FIXTURE CHANGING SYSTEM



FLEX LOCATORS

FLEX ZERO BASES

QUICK ZERO SETTING DEVICE



FIXTURE CHANGING SYSTEM

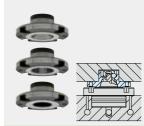


FLEX LOCATORS



PNEUMATIC FLEX LOCATOR **PINS**

Part No. AMWF-W



PNEUMATIC FLEX LOCATOR **BUSHINGS**

Part No. AMWF-BU



PNEUMATIC FLEX LOCATOR **PINS**

Part No. AMWF-L-S



PNEUMATIC FLEX LOCATOR **BUSHINGS**

Part No. AMWF-BU



CLAMPERS (Knob)

Part No. CP723



CLAMPERS

Part No. CP722



BUSHINGS

Part No. CP727



ONE-TOUCH FLEX LOCATOR CLAMPERS (Hexagon Head)

Part No. CP730

FIXTURE CHANGING SYSTEM









ONE-TOUCH FLEX LOCATOR CLAMPERS (Cam Handle)

Part No. CP731



BUSHINGS

Part No. CP735



ONE-TOUCH FLEX LOCATOR PROTECTING COVERS

Part No. CP735-P



ADJUSTABLE-TORQUE **WRENCHES**

Part No. CP-TCW



FLEX LOCATOR PINS

Part No. CP720



FLEX LOCATOR **BUSHINGS (Blind)**

Part No. CP725



FLEX LOCATOR PROTECTING COVERS

Part No. CP725-P



FLEX LOCATOR PINS

Part No. CP721



FLEX LOCATOR BUSHINGS (Through)

Part No. CP726







Part No. CP180



CLAMPING PINS

Part No. CP185



PROTECTING COVER

Part No. CP185-P









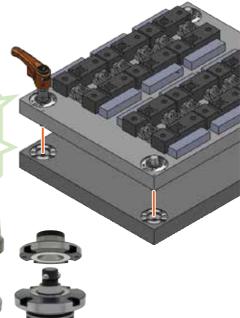


CAD Download : https://www.imao.com/en/

FLEX LOCATORS



Flex Locators provide "precise locating" and "easy operation" by movable tapered pin or bushing.











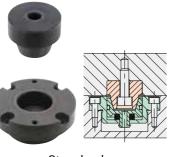




Pneumatic

FLEX LOCATORS

Simple and low cost types with only locating function



Standard

Locating Repeatability 10μm







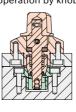


ONE-TOUCH FLEX LOCATORS

Locating and clamping functions



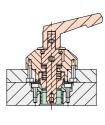
Quick and easy operation by knob



Knob

Locating Repeatability	10μm
Clamping Force	350N, 600N





Handle

Locating Repeatability	10μm
Clamping Force	600N, 700N



Adjustable-torque wrenches are available to control clamping force.

High clamping force by hex head

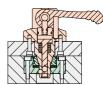


Hexagon Head

Locating Repeatability	8μm
Clamping Force	1700N, 3000N, 4500N



Quick operation by handle



Cam Handle

Locating Repeatability	8μm
Clamping Force	600N, 1200N, 1800N

PNEUMATIC FLEX LOCATORS

Easier and faster pneumatic operation

High clamping force by spring and air







Flange diameter φ70 / φ85

> Locating Repeatability 3 μ m Clamping Force 4kN, 6.3kN







Flange diameter $\phi 40 / \phi 51$

Locating Repeatability $\pm 10 \mu m$ Clamping Force 250N, 350N

AMWF-W

PNEUMATIC FLEX LOCATOR PINS





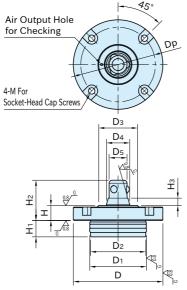


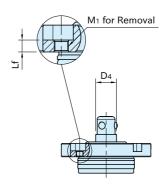
(Tapered Type)



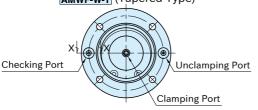
(Straight Type)

Body	Cylinder	Ball
SCM440 steel Induction hardened Black oxide finished Precision ground	S45C steel Induction hardened Electroless nickel plated	SUS440C stainless steel

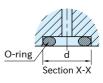




AMWF-W-T (Tapered Type)







Reference

- ·How To Use PNEUMATIC FLEX LOCATORS
- ·How To Install PNEUMATIC FLEX LOCATORS

✓ Note

- ·Use clean air by removing dust with filter or draining with dryer.
- ·Impure compressed air may cause malfunction of the products.
- ·Using lubricator is recommended.

FIXTURE CHANGING SYSTEM



Size		D ₁ (g6)	D ₂	H ₁	D	Dз	H (±0.003)	М	Нз	D ₅ (-0.05)	H ₂	Lf	M ₁	Dp
AMWF-W-T	40	48	47.5	15	70	38	12	M5	8	16	35	5	M6×1 (Drilled Hole φ5.2)	60
AMWF-W-S	50	58	57.5	19	85	48	15	M6	10	20	44	6	M8×1.25(Drilled Hole φ6.8)	72

Size	d	Furnished O-ring	Operating Air Pressure(MPa) *)	Clamping Force(kN)	
AMWF-W-T	40	7.2	P4	O.F.	4
AMWF-W-S	50	8.2	P5	0.5	6.3

Related Product

AMWF-BU PNEUMATIC FLEX LOCATOR BUSHINGS

*) At least 0.45 MPa is required for unclamping. The maximum operating air pressure is 1 MPa.

AMWF-W-T	(Tapered	Type)
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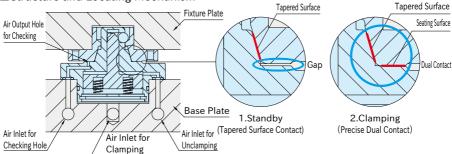
Part Number	D ₄	Weight (g)
AMWF40-W-T	24.5	450
AMWF50-W-T	31.5	820

AMWF-W-S (Straight Type)

	<u> </u>	
Part Number	D ₄	Weight (g)
AMWF40-W-S	20	440
AMWF50-W-S	26	810

Feature

■Structure and Locating Mechanism



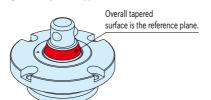
·When the air pressure is lowered by an air leakage, the wedge mechanism and the spring prevent prompt lowering of the clamping force.

Clamping Force at 0 Mpa Air Pressure (Clamping Force of Spring)

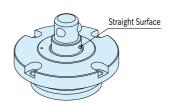
- ·AMWF40Type…1.2kN
- ·AMWF50Type…1.8kN
- · Can check if the fixture plate is clamped properly by applying air through the checking hole.
- ·Precise dual contact provides excellent locating repeatability at $3\,\mu\,\text{m}$.

■Functions

Locating with Tapered Type



Clamping with Straight Type



AMWF-BU

PNEUMATIC FLEX LOCATOR BUSHINGS



IMAO





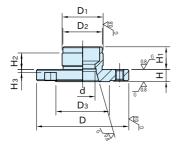


(Diamond Type)

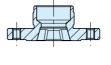


(Straight Type)

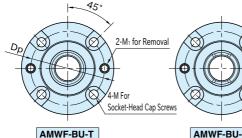
Body
SCM440 steel
Quenched & tempered
Black oxide finish
Precision ground



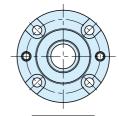
(Tapered Type)











AMWF-BU-S (Straight Type)

Size		D ₁ (g6)	H ₂	D ₂	H₁	М	Нз	D	D₃	H (±0.003)	d (+0.15 +0.05)	M ₁	Dp
AMWE BU B	40	28	10	27.5	15	M5	2.5	60	38	8	16	M5×0.8	50
AMWF-BU-S	50	36	14	35.5	19	M6	3.5	75	48	10	20	M6×1	62

FIXTURE CHANGING SYSTEM



AMWF-BU-T (Tapered Type)

AMWF-BU-T (1	apered Type
Part Number	Weight (g)
AMWF40-BU-T	160
AMWF50-BU-T	323

AMWF-BU-D (Diamond Type)

Part Number	Weight (g)
AMWF40-BU-D	159
AMWF50-BU-D	322

AMWF-BU-S (Straight Type)

Amiri Bo o (e	
Part Number	Weight (g)
AMWF40-BU-S	163
AMWF50-BU-S	330

Feature

■Function

Locating with Tapered Type For setting reference position

Locating with Diamond Type
For locating reference at rotational direction

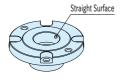




The diagonal two surfaces are the reference planes.



