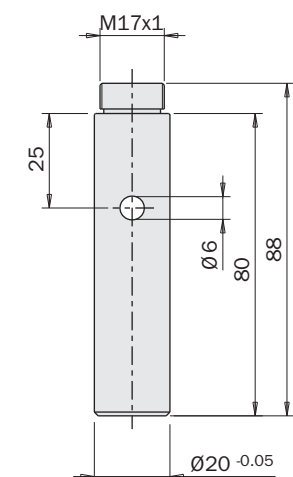
		MFM-A107	MFM-A108	MFM-A109
A	[mm]	24	32	39
B	[mm]	18	24	30
C	[mm]	26	32	40
D	[mm]	18	-	-
E	[mm]	32	39	48
F	[mm]	Ø3.3 (x8)	Ø4.3 (x4)	Ø5.3 (x4)
G	[mm]	Ø20	Ø20	Ø30
H	[mm]	37	39	55
L	[mm]	8	8	11
M	[mm]	M17x1	M17x1	M27x1
N	[mm]	4.5	5.5	6.5
per / for		GNS-05	GNS-10	GNS-20
Peso / Weight		30 g	35 g	100 g

**Esempio di utilizzo / Application example**

Interfacce per cilindro guidato

(kit completo di viti)

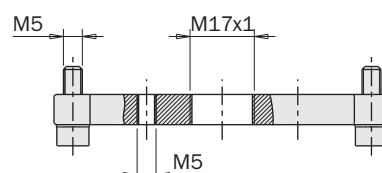
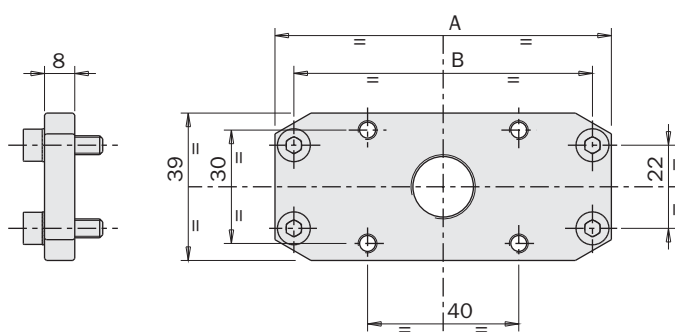
MFM-A117	
Peso / Weight	70 g



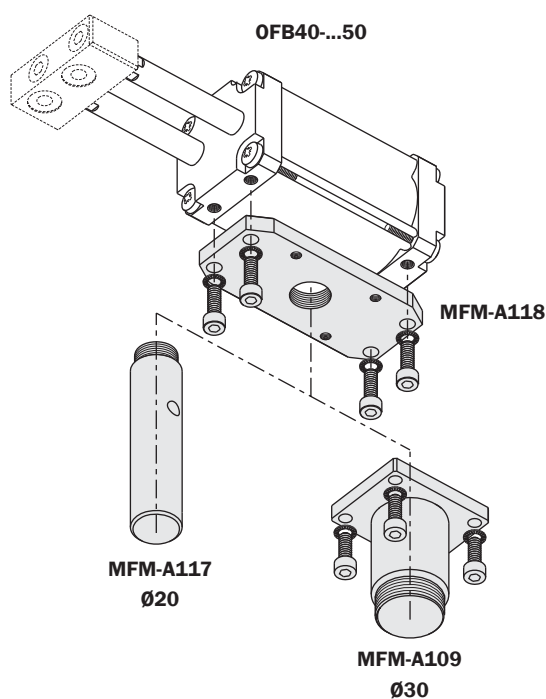
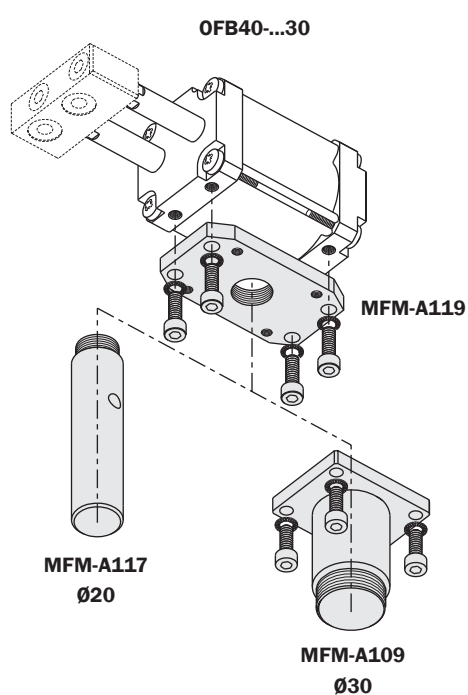
Interfaces for guided cylinder

