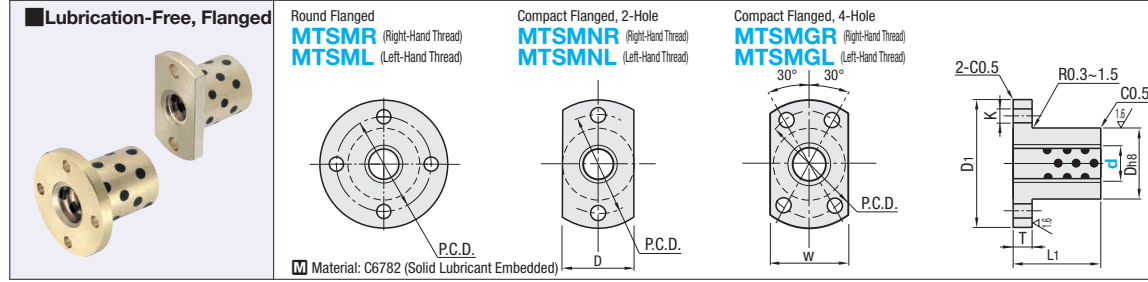


# Nuts for Lead Screws

## Lubrication-Free, Flanged / Straight

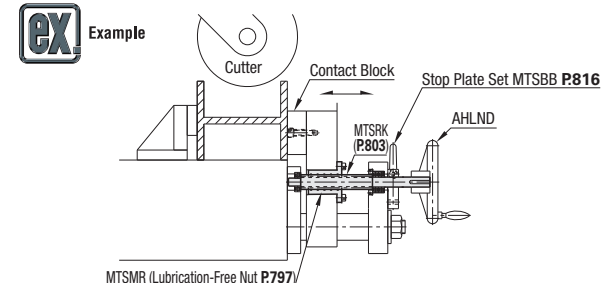
⚠ Lubrication-Free Type reduces the amount and number of times of grease to be applied in comparison to the Standard Type. Initial greasing is recommended for effective use.



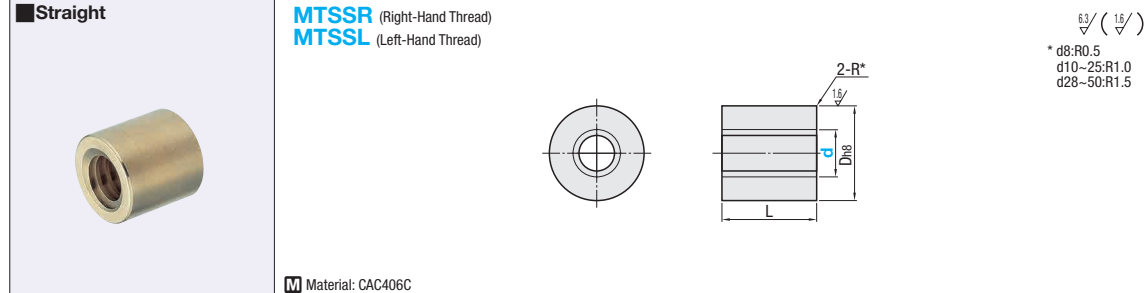
Part Number	Type	d	Pitch P	D	L1	D1	T	P.C.D.	K	W	Allowable Dynamic Thrust (kN)	Mass (g)			Unit Price			
												MTSMR/MTSML	MTSMNR/MTSMNL	MTSMGR/MTSMGL	MTSMR/MTSML	MTSMNR/MTSMNL	MTSMGR/MTSMGL	
Round Flanged																		
	MTSMR (Right-Hand Thread)	10	2	20	24	36	5	26	4.3	22	2.55	80	66	67				
	MTSML (Left-Hand Thread)	12	2	22	30	44	5	31	5.4	24	3.92	120	95	95				
	MTSML (Left-Hand Thread)	14	2	24	30	44	5	31	5.4	24	4.90	110	85	86				
Compact Flanged, 2-Hole																		
	MTSMNR (Right-Hand Thread)	16	3	28	35	51	6	38	6.6	30	6.67	200	169	172				
	MTSMNR (Right-Hand Thread)	20	4	32	40	56	6	42	6.6	34	9.81	260	219	220				
	MTSMNL (Left-Hand Thread)	22	4	36	50	61	7	47	6.6	40	12.36	410	357	364				
Compact Flanged, 4-Hole																		
	MTSMGR (Right-Hand Thread)	25	5	44	56	76	8	58	9	-	14.22	350	290	297				
	MTSMGR (Right-Hand Thread)	*28	5	44	56	76	8	58	9	-	17.95	630	-	-				
	MTSMGL (Left-Hand Thread)	*32	6	52	60	84	8	66	9	-	21.08	580	-	-				
	MTSMGL (Left-Hand Thread)	*36	6	52	60	84	8	66	9	-	25.78	820	-	-				
	MTSMGL (Left-Hand Thread)	*40	6	58	70	98	10	76	11	-	33.83	1250	-	-				