Clamping with Straight Type



Related Product

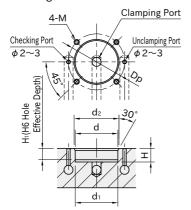
AMWF-W PNEUMATIC FLEX LOCATOR PINS

Reference

- ·How To Use PNEUMATIC FLEX LOCATORS
- ·How To Install PNEUMATIC FLEX LOCATORS

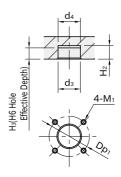
How To Install PNEUMATIC FLEX LOCATORS

■Mounting Hole Dimensions for Pins



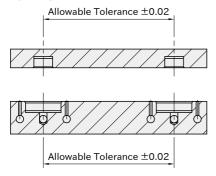
Size	d (H6)	H ₁	d ₁ (-0.1 (-0.3)	Н	d ₂	М	Dp
AMWF40-W	48	12	48	16	50	M5×0.8	60
AMWF50-W	58	16	58	20	60	M6×1	72

■ Mounting Hole Dimensions for Bushings



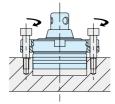
Size	d₃ (H6)	Нз	d ₄ (-0.1 (-0.3)	H ₂	M 1	Dp ₁
AMWF40-BU	28	12	28	16	M5×0.8	50
AMWF50-BU	36	16	36	20	M6×1	62

■Spacing Tolerance



■ How to Remove Pins

For easier removal, insert screws into the tapped holes and screw them.



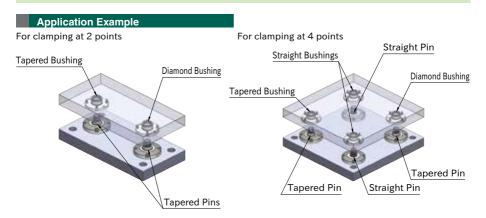
■How to Remove Bushings

For easier removal, insert screws into the tapped holes and screw them.



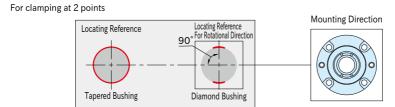


How To Use PNEUMATIC FLEX LOCATORS

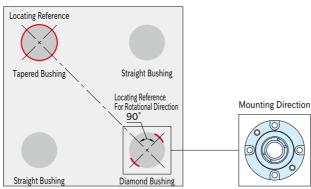


■ Positioning Order of Bushings

Mount the Tapered Bushings and Diamond Bushings as in the figure below for locating fixture plates. Pay attention to the mounting direction of the Diamond Bushings, since the direction for use at 2 points and the direction for use at 4 points differ.



For clamping at 4 points



AMWF-L-S

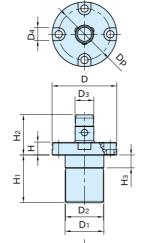
PNEUMATIC FLEX LOCATOR PINS

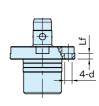
R⊕∺S IMAO



AMWF-L-S

AMWF-L-S-G







AMWF-L-S (Port Style)

AMWF-L-S-G (Direct Style)

Body	Ball	Coiled Spring
S45C steel	SUS440C	SUS304WPB
Electroless nickel plated	stainless steel	stainless steel

Part Number	D ₁ (g6)	Нз	D ₂	H ₁	D	Н	D₃ (h8)	H ₂	d	Lf	D ₄	Dp
AMWF18L-4S	24	8	23.4	29.5	40	8	12	25	4.5	3.5	8	32
AMWF26L-4S	32	8.5	31.4	31.7	51	9.5	16	28.5	5.5	4	9.5	41
AMWF18L-4S-G	24	8	23.4	24.5	40	8	12	25	4.5	3.5	8	32
AMWF26L-4S-G	32	8.5	31.4	25.5	51	9.5	16	28.5	5.5	4	9.5	41

Part Number	М	Air Pressure (MPa)	Clamping Force (N)	Weight (g)
AMWF18L-4S	_		250	154
AMWF26L-4S	_	0.5	350	289
AMWF18L-4S-G	M4×0.7	0.5	250	136
AMWF26L-4S-G	M5×0.8		350	252

Reference

- ·How To Install PNEUMATIC FLEX LOCATORS
- ·How To Use PNEUMATIC FLEX LOCATORS

Related Product

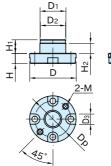
AMWF-BU PNEUMATIC FLEX LOCATOR BUSHINGS

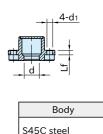


AMWF-BU

PNEUMATIC FLEX LOCATOR BUSHINGS

R⊕\S





Electroless nickel plated

IMAO

Part Number	D ₁ (g6)	H ₂	D ₂	H ₁	D	Н	d (E7)	d₁	Lf	Dз	М	Dp	Weight (g)
AMWF18-BU	20	7.5	19.6	10.5	36	8	12.1	4.5	3.5	8	M4×0.7	28	57
AMWF26-BU	25	7	24.6	11	44	9.5	16.1	5.5	4	9.5	M5×0.8	34	97

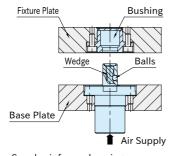
Reference

- ·How To Install PNEUMATIC FLEX LOCATORS
- ·How To Use PNEUMATIC FLEX LOCATORS

Related Product

AMWF-L-S PNEUMATIC FLEX LOCATOR PINS

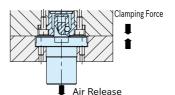
Feature



Supply air for unclamping.
The wedge goes up and releases the balls.



Quick clamping and unclamping reduce set-up time in production equipment.



Release air for clamping. The wedge goes down and pushes the balls to pull down the bushing. Can keep clamped without air supply.



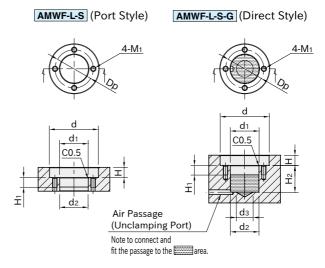
Locating Repeatability: $\pm 10\,\mu\,\text{m}$ The bushing is centered and clamped when the 3 balls are pushed out to gain high locating repeatability.



How To Install PNEUMATIC FLEX LOCATORS

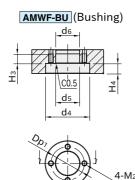
■Mounting Hole Dimensions

·Pins



Part Number	d ₁ (H7)	H ₁	d ₂	H ₂	d₃	d	H (±0.05)	M 1	Dp
AMWF18L-4S	24	8.5	23.8	_	_	41	8.5	M4×0.7 Depth 8	32
AMWF26L-4S	32	9	31.8	_	_	52	10	M5×0.8 Depth10	41
AMWF18L-4S-G	24	8.5	23.8	25.5	14	41	8.5	M4×0.7 Depth 8	32
AMWF26L-4S-G	32	9	31.8	26.5	20	52	10	M5×0.8 Depth10	41

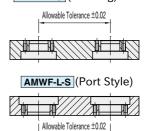
·Bushings



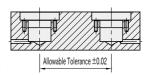
Part Number	d₅ (H7)	Нз	d ₆	d ₄	H ₄ (±0.05)	M ₂	Dp ₁
AMWF18-BU	20	8	19.8	37	8.5	M4×0.7 Depth 8	28
AMWF26-BU	25	7.5	24.8	45	10	M5×0.8 Depth10	34

■Spacing Tolerance

AMWF-BU (Bushing)



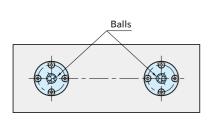
AMWF-L-S-G (Direct Style)

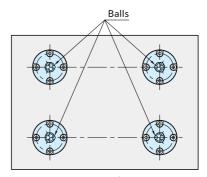




How To Use PNEUMATIC FLEX LOCATORS

■How to Use

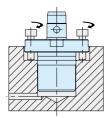




The pins should be mounted in the direction shown in the above figures.

