

Shaft Supports - Overview

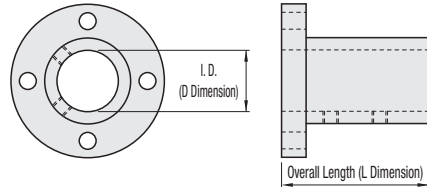
About I.D. Accuracy

- Features · Combination use of MISUMI Shafts (standard g6, f8 and h5) and MISUMI Shaft Supports are recommended.
- Slit is machined after the mounting hole D is bored to H7 tolerance. The tolerance may become H8 or so depending on the machining condition.

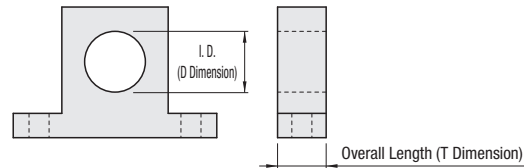
Relationship between I.D. (D dimension) and Overall Length of Guide (L, T dimensions)

- Features · Standard Type spec. is $L, T = D \times 1.3$ or less approx.; Long Sleeve Type and Wide Type spec. is $L, T = D \times 1.3$ to 2.0 approx.
- Rigidity of Long Sleeve Type and Wide Type is enhanced as they have longer shaft holding area.
- $L = D \times 2.0$ or more are available under the index of Posts. Please refer to **P.2115~2160**.

(Ex.) Flanged Mount



(Ex.) T-Shaped



Manufacturing Method

- Features · MISUMI shaft supports are available in Machined Types and Cast Types.
- Cast products are offered at lower prices than machined products. Precision cast supports have slight de-molding draft and gritty surfaces but the dimensions are precisely finished as shown in the catalog.

About Materials

- Features · SS400 Equivalent, S45C Equivalent, SUS304 and Aluminum materials (AC7A for Cast) are available.

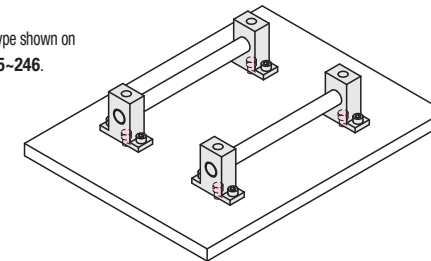
Basic Shape	How to Mount	Existing Products			
		Through Hole	Pilot	Dowel Hole	Tapped Hole
	Characteristic	Mounted by using tapped holes on mounting plate.	Easy positioning during assembly. Easy repeatability during maintenance.	Suitable when mounting plates are thin or may have insufficient strength like aluminum.	
Cast Product	Flanged Type	Features: Most economical. Longer sleeve than standard type improves shaft gripping power.			
		P.241	-	-	-
		* Long Sleeve Type available.			
Machined Product	Set Screw	Features: Set screws may scratch the shaft during clamping; however, this is the most economical machined product.			
		P.233	P.235 (Thick Sleeve)	P.234 (Thick Sleeve)	P.236 (Thick Sleeve)
		* Long Sleeve Type available.			
	Slit	Features: Tightening doesn't damage shafts during clamping.			
		P.237	P.238	P.238	-
		* Long Sleeve Type available.			
	Compact	Features: Small O.D. contributes to space saving. Tightening doesn't damage shafts.			
	P.239	-	-	-	
	* Long Sleeve Type available.				
Split	Features: Easy maintenance such as shaft removal, etc..				
	P.240	-	-	-	
Back Mount	Features: Shaft can be fastened securely using a tapped hole on the shaft end.				
	P.240	-	-	-	

Basic Shape	Shaft Securing Method	Existing Products				
		Set Screw	Slit	Side Slit	Split	Hinged
	Characteristic	Most economical.	Shafts can be secured without damage.		Easy maintenance.	Enhanced working efficiency with only one tightening screw.
Cast, Machined Product	T-Shaped	Features: Suitable when lengthwise space is limited.				
		P.243	P.242	P.243	P.244	-
		P.245	P.246	P.247	P.248	P.251
		* Dowel Hole Type available. * Wide Type available				
	L-Shaped	Features: Suitable when crosswise space is limited.				
	P.253	P.253	P.254	P.254	-	
	P.255	P.255	P.256	P.256	P.252	
	* Dowel Hole Type available. * Wide Type available					
Compact	Features: The most compact space-saving design in all dimensions.					
	P.249	-	P.249	P.250	-	
	* Wide Type available					
Bottom Mount	Features: Screw mount from underside is effective when the mounting host is too thin to tap, and in space limited applications.					
	P.257	P.258	P.260	P.259	P.252	
	* Wide Type available					
Side Mount	Features: Enables mounting on the plate side.					
	P.261	P.261	P.262	P.262	P.252	

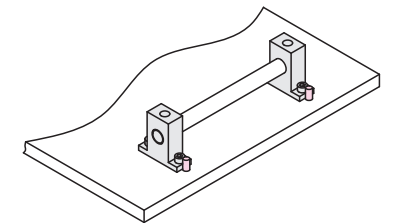
Positioning and Repeatability

- Support units are located with dowel holes on the units and dowel pins pressed into the mounting plate.

Use With Dowel Hole Type shown on **P.233~238, P.245~246**.

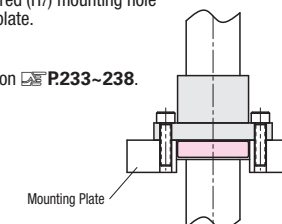


- Support units are located with dowel pins pressed into the mounting plate against unit housing's vertical faces.



- Support units are located with the housing pilot and a precision bored (H7) mounting hole made in the mounting plate.

Use Pilot Type shown on **P.233~238**.



- Use clearances of mounting holes (through holes) and make adjustments and positioning during uses.

