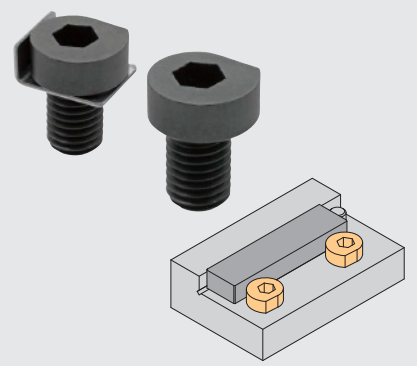
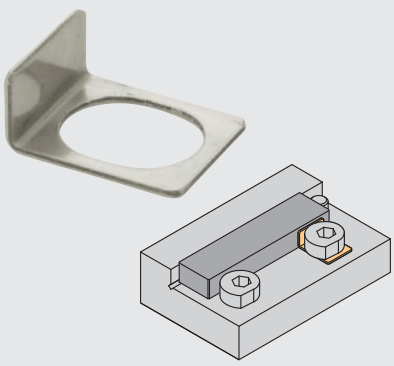
IMAO® fixtureworks®

Side Clamps



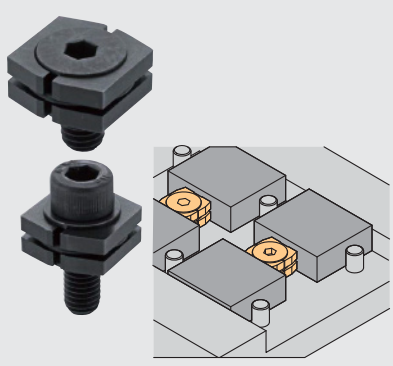
SPIRAL CAM CLAMPS

Part No. CP135



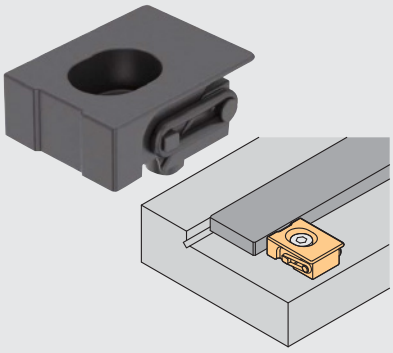
CLAMPING PLATES

Part No. CP135-P



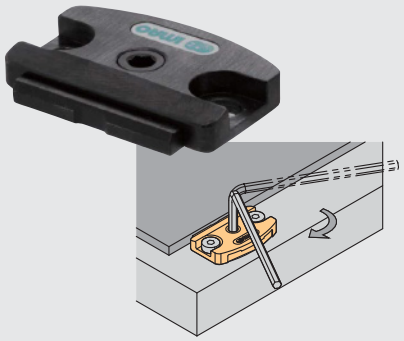
COMPACT WEDGE CLAMPS

Part No. CP132



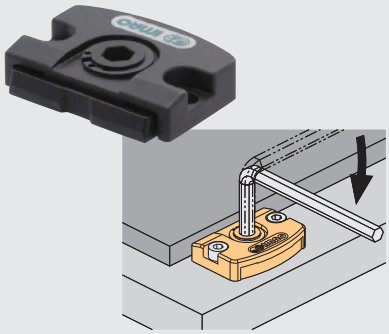
COMPACT SIDE CLAMPS

Part No. CP134



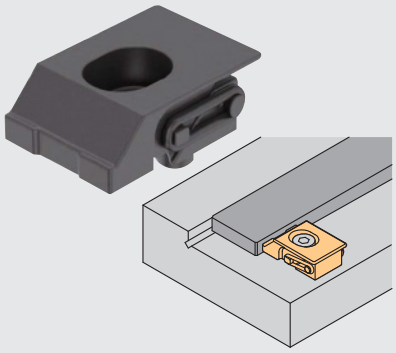
COMPACT LOW-PROFILE CAM EDGE CLAMPS

Part No. QLSCL



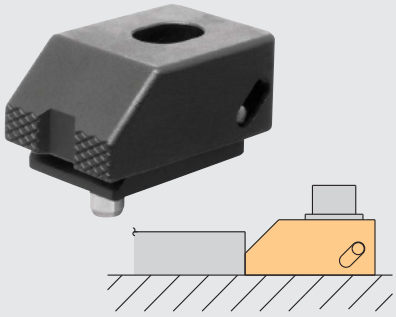
LOW-PROFILE CAM EDGE CLAMPS

Part No. QLSCL-NR



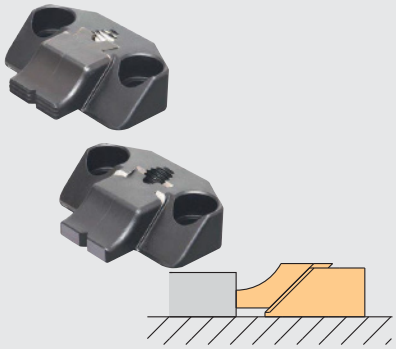
COMPACT TOE CLAMPS

Part No. CP133



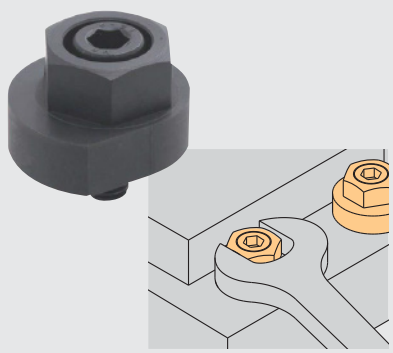
TOE CLAMPS

Part No. CP106



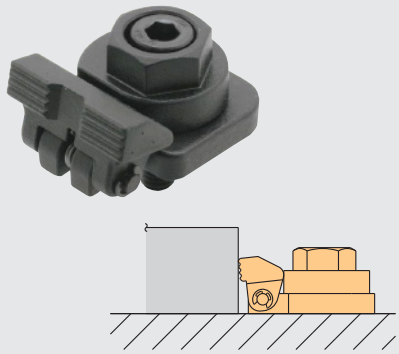
TOE CLAMPS

Part No. CP104



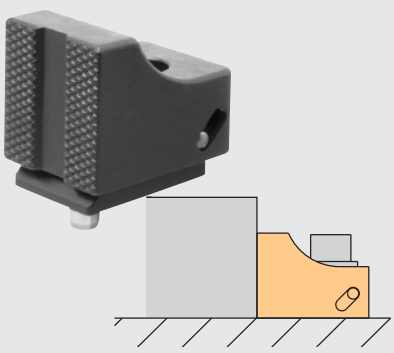
CAM CLAMPS

Part No. BJ161



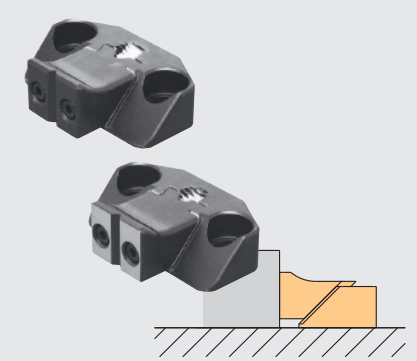
CAM EDGE CLAMPS

Part No. BJ162



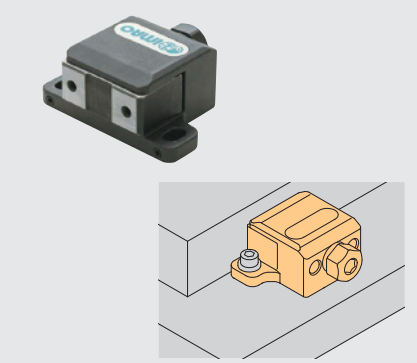
SIDE CLAMPS

Part No. CP107



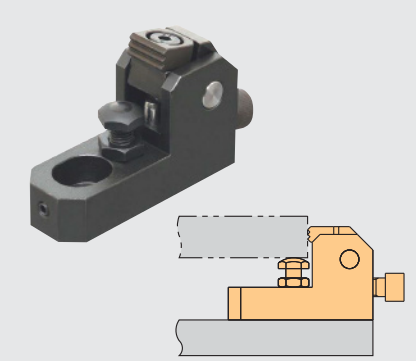
SIDE CLAMPS

Part No. CP105



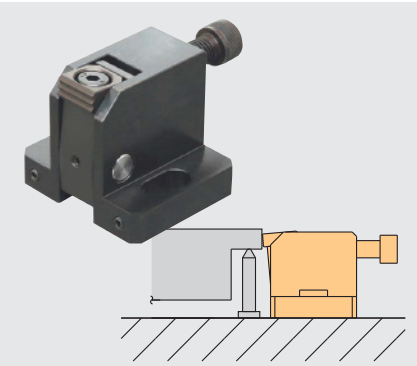
SIDE CLAMPS

Part No. QLSCH-H



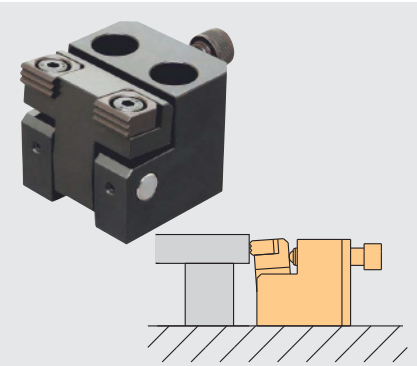
SIDE CLAMPS

Part No. CP100



SIDE CLAMPS

Part No. CP101



WIDE-JAW SIDE CLAMPS

Part No. CP102

CP135 SPIRAL CAM CLAMPS

RoHS

IMAO

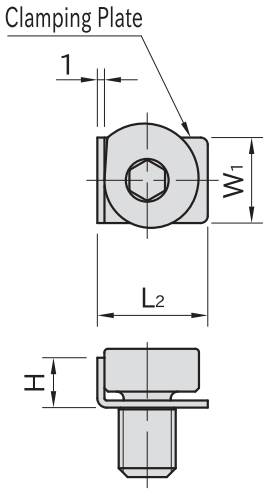
CP135-A

CP135

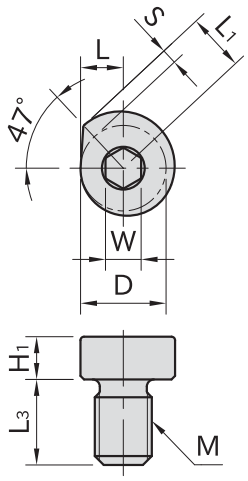
★Key Point

Space saving.
Long clamping stroke.

Spiral Cam Clamp	Clamping Plate
SCM440 steel Black oxide finished HRC33-39	SUS304CSP stainless steel



CP135-A
(With Clamping Plate)



CP135
(Without Clamping Plate)

Part Number	S	L	L_1	D	M	H_1	L_3	W	Allowable Screw Torque (N·m)	Clamping Force (kN)
CP135-06001	1.8	5	6.8	10	M 6×1	5	9	4	7.4	2.2
CP135-08001	2.2	6	8.2	12	M 8×1.25	6	12	5	18	4.7
CP135-10001	2.5	7	9.5	14	M10×1.5	7	15	6	35	7.9
CP135-12001	2.9	8	10.9	16	M12×1.75	8	18	8	60	14

CP135-A (With Clamping Plate)

Part Number	H	W_1	L_2	Clamping Plate	Weight (g)
CP135-06001A	6	10	13	CP135-06001P	7
CP135-08001A	7	12	15.5	CP135-08001P	13
CP135-10001A	8	14	18	CP135-10001P	21
CP135-12001A	9	16	20	CP135-12001P	33

CP135 (Without Clamping Plate)

Part Number	Weight (g)
CP135-06001	6
CP135-08001	11
CP135-10001	19
CP135-12001	30

CP135-L SPIRAL CAM CLAMPS

One-Touch type is available.

