Rollers with Oil-Free Bushing

Features: Use of oil free bushings instead of bearings accomplished lower cost and space savings.

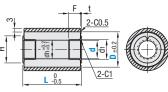


Туре	Ro	Oil Free Bushings				
	Material	Surface Treatment	Oil Free Bushings			
FRTA	Aluminum Alloy	Clear Anodize	Filler Added PTFE Layer Sintered Bronze Layer Steel-backed Metal Layer (Low Carbon Steel: Tin Plating)			
FRTS	304 Stainless Steel	_				
FRTAU	Aluminum Alloy	Urethane Lining				
FRTSU	304 Stainless Steel	(Natural Color) Shore A90				

Core Only

	Bushing Details				
		d			
	Inner Diameter	Tolerance			
(+)	3	+0.062			
\Pi	5				
	6	+0.065 0			
	8				

L -0.5



Inner Diameter	Tolerance	F	d ₁	Н		
Diamictor	.c.c.unoo			Н		
3	+0.062 0	5	4.6	7		
5	5 7		7	10		
6	+0.065 0	8	8	12		
8		10	10	15		
10		10	12	18		
12	+0.068	10		20		
15		10	10 17			

Part Number		d (I.D.)													
Type D					u (1.D.)										
•		8	3												0.8
Core Only FRTA (Aluminum Alloy) FRTS (304 Stainless Steel)	Urethane FRTAU (Aluminum Alloy) FRTSU (304 Stainless Steel)	10		5						- 20* 25					
		12		5	6										
		15			6	8					30	40	50	1.0	
		18				8	10								
		20					10	12							
		25					10	12	15*						
		30					10	12	15*						

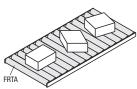
*For details of Oil Free Bushings, please see **P.441**. U20 cannot be selected for *d15.















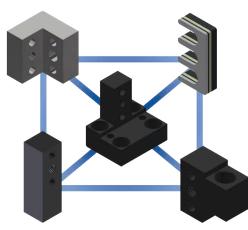
The MISUMI Approach to Standard & Configurable NAAMS

After extensive market research, MISUMI USA discovered that standard NAAMS components frequently required additional machining, or even a make detail for customization. MISUMI USA worked closely with several large customers to develop configurable NAAMS components that required no additional machining, not connected to each other, and at a lower cost than customized NAAMS components.

NAAMS Bolting Pattern

The NAAMS bolting pattern is a unique benefit of the NAAMS standards. The bolting pattern is standardized with a 15mm pitch, so components are easily interchangeable and assembly is quick and easy.

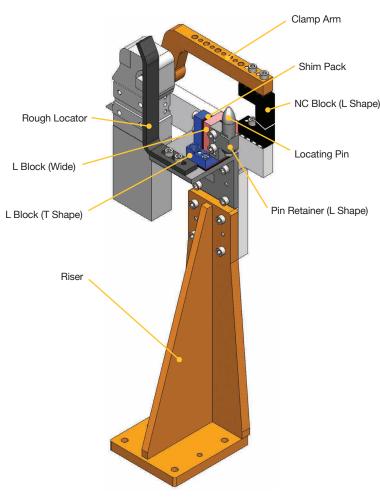
Mix and match components



All 15mm pitch =
Interchangeable Bolting Pattern
& Easy Assembly

Typical NAAMS Assembly

A typical NAAMS assembly includes risers, pin stacks, and clamp arms and uses multiple locating pins and pin retainers, in addition to several styles of L Blocks and NC Blocks. Shim packs are used to adjust the assembly as needed.



WHAT'S NEW

MISUMI has further expanded our NAAMS offering by adding the following new products:

- American-made NAAMS Welded Risers
- Douglas Stamping Company® NAAMS Shims & Spacers
- Suburban Bolt Supply Company NAAMS Fasteners

We have also added options on existing products by adding more Configurable L Blocks and Pin Retainers. For Locating Pins, we have expanded the diameter range on configurable pins and added a Rainbow Diamond-Like Coating to select items.