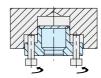
■ How to Remove (Direct Style Pins)

For easier removal, insert screws into the tapped holes and screw them.



■How to Remove (Bushings)

For easier removal, insert screws into the tapped holes and screw them.



Size	Max. Lo

Note

Size	Max. Loading Weight (kg)
AMWF18	40
AMWF26	56

- · If the total weight exceeds the maximum loading weight, the locating repeatability may exceed $\pm 10 \,\mu$ m.
- · In vertical use, the locating repeatability may exceed $\pm 10 \,\mu$ m.
- · Pins and Bushings should be positioned equally against the center of the fixture plate.
- · For Port Style Pins, use with air joint that is available commercially.

Note: The maximum loading weight is the entire sum of the weight of fixture plates, fixtures and workpieces.

Note: The maximum loading weight shown is the value when two sets each of AMWF-L-S Pins and AMWF-BU Bushings are used.



ONE-TOUCH FLEX LOCATOR CLAMPERS (Knob)

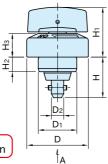


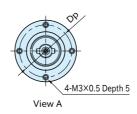


	MAO

Body / Shank	Tapered Pin	Knob	Pin
SCM440 steel Black oxide finished			







★Key Point Space saving operation

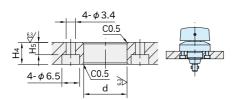
Part Number	D ₁ (g6)	H ₂	D	H ₁	Нз	D ₂	Н	θ	Dp
CP723-0632R-04	16	7.5	32	27	12	5.5	22	120°	25.5
CP723-0840R-06	25	9.5	40	32	15.5	8	26	130°	34

Part Number	Clamping Force(N)	Lifting Force (N) *)	Weight (g)	Proper One-Touch Flex Locator Bushing
CP723-0632R-04	350	30	96	CP727-0632R
CP723-0840R-06	600	100	211	CP727-0840R

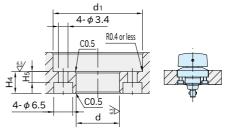
^{*)} The lifting force is the power of the inner spring of the body to push up the movable tapered bushing.

How To Use

■ Mounting Hole Dimension



Part Number	d (H7)	H ₄ (±0.05)	d₁	H ₅
CP723-0632R-04	16	8	33	4
CP723-0840R-06	25	10	41	6



Supplied With

• <u>CP723-0632R-04</u>]: Four pieces of hex. socket-head cap screws M3×0.5-8L • <u>CP723-0840R-06</u>]: Four pieces of hex. socket-head cap screws M3×0.5-10L

Reference

How To Use ONE-TOUCH FLEX LOCATORS (Handle / Knob)



ONE-TOUCH FLEX LOCATOR CLAMPERS

R##S





P.C.D.34

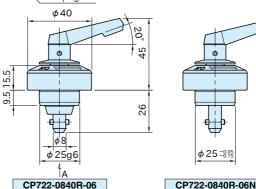
P.C.D.34

Unclamping Position

4-M3x0.5 Depth 5

View A

CP722-0840R-06N



Part Number	Tapered Pin	Clamping Force (N)	Lifting Force (N)*)	Weight (g)	Proper One-Touch Flex Locator Bushing
CP722-0840R-06	With	600	100	220	CD707 0040D
CP722-0840R-06N	Without	700	_	215	CP727-0840R

^{*)} The lifting force is the power of the inner spring of the body to push up the movable tapered pin.

How To Use

■ Mounting Hole Dimension

Can be used with plates of 10mm \sim 22mm thickness. $4-\phi$ 3.4 C0.5 $4-\phi$ 6.5 C0.5 ϕ 25H7

Installation on 10mm-thick Plate

φ 41 4-φ 3.4 CO.5 R0.4 or less φ 25H7

Installation on 10mm-22mm Thick Plate Drill a counterbored hole.

Reference

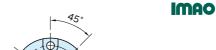
How To Use ONE-TOUCH FLEX LOCATORS (Handle / Knob)

Supplied With

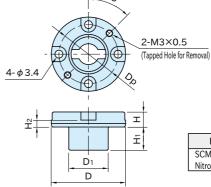
4 of M3 \times 0.5-10L Hex Socket-Head Cap Screw

ONE-TOUCH FLEX LOCATOR BUSHINGS







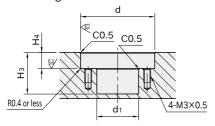


Body
SCM440 steel
Nitrocarburized

Part Number	D (g6)	Н	D ₁	Hı	H ₂	Dp	Weight (g)
CP727-0632R	28	5.5	12.5	8	2	21.5	20
CP727-0840R	32	6.5	17	10	3	25.5	32

How To Use

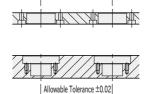
■ Mounting Hole Dimension



Part Number	d (H7)	H ₄ (±0.05)	d₁	Нз
CP727-0632R	28	6	13.5	15
CP727-0840R	32	7	18	18

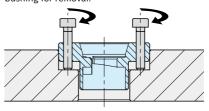
Allowable Tolerance ±0.02

■Spacing Tolerance



■How to Remove

Insert screws into the tapped holes to lift up the bushing for removal.



Related Product

· CP722 ONE-TOUCH FLEX LOCATOR CLAMPERS · CP723 ONE-TOUCH FLEX LOCATOR CLAMPERS(Knob)

Reference

How To Use ONE-TOUCH FLEX LOCATORS (Handle / Knob)

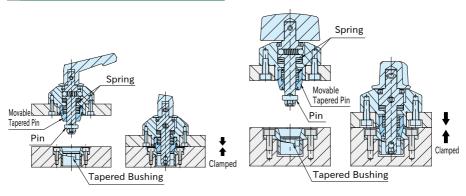


CAD Download : https://www.imao.com/en/



How To Use ONE-TOUCH FLEX LOCATORS (Handle / Knob)

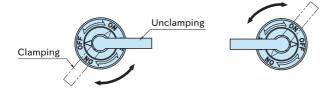
Feature



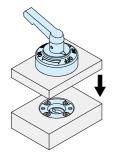
- •The plates are located by fitting of the tapered pin and the tapered bushing.
- •The pin contacts the cam surface inside the bushing, and it compresses the inner spring, then the plates are clamped.

Note: CP722-0840R-06N does not have locating function.

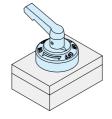
Two pair of clamping and unclamping positions of handle can be chosen for <a>CP722.



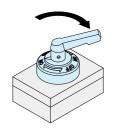
How To Operate



1. Ensure the handle is positioned at "OFF" mark.



2. Insert the clamper to the bushing.



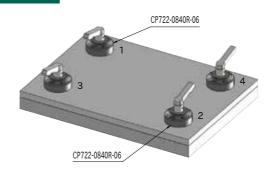
Turn the handle to "ON" mark for clamping.

- *) Follow back these steps for unclamping.
- *) Same operation for Knob style.



Tightening Order

- 1.Ensure the handle is positioned at "OFF" mark and lift down the fixture plate.
- 2. Turn the handle and clamp in order of $1\rightarrow 2\rightarrow 3\rightarrow 4$.
- *) For unclamping, ensure the handle is positioned at "OFF" mark and disassemble the fixture plate.

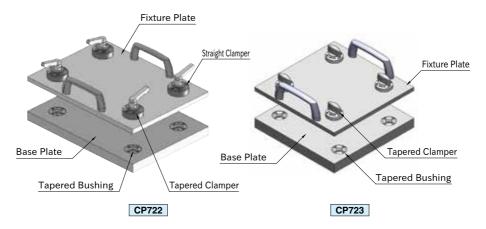


If the handles are not tightened in the correct order, the locating repeatability may exceed 10 μ m.

How To Use

■ Horizontal Assembly of Fixture Plate

Note: Ensure not to lift the fixture plate up and down with gripping the handle of the clampers.