(kit with screws)

	MFM-A118	MFM-A119
A [mm]	89	69
B [mm]	79	59
per / for	OFB40-...50	OFB40-...30
Peso / Weight	80 g	60 g



Esempio di utilizzo / Application example



Note / Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Cambia utensile elettrico

Per le applicazioni che richiedono il cambio automatico dell'organo di presa è disponibile il cambia utensile elettrico EQC75.

Si tratta di un sistema composto da una parte attiva (EQC75-A) ed una flangia meccanica passiva (EQC75-B).

La parte attiva tipicamente è collegata al polso di un robot mentre una o più flange sono collegate agli organi di presa intercambiabili.

- Versione completamente automatica.
- Sistema Plug & Play.
- Connettore alimentazione M12x1 a 8 poli.
- Peso ridotto.
- Alimentazione a bassa tensione 24 Vdc.
- Fino a 4 collegamenti per utenze pneumatiche.
- Fino a 2 collegamenti per utenze elettriche mediante connettori D-SUB a 15 pin.



Electric quick changer

The EQC75 electric quick changer is available for applications that need automatic change of the gripping element.

This system consists of an active part (EQC75-A) and a passive mechanical tool plate (EQC75-B).

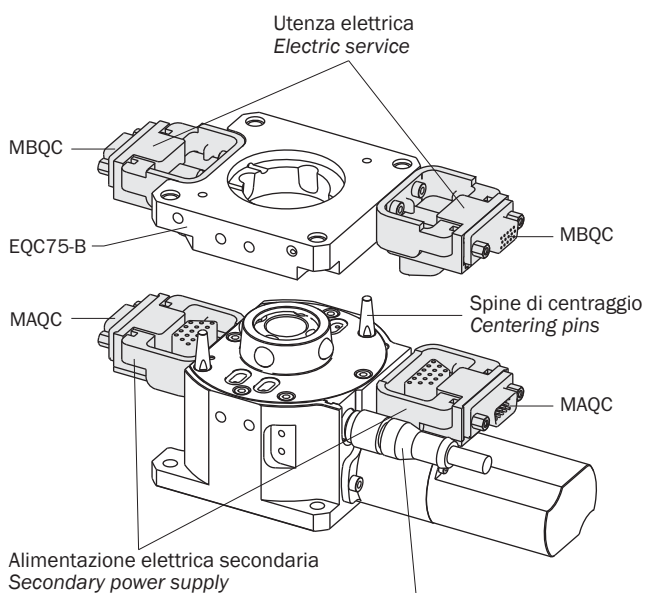
The active part is usually connected to a robot's wrist while one or more flanges are connected to the interchangeable gripping elements.

- Fully automatic version.
- Plug & Play system.
- M12x1, 8 poles main power connection.
- Lightweight.
- 24 Vdc low voltage supply.
- Up to 4 user pneumatic connections available.
- Up to 2 user electrical connections by means of 15 pins D-SUB accessories.



CONFIGURAZIONE PER CONNESSIONE ELETTRICA LATO B (MAQC/MBQC)

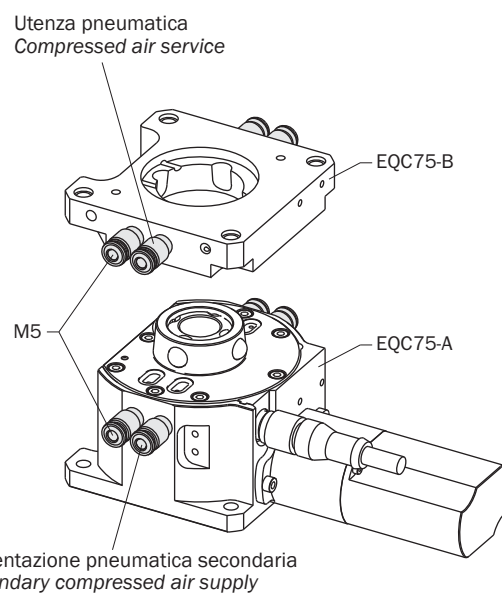
CONFIGURATION FOR ELECTRICAL CONNECTION OF SIDE B (MAQC/MBQC)



