

Fulcrum Pins

Standard

\varnothing L=1 mm Increment Specifiable Type has been newly changed to Selectable Type. Please use the Configurable Type if desired size cannot be found.

Fulcrum Pins - Standard

RoHS 10

Straight Slot Groove		Hex Hole		Wrench Flats		Hex Head		Material	Hardness	Surface Treatment
Standard Grade	Precision Grade	Standard Grade	Precision Grade	Standard Grade	Standard Grade	Standard Grade	Standard Grade			
D -0.01 -0.05	Dg6	D -0.01 -0.05	Dg6	D -0.01 -0.05	D -0.01 -0.05	D -0.01 -0.05	D -0.01 -0.05	1045 Carbon Steel or Equivalent	40-45 HRC min.	Black Oxide
CBBDD	—	CBDBRR	CBDBRRH	CBDBWR	—	CBDBL	—	303 Stainless Steel Equivalent	—	—
CBBDH	—	CBDBRH	—	CBDBWH	—	—	—			
CBD	CBDG	CBDR	CBDR	CBDW	CBDL	—	—			

RoHS 10

L Dimension Tolerance

Type	Standard
Unhardened	+0.15 +0.05
Hardened	+0.2 0

Straight Slot Groove **Wrench Flats**

$25/(\sqrt[3]{6.3/1.6})$

Hex Hole **Hex Head**

Precision Type

D	Tolerance (g6)
4-6	-0.004 -0.012
8, 10	-0.005 -0.014
12-15	-0.006 -0.017

Standard

Part Number	L		A	E	M x P (Coarse Thread)	F	ℓ	W	h	C
Type	D									
Straight Slot Groove (Standard) CBBDD CBBDH	4	1 2 3 4 5 6 7 8	6	2	2.6 x 0.45	4	0.8	0.8	1	0.5
	5	1 2 3 4 5 6 7 8 10	8		3 x 0.5	6	1			
Straight Slot Groove (Precision) CBD CBDG	6	2 3 4 5 6 7 8 10	10	2.5	4 x 0.7	8	1.2	1.2	1.5	1
	8	5 6 7 8 9 10 12 20	12	3	5 x 0.8	10	1.4			
	10	5 6 7 8 9 10 12 15 20	16	4	6 x 1.0			1.4	1.8	
	12	6 7 8 9 10 12 13 15 20	18	5	8 x 1.25	12	1.5	1.5	2	

Standard

Part Number	L		A	E	M x P (Coarse Thread)	F	ℓ	B	h ₁	C
Type	D									
Hex Socket (Standard) CBDBR CBDBRH	4	5 6 7 8	6	3.5	2.6 x 0.45	4	0.8	2	2	0.5
	5	5 6 7 8 10	8		3 x 0.5	6	1	2.5	2.5	
Hex Socket (Precision) CBDR CBDGR	6	5 6 7 8 10	10	4	4 x 0.7	8	1.2	3	3	1
	8	5 6 7 8 9 10 12 20	12	4.5	5 x 0.8	10	1.4	4	3.5	
	10	5 6 7 8 9 10 12 15 20	16		6 x 1.0					
	12	6 7 8 9 10 12 13 15 20	18	5	8 x 1.25	12	1.5	5	4	

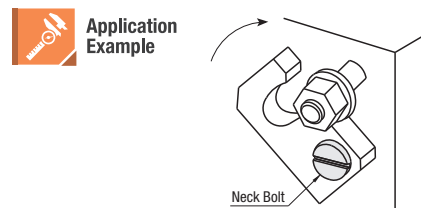
Standard

Part Number	L		A	E	M x P (Coarse Thread)	F	ℓ	W ₁	G	C
Type	D									
Wrench Flats (Standard) CBDBW CBDBWH	4	1 2 3 4 5 6 7 8	6	3.5	2.6 x 0.45	4	0.8	5	7	0.5
	5	1 2 3 4 5 6 7 8 10	8		3 x 0.5	6	1	7	8	
Hex Head (Standard) CBDW CBDBL CBDL	6	2 3 4 5 6 7 8 10	10	4	4 x 0.7	8	1.2	8	10	1
	8	5 6 7 8 9 10 12 20	12	4.5	5 x 0.8	10	1.4	10	13	
	10	5 6 7 8 9 10 12 15 20	16		6 x 1.0			13	17	
	12	6 7 8 9 10 12 13 15 20	18	5	8 x 1.25	12	1.5	14	19	