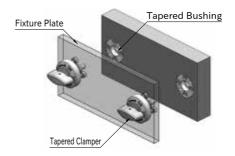


■Vertical Assembly of Fixture Plate

Locating repeatability is 20 μ m.

Siz	е	Max. Loading Weight(kg)
CP722 CP727	0840R	40

Size		Max. Loading Weight(kg)	
CP723	0632R	12	
CP727	0840R	40	



Note: The maximum loading weight is the entire sum of the weight of fixture plates, fixtures and workpieces.

Note: The maximum loading weight shown is the value when two sets of tapered clamper and tapered bushing are used.

ONE-TOUCH FLEX LOCATOR CLAMPERS (Hexagon Head)

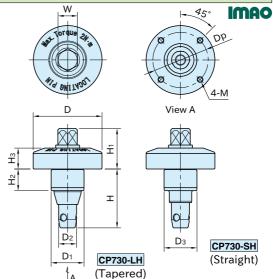
[R⊕#S]

(Tapered)



Body	Clamping Screw	Ball
SCM440 steel	SCM435 steel	
Nitrocarburized	Black oxide finished	SUJ2 steel

(Straight)



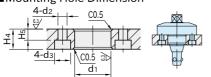
Part Number	D ₁ (g6)	D ₃ (-0.02)	H ₂	D	H ₁	Нз	D ₂	Н	W	М	Dp
CP730-0939LH	18	_	9.5	39	22	12	9	30	10		30
CP730-0939SH	_	18	9.5	39	22	12	9	30	10	M4×0.7 Depth 6	30
CP730-1246LH	22	_	14.5	46	27	14	12	40	13	W4XU.7 Deptil 6	37
CP730-1246SH	_	22	14.5	40	21	14	12	40	10		31
CP730-1656LH	28	_	19.5	56	34	16	16	51	17	M5×0.8 Depth 7	45
CP730-1656SH	_	28	19.5	50	34	10	10	וטן	17	wio∧u.o Deptili /	45

Part Number	Clamping Force (N)	Allowable Screw Torque (N·m)*)	Weight (g)	Proper Bushing
CP730-0939LH	1700	0	134	CP735-0939L
CP730-0939SH	1700	2	133	CP735-0939S
CP730-1246LH	3000	4	241	CP735-1246L
CP730-1246SH	3000	4	239	CP735-1246S
CP730-1656LH	4500	7	457	CP735-1656L
CP730-1656SH	4500	/	453	CP735-1656S

*)Do not apply greater torque than allowable screw torque. Do not use a power tool (impact wrench etc.) to turn the hex head, for damage prevention.

How To Use

■Mounting Hole Dimension



Supplied With

- CP730-0939: Four pieces of hex. socket-head cap screws M4×0.7-10L
- CP730-1246: Four pieces of hex. socket-head cap screws M4×0.7-15L
- CP730-1656: Four pieces of hex. socket-head cap screws M5×0.8-20L

Size	d₁ (H7)	H ₄ (±0.05)	d ₂	Нs	dз	
CP730-0939	18	10	4.5	5	8	
CP730-1246	22	15	4.5	10	8	
CP730-1656	28	20	5.5	14	10	

Reference

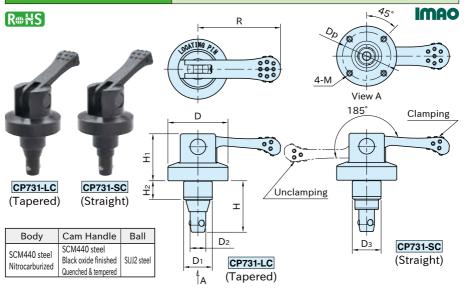
How To Use ONE-TOUCH FLEX LOCATORS (Hexagon Head / Cam Handle)

Related Product

CP-TCW ADJUSTABLE-TORQUE WRENCHES are available for tightening.



ONE-TOUCH FLEX LOCATOR CLAMPERS (Cam Handle)

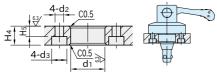


Part Number	D ₁ (g6)	D ₃ (-0.02)	H ₂	D	H ₁	D ₂	Н	М	Dp	R	Cam Handle
CP731-0939LC	18	I	9.5	39	30 9 30			30	50	QLCA-05	
CP731-0939SC	_	18	9.5	39	30	9	30	M4×0.7 Donth 6	30	50	QLOA-05
CP731-1246LC	22	_	14.5	46	36	12	40	M4×0.7 Depth 6	37	63	QLCA-06
CP731-1246SC	_	22	14.5	40	30	12	40		3/	03	QLCA-06
CP731-1656LC	28	_	19.5	9.5 56 42		16	51	MEVO 9 Donth 7	45	80	QLCA-08
CP731-1656SC	_	28	19.5	50	42	10	ان	M5×0.8 Depth 7	40	00	QLUA-00

Part Number	Clamping Force (N)	Operating Load (N)	Weight (g)	Proper Bushing
CP731-0939LC	600	60	191	CP735-0939L
CP731-0939SC	600	00	189	CP735-0939S
CP731-1246LC	1200	130	297	CP735-1246L
CP731-1246SC	1200	130	294	CP735-1246S
CP731-1656LC	1000	160	654	CP735-1656L
CP731-1656SC	1800	160	648	CP735-1656S

How To Use

■Mounting Hole Dimension



Supplied With

• CP731-0939]: Four pieces of hex. socket-head cap screws M4×0.7-10L • CP731-1246]: Four pieces of hex. socket-head cap screws M4×0.7-15L

• (CP731-1246): Four pieces of hex. socket-head cap screws M4X0.7-15L • (CP731-1656): Four pieces of hex. socket-head cap screws M5X0.8-20L

Size	(H7)	(±0.05)	d ₂	H ₅	d₃	
CP731-0939	18	10	15	5	Q	
CP731-1246	22	15	4.5	10	0	
CP731-1656	28	20	5.5	14	10	

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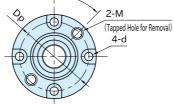
Reference

How To Use ONE-TOUCH FLEX LOCATORS (Hexagon Head / Cam Handle)

ONE-TOUCH FLEX LOCATOR BUSHINGS







(Tapered Type)



(Straight Type)

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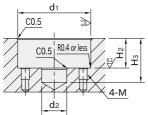
Туре	Body	Tapered Bushing
CP735-L	SCM440 steel Black oxide finished	SCM440 steel Nitrocarburized
CP735-S	Quenched & tempered	-

Part Number	Туре	D (g6)	Н	d	H ₁	Dp	М	Lifting Force (N)*)	Weight (g)
CP735-0939L	Tapered	38	15	4.5	10	30	M5×0.8	300	100
CP735-0939S	Straight	٥٥	15		10			_	101
CP735-1246L	Tapered	45	19		14	37	M6×1	450	179
CP735-1246S	Straight	45	19		14	31		_	184
CP735-1656L	Tapered	55	24		18	45		680	337
CP735-1656S	Straight	၂ ၁၁	24	5.5	10	45		_	341

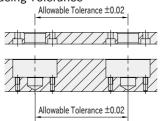
^{*)} The lifting force is the power of the inner spring of the body to push up the movable tapered bushing.

How To Use

■ Mounting Hole Dimension



■Spacing Tolerance



Size	d ₁ (H7)	H ₂ (±0.05)	d ₂	Нз	М	
CP735-0939	38	15.5	13	23	MAYOZ	
CP735-1246	45	19.5	16	28	M4×0.7	
CP735-1656	55	24.5	20	34	M5×0.8	

Related Product

- CP730 ONE-TOUCH FLEX LOCATOR CLAMPERS (Hexagon Head)
- CP731 ONE-TOUCH FLEX LOCATOR CLAMPERS (Cam Handle)
- ·CP735-PONE-TOUCH FLEX LOCATOR (PROTECTING COVERS)

Reference

How To Use ONE-TOUCH FLEX LOCATORS (Hexagon Head / Cam Handle)



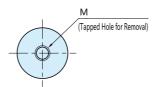
CP735-P

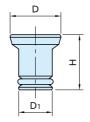
ONE-TOUCH FLEX LOCATOR PROTECTING COVERS

R⊕#S

IMAO







Body	O-Ring
A5052 aluminum Red	NBR nitrile rubber

Part Number	D	Н	D ₁	М	Weight (g)	Proper Bushing	
CP735-0939P	13.5	15	9	M4×0.7	3	CP735-0939L	CP735-0939S
CP735-1246P	17	19	12	W4×U.7	6	CP735-1246L	CP735-1246S
CP735-1656P	23	22.5	16	M5×0.8	14	CP735-1656L	CP735-1656S

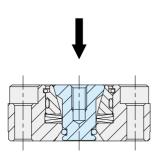
How To Use

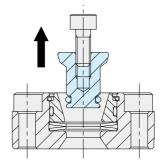
■How to Install

Insert the product to the center hole of the Flex Locator Bushings and use it as a protective cover.