Connettore M12 8 poli per l'alimentazione del dispositivo EQC75-A, per il segnale di comando, ingressi ed uscite digitali di stato
8-pole M12 connector for power supply to the EQC75 for the command signal and for status digital inputs and outputs

CONFIGURAZIONE PER CONNESSIONE PNEUMATICA LATO B (FITTINGS)

CONFIGURATION FOR PNEUMATIC CONNECTION OF SIDE B (FITTINGS)



	EQC75	
Materiale corpo <i>Body material</i>	Lega di alluminio <i>Aluminium alloy</i>	
Materiale del sistema di bloccaggio / sbloccaggio <i>Lock / unlock system material</i>	Acciaio inossidabile <i>Stainless steel</i>	
Dimensioni massime (sistema accoppiato) <i>Overall dimensions (when coupled)</i>	75 x 146 x 63.5 mm	
Massa della parte attiva (EQC75-A) <i>Mass of the master plate (EQC75-A)</i>	1000 g	
Massa della flangia (EQC75-B) <i>Weight of the tool plate (EQC75-B)</i>	160 g	
Tipo di meccanismo per il bloccaggio <i>Lock / Unlock mechanism type</i>	Sfere <i>Balls</i>	
Tempo di movimento <i>Coupling / uncoupling time</i>	≤0.5 s	
Massima distanza di aggancio <i>Maximum coupling distance</i>	1 mm	
Disallineamento <i>Skew</i>	±3°	
Grado di protezione <i>Protection rating</i>	IP40	
Capacità di carico <i>Load capacity</i>	10 kg	
Forza massima di tenuta assiale (accoppiato) <i>Maximum axial holding force (coupled)</i>	2000 N	
Massima coppia di tenuta torsionale <i>Maximum torsional holding torque</i>	150 Nm	
Intervallo di temperatura di lavoro <i>Allowed temperature range</i>	5÷60 °C	
Connessione elettrica <i>Electrical connection</i>	M12, 8 poli <i>M12, 8-pole</i>	
Alimentazione <i>Power supply</i>	24 Vdc ± 10%, 0.5 Arms, 3.5 Apk	
Ingressi digitali PNP <i>PNP digital inputs</i>	Basso: comando di aggancio <i>Low: coupling command</i>	Alto: comando di sgancio <i>High: uncoupling command</i>
Uscite digitali PNP (max 100 mA cad.) <i>PNP digital outputs (max. 100 mA each)</i>	Uscita di stato del sistema aperto <i>Uncoupled (open)</i>	Uscita di stato del sistema chiuso <i>Coupled (closed)</i>
Ritardo di inizializzazione uscita <i>Output initialisation delay</i>	200 ms	