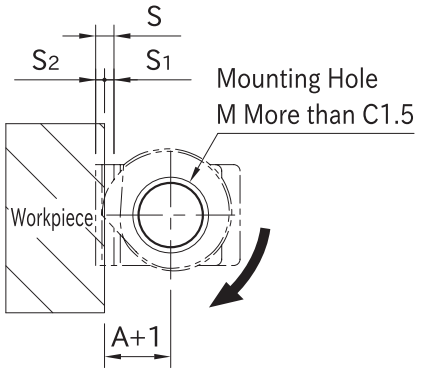
Feature

- The spiral cam provides quick and powerful clamping.
- The simple design keeps cost low and the small size allows more workpieces per load.
- Clamping Plate avoids marring workpiece surfaces.

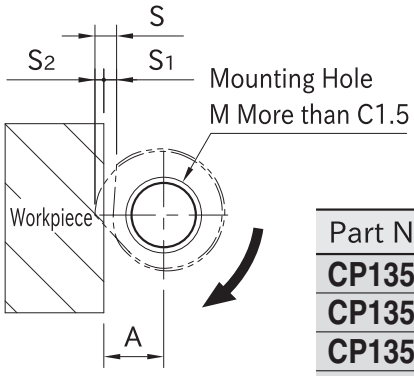
How To Use

■Mounting Hole Dimension

With Clamping Plate



Without Clamping Plate

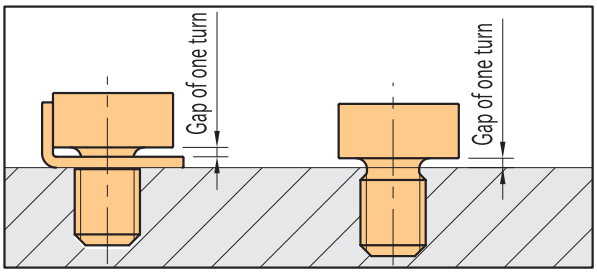


Note: Dimension A and A+1 are the recommended distances between the mounting hole and the end of the workpiece.

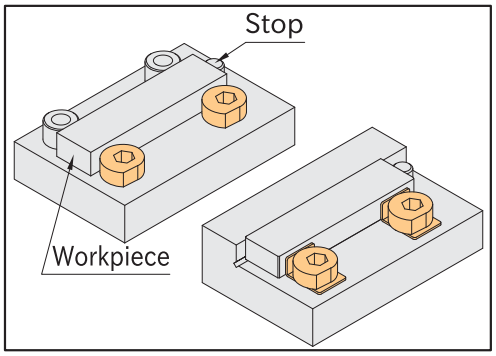
Part Number	A	S	S_1	S_2	M
CP135-06001	5.9	1.8	0.9	0.9	M 6X1
CP135-08001	7.1	2.2	1.1	1.1	M 8X1.25
CP135-10001	8.3	2.5	1.3	1.2	M10X1.5
CP135-12001	9.5	2.9	1.5	1.4	M12X1.75

Note

Tighten Spiral Cam Clamp fully and loosen it about one turn. Then mount a workpiece.



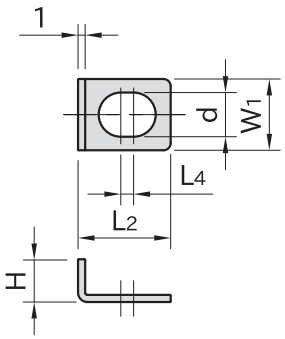
- Tighten clockwise to clamp the workpiece.
- Mount a stop on the right side of the workpiece.



CP135-P CLAMPING PLATES

RoHS Stainless Steel

IMAO



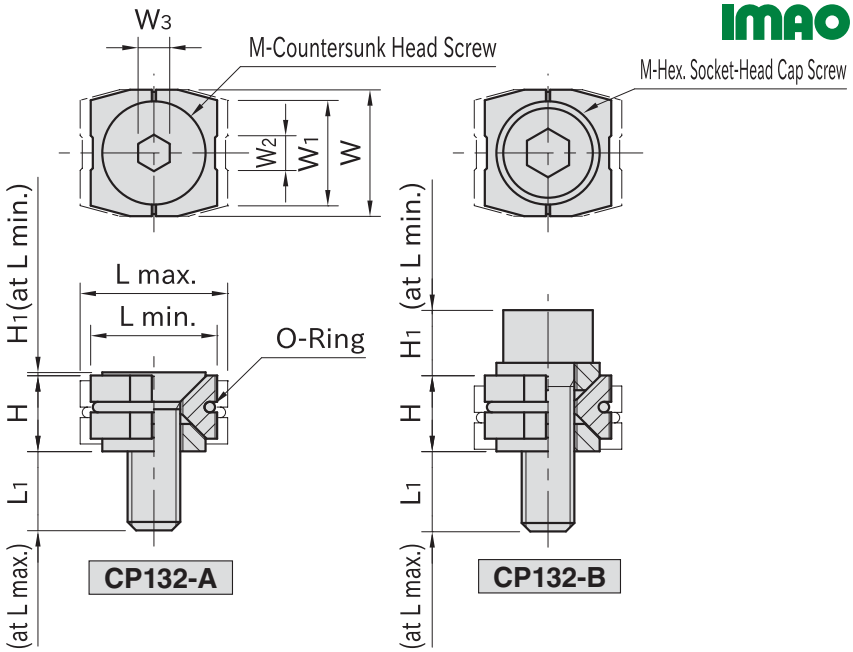
Part Number	H	W_1	L_2	d	L_4	Weight (g)
CP135-06001P	6	10	13	6.2	1.8	1
CP135-08001P	7	12	15.5	8.2	2.2	2
CP135-10001P	8	14	18	10.2	2.6	
CP135-12001P	9	16	20	12.2	2.9	3

Clamping Plate
SUS304CSP stainless steel

CP132 COMPACT WEDGE CLAMPS

CP132-A

CP132-B



Jaw	Washer	O-Ring
SNCM439 steel Black oxide finished HRC33-39	SCM435 steel Black oxide finished	Fluoro rubber

★Key Point

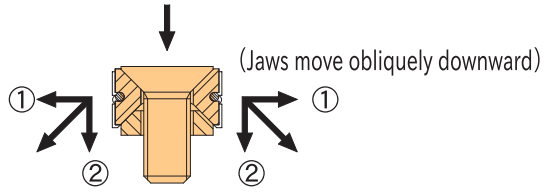
Can clamp 2 workpieces in small space.

Part Number	L		W	H		W_1	W_2	H_1	M	L_1	W_3
	min.	max.		L min.	L max.						
CP132-05001A	12	14	12	7.2	6.2	10	3.3	0.3	M5×0.8 -15L	9.5	3
CP132-06001A	15	17	14.8	8.5	7.5	12	4	0.2	M6×1 -16L	9.3	4
CP132-08001A	18.5	21.5	18.4	11.4	9.9	16	5.3	0.4	M8×1.25-20L	11.3	5
CP132-05001B	12	14	12	7.2	6.2	10	3.3	6.2	M5×0.8 -16L	9.6	4
CP132-06001B	15	17	14.8	8.5	7.5	12	4	7.3	M6×1 -18L	10.2	5
CP132-08001B	18.5	21.5	18.4	11.4	9.9	16	5.3	9.8	M8×1.25-25L	14.9	6

Part Number	Clamping Force (kN)	Allowable Screw Torque (N·m)	Weight (g)	Proper O-ring
CP132-05001A	2	4.3	8	SS080(CS1 / ID 8)
CP132-06001A	3.5	7.3	13	S 12 (CS1.5 / ID11.5)
CP132-08001A	5	18	27	S 14 (CS1.5 / ID13.5)
CP132-05001B	3	5.4	9	SS080(CS1 / ID 8)
CP132-06001B	4.5	9.1	17	S 12 (CS1.5 / ID11.5)
CP132-08001B	9	22	30	S 14 (CS1.5 / ID13.5)

Feature

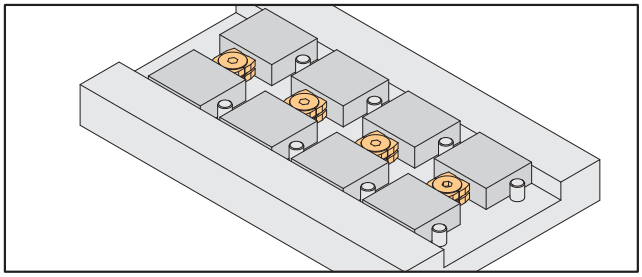
- The wedge construction allows powerfully clamping the workpiece.
- Can hold two workpieces with equilateral clamping action by using a hex wrench.



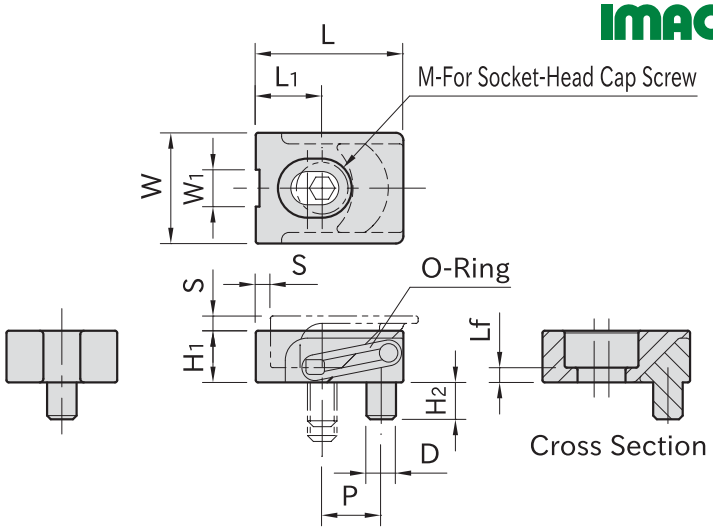
①Horizontal pressure against workpiece
②Vertical pressure preventing workpiece lift

How To Use

Compact design allows to utilize machining area and clamp multiple workpieces.