⚠ Features of Lubrication-Free Nut and Data about Abrasion Test  $\square$  P799

Ordering Example Part Number **MTSMNL16**



⚠ Requires to be mounted to a nut, and a rotation preventing measure is needed.



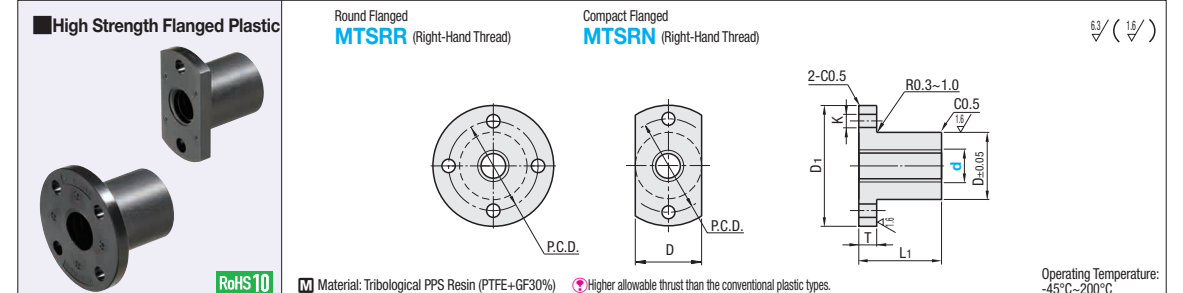
Part Number	Type	d	Pitch P	D	L	Allowable Dynamic Thrust (kN)	Mass (g)		Unit Price	
							MTSSR/MTSSL	MTSSR/MTSSL	MTSSR	MTSSL
	MTSSR (Right-Hand Thread)	(8)	1.5	15	20	1.47	22			
	MTSSR (Right-Hand Thread)	10	2	20	20	2.06	40			
	MTSSR (Right-Hand Thread)	12	2	22	22	2.84	50			
	MTSSR (Right-Hand Thread)	14	3	22	22	3.63	50			
	MTSSR (Right-Hand Thread)	16	3	28	26	4.90	100			
	MTSSR (Right-Hand Thread)	18	4	28	26	6.86	160			
	MTSSR (Right-Hand Thread)	20	4	32	31	7.65	150			
	MTSSR (Right-Hand Thread)	22	5	36	40	9.90	240			
	MTSSR (Right-Hand Thread)	25	5	36	40	11.38	210			
	MTSSR (Right-Hand Thread)	28	5	44	45	14.42	390			
	MTSSR (Right-Hand Thread)	32	6	44	45	17.06	320			
	MTSSR (Right-Hand Thread)	36	6	52	49	21.18	530			
	MTSSR (Right-Hand Thread)	40	6	58	57	27.46	720			
	MTSSR (Right-Hand Thread)	50	8	68	67	40.11	1126			

Ordering Example Part Number **MTSSR16**

# Nuts for Lead Screws

## High Strength Plastic / Plastic

⚠ High Strength Flanged Plastic has good mechanical properties and chemical resistance and is available for reduced price compared with Standard Plastic Type.