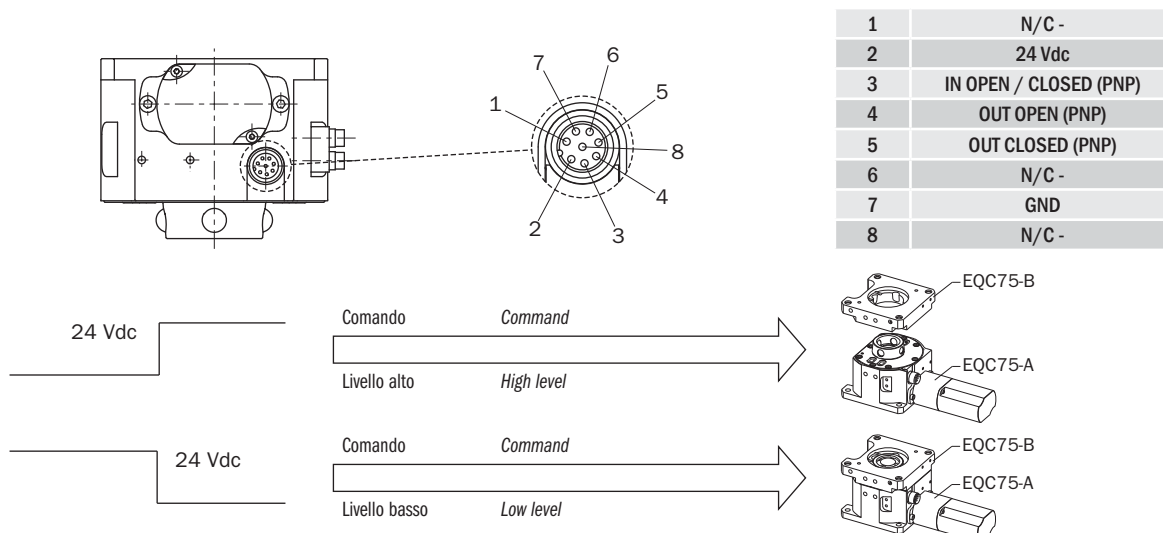
Connessione elettrica principale

Il cambia utensile elettrico è dotato di un connettore maschio M12 a 8 poli per l'alimentazione a 24 Vdc, per il segnale di comando di aggancio/sgancio e per la connessione dei segnali digitali di uscita che identificano la configurazione di sistema accoppiato e disaccoppiato.

Non è necessaria un'ulteriore elettronica di comando esterna.

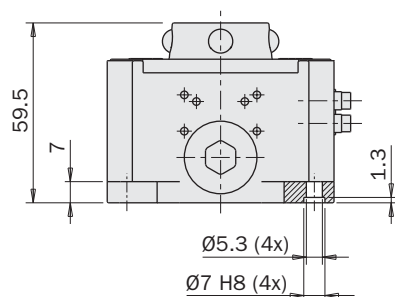
Main electrical connection

The electric quick changer is equipped with an 8-pole M12 male connector that provides a 24 VDC power supply for the locking/ unlocking command and for the connection of the digital outputs that identify the coupled and uncoupled system status. No additional external electronic control system is required.

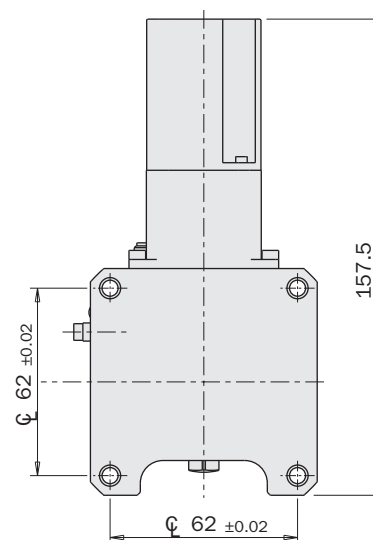
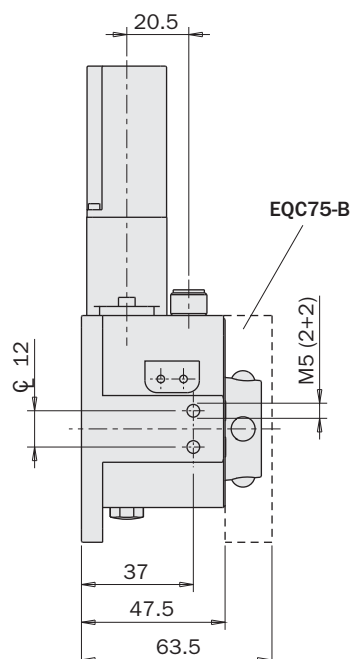
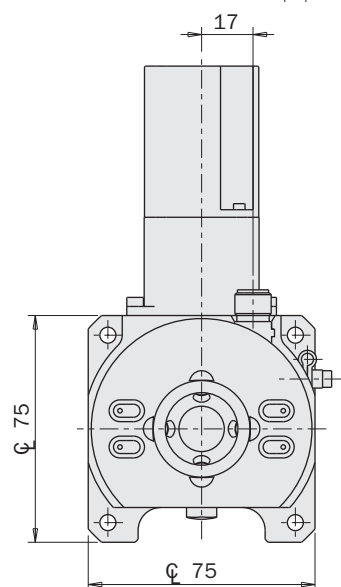


Dimensioni (mm) / Dimensions (mm)