■ How to Remove

Insert a screw into the tapped hole and pull it out.





CP-TCW

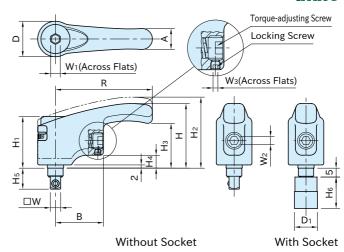
ADJUSTABLE-TORQUEWRENCHES



IMAO







With Socket

Socket Dimension

00				
01 1011		SCM415 steel		-
CD TCW S	ainted Orange	Carburized-hardened Black oxide finished	Quenched & tempered Black oxide finished	Cr-V chrome-vanadium steel Chrome plated

Size		W	R	Н	D	H ₁	H ₂	Нз	H ₄	Н₅	Α	В	W ₁	W ₂	W 3
CP-TCW	6	6.0	60	40	22	32	44	27.5	8	10	13	30	6	5	2
	8	6.3	75	48	26	38	52.5	33	9	13	15	37	8	6	2.5
CP-TCW-S	10	9.5	90	57	32	45	62.5	39.5	10.5	16.5	18	39	10	6	2.5

Size		Torque Range (N·m)	
CP-TCW-S	6	1~3.5	
	8	2~5.4	
	10	3~8	

■Without Socket

Part Number	Weight (g)
CP-TCW 6	166
CP-TCW 8	284
CP-TCW10	467

■With Socket

Part Number	W ₄	D ₁	H ₆	Weight (g)
CP-TCW 6-S	10	13.8	25	183
CP-TCW 8-S	13	17.8	20	314
CP-TCW10-S	17	23.8	30	529

FIXTURE CHANGING SYSTEM



How To Use

Can be used as a tightening tool for CP730 ONE-TOUCH FLEX LOCATOR CLAMPERS (Hexagon Head).



Click

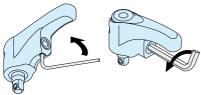
Part Number

2. Turn the handle to clamp.

The handle clicks to indicate completed tightening at desired torque.

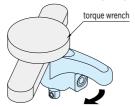
How To Set Torque

The preset torque is roughly set to its maximum tightening torque.

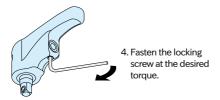


1. Loosen the locking screw.

2. Turn the hex key CCW to fine adjust the torque-adjusting screw.



- 3. Measure the torque with a torque wrench.
- · Connect a torque wrench on the Adjustable-Torque Wrench.
- ·Turn the handle in the tightening direction and fine adjust the depth of torque-adjusting screw to reach to the handle clicking position at desired torque.



Reference

See ATCL ADJUSTABLE-TORQUE HANDLES page for further information.

Related Product

CP730 ONE-TOUCH FLEX LOCATOR CLAMPERS (Hexagon Head)

Technical Information

8-S

·For initial several thousand operations, the tightening torque will decrease. (See the graph below) Measure the torque regularly, and fine adjust the depth of torque-adjusting screw as needed.

Proper ONE-TOUCH FLEX

LOCATOR CLAMPERS

CP730-0939LH | CP730-0939SH

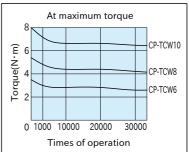
CP730-1656LH | CP730-1656SH

CP730-1246SH

CP730-1246LH

•The tightening torque can vary. (Max.±15%) Not recommended for precise torque management.

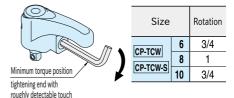
Torque Performance Graph



Note

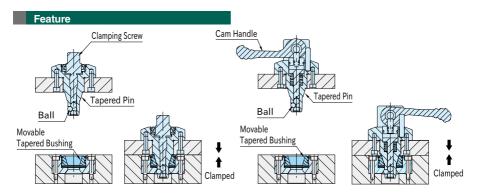
·Do not overlighten or overloosen the torqueadjusting screw.

■ Reference Torque Adjusting Range



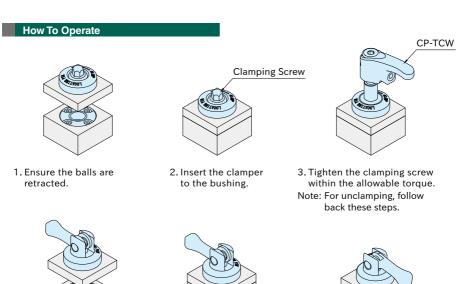
- •To reach approx, the min torque, loosen the torque adjusting screw to the same end surface level of the body, then tighten it until you feel light touch of stop. (Ensure that the torque adjusting screw does not protrude from the body when loosening it.)
- ·To reach approx. the max torque, rotate the torque adjusting screw depending on the above table from the approx. min torque as instructed previously.

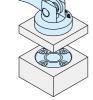
How To Use ONE-TOUCH FLEX LOCATORS (Hexagon Head / Cam Handle)



- ·The plate is located by fitting of the tapered parts.
- ·When the clamping screw or the cam handle is tightened, the balls goes out and the movable tapered bushing goes down. The fixture plate contacts with the base plate.
- ·For clamping screw, 2 turns tightening is enough.

Note: No locating function on the combination of straight pin and straight bushing.





1. Ensure that the cam handle is loosened.



2. Insert the clamper to the bushing.

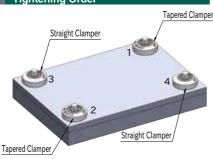


3. Tighten the cam handle. Note: For unclamping, follow back these steps.

FIXTURE CHANGING SYSTEM



Tightening Order



CP730

- 1.Ensure that each plate is in close contact. *)
- 2.Tighten the screws temporarily in order of 1→2→3→4. For temporary tightening, the tightening torque should be approximately 50% of the final tightening.
- 3. Tighten the screws finally in order of $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$.
- *) The fixture plate may be pushed up by the lifting force of the tapered bushing. In such cases, tighten the screws loosely in order of 1→2→3→4, and make the each plate be in close contact with each other. Then tighten the screws temporarily. For the lifting force, see the measurement table of CP735 ONE-TOUCH FLEX LOCATOR BUSHINGS.

CP731

•Tighten the cam handles in order of $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$.

If the screws are not tightened in the correct order, the locating repeatability may exceed $8\,\mu\text{m}$.

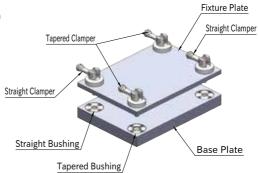
How To Use

■ Horizontal Assembly

Two sets of tapered pin and straight pin

Use tapered or straight pin and bush as a set.

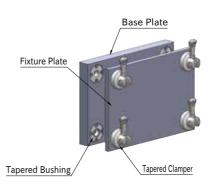
Note:Ensure not to lift the fixture plate up and down with gripping the cam handle of the clampers.



■Vertical Assembly

In vertical assembly, the locating repeatability is $10 \,\mu$ m.

Size	Э	Max. Loading Weight(kg)
CP730	0939	40
CP735	1246	60
CP735	1656	100
Size	Э	Max. Loading Weight(kg)
	0939	
CP731		Weight(kg)



Note: The maximum loading weight is the entire sum of the weight of fixture plates, fixtures and workpieces.

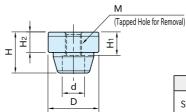
Note: The maximum loading weight shown is the value when two sets of tapered clamper and tapered bushing are used.