CP134 COMPACT SIDE CLAMPS

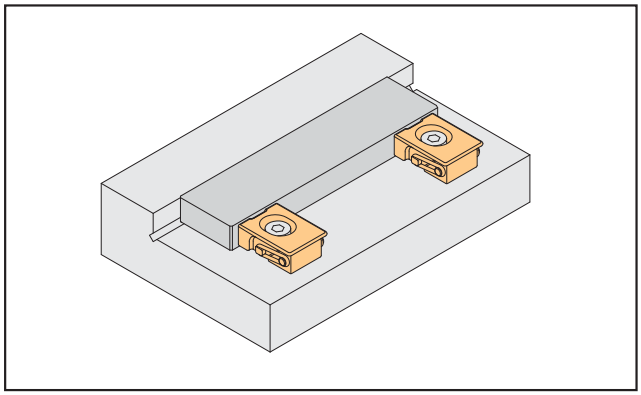


Body	O-Ring
SCM440 steel Black oxide finished HRC33-39	Fluoro rubber

Part Number	S	W	W1	H1	L1	P	D	H2	M	Lf	L
CP134-04007	2	15	5	7	9	8	4	5	M4	2	20
CP134-05009	2.5	19	7	9	11	10	5	6	M5	3	25

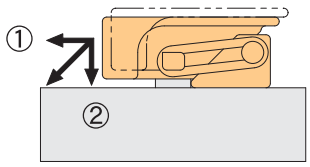
Part Number	Clamping Force (kN)	Allowable Screw Torque (N·m)	Weight (g)	Proper O-ring
CP134-04007	2.5	2.7	13	SS060(CS1 / ID6)
CP134-05009	3.5	5.4	26	S 8 (CS1.5 / ID7.5)

How To Use



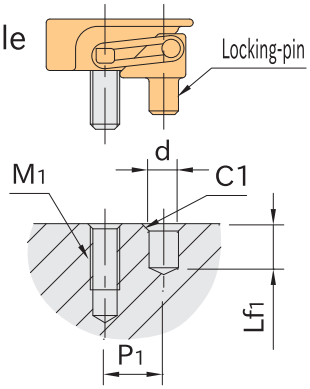
Feature

(Jaw moves obliquely downward)



①Horizontal pressure against workpiece
②Vertical pressure preventing workpiece lift

■Mounting-Hole Dimension

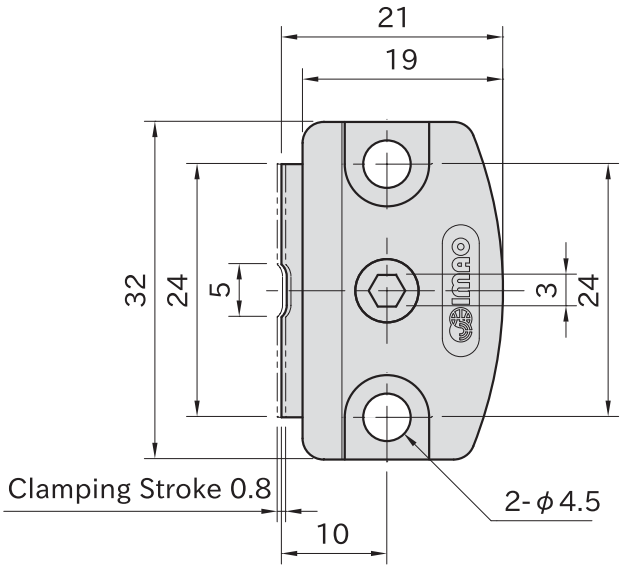


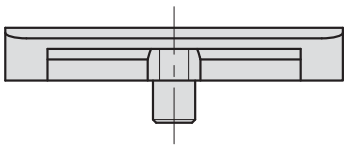
Drill a tapped hole and a locking-pin hole as specified below.

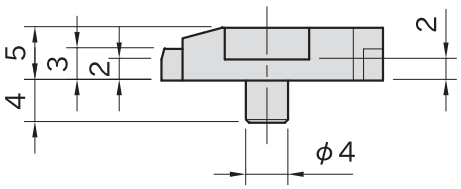
Part Number	M1	d (+0.3 0)	Lf1	P1
CP134-04007	M4	4	6	8
CP134-05009	M5	5	7	10

QLSCL COMPACT LOW-PROFILE CAM EDGE CLAMPS

Body	Jaw / Cam
S45C steel Black oxide finished	SCM440 steel Black oxide finished HRC39-45







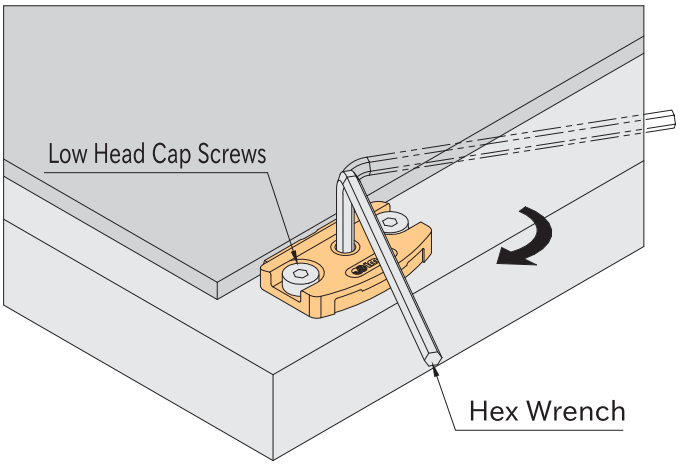
Part Number	Allowable Screw Torque (N·m)	Clamping Force (kN)	Weight (g)
QLSCL05NR	2.1	1.3	18

Feature

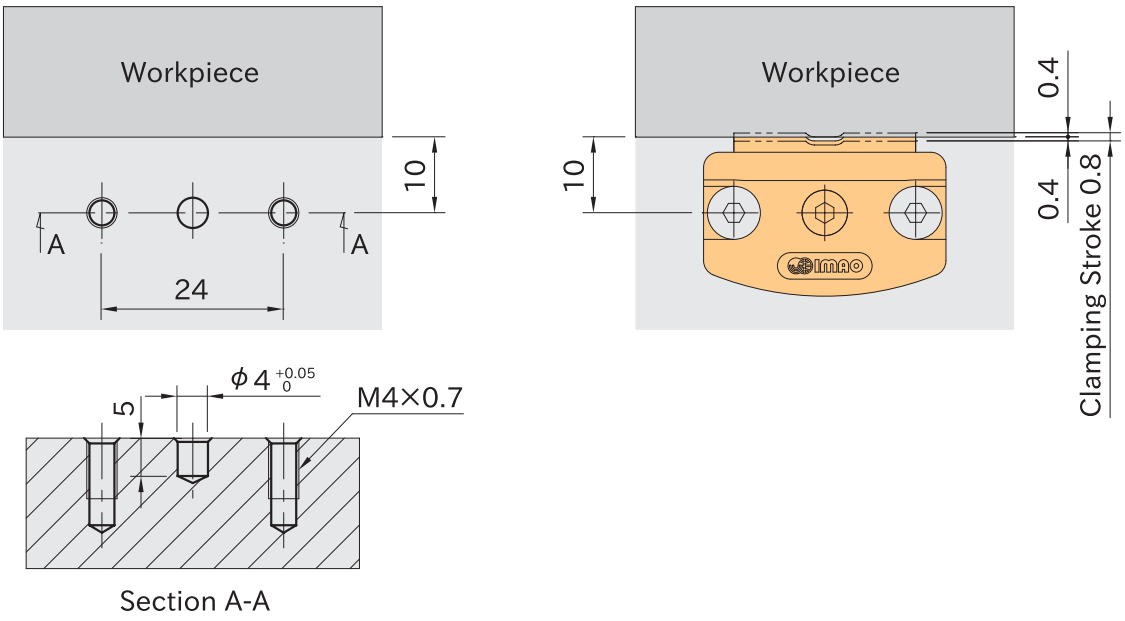
Designed to prevent part lift.

How To Use

- Low head cap screws do not project from the body.
- Turning the cam with a hex wrench allows the cam to project the jaw for clamping. When the cam is turned back for unclamping, the loaded spring lets the jaw return to the original position.



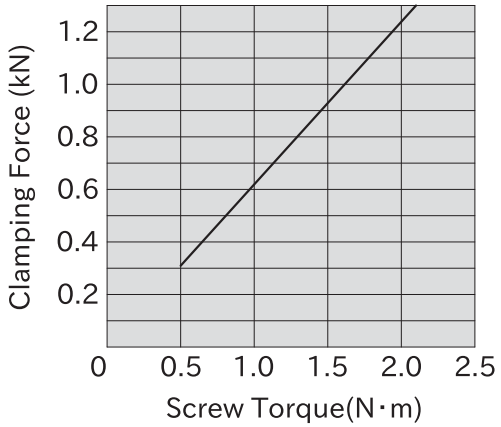
■Mounting-Hole Dimension



Note

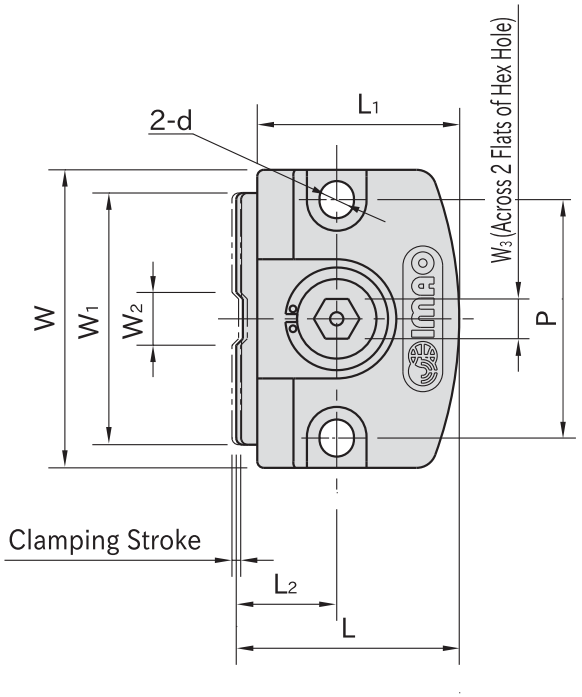
Ensure that mounting surfaces are finished to 6.3 (6.3a) or better, without any scratches or dents.

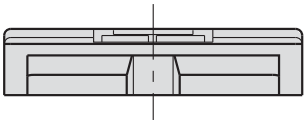
Performance Curve

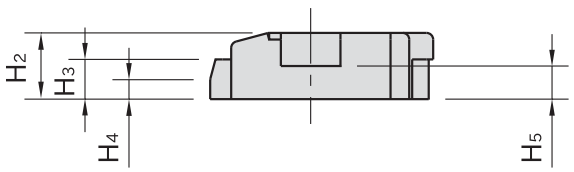


QLSCL-NR LOW-PROFILE CAM EDGE CLAMPS

Body	Jaw / Cam
S45C steel Black oxide finish	SCM440 steel Quenched and tempered Black oxide finish







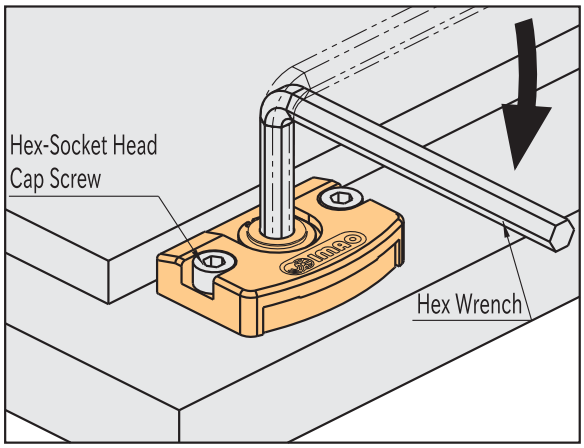
Part Number	Clamping Stroke	W1	W2	H3	H4	L2	W	L	H2	d	P	H5	L1	Clamping Mechanism
QLSCL10NR	1	38	8	6	3	15	45	33.5	10	5.2	36	5	30.5	Spiral Cam
QLSCL15NR	2	60	12	9	5	22	70	50	15	8.2	55	7	46	Cam Angle : 4°

Part Number	W3	Allowable Screw Torque (N·m)	Clamping Force (kN)	Weight (g)
QLSCL10NR	6	10	4	85
QLSCL15NR	10	27	6	290

Feature

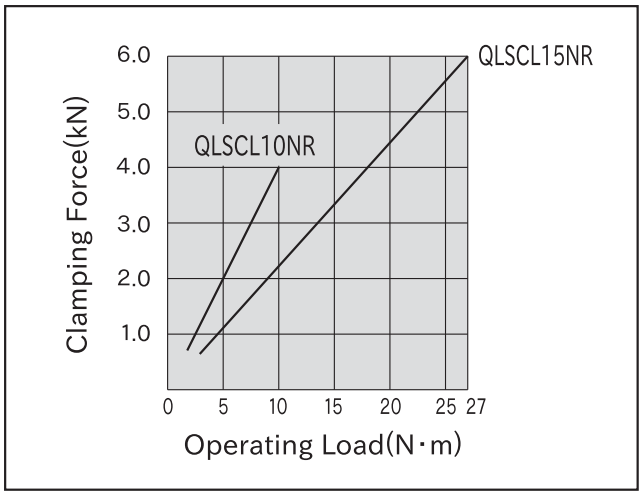
Designed to prevent part lift.