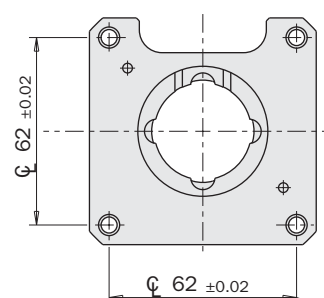
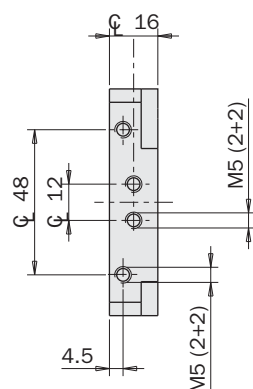
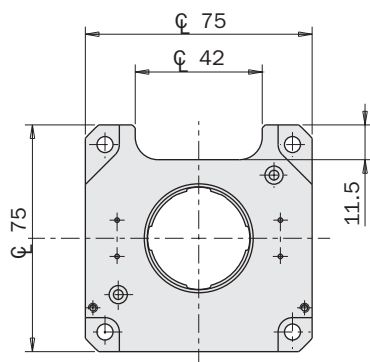
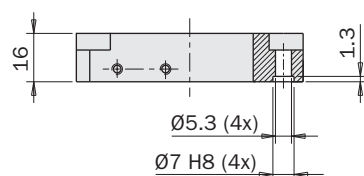
EQC75-A



FIRST ANGLE
PROJECTION



EQC75-B

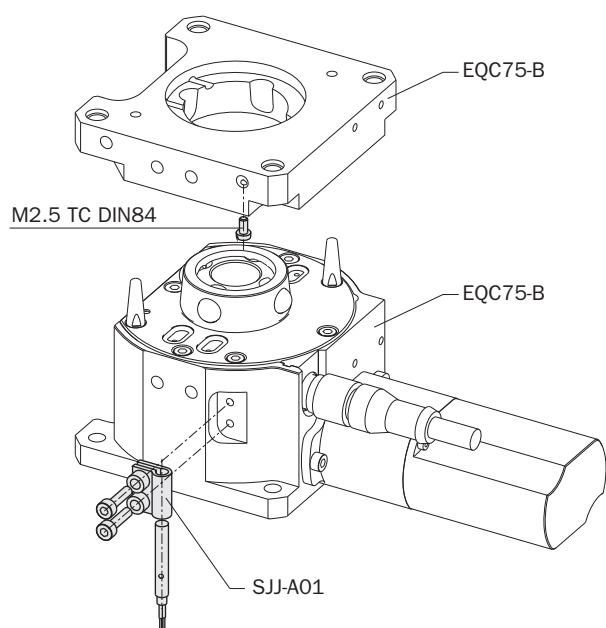


Sensori induttivi (opzionali)

La presenza della parte EQC75-B entro la distanza di aggancio può essere rilevata per mezzo di un sensore induttivo Ø4 (opzionale) che si fissa con il supporto SJJ-A01.

I sensori utilizzabili sono:

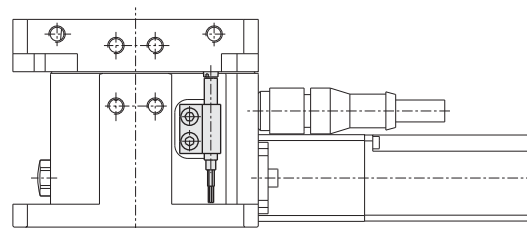
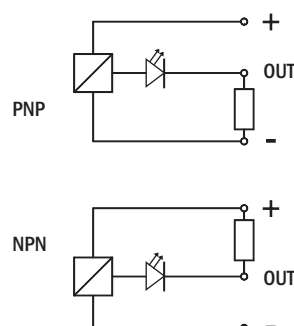
SI4M225-G	NPN	Cavo 2.5m 2.5m cable
SI4N225-G	PNP	Cavo 2.5m 2.5m cable



Inductive sensors (optional)

The presence of the EQC75-B within coupling distance can be detected by a Ø4 inductive sensor (optional) that is fixed using support SJJ-A01.

The sensors that can be used are:



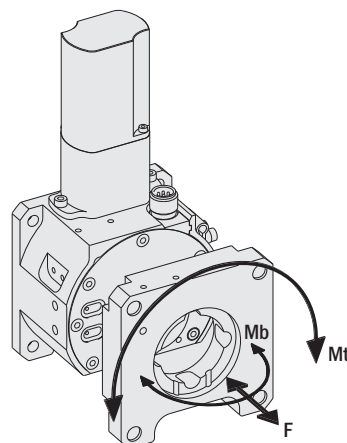
Carichi di sicurezza

Consultare la tabella per i carichi massimi ammissibili. Forze e coppie eccessive possono danneggiare il sistema e causare difficoltà di funzionamento compromettendo la sicurezza dell'operatore. F ed M sono i carichi massimi ammissibili in condizioni statiche.

