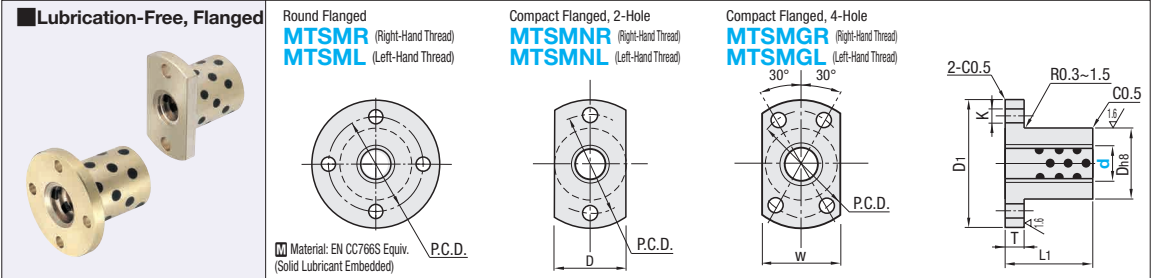


Nuts for Lead Screws

Lubrication-Free, Flanged / Straight

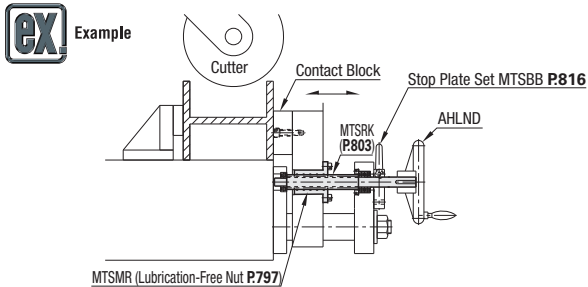
⚠ Lubrication-Free Type reduces the amount and number of times of grease to be applied in comparison to the Standard Type. Initial greasing is recommended for effective use.



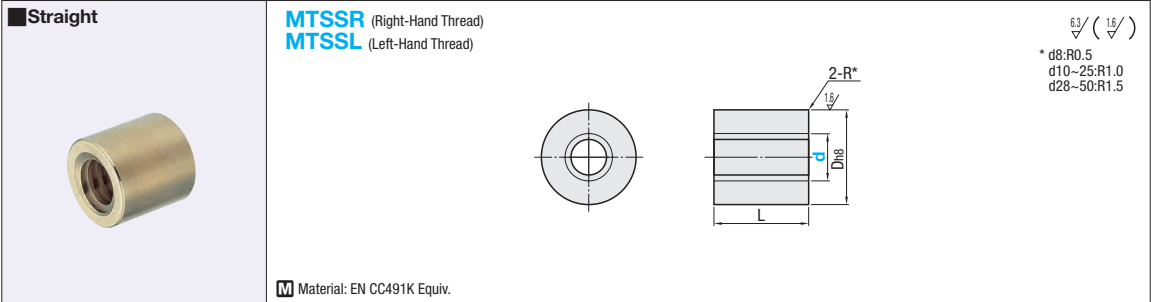
Part Number		Pitch P	D	L1	D1	T	P.C.D.	K	W	Allowable Dynamic Thrust (kN)	Mass (g)			Unit Price		
Type	d										MTSMR MTSML	MTSMNR MTSMNL	MTSMGR MTSMGL	MTSMR MTSML	MTSMNR MTSMNL	MTSMGR MTSMGL
Round Flanged	10	2	20	24	36		26	4.3	22	2.55	80	66	67			
MTSMR (Right-Hand Thread)	12		22	30	44	5	31	5.4	24	3.92	120	95	95			
MTSML (Left-Hand Thread)	14	3	28	35	51		38		30	4.90	110	85	86			
Compact Flanged, 2-Hole	16		32	40	56	6	42		34	6.67	200	169	172			
MTSMNR (Right-Hand Thread)	20	4	36	50	61	7	47		40	9.81	260	219	220			
MTSMNL (Left-Hand Thread)	22		44	56	76	8	58			12.36	410	357	364			
Compact Flanged, 4-Hole	25	5	48	60	84		66			14.22	350	290	297			
MTSMGR (Right-Hand Thread)	*28		52	60	84		66			17.95	630	-	-	-	-	-
MTSMGL (Left-Hand Thread)	*32	6	58	70	98	10	76	11	-	21.08	580	-	-	-	-	-
(⚠ marked sizes are for MTSMR only.)	*36		58	70	98	10	76	11	-	25.78	820	-	-	-	-	-
	*40		58	70	98	10	76	11	-	33.83	1250	-	-	-	-	-