How To Use



Turning the wrench allows the cam to project the jaw for clamping.
When the wrench is turned back for unclamping, the loaded spring lets the jaw return to the original position.

Performance Curve



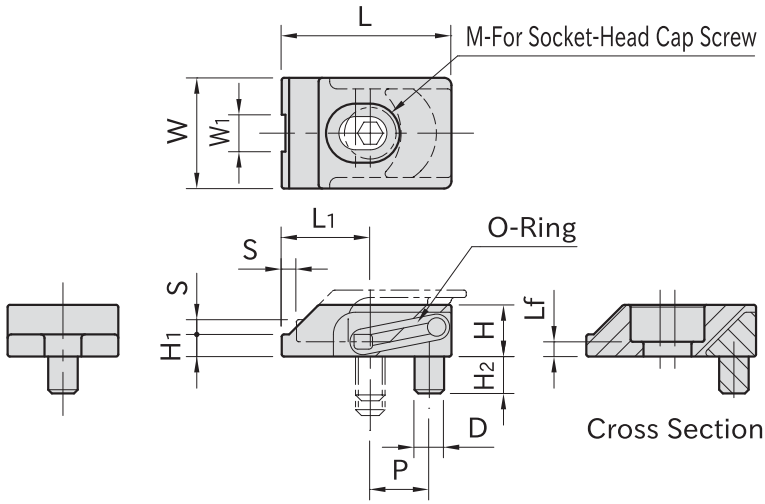
Note

Ensure that mounting surfaces are finished to $\overset{6.3}{\nabla}$(6.3a) or better, without any scratches or dents.

QLSCL-R	LOW-PROFILE CAM EDGE CLAMPS

One-Touch type is available.

CP133 COMPACT TOE CLAMPS

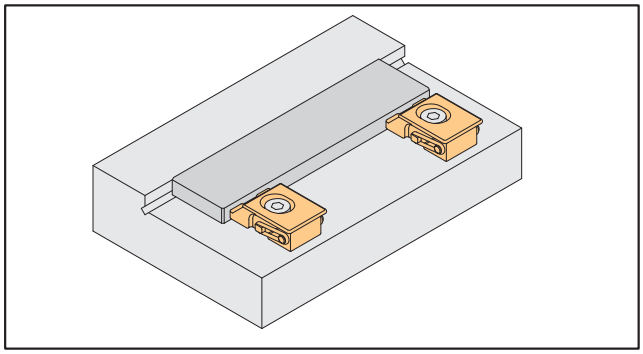


Body	O-Ring
SCM440 steel Black oxide finished HRC33-39	Fluoro rubber

Part Number	S	W	W1	H1	L1	P	D	H2	M	Lf	L	H
CP133-04007	2	15	5	3	12	8	4	5	M4	2	23	7
CP133-05009	2.5	19	7	4	14	10	5	6	M5	3	28	9

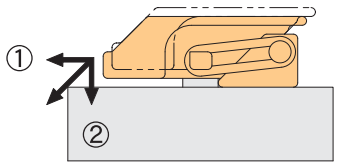
Part Number	Clamping Force (kN)	Allowable Screw Torque (N·m)	Weight (g)	Proper O-ring
CP133-04007	2	2.7	13	SS060(CS1 / ID6)
CP133-05009	3	5.4	27	S 8 (CS1.5 / ID7.5)

How To Use



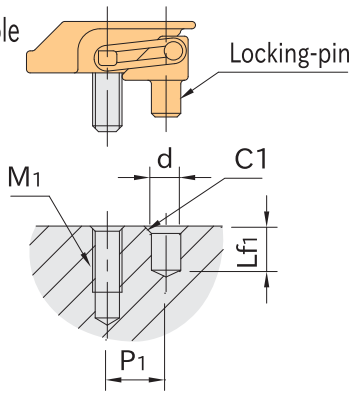
Feature

(Jaw moves obliquely downward)



①Horizontal pressure against workpiece
②Vertical pressure preventing workpiece lift

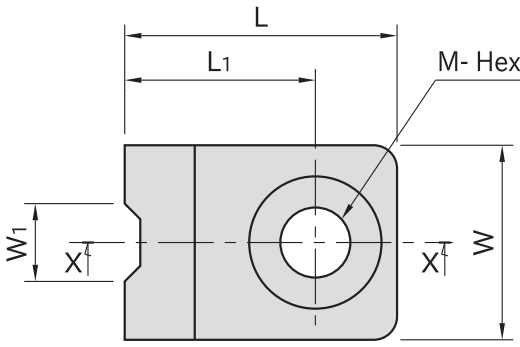
■Mounting-Hole Dimension



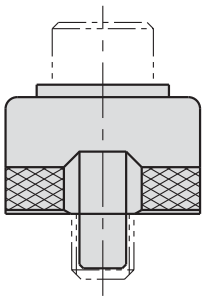
Drill a tapped hole and a locking-pin hole as specified below.

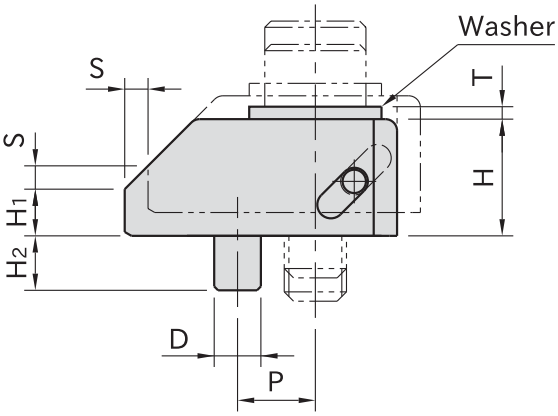
Part Number	M1	d (+0.3 0)	Lf1	P1
CP133-04007	M4	4	6	8
CP133-05009	M5	5	7	10

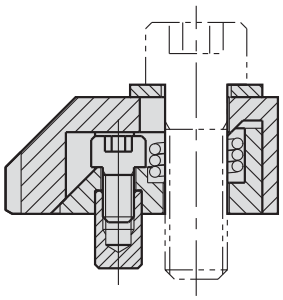
CP106 TOE CLAMPS



Body
S45C steel Quenched and tempered Black oxide finish





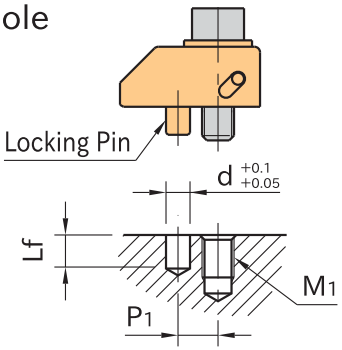


Section X-X

Part Number	S	W	W1	H1	L1	P	D (h7)	H2	M	L	H	T	Clamping Force(kN)	Allowable Screw Torque(N·m)	Weight (g)
CP106-08015	3	25	10	6	24.5	10	6	7	M 8	35	15	1.6	5.6	20	100
CP106-10019	4	30	11	8	29	12			M10	43	19	2	6.8	40	185
CP106-12023	5	35	12	9	37	16	8	10	M12	54	23	2.3	16	70	320
CP106-16025	6	40	14	10	45	20	10		M16	65	25	3.2	22	110	520

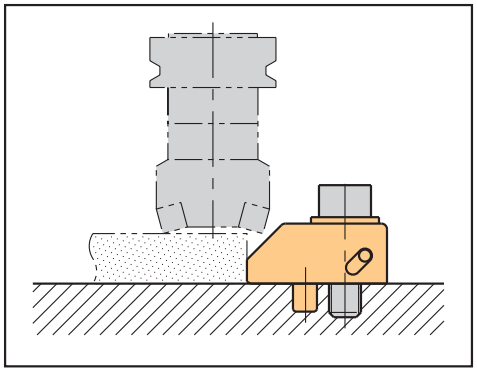
How To Use

■Mounting-Hole Dimension



Part Number	M1	d	Lf	P1
CP106-08015	M 8	6	8	10
CP106-10019	M10			12
CP106-12023	M12	8	11	16
CP106-16025	M16	10		20

Drill a tapped hole and a pin hole as specified on the above.



Supplied With

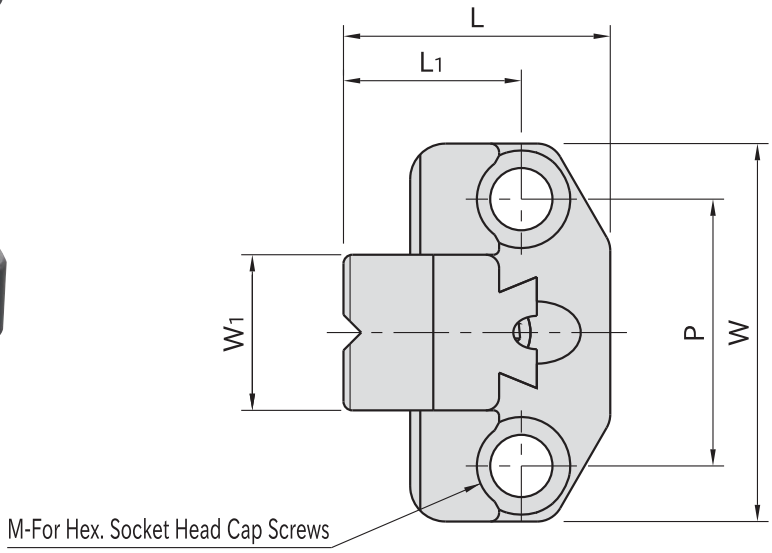
One flat washer

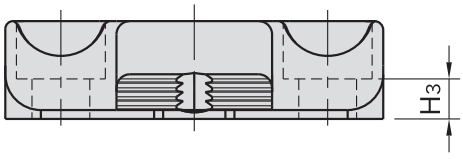
CP104 TOE CLAMPS

Body	Sliding Nose
SCM440 steel Quenched and tempered Black oxide finish	SCM440 steel Induction hardened (clamping face) Black oxide finish Precision ground (smooth nose)