Safety loads

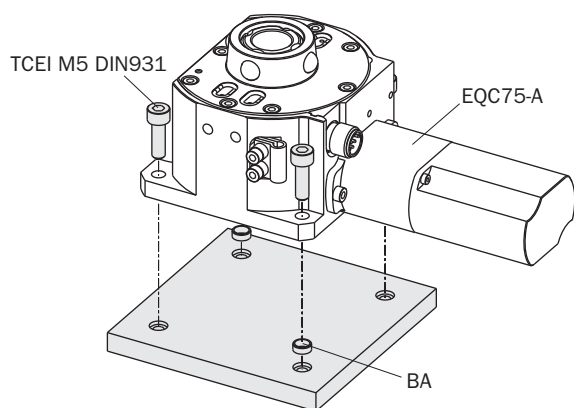
Check the table for the maximum loads allowed. Excessive forces or torques can damage the system, cause operation problems and endanger the safety of the operator. F and M are the maximum loads allowed under static conditions.

		EQC75-A
Momento massimo Maximum moment	Mb	100 Nm
Momento massimo Maximum moment	Mt	150 Nm
Forza massima Maximum force	F	2000 N



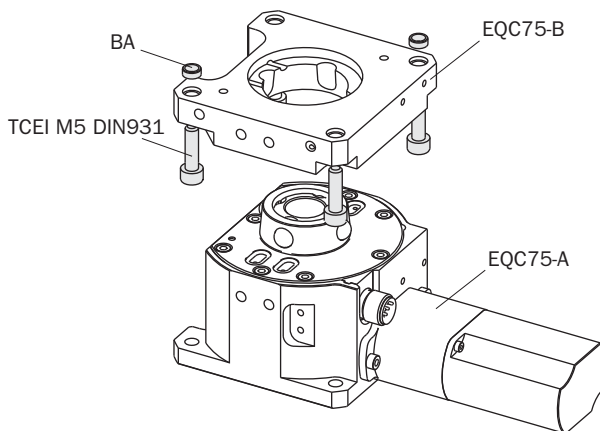
Fissaggio

La parte attiva del cambia utensile può essere fissata esclusivamente sul fondo utilizzando quattro viti.
La flangia B può essere fissata sul carico in modo analogo.
Sia per la parte A che per la parte B, utilizzare per il centraggio due boccole (BA), fornite nella confezione.



Fastening

The active part of the tool changer can only be fastened on the bottom using four screws.
The tool plate, B, can be fastened on the load in a similar manner.
For proper centering of parts A and B, use the two bushes (BA) supplied in the package.