⚠ Features of Lubrication-Free Nut and Data about Abrasion Test ☞ P.799

Ordering Example
Part Number
MTSMNL16



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



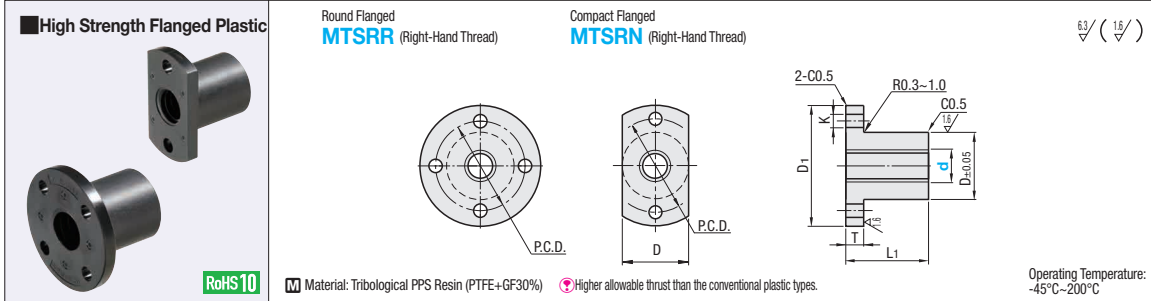
Part Number		Pitch P	D	L	Allowable Dynamic Thrust (kN)	Mass (g)		Unit Price	
Type	d					MTSSR MTSSL		MTSSR	MTSSL
MTSSR MTSSL (⚠ d8 is for MTSSR only)	(8)	1.5	15	20	1.47	22			-
	10	2	20		2.06	40			
	12		22	22	2.84	50			
	14	3	28	26	3.63	50			
	16		32	31	4.90	100			
	18	4	36		6.86	160			
	20		44	45	7.65	150			
	22	5	48		9.90	240			
	25		52	49	11.38	210			
	28	6	58	57	14.42	390			
	32		68	67	17.06	320			
	36	8	84		21.18	530			
	40		98		27.46	720			
	50		125		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.

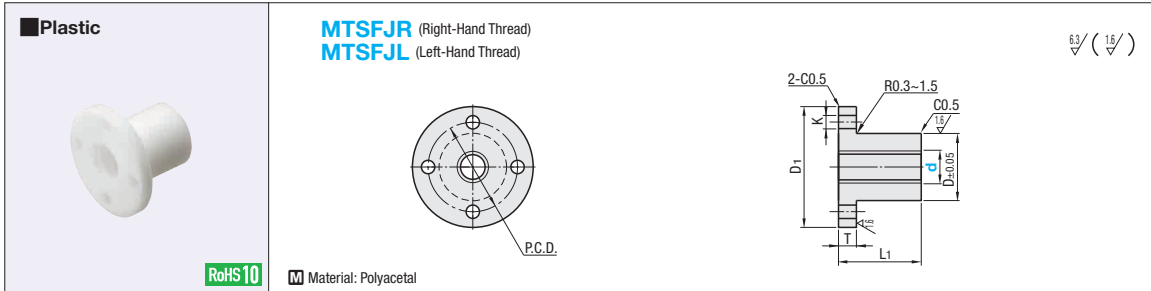


Part Number		Pitch P	D	L1	D1	T	P.C.D.	K	Allowable Dynamic Thrust (N)	Mass (g)		Unit Price	
Type	d									MTSRR	MTSRN	MTSRR	MTSRN
Round Flanged MTSRR (Right-Hand Thread)	10	2	20	24	36	5	26	4.3	278	19	16		
	12		22	30	44		31	5.4	428	30	24		
	14	3	28	35	51	6	38		536	27	21		
Compact Flanged MTSRN (Right-Hand Thread)	16		32	40	56		42	6.6	686	46	39		
	18	4	36	50	61	7	47		954	64	54		
	20		44	56	76		58		1071	61	51		

Ordering Example
Part Number
MTSRR20

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

Material		Test Method (ASTM)	Unit	PPS Resin with Sliding Property (PTFE+GF30%)	Polyacetal
Characteristic				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		Pitch P	D	L1	D1	T	P.C.D.	K	Allowable Dynamic Thrust (N)	Mass (g)		Unit Price	
Type	d									MTSFJR MTSFJL	MTSFJR MTSFJL	MTSFJR MTSFJL	MTSFJR MTSFJL
MTSFJR (Right-Hand Thread)	10	2	20	24	36	5	26	4.3	255	16			
	12		22	30	44		31	5.4	392	25			
	14	3	28	35	51	6	38		490	23			
MTSFJL (Left-Hand Thread)	16		32	40	56		42	6.6	628	39			
	18	4	36	50	61	7	47		873	54			
	20		44	56	76		58		980	51			
(⚠ marked sizes are for MTSFJR only.)	*25	5	48	60	84	8	58	9	1412	69			
	*28		52	68	98				1765	124			
	*32	6	60	72	108	9			2050	112			

Ordering Example
Part Number
MTSFJR20