



Bar & Bar Clamps

Arm

Features: Combined with Post Clamps, mounted posts can be adjusted in a circumferential direction.

Bar Clamps – Arm

RoHS 10

Type	Material	Surface Treatment	Accessories
KLKA	1018 Carbon Steel or Equivalent	Black Oxide	Hex Socket Head Cap Screws
MKA		Electroless Nickel Plating	
ALKA	Aluminum Alloy	Black Anodize	
HLKA		Clear Anodize	
SLKA	304 Stainless Steel	—	

D8-25

D30, 35

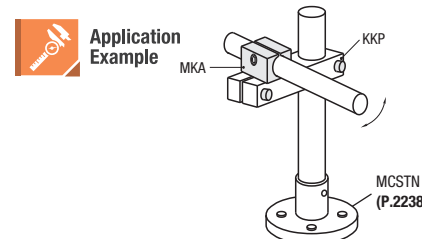
6.3 / (6.3 / 1.6)

Ⓢ For P Dimension 50 or more, a centering hole may remain at the end of D₁.

Part Number	D _{H7}	P Selection		D ₁₉₆	A	B	E	H	M	d	d ₁	Z	S	W	Included Screws	
		8	12													19
KLKA	8	+0.015	12	30	50	8	-0.005	7	12	10.5	7	M3	3.5	6	3	CB3-8, 1 pc.
	10	0	13	30	50	10	-0.014	9	13	13	9					CB4-8, 1 pc.
MKA	12	+0.018				12	-0.006	11	15	14.5	10					CB4-10, 1 pc.
	15	0				15	-0.017	12	19	15	10.5					CB4-15, 1 pc.
ALKA	20		25	50	70	20	-0.007	15	25	17.5	13					CB4-25, 1 pc.
	25	+0.021				25	-0.020	18	30	21	16					CB5-30, 1 pc.
SLKA (D≤30)	30	0		35	50	30		21	36	23.5	18.5					CB5-35, 2 pcs.
	35	+0.025		40	70	35	-0.009	24	40	26.5	21					CB5-40, 2 pcs.

Ⓢ D Dimension for SLKA is available up to 30. Ⓢ D_{H7} tolerance is measured before slit machining.
 Ⓢ Recommended tolerances of mating shafts are g6, f8. Use of a long wrench is recommended for tightening.

Part Number Example
 Part Number - P
 MKA10 - 30



Features: Bar Clamps can be used as a guide handle in combination with Post Clamps.

Post Clamps – Bar Clamps

RoHS 10

Type	Material	Surface Treatment	Accessories
BCLB	1018 Carbon Steel or Equivalent	Black Oxide	Hex Socket Head Cap Screws
BCLM		Electroless Nickel Plating	
BCLA	Aluminum Alloy	Black Anodize	
BCLH		Clear Anodize	
BCLS	304 Stainless Steel	—	

* Included screw: Black oxide and black anodize products have screw of same surface treatment, and electroless nickel plating and stainless steel products have stainless screw.

D	Screw Size
6	M3-8
8	M4-8
10	M5-10
12	M5-10
13	M5-15
15	M6-15
16	M6-15
20	M6-20

Application Example

Ⓢ For L Dimension 50 or more, a centering hole may remain at the end of D₁.

Ⓢ D_{H7} tolerance is measured before slit machining.

Part Number	D _{H7}	L Selection		B	D ₁₉₆	G	E	C	H	M	d	d ₁	Z	J	Available Types						
		6	8												BCLB	BCLM	BCLA	BCLH	BCLS		
BCLB	6	+0.012	25	40	12	8	-0.005	14	1		8	M3	3.4	6.5	3.5	17	•	•	•	•	•
	8	0			14	10	-0.014	15	1.5		9	M4	4.5	8	4.5	19	•	•	•	•	•
BCLM	10	+0.015			16	12			2		10					22	•	•	•	•	•
	12	0	30	50	18	12	-0.006	17	2.5		11	M5	5.5	9.5	5.5	24	•	•	•	•	•
BCLA	13				20	15	-0.017	17	2.5		11					27	•	•	•	•	•
	15	+0.018			23	16		19	2.5		12					31	•	•	•	•	•
BCLH	16	0			25	16		20			13	M6	6.6	11	6.5	34	•	•	•	•	•
	20	+0.021	50	70	30	20	-0.007	21	3		14					35	•	•	•	•	•

Part Number Example
 Part Number - L
 BCLB16 - 70

Flexible Clamp / Holder Hollow

Features: A circular post and a hexagonal post can be clamped together.

Flexible Clamp

RoHS 10

Type	Material	Surface Treatment
FLEC	Low Carbon Steel	Electroless Nickel Plating
FLEB	304 Stainless Steel	—
FLHC	—	—
FLES	—	—
FLHB	—	—

Wing Nut **Hexagon Socket Head Cap Screws** **Wing Nut High Torque**

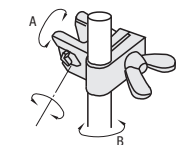
Ⓢ Material: W1-8 Tool Steel
 Ⓢ Surface Treatment: Electroless Nickel Plating

Part Number	Type	D	Nominal	Clamping Range	W	E	P ₁ (min.)	P ₂ (max.)	Lmax	ℓ	t ₁	t ₂		Available Types				
												Low Carbon Steel	304 Stainless Steel	FLEC	FLES	FLEB	FLEBS	FLHC
Wing Nut	Hex Socket Head Cap Screws	12	8	Ø8-12	16	8	(23.5)	(26.3)	39.1	30	2	1.6	1.5	•	•	•	•	—
														•	•	•	•	—
High Torque	FLHC	12	8	Ø8-12	16	8	(24.9)	(27.7)	40.5	30	2	1.6	1.5	—	—	—	—	•
														—	—	—	—	•

Ⓢ Do not tighten the wing nut and cap screw unless shaft is set in D part. Excessive tightening may cause deformation.
 Ⓢ Recommended diameter tolerances of mating posts: ±0.05 for Wing Nuts; +0.05 for Hexagon Socket Head Cap Screws.

Features

- Two axes can be clamped by tightening one wing nut.
- Flexible clamping is possible as shown in the right figure.



Part Number Example
 Part Number - D₁
 FLEC12 - 8

Reference: Moment Capacity Data

Data	Sample	Tightening Conditions	Standard		High Torque	
			Low Carbon Steel	Stainless Steel	Low Carbon Steel	Stainless Steel
A (Ncm)	1	1	FLEC12-8 FLEB	FLEC15-8 FLEB	FLEC12-8 FLEB	FLEC15-8 FLEB
			102.9	235.2	132.3	161.7
B (Ncm)	1	1	1176 or More	176.4	1176 or More	285.2
			294.0	367.5	352.8	1176 or More

Ⓢ The above data is an example of actually measured values, not guaranteed.
 Ⓢ A, B correspond with A and B in the above figure.
 Ⓢ The data shows the results of tightening with Hex Nuts instead of Wing Nuts. The posts are 1045 Carbon Steel or Equivalent, Low Carbon Steel.
 Tightening Condition 1: Tightening Torque 100 Ncm
 Tightening Condition 2: Tightening Torque 200 Ncm

Holder Hollows

RoHS 10

HLPY

Ⓢ A cable protector is included.

Material: 1018 Carbon Steel or Equivalent
 Surface Treatment: Electroless Nickel Plating

Part Number	L	
HLPY	4.5	150
	5.5	250

Part Number Example
 Part Number - L
 HLPY4.5 - 150