FLEX LOCATOR PINS

R##S







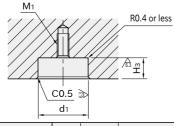
Body	
SCM440 steel Nitrocarburized	

Part Number	D (g6)	H ₂	Н	М	H ₁	d	Weight (g)
CP720-16032	16	5.5	11.5	M 5×0.8 (Prepared Hole ¢ 4.2)	6	8	18
CP720-25050	25	10	20	M 8×1.25(Prepared Hole ∮ 6.8)	11.5	11	49
CP720-38070	38	15	29.5	M10×1.5 (Prepared Hole Ø 8.5)	18	14	176
CP720-56095	56	22	43.5	M16×2 (Prepared Hole ϕ 14)	28.5	20	569

Proper Flex Locator Bushings CP725-16032 CP725-25050 CP725-38070 CP725-56095

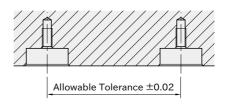
How To Use

■ Mouting Hole Dimension

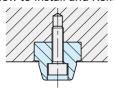


Part Number	d₁ (H7)	H₃ (±0.05)	M 1
CP720-16032	16	6	M 4×0.7
CP720-25050	25	10.5	M 6×1
CP720-38070	38	15.5	M 8×1.25
CP720-56095	56	22.5	M12×1.75

■Spacing Tolerance



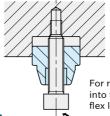
■How to Install and Remove



Use a socket-head cap screw to fix the flex locator pin.

Reference

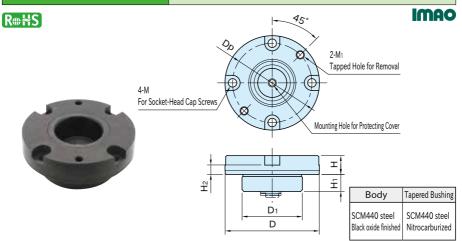
- ·How To Install FLEX LOCATORS (Blind)
- ·How To Use FLEX LOCATORS (Blind)



For removal, insert a screw into the tapped hole of the flex locator pin and screw it.



FLEX LOCATOR BUSHINGS (Blind)

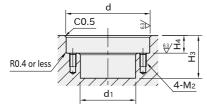


Part Number	D (g6)	Н	D ₁	H ₁	М	H ₂	M 1	Dp	Lifting Force (N)*)	Weight (g)
CP725-16032	32	6.5	20	7	М3	3	M3×0.5	25.5	110	60
CP725-25050	50	10	32	9	M4	5	M4×0.7	42	180	160
CP725-38070	70	15	48	14	M5	9	M5×0.8	60	400	508
CP725-56095	95	22	70	21	M6	15	M6×1	84	690	1451

^{*)} The lifting force is the power of the inner spring of the body to push up up the movable tapered bushing.

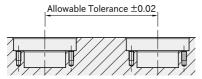
How To Use

■ Mouting Hole Dimension



Part Number	d (H7)	H ₄ (±0.05)	d ₁	Нз	M ₂
CP725-16032	32	7	21	18	M3×0.5
CP725-25050	50	10.5	33	24	M4×0.7
CP725-38070	70	15.5	49	35	M5×0.8
CP725-56095	95	22.5	71	51	M6×1

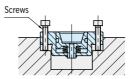
■Spacing Tolerance



Reference

- ·How To Install FLEX LOCATORS (Blind)
- ·How To Use FLEX LOCATORS (Blind)

■How to Remove



For removal, insert screws into the tapped holes and screw it.

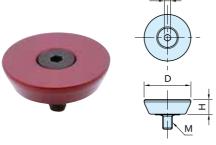
Related Product

CP720 FLEX LOCATOR PINS

CP725-P

FLEX LOCATOR PROTECTING COVERS

R##S

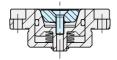


M	IF	10)

A5056 aluminum SCM435 steel Black oxide finished	Body	Screw

Part Number	D	Н	М	W	Weight (g)	Proper Flex Locator Bushings
CP725-16032P	12	4	M3×0.5	2	3	CP725-16032
CP725-25050P	19	6	M4×0.7	2.5	5	CP725-25050
CP725-38070P	29	7	M5×0.8	3	14	CP725-38070
CP725-56095P	44	8	M6×1	4	35	CP725-56095

How to Install



Mount on Flex Locator Bushings onto the tapped hole as a protective cover.

How To Install FLEX LOCATORS (Blind)

Feature

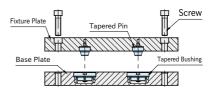
Movable Tapered Bushing Tapered Bushing Contact

•Fixture plate is lifted down, and tapered pin engages with tapered bushing.

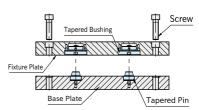
·Movable tapered bushing goes down, and fixture plate contacts with base plate.

How To Install

Bushings on Base Plate



Pins on Base Plate





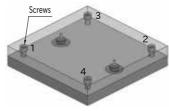
How To Use FLEX LOCATORS (Blind)

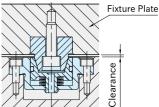
Tightening Order

- 1.Ensure that each plate is in close contact.*)
- 2. Tighten the screws temporarily in order of 1→2→3→4. For temporary tightening, the tightening torque should be approximately 50% of the final tightening.
- 3. Tighten the screws finally in order of $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$.
- *) The fixture plate may be pushed up by the lifting force of CP725 Flex Locator Bushings.

In such cases, tighten the screws loosely in order of $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$, and make the each plate be in close contact with each other. Then tighten the screws temporarily.

For the lifting force, see the measurement table of CP725 Flex Locator Bushings.

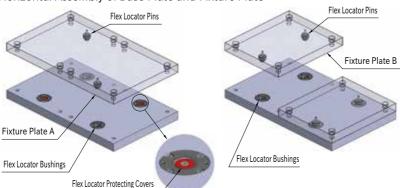




If the screws are not tightened in the correct order, the locating repeatability may exceed 10 $\mu\,\text{m}.$

How To Use

■ Horizontal Assembly of Base Plate and Fixture Plate



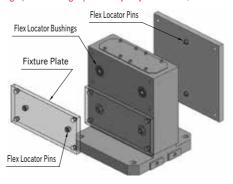
■ Vertical Assembly of Tooling Block and Fixture Plate

If the total weight exceeds the maximum loading weight, the locating repeatability may exceed 10 μ m.

Siz	ze	Max. Loading Weight(kg)		
CP720 CP725	16032	80		
	25050	120		
	38070	200		
	56095	220		

Note: The maximum loading weight is the entire sum of the weight of fixture plates, fixtures and workpieces.

Note: The maximum loading weight shown is the value when two sets of CP720 Flex Locator Pins and CP725 Flex Locator Bushings are used.

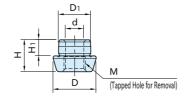




FLEX LOCATOR PINS







Body
M440 steel crocarburized

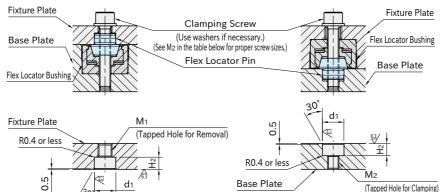
Part Number	D ₁ (p6)	H ₁	D	Н	М	d	Weight (g)	Proper Flex Locator Bushings
CP721-12025	12	4.5	15	10	M10×1.5 Depth 3.5	8.5	6	CP726-12025
CP721-15032	15	7.5	20	15	M12×1.75Depth 4.5	10.2	16	CP726-15032
CP721-20045	20	10	30	20	M16×2 Depth 5.5	14	47	CP726-20045

How To Use

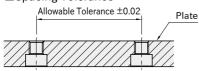
■Mounting Hole Dimensions for Press Fit

Installation of the Flex Locator Pins on the Fixture Plate

Installation of the Flex Locator Pins on the Base Plate



■Spacing Tolerance



Part Number	d₁ (H6)	H ₂	M ₁	M ₂
CP721-12025	12	5.5	M 8×1.25	M 6×1
CP721-15032	15	8.5	M10×1.5	M 8×1.25
CP721-20045	20	11	M14×1.5	M10×1.5
			W14×1.5	M12×1.75

Reference

- ·How To Install FLEX LOCATORS (Through)
- ·How To Use FLEX LOCATORS (Through)



