Nuts for Lead Screws

High Strength Plastic / Plastic

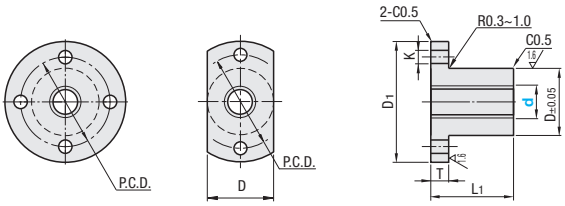
High Strength Flanged Plastic has good mechanical properties and chemical resistance and is available for reduced price compared with Standard Plastic Type.

High Strength Flanged Plastic

RoHS10

Round Flanged **MTSRR** (Right-Hand Thread)

Compact Flanged **MTSRN** (Right-Hand Thread)



Material: Tribological PPS Resin (PTFE+GF30%)

Higher allowable thrust than the conventional plastic types.

Operating Temperature: -45°C~200°C

Part Number Type	d	Pitch P	D	L1	D1	T	P.C.D.	K	Allowable Dynamic Thrust (N)	Mass (g) MTSRR	Mass (g) MTSRN	Unit Price MTSRR	Unit Price MTSRN
Round Flanged MTSRR (Right-Hand Thread) / Compact Flanged MTSRN (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							536	27	21		
	16		28	35	51	6	38	6.6	686	46	39		
	18	4	32	40	56		42		954	64	54		
	20								1071	61	51		

Ordering Example

Part Number

MTSRR20

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

Material / Characteristic		Test Method (ASTM)	Unit	PPS Resin with Sliding Property (PTFE+GF30%)	Polyacetal
				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
	Izot Impact Strength	D256	J/m	130	74
Chemical Resistance	Oil	-		◎	○
	Acid	-		◎	△~×
	Alkali	-		◎	○
	Organic Solvent	-		◎	○

Plastic

RoHS10

MTSFJR (Right-Hand Thread)

MTSFJL (Left-Hand Thread)

Material: Polyacetal

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

Ordering Example

Part Number

MTSFJR20