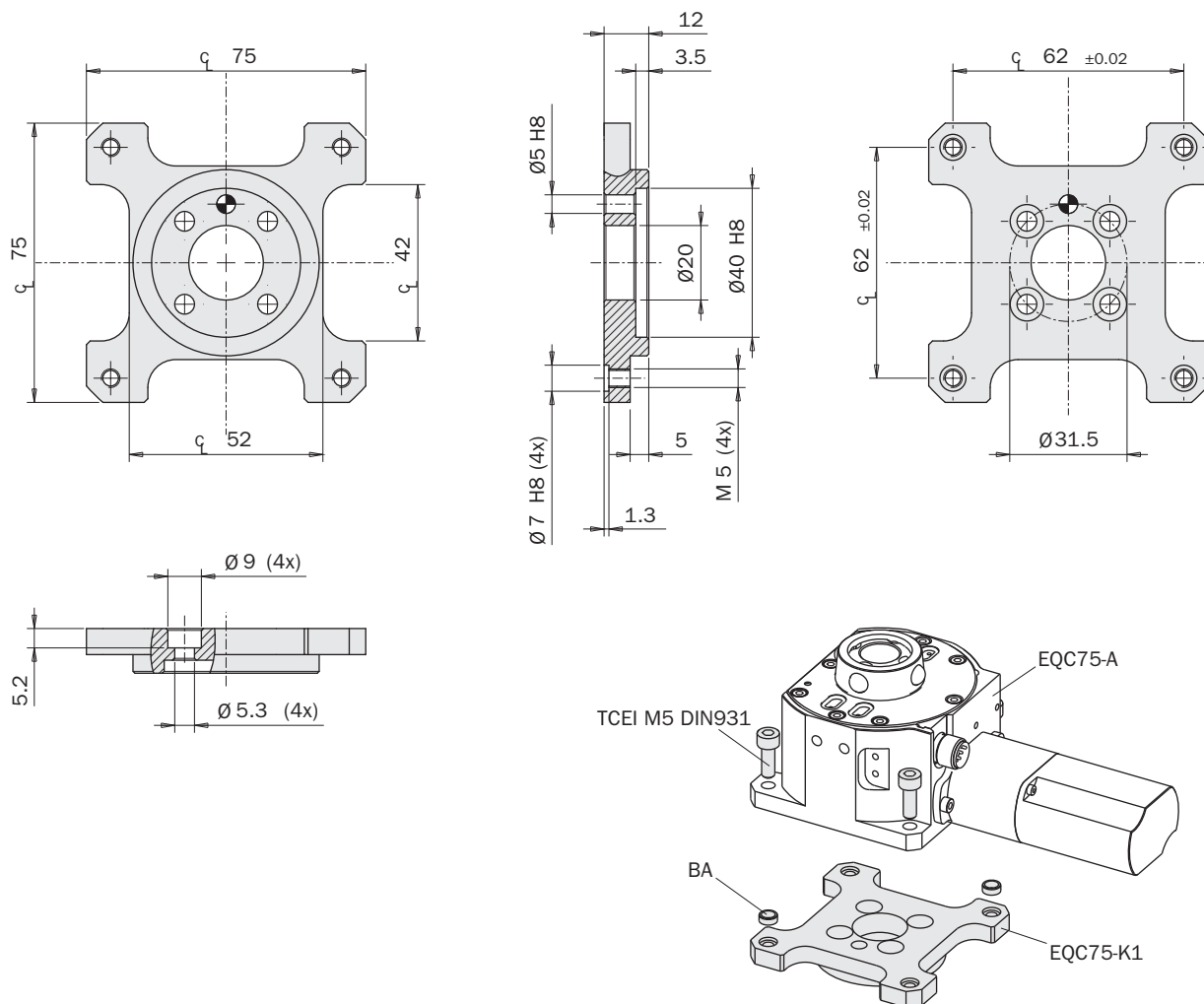
Flangia di interfaccia EQC75-K1 (opzionale)

E' disponibile come accessorio una flangia di fissaggio secondo lo standard ISO 9409-1 per consentire il collegamento dell'EQC75-A al polso di un robot.

Il fissaggio può avvenire mediante quattro viti utilizzando per il centraggio le due boccole (BA) fornite nella confezione.

Interface tool plate EQC75-K1 (optional)

This ISO 9409-1-compliant optional fastening tool plate is available to enable the EQC75-A to be connected to a robot wrist. It can be fastened with four screws using the two centering bushes (BA) supplied in the package.



MAQC / MBQC (opzionali)

Per consentire una connessione elettrica secondaria tra la parte A e la parte B sono disponibili rispettivamente gli accessori MAQC e MBQC (le due parti sono fornite separatamente).

Principali caratteristiche dei connettori:

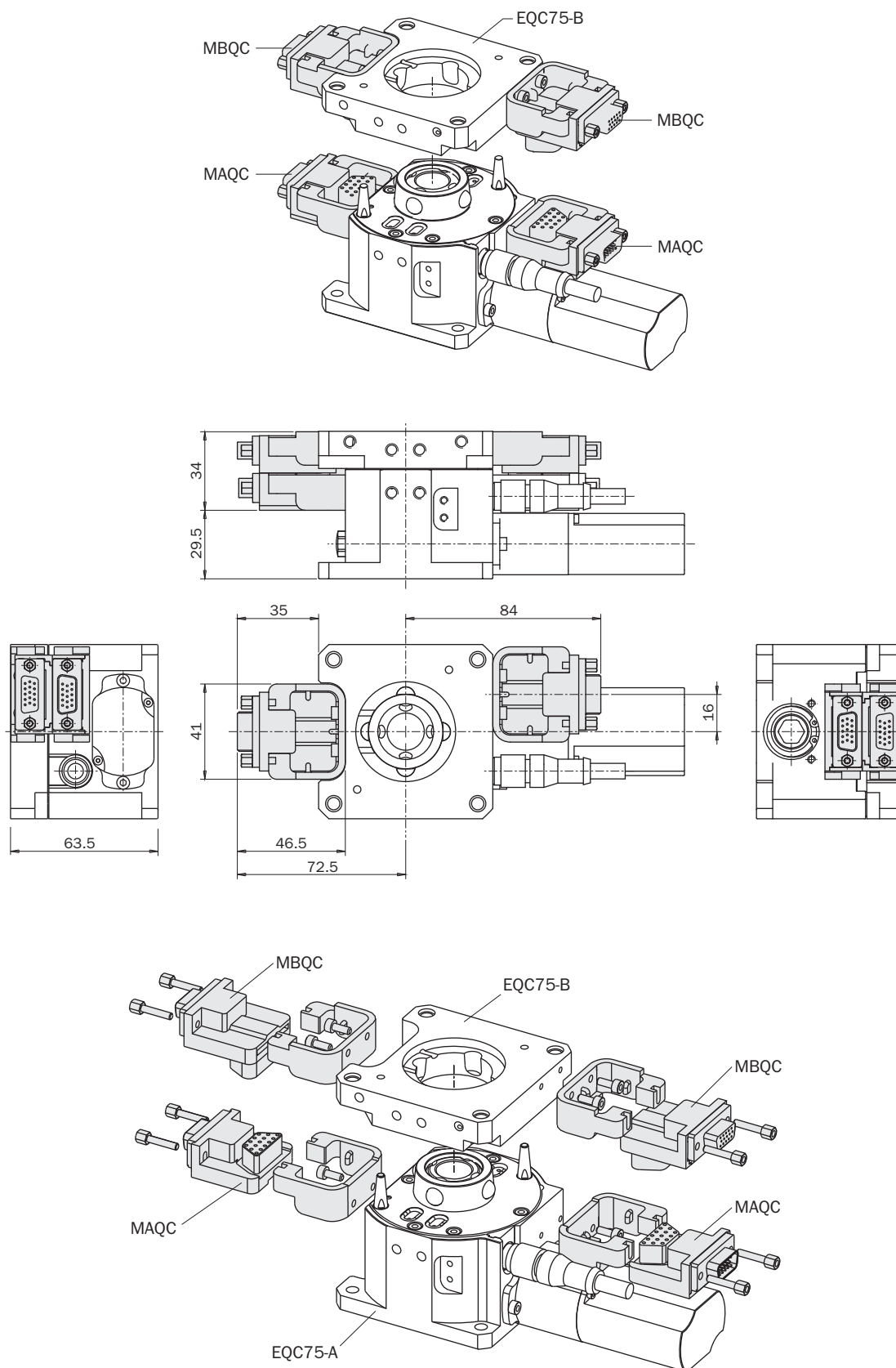
- 15 connessioni elettriche;
- pin a tasteggio con teste autopulenti;
- attacco rapido I/O attraverso connettore VGA (opzionale).

MAQC / MBQC (optional)

To permit a secondary electric connection between parts A and B, the accessories MAQC and MBQC are available respectively (the two parts are supplied separately).

Main characteristics of the connectors:

- 15 electrical connections;
- feeler pin with self-cleaning heads;
- I/O quick connection using VGA connector (optional).

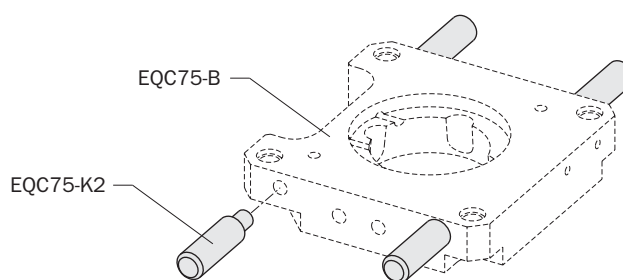
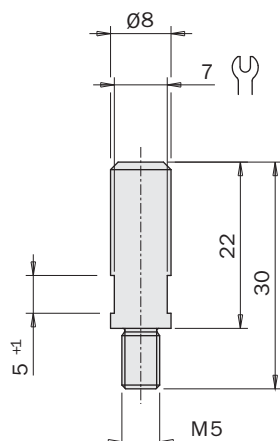


EQC75-K2 (opzionale)

Sono forniti separatamente 4 pioli necessari allo stoccaggio della flangia in condizioni di non utilizzo.

EQC75-K2 (optional)

4 pins required for storage of the tool plate when not in use are supplied separately.



Esempio di utilizzo / Application example

