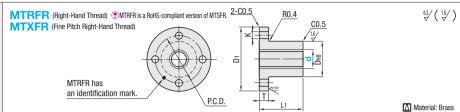
Nuts for Lead Screws - RoHS Compliant

Flanged / Fine Pitch / Anti-Backlash

RoHS compliant Flanged Lead Screw Nut. Delivered in the shortest lead-time.





Part Number		Pitch P	D	La	D ₁	_	P.C.D.	к	Allowable Dynamic	Mass (a)	Unit Price
Type	d	Pitch P	, D	L1	D1	'	P.C.D.	Γ.	Thrust (kN)	Mass (g)	1 ~ 4 pc(s).
MTRFR	10	2	20	24	36	5	26	4.3	2.55	80	
	12		22	30	44		31	5.4	3.92	120	
	14	3							4.90	110	
	16		28	35	51	6	38		6.67	200	
	20	4	32	40	56] 0	42	6.6	9.81	260	
	25	5 6	36	50	61	7	47		14.22	350	
	28		44	56	76	8	58	9	17.95	630	
	32								21.08	580	
MTXFR	16	2	28	35	51	6	38	6.6	6.78	190	
	20		32	40	56		42		10.1	250	

● For Fine Pitch Right-Hand Thread, p,lease see MTX (P.801, 805~808).

RoHS10



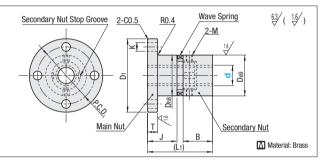
Ordering Part Number

The for orders larger than indicated quantity, please request a quotation.





Components Part Name Material Quantity Main Nut Brass Secondary Nut Rrass Wave Spring SWRH72B SCM435 Set Screw



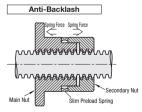
Part Number		Pitch P D	D ₁	т	(L1)	-	В	P.C.D.	K	М	Allowable Dynamic	Mass	Unit Price	
Type	d	PILCII P	_ D	וט	'	(L1)	J	В	P.C.D.		IVI	Thrust (kN)	(g)	1 ~ 4 pc(s).
Round Flanged MTBLR	10	2	20	36	- 5	33	13	15	26	4.3	3	2.60	100	
	12		22	44		36.5	16.5	16	31	5.4		3.39	130	
	16	3	28	51	6	45	21	20	38	6.6 4	4	6.29	230	
	20	4	32	56	U	52	24	25	42		9.32	310		

For orders larger than indicated quantity, please request a quotation.



Ordering Part Number MTBI R20

■Features of Anti-Backlash



Anti-Backlash can eliminate play between shaft and nut by spring force of slim preload spring installed between main nut and secondary nut. Even if there is abrasion, spring force controls backlash.

(Notes)The effects will vary depending on applied conditions (Load and Direction).

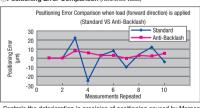
Regular Type ~*&&&&&&*

Regular Type has axial play of shaft and nut, and this causes backlash on reverse driving direction.

■Installation of Anti-Backlash

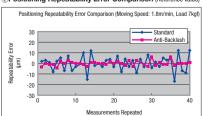
- (1) Remove the tape that is temporarily holding the main and secondary nuts.
- In this condition, the main and secondary nuts are fixed by 2 set screws.
- ②While the set screw is fixed, turn the shaft of lead screw as it is inserted.
- $\ensuremath{\mathfrak{I}}$ After insertion of secondary nut, set screw is rotated approximately 45° to 90° to loosen. Clamping force between the main and secondary nuts is released and spring force works.
- The mounted set screw must not protrude out from external diameter of secondary nut. In order to prevent dropout of set screw due to vibration and the like, insert to secondary nut part of housing.

①Positioning Error Comparison (Reference Value)



Controls the deterioration in precision of positioning caused by Moment of Inertia during shut-down of motion and driving fluctuation effect.

2 Positioning Repeatability Error Comparison (Reference Value)



· Anti-backlash design improves the system repeatability

Test Conditions: Sample Nut: MTBLR16 Axis: MTSRG16-270 Travel Distance: 75mm