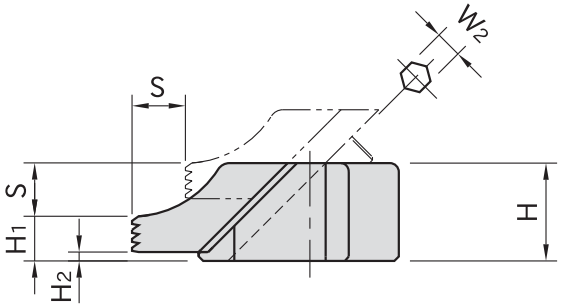
Serrated Nose

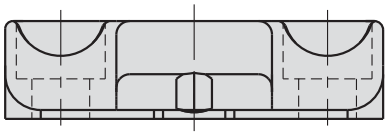
Smooth Nose

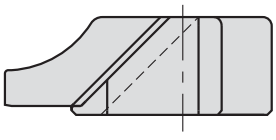




Serrated Nose







Smooth Nose

Nose	Part Number	S	W1	H1	H2	L1	W	L	M	H3	P	H	W2	Clamping Force(kN)	Allowable Screw Torque(N·m)	Weight (g)
Serrated	**CP104-08016**	7	25	7.5	1.5	25	65	39.5	M 8	7	45	16	4	4	8	160
	CP104-12022	12	35	10	2	40	85	60	M12	9	60	22	6	9	26	450
	CP104-16030	14	40	14		50	100	77	M16	13	70	30	8	17	60	900
Smooth	**CP104-08116**	7	25	7.5	1.5	25	65	39.5	M 8	7	45	16	4	4	8	160
	CP104-12122	12	35	10	2	40	85	60	M12	9	60	22	6	9	26	450
	CP104-16130	14	40	14		50	100	77	M16	13	70	30	8	17	60	900

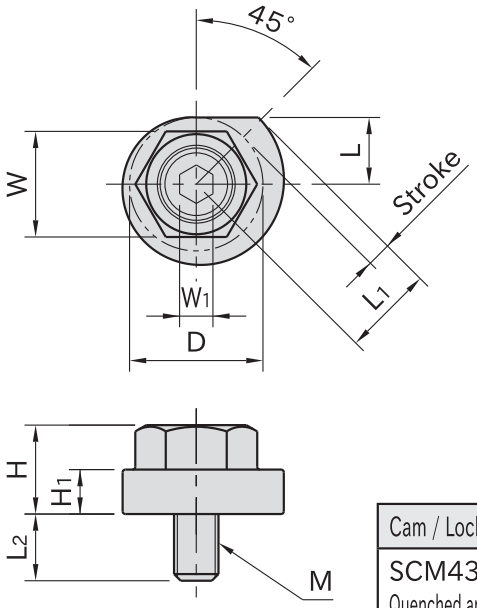
Related Product

BJ101-02 Clamping Screws

BJ161 CAM CLAMPS

RoHS

IMAO



Cam / Locking Screw	Flanged Collar
SCM435 steel Quenched and tempered Black oxide finish	SK95 steel Quenched and tempered Black oxide finish

Part Number	Stroke	L	L_1	D	H_1	M	L_2	H	W	W_1
BJ161-08001	4.4	12	16.4	24	8	M 8×1.25	12	16	19	6
BJ161-10001	5.5	15	20.5	30	10	M10×1.5	15	20	24	8
BJ161-12001	6.2	17	23.2	34	12	M12×1.75	18	24	27	10

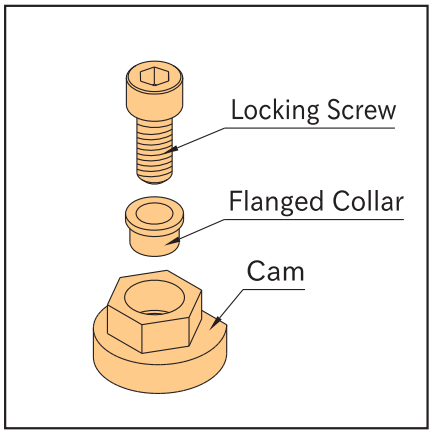
Part Number	Allowable Screw Torque (N·m)	Clamping Force (kN)	Weight (g)
BJ161-08001	50	5.2	55
BJ161-10001	75	8	110
BJ161-12001	90	9.3	185

Feature

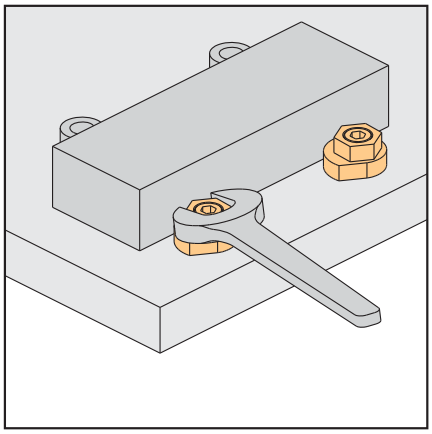
- Allows loading and unloading a part faster.
- Compact design

How To Use

To install, lock the flanged collar into the cam using the locking screw and then tighten up the cam with a wrench.



Parts Breakdown



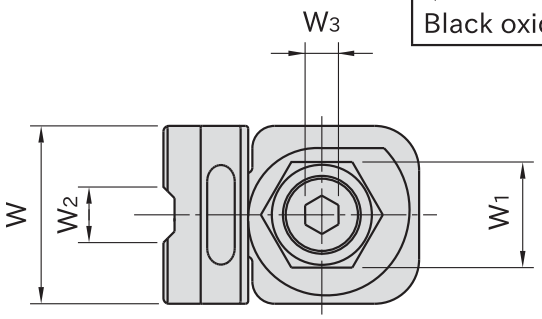
Provides positive clamping

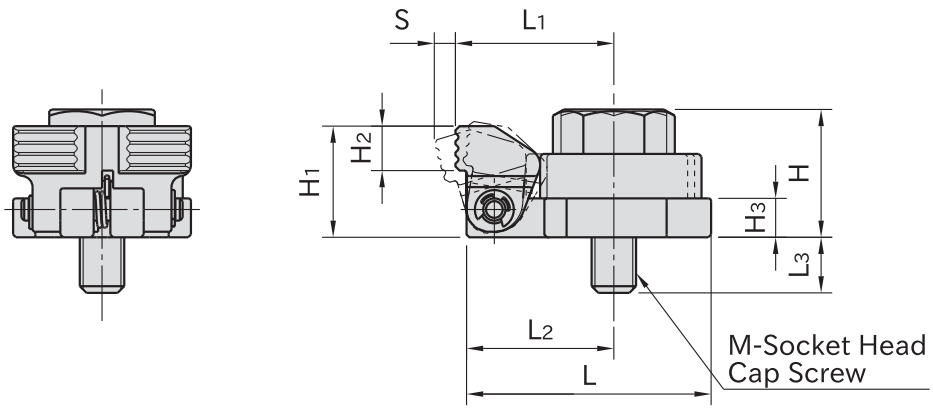
BJ162 CAM EDGE CLAMPS

RoHS

IMAO

Body / Jaw	Cam
SCM440 steel Quenched and tempered Black oxide	SCM435 steel Quenched and tempered Black oxide



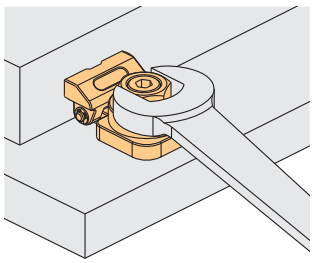


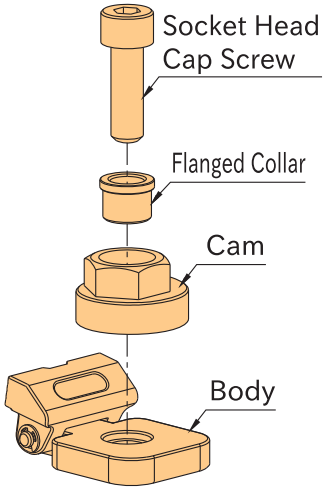
Part Number	H1	S	W	W2	H2	L1	L	L2	H3	M	L3	H	W1
BJ162-08001	20	4	32	10	8	28.5	44	26.5	7	M 8×1.25-30L	15	23	19
BJ162-10001	25	5	40	12	10	35	54	33	9	M10×1.5 -35L	16	29	24
BJ162-12001	30	5.5	46	14	12	39.5	62	37.5	11	M12×1.75-40L	17	35	27

Part Number	W3	Clamping Force (kN)	Allowable Screw Torque (N·m)	Weight (g)
BJ162-08001	6	3.5	45	160
BJ162-10001	8	5.5	55	310
BJ162-12001	10	7	70	490

How To Use

Secure the body and the flanged collar with a socket head cap screw, and then turn the the cam with a wrench to clamp a workpiece.

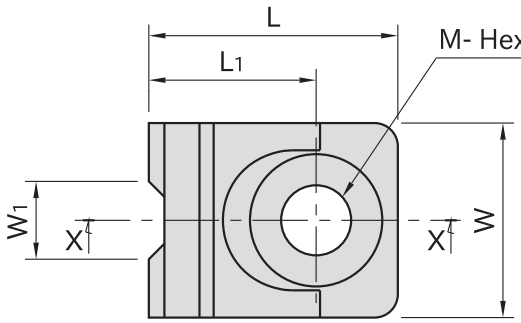




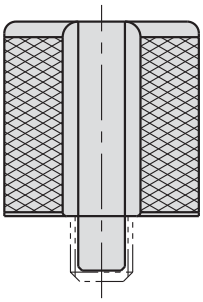
Related Product

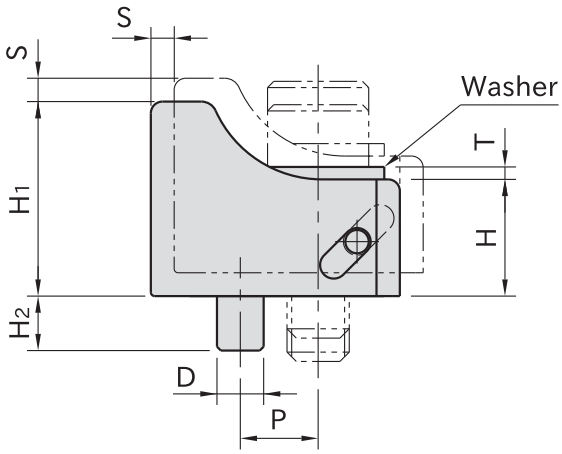
One-Touch type is available.
QLSC CAM EDGE CLAMPS

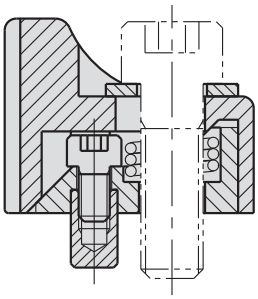
CP107 SIDE CLAMPS



Body
S45C steel Quenched and tempered Black oxide finish





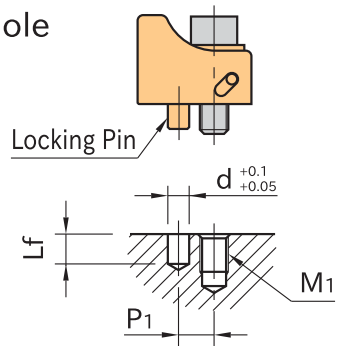


Section X-X

Part Number	S	W	W1	H1	L1	P	D (h7)	H2	M	L	H	T	Clamping Force(kN)	Allowable Screw Torque(N·m)	Weight (g)
CP107-08015	3	25	10	25	21.5	10	6	7	M 8	32	15	1.6	5.6	20	115
CP107-10019	4	30	11	32	26	12			M10	40	19	2	6.8	40	225
CP107-12023	5	35	12	38	33	16	8	10	M12	50	23	2.3	16	70	390
CP107-16025	6	40	14	45	40	20	10		M16	60	25	3.2	22	110	640

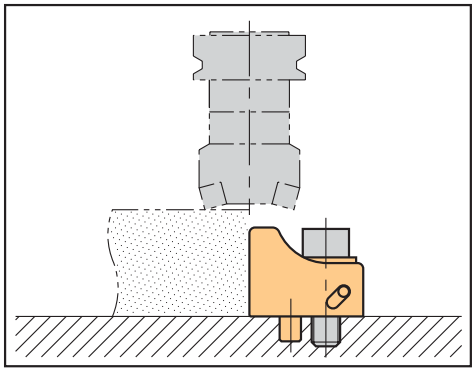
How To Use

■Mounting-Hole Dimension



Part Number	M1	d	Lf	P1
CP107-08015	M 8	6	8	10
CP107-10019	M10			12
CP107-12023	M12	8	11	16
CP107-16025	M16	10		20

Drill a tapped hole and a pin hole as specified on the above.