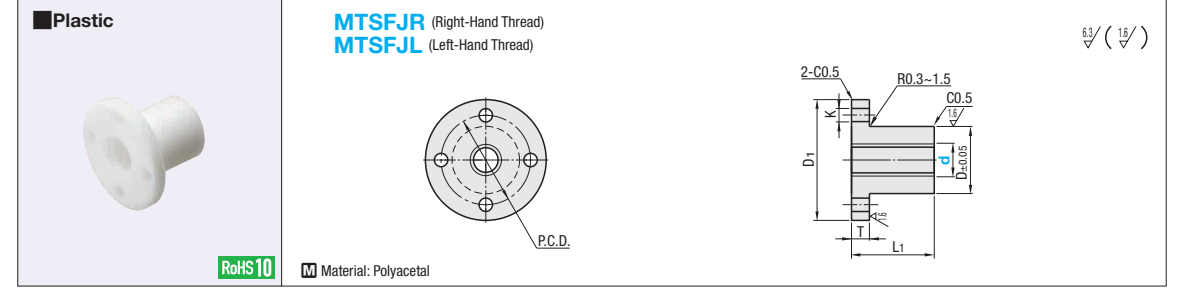


Part Number	Type	d	Pitch P	D	L1	D1	T	P.C.D.	K	Allowable Dynamic Thrust (N)	Mass (g)		Unit Price	
											MTSRR	MTSRN	MTSRR	MTSRN
Round Flanged														
	MTSRR (Right-Hand Thread)	10	2	20	24	36	5	26	4.3	278	19	16		
	MTSRR (Right-Hand Thread)	12	2	22	30	44	5	31	5.4	428	30	24		
	MTSRR (Right-Hand Thread)	14	3	22	30	44	5	31	5.4	536	27	21		
Compact Flanged														
	MTSRN (Right-Hand Thread)	16	3	28	35	51	6	38	6.6	686	46	39		
	MTSRN (Right-Hand Thread)	18	4	32	40	56	6	42	6.6	954	64	54		
	MTSRN (Right-Hand Thread)	20	4	32	40	56	6	42	6.6	1071	61	51		

Ordering Example Part Number **MTSRR20**

Material Properties (Listed values are not guaranteed, but reference values.)

Characteristic	Material	Test Method (ASTM)	Unit	PPS Resin with Sliding Property (PTFE-GF30%)		Polyacetal
				Value	Value	
Specific Gravity		D792	-	1.68		1.41
Water Absorption Ratio (at 23°C in water x24h)		D570	%	0.02		0.22
Combustibility		UL94	-	V-0		HB
Mechanical Properties	Tensile Strength	D638	MPa	135		61
	Elongation	D638	%	2.9		40
	Bending Strength	D790	MPa	180		89
	Flexural Modulus	D790	GPa	10		2.59
	Shear Load Strength	D732	MPa	60		55
Chemical Resistance	Izot Impact Strength	D256	J/m	130		74
	Oil		-	○		○
	Acid		-	○		△~X
	Alkali		-	○		○
	Organic Solvent		-	○		○



Part Number	Type	d	Pitch P	D	L1	D1	T	P.C.D.	K	Allowable Dynamic Thrust (N)	Mass (g)		Unit Price	
											MTSFJR/MTSFJL	MTSFJR/MTSFJL	MTSFJR	MTSFJL
Round Flanged														
	MTSFJR (Right-Hand Thread)	10	2	20	24	36	5	26	4.3	255	16			
	MTSFJR (Right-Hand Thread)	12	2	22	30	44	5	31	5.4	392	25			
	MTSFJR (Right-Hand Thread)	14	3	22	30	44	5	31	5.4	490	23			
	MTSFJR (Right-Hand Thread)	16	3	28	35	51	6	38	6.6	628	39			
Straight														
	MTSFJL (Left-Hand Thread)	18	4	31	40	56	6	42	6.6	873	54			
	MTSFJL (Left-Hand Thread)	20	4	31	40	56	6	42	6.6	980	51			
	MTSFJR (Right-Hand Thread)	*25	5	36	50	61	7	47	6.6	1412	69			
	MTSFJR (Right-Hand Thread)	*28	5	36	50	61	7	47	6.6	1765	124			
	MTSFJR (Right-Hand Thread)	*32	6	44	56	76	8	58	9	2050	112			

Ordering Example Part Number **MTSFJR20**