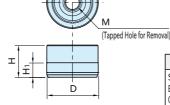
CP726

FLEX LOCATOR BUSHINGS (Through)

R⊕#S







Body	Tapered Bushing
SCM440 steel Black Oxide Finished Quenched & Tempered	SCM440 steel Nitrocarburized

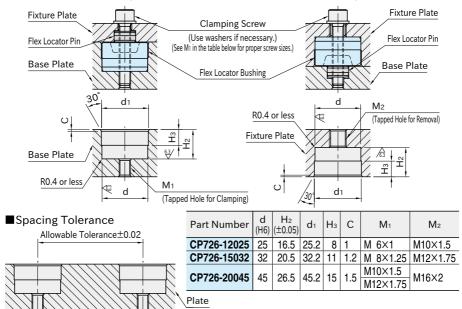
Part Number	D	Н	H ₁	М	Lifting Force (N)*)	Weight (g)
CP726-12025	25 (+0.028)	16	8	M 8×1.25(Prepared Hole ∮ 6.8)	540	46
CP726-15032	32 (+0.031)	20	9	M10×1.5 (Prepared Hole	600	92
CP726-20045	45 (+0.031)	26	11	M14×1.5 (Prepared Hole \$\phi\$ 12.5)	780	230

^{*)} The lifting force is the power of the inner spring of the body to push up the movable tapered bushing.

How To Use

■ Mounting Hole Dimension for Press Fit

Installation of the Bushings on the Base Plate Installation of the Bushings on the Fixture Plate



Reference

- ·How To Install FLEX LOCATORS (Through)
- ·How To Use FLEX LOCATORS (Through)

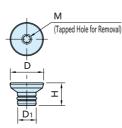
CP726-P

FLEX LOCATOR PROTECTING COVERS









Body	O-Ring	
A5056 aluminum	NBR	
Red	nitrile rubber	

Part Number	D	Н	D ₁	М	Weight (g)	Proper Flex Locator Bushings
CP726-12025P	15	10	9	M4×0.7	2	CP726-12025
CP726-15032P	19	13	11	M5×0.8	5	CP726-15032
CP726-20045P	29	18	16	M6×1	17	CP726-20045

How To Use

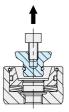
■ How to Install

Insert the product to the center hole of the Flex Locator Bushings and use it as a protective cover.



■ How to Remove

Insert a screw into the tapped hole and pull it out.



How To Install FLEX LOCATORS (Through)

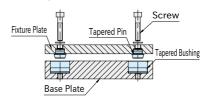
Feature

Movable Tapered Bushing Contact

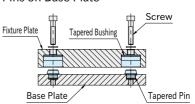
- When the fixture plate is lifted down, the tapered pin engages with the tapered receiver bushing.
- The movable tapered receiver bushing goes down by screwing the clamping screw and the fixture plate contacts with the base plate.

How To Install

Bushings on Base Plate



Pins on Base Plate





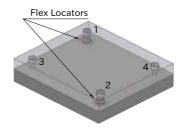
How To Use FLEX LOCATORS (Through)

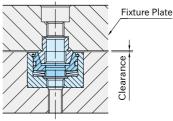
Tightening Order

- 1.Ensure that each plate is in close contact. *)
- 2. Tighten the screws temporarily in order of $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$. For temporary tightening, the tightening torque should be approximately 50% of the final tightening.
- 3. Tighten the screws finally in order of $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$.
- *) The fixture plate may be pushed up by the lifting force of CP726 Flex Locator Bushings.

In such cases, tighten the screws loosely in order of $1\rightarrow2\rightarrow3\rightarrow4$, and make the each plate be in close contact with each other. Then tighten the screws temporarily. For the lifting force, see the measurement table of CP726 Flex Locator Bushings.

If the screws are not tightened in the correct order, the locating repeatability may exceed 10μ m.



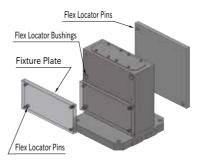


How To Use

■ Horizontal Assembly of Base Plate and Fixture Plate

Flex Locator Pins Fixture Plate Base Plate Flex Locator Bushings Flex Locator Protecting Covers

■ Vertical Assembly of Base Plate and Fixture Plate



In vertical assembly, the locating repeatability may exceed $10 \mu m$ if the total weight exceeds the maximum loading weight.

■How to Remove

For removal, insert screw into the tapped hole and screw it.

Flex Locator Pin	Flex Locator Bushin	10

Size		Max. Loading Weight(kg)
CP721	12025	150
	15032	200
CP726	20045	240

Note: The maximum loading weight is the entire sum of the weight of fixture plates, fixtures and workpieces.

Note: The maximum loading weight shown is the value when two sets of CP721 Flex Locator Pins and CP726 Flex Locator Bushings are used.







FLEX ZERO BASES



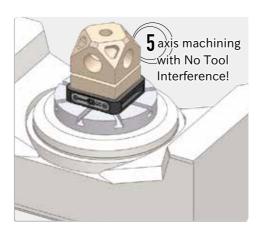
Clamping Force



Repeatability

FLEX ZERO BASES

Powerfully clamp both workpiece or fixture. Pull clamp mechanism maximizes machining area.







CP180

FLEX ZERO BASES

R⊕\S IMAO



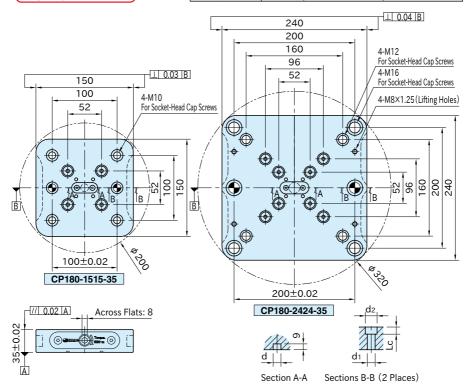


CP180-1515-35

CP180-2424-35

★Key Point Clamp the fixture by single operation!

Body	Threaded Spindle	Clamping Socket
S50C steel Nitrocarburized HV 400 (Effective depth 0.1mm)		S45C steel Black oxide finished



Part Number	d (H9)	d ₁ (H9)	d ₂	Lc	Clamping Force (kN)	Allowable Tightening Torque (N·m)	Weight (kg)
CP180-1515-35	12	12	18	11	40	F0	5
CP180-2424-35	18	18	26	17.5	12	50	13.5

FIXTURE CHANGING SYSTEM

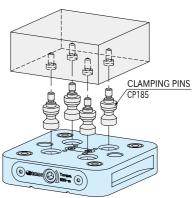


Feature

- · Can be clamped by one operation.
- Pins are fully clamped by approx. 3 rotations of the clamping socket.

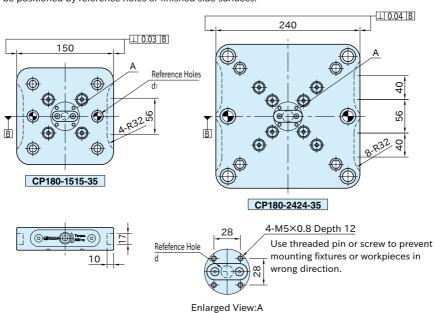


How To Use



■How To Locate

Can be positioned by reference holes or finished side surfaces.

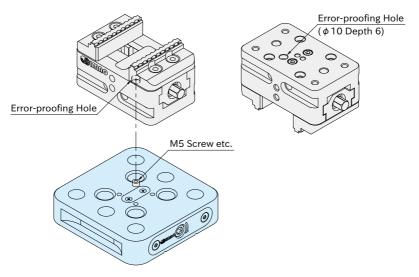


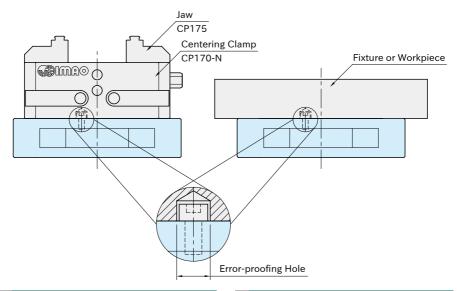


■Usage Example of Error-proofing Hole

Prepare a screw etc. on M5x0.8 Depth 12 hole on CP180 Flex Zero Base to prevent mounting CP170-N Centering Clamp in wrong direction.