Supplied With

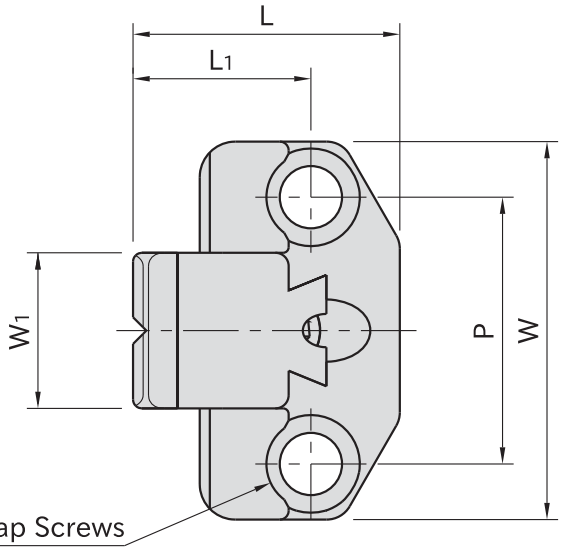
One flat washer

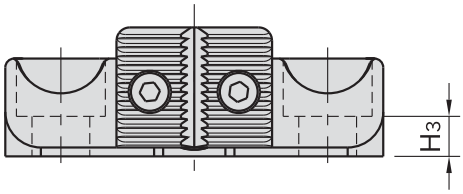
CP105 SIDE CLAMPS

Body/Sliding Nose	Jaw
SCM440 steel Quenched and tempered Black oxide finish	SCM440 steel Quenched and tempered Black oxide finish Precision ground (smooth nose)

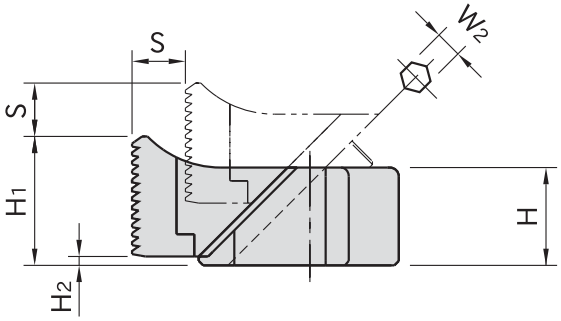
Serrated Nose

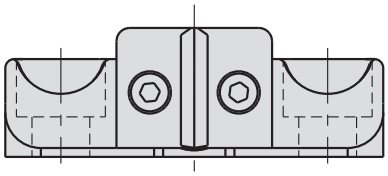
Smooth Nose



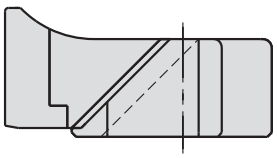


Serrated Jaw





Smooth Jaw



Nose	Part Number	S	W1	H1	H2	L1	W	L	M	H3	P	H	W2	Clamping Force(kN)	Allowable Screw Torque(N·m)	Weight (g)
Serrated	**CP105-08016**	7	25	19.5	1.5	25	65	39.5	M 8	7	45	16	4	4	8	180
	CP105-12022	12	35	29	2	40	85	60	M12	9	60	22	6	9	26	500
	CP105-16030	14	40	38		50	100	77	M16	13	70	30	8	17	60	1010
Smooth	**CP105-08116**	7	25	19.5	1.5	25	65	39.5	M 8	7	45	16	4	4	8	180
	CP105-12122	12	35	29	2	40	85	60	M12	9	60	22	6	9	26	510
	CP105-16130	14	40	38		50	100	77	M16	13	70	30	8	17	60	1020

Related Product

BJ101-02 Clamping Screws

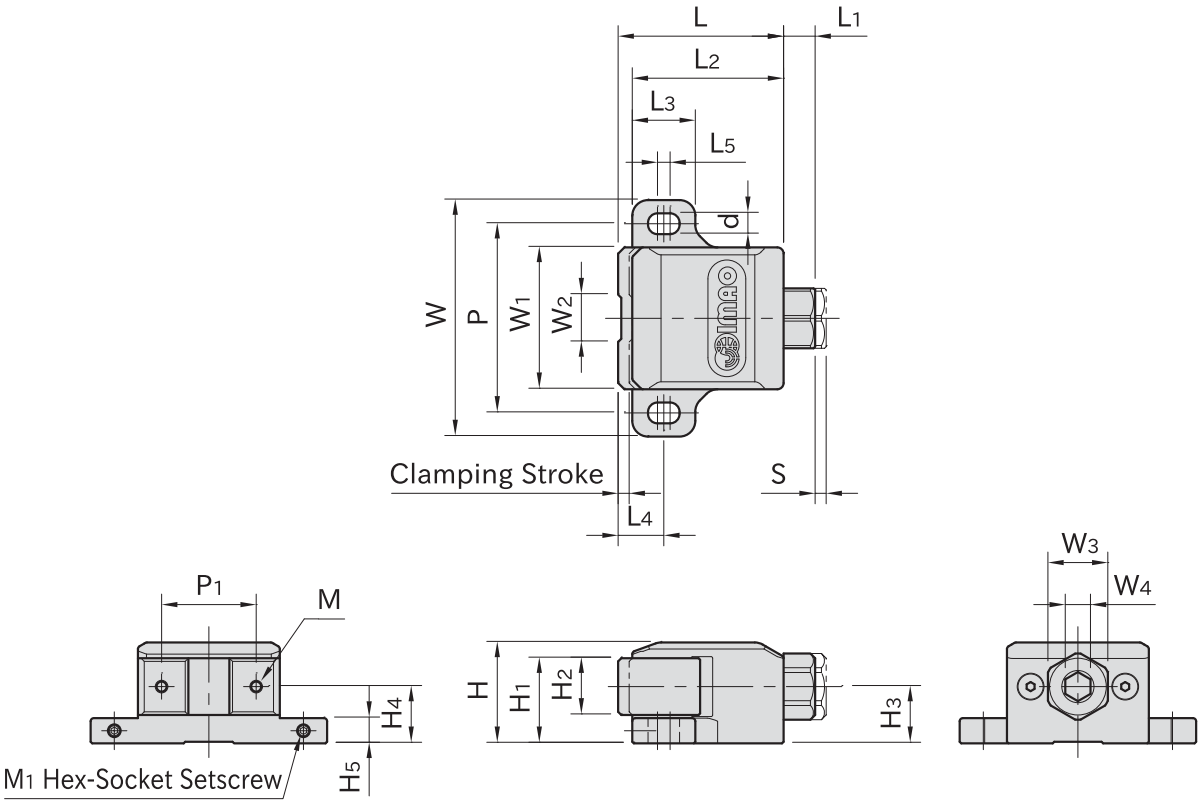
IMAO® fixtureworks®

QLSCH-H SIDE CLAMPS

★Key Point

Compact free vise that prevents lifting up of the part.

Body	Jaw	Shaft	Screw
S45C steel Black oxide finished	S45C steel Quenched & tempered Black oxide finished Precision ground	SCM440 steel Black oxide finished	SCM435 steel Quenched & tempered Black oxide finished

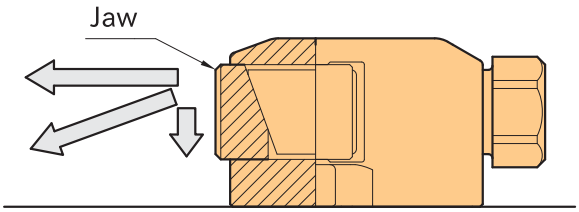


Part Number	Clamping Stroke	W1	W2	H1	H2	M	P1	H4	L4	W	L3	H5	d	L5
QLSCH32H	3	45	15	27	18	M4×0.7 Depth 6	30	18	14	75	20	8	6.6	3
QLSCH40H	4	60	20	33	22	M5×0.8 Depth 8	40	22	19	100	26	10	8.6	4

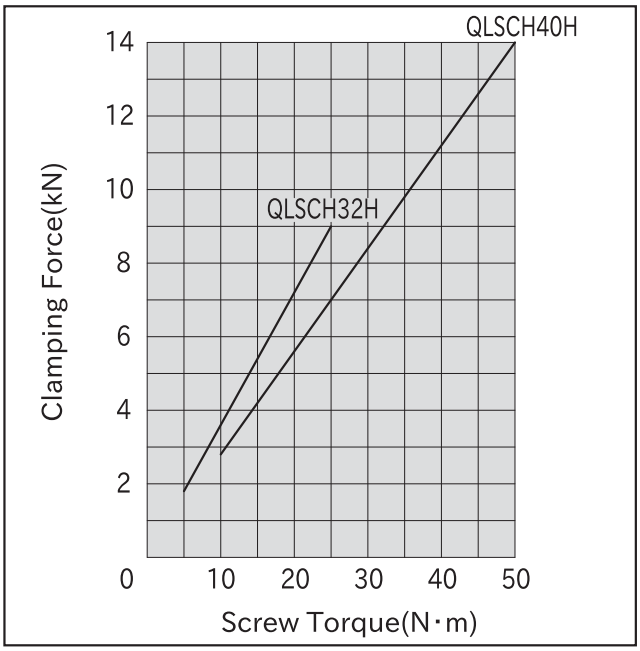
Part Number	P	H	L	L2	L1	H3	S	W3	W4	M1	Allowable Screw Torque(N·m)	Clamping Force(kN)	Weight (g)
QLSCH32H	60	32	52	48	10	18	3	19	8	M4×0.7-6L	25	9	560
QLSCH40H	80	40	69	63	13	22	4	24	10	M5×0.8-8L	50	14	1240

Feature

- A screw type clamping mechanism provides long clamping stroke and firm clamping.
- Precision-ground jaw is perfect for clamping the workpiece on its finished surface.
- In clamping, the jaw provides downward force to prevent part lift.

