Round Strut Clamp

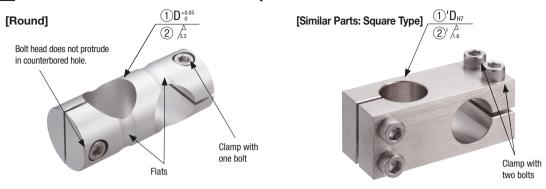
Overview

Strut Clamp Type Selection Chart

Туре		Shape		Features	Fastening	Page Round Hole Square Hole		
Perpendicular		Strut Clamps used to cross two posts	Round Equal Dia., Perpendicular Configuration		Round type enabling easy clamping and reducing costs	Screw Fastening	P.2163	-
			Standard		Most popular Pitch Configurable Type also included in product lineup	Knob / Clamp Lever Screw Fastening	P.2166 P.2164~2169	- P.2181
			Split		Post-assembly mounting onto posts built-in structures	Screw Fastening	P.2171	-
			T-Shaped Split		Space-saving one-sided post	Screw Fastening	P.2171	-
			Rotation		Post angles adjustable	Screw Fastening	P.2173 P.2174	-
Par	rallel	Two parallel posts fixable	Standard		Parallel posts fixed	Screw Fastening	P.2172	-
		Direct device mounting via tapped holes	Standard		Vertical device mounting on posts	Knob / Clamp Lever Screw Fastening	P.2175 P.2176 P.2177	P.2182
	Vertical		Split		Post-assembly mounting onto posts in structures Used for mounting objects perpendicular to posts	Screw Fastening	P.2179	-
Tapped			Standard	Too Too	Horizontal device mounting onto post	Knob / Clamp Lever Screw Fastening	P.2175 P.2176 P.2178	P.2182
	Parallel		Split		Post-assembly mounting onto posts in structures Used for mounting objects parallel to posts	Screw Fastening	P.2179	-
Arm	Arm / Bar	Mounting onto perpendicular strut clamps	Arm		Post in circumferential rotations via arm mounted onto Strut Clamps	Screw	P.2184	-
, am , bai		as guides	Bar		Round Bar as Conveyor Guides	Fastening	P.2184	-
	stment anism	By mounting below the clamp, fine manual adjustments are possible up to 5mm.	Adjustment	1	By mounting below the clamp, fine manual adjustments of cameras and beam sensors are possible.	Screw Fastening	P.2170	-

^{*} Products of the same shape include various sizes such as Standard Type and Compact Type. See each product page for details.

Features of Round Strut Clamp



Point 1 Modified in Specification to meet Clamp use in Middle Accuracy, and realized Lower Costs by changing the Manufacturing Process

[Round]		[Similar Parts: Square Type]		
1) Shaft bore tolerance	0~+0.05	①' Shaft bore tolerance	H7	
② Shaft Bore Surface Roughness	Ra3.2	②' Shaft Bore Surface Roughness	Ra1.6	
⇒ Fitting Accuracy between Shaft and Shaft Bore	Middle Accuracy	⇒ Fitting Accuracy between Shaft and Shaft Bore	High Accuracy	
◆For mating, g6 ~ f8 shaft tolerances are re	commended.	For mating, g6 shaft tolerance is recommended.		

⇒ Maximum of 44% Price Reduction compared to Similar Parts (Square Type)

Point 2 Re-design of the shape and standards to more easily Clamping Post

A round type is free from the corner's thickness, as opposed to similar parts (square type), and is easily clamped with the flats provided around the shaft bore.

So.

a round strut clamp is capable of providing a firm clamp force even with one bolt to ensure highly efficient workability!!

Maximum Load Test

Tighten shafts and strut clamps by standard tightening torque [N·m], and conduct a maximum load test to observe the moment that the shaft and strut clamp start to move.

		Round	Square	
		Max. Load (kN)	Max. Load (kN)	
		Reutical Cread	Rotation Francisco	
EN 1.1191	Bolt Type	M5-20 (Single Clamp)	M6-25 (Double Clamps)	
Equiv. Shaft Bore	Vertical Load	12.63	13.12	
Dia. Ø20	Rotation Load	0.96	0.97	Equiv. to square type, or
Aluminum Allov	Bolt Type	M4-10 (Single Clamp)	M5-15 (Single Clamp)	provides more clamp force
Shaft Bore	Vertical Load	10.59	8.26	
Dia. Ø10	Rotation Load	0.72	0.58	
Dia. Ø10	Vertical Load Rotation Load	10.59	8.26	provides more clamp force

Maximum Load (kN) values shown are for reference only, and not guaranteed ones.

Point 3 Selection of 3 Steps: Material, Surface Treatment, and Shaft Hole Dia.! A total of 28 standards is offered for selection.

Shaft Bore Dia.	C-KDST (EN 1.1191 Equiv. + Black Oxide)	C-MDKT (EN 1.1191 Equiv. + Electroless Nickel Plating)	C-ALKD (Aluminum Alloy + Black Anodize)	C-HLKD (Aluminum Alloy + Clear Anodize)	
6	-		•		
8	•		•		
10					
12					
15					
20					
25					
30				-	

[●] For details about round strut clamps, refer to ■ P.2163

^{*} Strut Clamps with Knob and Clamp Lever are suitable for frequent setup changes through manual fastening.