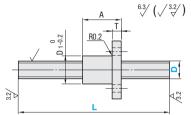
Miniature Slide Screws / Nuts

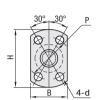
Straight



Tim		MMaterial						
Тур	е	Shaft	Nut					
MSSR	Right-Hand Thread	SUS304	Cassial Basia					
MSSRN	Nut only	-	Special Resin					
	l-	A	6.3∕ (√3.2					

MSSR includes a shaft and a nut; MSSRN includes a nut only.

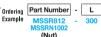




Part Number		L	Number of	Plastic Nut Dimension							Allowable Axial	Allowable Rotational	Tightening Torque	Mass	Unit Price MSSR					
Туре	D	Lead	1mm Increment	Starts	D ₁	Н	Α	Т	В	Р	d		Speed rpm (Reference)	N-mm		Min.L~100	L101~200	L201~300	L301~400	L401~550
	4	01	30~150	1 10	10	23	11.5	3.5	15	15	2.9	50	2500	180	11(3)			-	-	-
		02	30~150		10							60			11(3)			-	-	-
	6	01		1	10	26	14.5	3.5	17	7 18	3.4	120	2000	400	23(3)				-	-
		02	30~250									60			25(3)				-	-
		09		4 12	12							90			25(3)	1			-	-
		18										110			25(3)				-	-
MSSR	8	01	40~250	1			18	4	18	8 21	3.4	200	2000	400	42(5)				-	-
		02	40~250		14	29						290			38(5)				-	-
MSSRN		12	40~350	4		29						210			40(5)					-
(Nut)		24	40~330	6								210			41(4)					-
	10	02	50~250	1	-	33	22	5	21	1 24	4.5	460	1500	500	59(6)				-	-
		15	50~500	4								410			58(6)					
		30	30~300	6								440			56(6)					
	12	02	50~250	1	1		25	5	22	26	4.5	660		500	86(8)				-	-
		18	50~550	6	18	35						750	1000		86(8)					
		36		0								540			87(7)					

💎 The tightening toque applies to the screw for mounting the plastic nut. 🖲 Note that positioning repeatability changes when nut is exchanged for maintenance. 🖲 The dimension in () of mass table is nut mass.







Features

Slide screw's nut is made of special resin composed of PPS as base material and solid lubricant (fluorine, for example) filled to increase sliding properties.

The material is superior to polypropylene, nylon, and polyacetal in tribological properties, heat resistance and moisture absorbing characteristics. Quieter in comparison to ball screws, and lighter in motion with lower torque compared to lead screws.

Material Properties of Nuts

Item	Testing Method	Unit	Value		
Base Material	-	-	PPS		
Specific Gravity	ASTM D792	-	1.53		
Tensile Strength	ASTM D638	MPa	51		
Hardness	-	Rockwell R	110		
Elongation	ASTM D638	%	3		
Water Absorption Ratio	ASTM D570	%	0.05		
Critical Temperature	-	°C	140		

Caution

- ①Positioning repeatability is changed by wear due to usage and exchange of parts during maintenance.
- ②Do not use molybdenum and silicone based greases due to its negative impact to the nuts. Do not use it due to its negative impact to the nuts.
- ③Sliding properties are based on 25°C. It may vary depending on temperature.
- The nuts are made of PPS base material; they may be "cracked" or "deformed" due to shocks or excessive tightening.

Initial Accumulative Lead Error ±0.21/300mm (Reference Temperature 25°C)

· Bending Accuracy: 0.16 or less

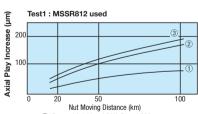
Rend Measurement Method

Lead is the travel distance of one revolution. Lead 01····Travel Distance/Rev. : 1mm

Lead 24····Travel Distance/Rev. : 24mm

The screw shaft is supported on both ends with V-blocks and the measurements are taken with a dial indicator at arbitrary points while the shaft is rotated.

Wear Data (Reference Values)



- ①: Dry and Axial Load 50N, Speed 500rpm ②: Dry and Axial Load 100N, Speed 500rpm ③: Dry and Axial Load 200N, Speed 500rpm



- : Dry and Axial Load 200N, Speed 500rpm : Dry and Axial Load 200N, Speed 1000rpm : Dry and Axial Load 200N, Speed 2000rpm