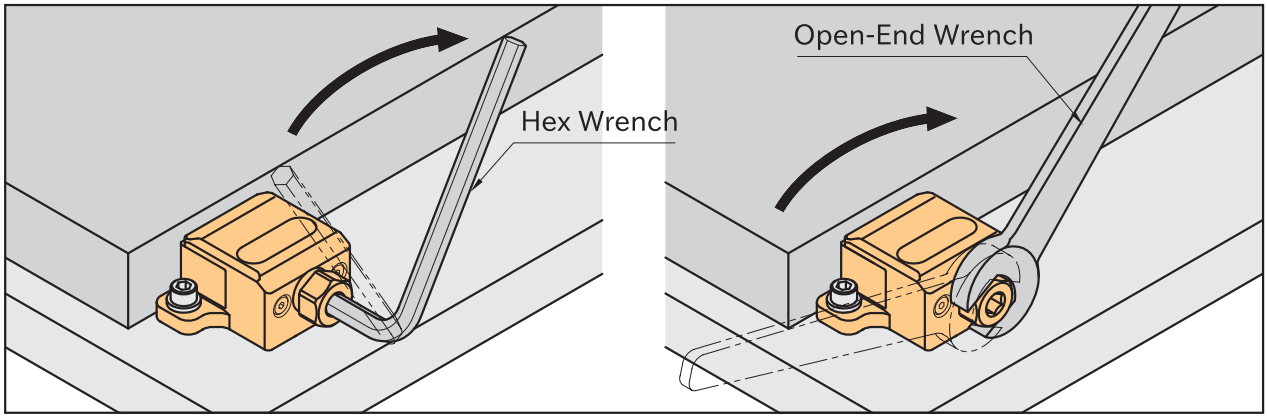


Performance Curve

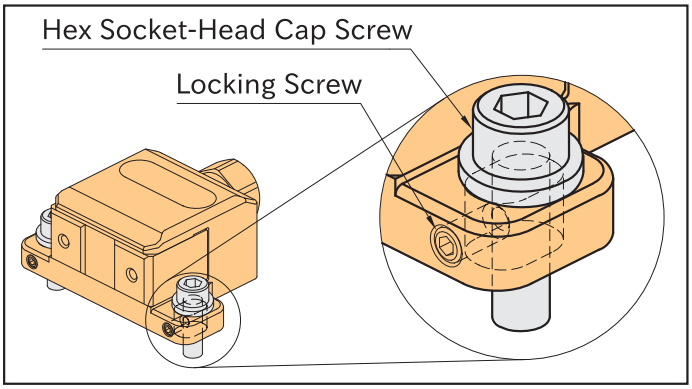


How To Use

- Can be clamped with both of hex wrench and open-end wrench.



- The locking screw must be screwed onto the hex socket-head cap screw to prevent the body sliding backwards when clamping.

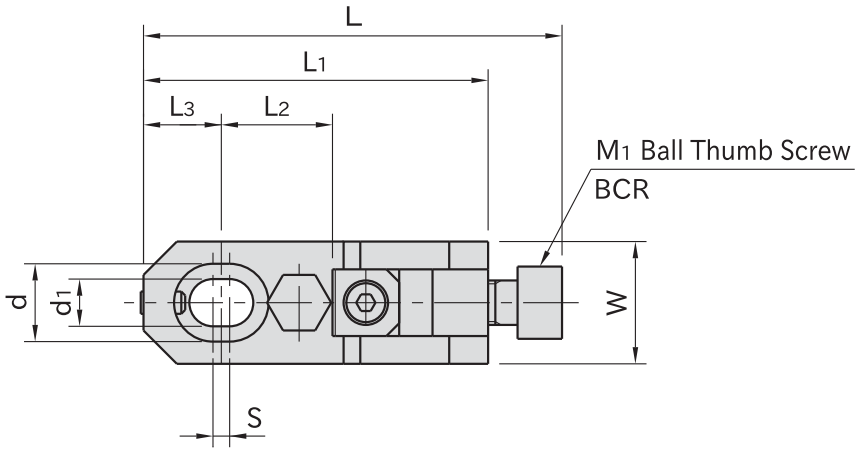


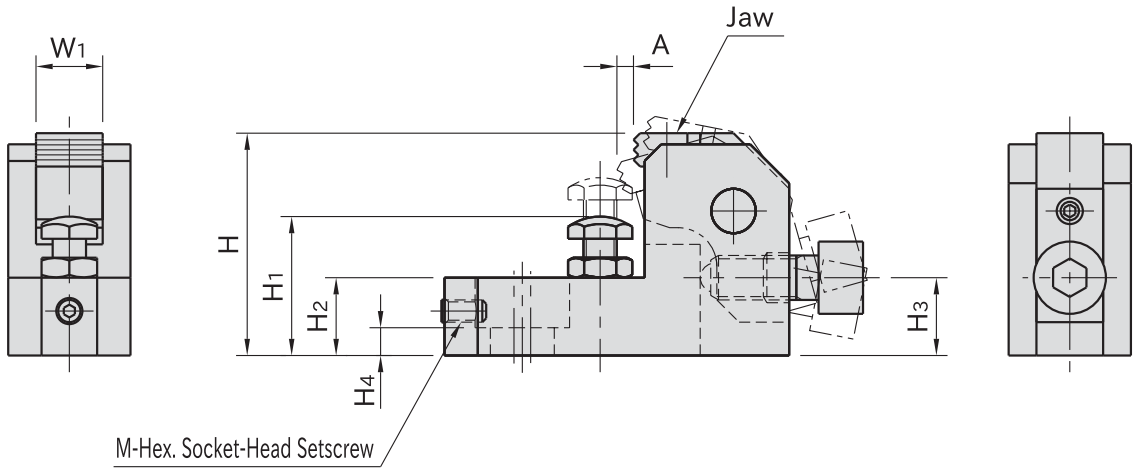
QLSCH — CAM EDGE CLAMPS

One-Touch type is available.

CP100 SIDE CLAMPS

Body / Arm	Jaw	Support Screw
S45C steel Quenched and tempered Black oxide finish	SKH51 steel Quenched and tempered Black oxide finish	S45C steel Induction hardened (Ball head part)

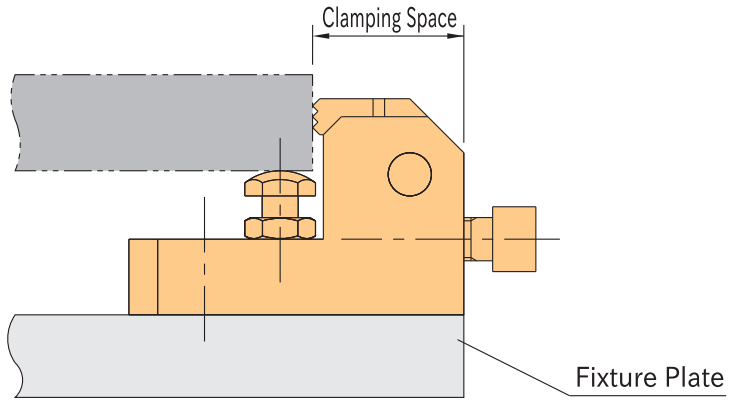




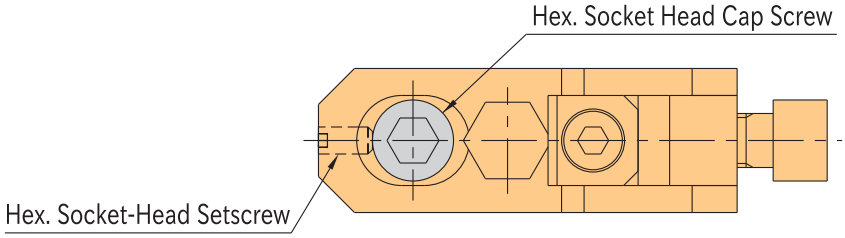
Part Number	A	W_1	L_2	L_3	H	H_1	W	L	L_1	d_1	d	S	H_2	H_4
CP100-08040	3	12	20	14	40	25~32	22	75.5	62	8.5	14	3	14	5
CP100-10050	3.7	16	25	18	50	32~40	25	95	78	11	17.5	4	18	7
CP100-12060	4.5	20	30	21	60	40~48	32	113	93	13	20	5	21	8
CP100-16080	6	25	40	28	80	50~65	38	151	124	17	26	6	27	10

Part Number	M	M_1	H_3	Clamping Force(kN)	Allowable Screw Torque(N·m)	Weight (kg)	Proper Jaws
CP100-08040	M4×0.7 - 8L	M 8×1.25-20L	14	9	15	0.23	HSE-9126-SS
CP100-10050	M5×0.8 -10L	M10×1.5 -25L	17.5	15	30	0.41	HSE-9166-SS
CP100-12060	M6×1 -12L	M12×1.75-30L	21	25	65	0.75	HSE-9200-SS
CP100-16080	M8×1.25-16L	M16×2 -40L	28	38	100	1.57	HSE-9250-SS

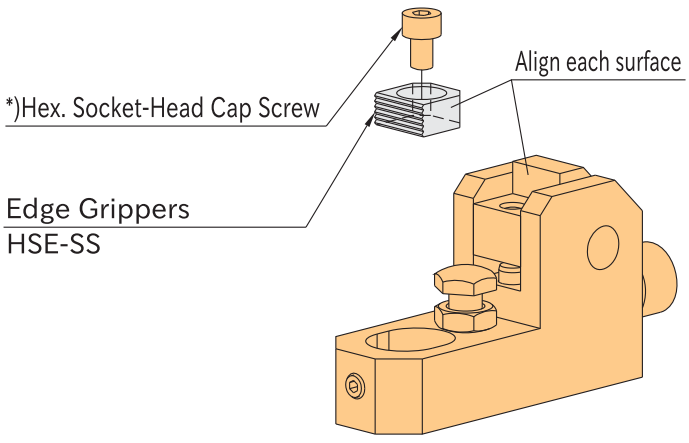
How To Use



Smaller clamping space allows clamping a larger workpiece.



The hex. socket-head setscrew works to prevent the clamp from sliding back if screwed in until it contacts the cap screw.