Part Number Example

Part Number - L

CBD6	- 10
CBDR6	- 10
CBDW6	- 10
CBDL6	- 10



Fulcrum Pins

Configurable

Fulcrum Pins - Configurable

RoHS 10

Straight Slot Groove		Hex Hole		Wrench Flats		Hex Head		Material	Hardness	Surface Treatment
Standard Grade	Precision Grade	Standard Grade	Precision Grade	Standard Grade	Standard Grade	Standard Grade	Standard Grade			
D -0.01 -0.05	D	D -0.01 -0.05	Dg6	D -0.01 -0.05	D -0.01 -0.05	D -0.01 -0.05	D -0.01 -0.05	1045 Carbon Steel or Equivalent	40-45 HRC min.	Black Oxide
FCBBDD	—	FCBDBRR	FCBDBRRH	FCBDBWR	—	FCBDBL	—	303 Stainless Steel Equivalent	—	—
FCBBDDH	—	FCBDBRH	—	FCBDBWH	—	—	—			
FCBD	FCBDG	FCBDR	FCBDR	FCBDW	FCBDL	—	—			

RoHS 10

L Dimension Tolerance

Type	Configurable
Unhardened	+0.1 0
Hardened	+0.2 0

Straight Slot Groove **Wrench Flats**

$25/(\sqrt[3]{6.3/1.6})$

Hex Hole **Hex Head**

Precision Type

D	Tolerance (g6)
4-6	-0.004 -0.012
8, 10	-0.005 -0.014
12-15	-0.006 -0.017

Configurable

Part Number	L		A	E	M x P (Coarse Thread)	F	ℓ	W	B	h	h ₁	C	W ₁	G
Type	D	0.1mm Increment												
Straight Slot Groove Standard FCBBDD FCBBDDH	4		6 8		2.6 x 0.45	4	0.8	0.8	1	2	2		5	7
	5		8 10		3 x 0.5	6	1		2.5	1	2.5	0.5	7	8
Wrench Flats Standard FCBDBW FCBDBWH	6		10 12		4 x 0.7	8	1.2	1.2	3	1.5	3		8	10
	8		12 16		5 x 0.8	10	1.4		4		3.5		10	13
Hex Hole Standard FCBDBR FCBDBRH	10	1.0-20.0	16 18 20		6 x 1.0								13	17
	12	5.0-20.0 (For Hex Hole)	18 20 22 24		8 x 1.25					2	4	1	14	19
Hex Head Standard FCBDBL FCBDL	*13		20 22 24										15	19
	*15		20 22 24										17	

Machining Conditions \varnothing For FCBBDD / FCBDBRH / FCBDR, E+L \geq 2xh1+2 \varnothing D13 and D15 are not available for FCBBDD / FCBDBDDH / FCBD.

D	Available Types												
	Straight Slot Groove			Hex Socket				Wrench Flats			Hex Head		
	FCBBDD	FCBBDDH	FCBD	FCBDBR	FCBDBRH	FCBDR	FCBDBW	FCBDBWH	FCBDW	FCBDBL	FCBDL		
4	•	•	•	•	•	•	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•	•	•	•	•	•
13	—	—	—	•	•	•	•	•	•	•	•	•	•
15	—	—	—	•	•	•	•	•	•	•	•	•	•

Part Number Example

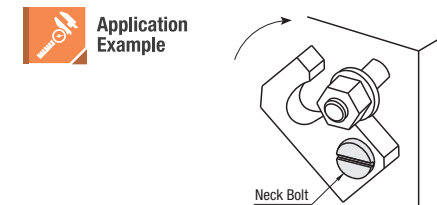
Part Number - L - A - E - F

FCBBDD6	- 10.0 - A10 - E2.5 - F6
FCBDBR6	- 10.0 - A10 - E2.5 - F6
FCBDW6	- 10.0 - A10 - E2.5 - F6
FCBDBL6	- 10.0 - E2.5 - F6

Part Number Alterations

Part Number - L - A - E - E - (PC)

FCBBDD6	- 12.6 - A10 - E3.0 - F6 - PC
FCBD8	- 16.5 - A12 - E3.5 - F8 - PC
FCBDBR6	- 12.6 - A10 - E3.0 - F6 - PC
FCBDBW6	- 12.6 - A10 - E3.0 - F6 - PC
FCBDBL6	- 12.6 - E3.0 - F6 - PC



Alteration	Code	Spec.			
<p>PC</p>		Adds a relief to M.			
		D	M x Pitch	g	f
		4	M2.6 x 0.45	1	1.9
		5	M3 x 0.5	1	2.3
		6	M4 x 0.7	1.2	3.2
		8	M5 x 0.8	1.4	4.0
	10	M6 x 1.0	1.7	4.8	
	12-13	M8 x 1.25	1.7	6.5	
	15	M10 x 1.5	2	8.2	