<CP170-N Bottom Surface>





Technical Information

Repeatability: $5 \mu m$

Related Product

- · CP185 CLAMPING PINS
- · CP185-P PROTECTING COVER
- · CP170-N CENTERING CLAMPS

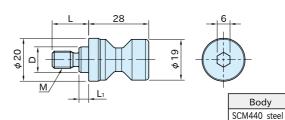


CP185

CLAMPING PINS

R⊕#S





Part Number	М	D (-0.01) -0.03)		L	Weight (g)
CP185-08001	M 8×1.25	12	4.5	17	57
CP185-10001	M10×1.5	16	5.5	20.5	66

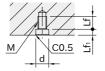
✓ Note

Use 4 pins as a set for mounting.

How To Use

■ Mounting Hole Dimension





Part Number	d (H7)	Lf ₁	М	Lf
CP185-08001	12	5.5	M 8×1.25	12
CP185-10001	16	6.5	M10×1.5	16

Related Product

Can be used in combination with CP170-N CENTERING CLAMPS.(P. 2038 参照)



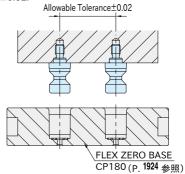
Usage example (CP170-08013N, CP185-08001x4pcs.)

■Spacing Torelance

Allowable tolerance of the mounting holes should be ± 0.02 .

IMAO

Nitrocarburized





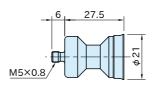
CP185-P

PROTECTING COVER



IMAO







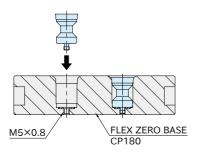
Body
S45C steel
Electroless Nickel Plated

Part Number	Weight (g)
CP185-2424P	45

How To Use

How To Mount

Mount on the unused grid of FLEX ZERO BASE by hex. key as a protective cover.









CAD Download : https://www.imao.com/en/



Quick Zero Setting Device



Quick Zero Setting Device

Ideal dual-contact coupling with a polygonal taper saves manufacturing costs and improves your productivity.



High Precision

High Rigidity Quick Change

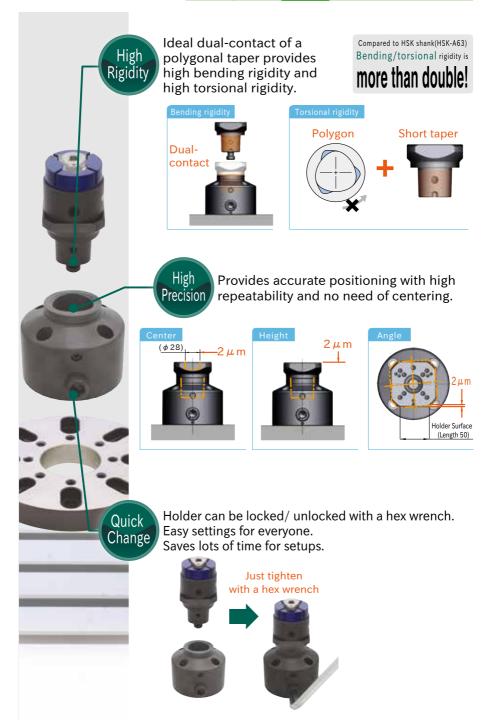
Usabilities

- Precise fixture changes for wide-variety low-volume productions
- Precise machinings that require intermediate measurements

Usable on

- •5-axis machine
- Vertical M/C
- CNC Rotary table







QZSD-C6-B

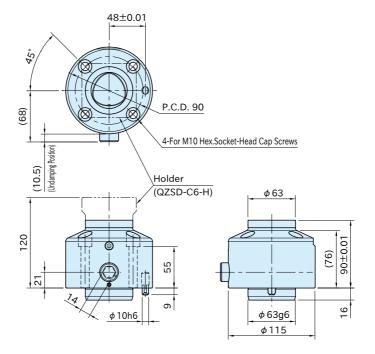
BASE (QUICK ZERO SETTING DEVICE)







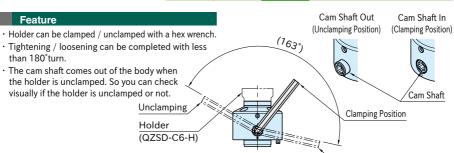
Body	Cam Shaft	
SCM420 steel	SCM435 steel	
Carburized-hardened	Quenched and tempered	
Black oxide finished	Black oxide finished	



Part Number	Clamping Force(kN)	Allowable Tightening Torque(N·m)	Weight (kg)
QZSD-C6-B	30	100	5.2

FIXTURE CHANGING SYSTEM





How To Use

■ How to Operate

1. Holder Mountings / Removals Turn the cam shaft to the unclamping position and then mount / remove the holder Note: See the notes below.



Workpiece

QZSD-C6-H

Holder

Cam Shaft



Hex Wrench

2.Start Clamping

The holder is clamped by tightening the cam shaft with a hex wrench. In accordance with tightening of the cam shaft, it comes in the body.

Stroke End

3. Fully Clamped!

- <Notes for Mountings/ Removals of Holder>

- · Ensure that the cam shaft is come out of the body.
- · Note to mount the holder by aligning its hole and dent to the cam shaft of the Dent base.

Turn the cam shaft to the

unclamping position. The cam

shaft comes out of the body.

Note: Turn the cam shaft fully until the

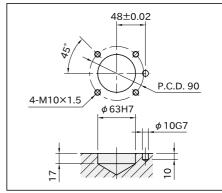
holder is uncoupled from the base.



Related Product

- QZSD-C6-H HOLDER (QUICK ZERO SETTING DEVICE)
- · QZSD-C6-P PLATE (QUICK ZERO SETTING DEVICE)

■ Mounting-Hole Dimension

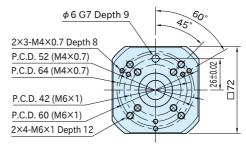


QZSD-C6-H

HOLDER (QUICK ZERO SETTING DEVICE)

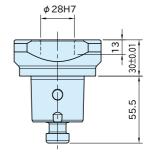
IMAO R⊕#S





Body	Clamping Screw
SCM420 steel	SCM435 steel
Carburized-hardened	Quenched and tempered
Black oxide finished	Black oxide finished

Part Number	Weight (kg)
QZSD-C6-H	1.3



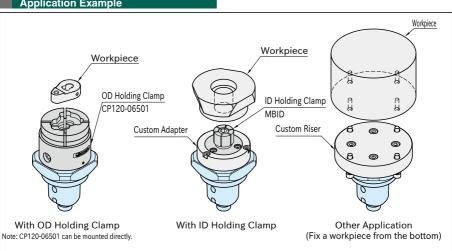
Feature

- · Tapped holes for mounting fixtures on the top face.
- · CP120-06501 OD HOLDING CLAMPS can be mounted directly.

Related Product

- · CP120 OD HOLDING CLAMP
- · MBID ID HOLDING CLAMP
- QZSD-C6-B BASE (QUICK ZERO SETTING DEVICE)
- QZSD-C6-P PLATE (QUICK ZERO SETTING DEVICE)

Application Example





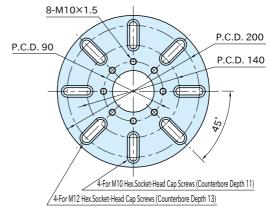
QZSD-C6-P

PLATE (QUICK ZERO SETTING DEVICE)

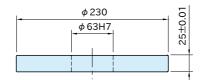
On Request R⊕₩S







Part Number	Weight (kg)
QZSD-C6-P	6.3



Feature

Body

Black oxide finished Precision ground

S45C steel

- · For mounting the device on machine tables with T-Slots.
- · Mouning holes are M10 and M12 sizes.
- · Custom plates are available on request.

Related Product

- · QZSD-C6-B BASE (QUICK ZERO SETTING DEVICE)
- · QZSD-C6-H HOLDER (QUICK ZERO SETTING DEVICE)

✓ Note

This plate is a non-stock item.