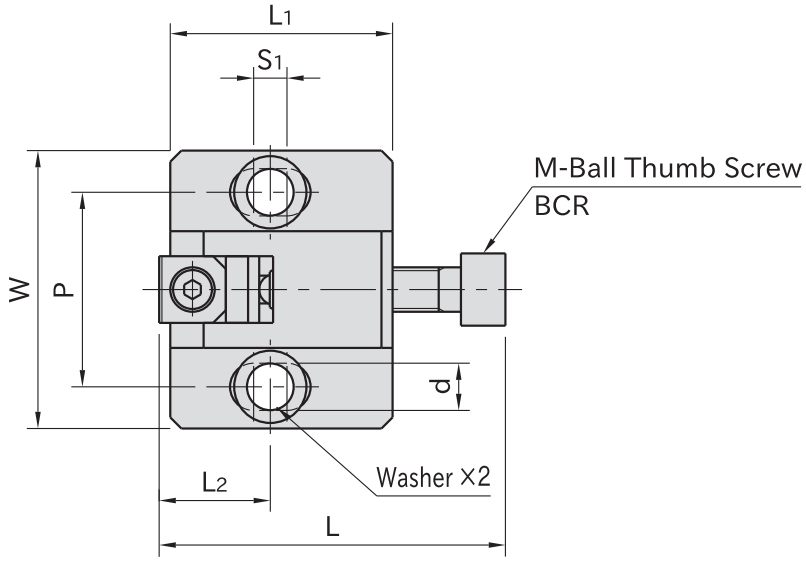


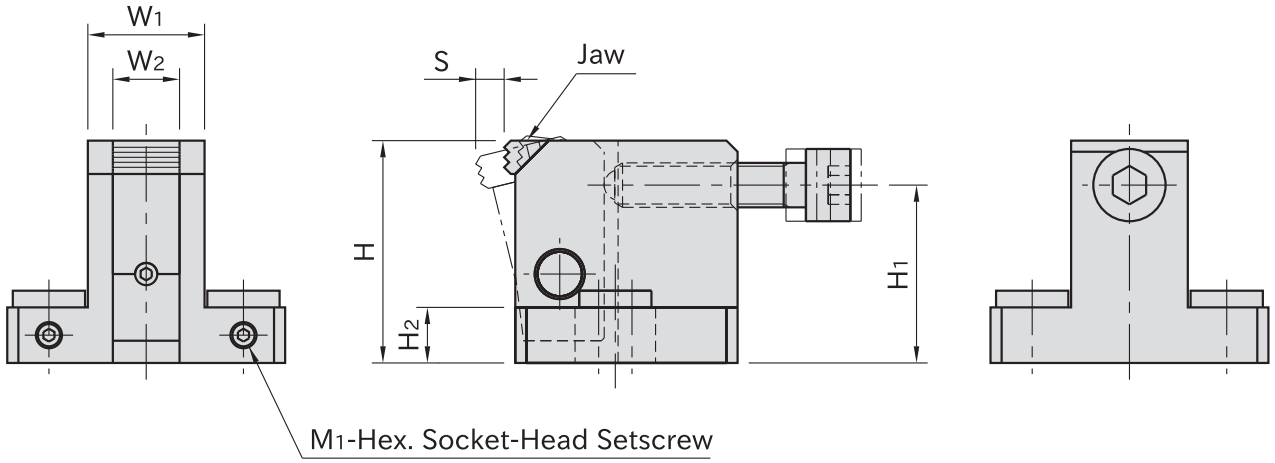
*) CP100-08040 : Hex. Socket-Head Cap Screw M4×0.7-6L
CP100-10050 : Hex. Socket-Low-Head Cap Screw M6×1-10L
CP100-12060 : Hex. Socket-Low-Head Cap Screw M8×1.25-12L
CP100-16080 : Hex. Socket-Low-Head Cap Screw M10×1.5-16L

Jaw is replaceable.
For installing, use a hex.socket-head cap screw. Fit the jaw onto a pocket of the side clamp arm.

CP101 SIDE CLAMPS

Body	Arm	Jaw
S45C steel Black oxide finish	S45C steel Quenched and tempered Black oxide finish	SKH51 steel Quenched and tempered Black oxide finish

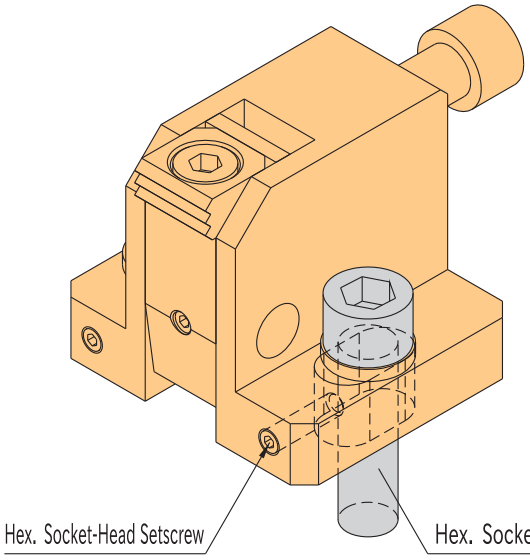




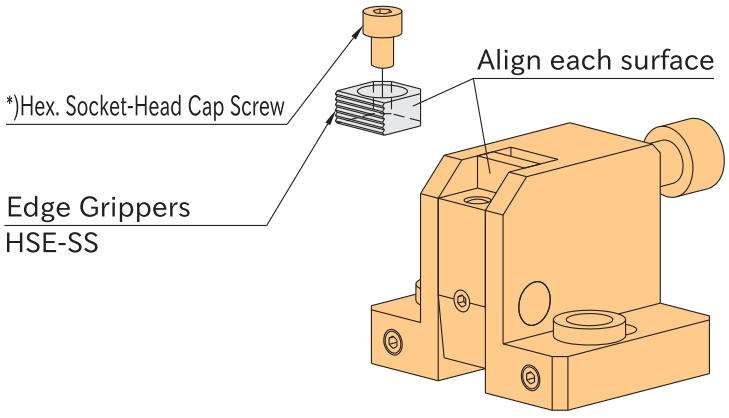
Part Number	S	W_2	L_2	H	W	L	W_1	L_1	d	S_1	H_2	P	M_1
CP101-08040	5.3	12	20	40	50	62.5	21	40	8.5	6	10	35	M4×0.7-10L
CP101-10050	7.1	16	25	50	65	74	27	50	11	8	12	45	M4×0.7-12L
CP101-12060	8	20	30	60	70	91	31	60	13	10	15	50	M5×0.8-15L
CP101-16080	10.2	25	40	80	90	115	39	80	17	15	20	65	M6×1 -20L

Part Number	M	H_1	Clamping Force(kN)	Allowable Screw Torque(N·m)	Weight (kg)	Proper Jaws
CP101-08040	M 8×1.25-35L	32	15	25	0.33	HSE-9126-SS
CP101-10050	M10×1.5 -40L	40	27	50	0.66	HSE-9166-SS
CP101-12060	M12×1.75-50L	48	38	90	1.06	HSE-9200-SS
CP101-16080	M16×2 -60L	64	46	130	2.38	HSE-9250-SS

How To Use



The hex. socket–head setscrew works to prevent the clamp from sliding back if screwed in until it contacts the cap screw.



*) CP101-08040 : Hex. Socket-Head Cap Screw M4×0.7-6L
CP101-10050 : Hex. Socket-Low-Head Cap Screw M6×1-10L
CP101-12060 : Hex. Socket-Low-Head Cap Screw M8×1.25-12L
CP101-16080 : Hex. Socket-Low-Head Cap Screw M10×1.5-16L

Jaw is replaceable. For installing, use a hex. socket-head cap screw.
Fit the jaw onto a pocket of the side clamp arm.

Supplied With

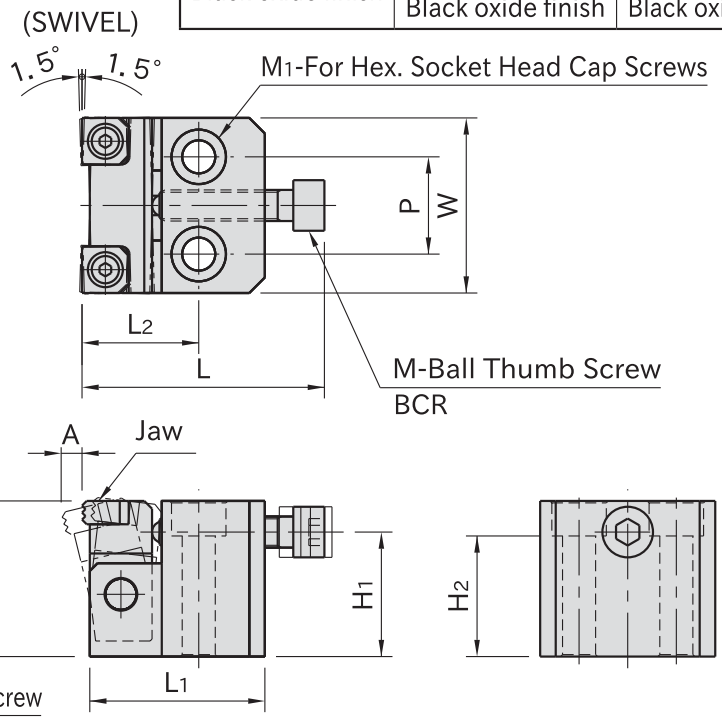
Two flat washers

CP102 WIDE-JAW SIDE CLAMPS

RoHS

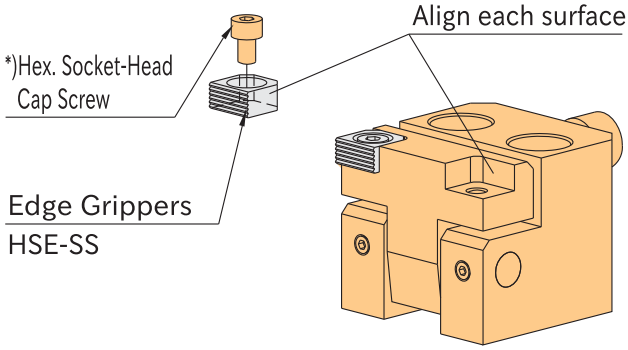
IMAO

Body	Arm	Jaw
S45C steel Black oxide finish	S45C steel Quenched and tempered Black oxide finish	SKH51 steel Quenched and tempered Black oxide finish



Part Number	A	W1	L2	H	W	L	L1	M1	H2	P	M2	M	H1	Clamping Force(kN)
CP102-08040	5.3	12	30	40	45	62.5	45	M 8	31	25	M4×0.7-4L	M 8×1.25-35L	32	15
CP102-10050	7.1	16	40	50	55	74	55	M10	39	30		M10×1.5 -40L	40	27
CP102-12060	8	20	45	60	65	91	65	M12	47	35	M5×0.8-5L	M12×1.75-50L	48	38

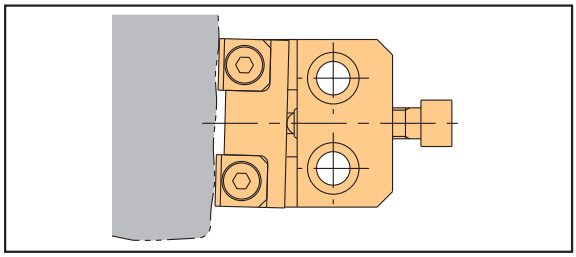
Part Number	Allowable Screw Torque (N·m)	Weight (kg)	Proper Jaws
CP102-08040	25	0.55	HSE-9126-SS
CP102-10050	50	1	HSE-9166-SS
CP102-12060	90	1.69	HSE-9200-SS



*) CP102-08040 : Hex. Socket-Head Cap Screw M4×0.7-6L
CP102-10050 : Hex. Socket-Low-Head Cap Screw M6×1-10L
CP102-12060 : Hex. Socket-Low-Head Cap Screw M8×1.25-12L

Jaw is replaceable. For installing, use a hex. socket-head cap screw. Fit the jaw onto a pocket of the side clamp arm.

How To Use



The jaw swivels to fit an unmachined surface of the workpiece.

IMAO® fixtureworks®

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