

Lead Screw

One End Stepped / One End Double Stepped

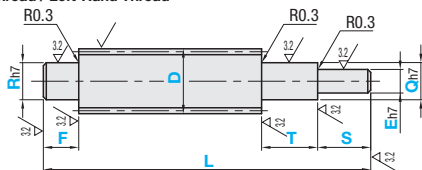
Lead screws that are easy to combine with MISUMI Support Units in P.791~792.



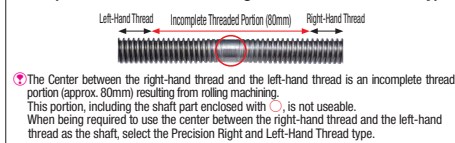
Type				Material	Surface Treatment
Right-Hand Thread	Left-Hand Thread	Right and Left-Hand Thread	Precision Right and Left-Hand Thread		
MTSRK	MTSLK	MTSWKA/B	MTSYKA/B	S45C	Black Oxide Low Temperature Black Chrome Plating
MTSBRK	MTSBLK	MTSBWKA/B	MTSBLK/B		
RMTSRK	RMTSLK	RMTSWKA/B	-		
MTSTRK	MTSTLK	-	-	SUS303	-

Single Pitch Error ... ±0.02mm · Accumulated Pitch Error ... ±0.15/300mm
 Type A or B are available for Right and Left-Hand Thread and Precision Right and Left-Hand Thread.

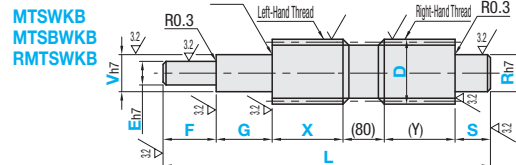
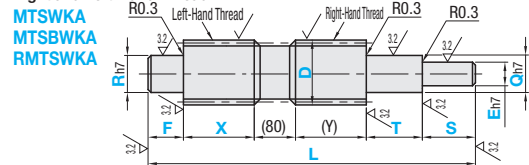
Right-Hand Thread / Left-Hand Thread



Incomplete Threaded Portion of Right and Left-Hand Thread Type

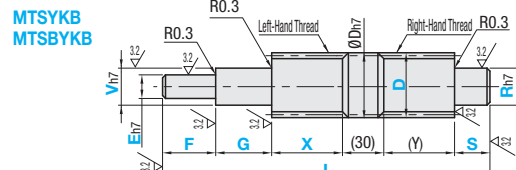
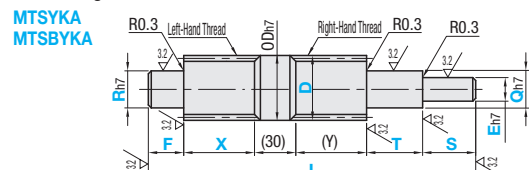


Right and Left-Hand Thread



Incomplete threaded portion near the center (80mm) is not useable.

Precision Right and Left-Hand Thread



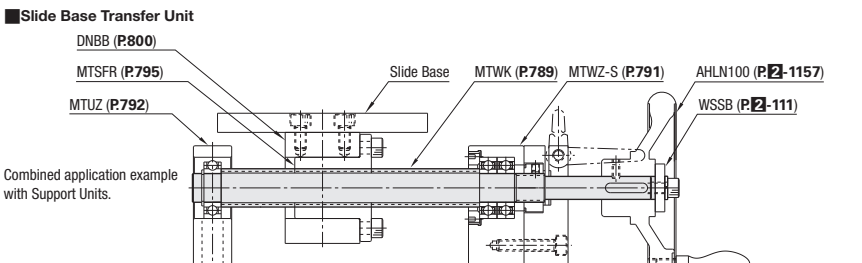
ØDh7-30mm part includes incomplete thread portion by about 1.5 pitches at both ends (in total about 3 pitches).

Part Number	Type	1mm Increment		V / Q / R	E 1mm Increment	Right and Left-Hand Thread / Precision Right and Left-Hand Thread		D	Pitch P
		L	F, G, T, S			X 1mm Increment			
(Right-Hand Thread) MTSRK MTSBRK RMTSRK MTSTRK (Stainless Steel)	D≤32, L≤1000	12 14 16	80~1000	7 8 9 8 9 10 9 10 12				12 14 16	2 3
(Left-Hand Thread) MTSLK MTSBLK RMTSLK MTSTLK (Stainless Steel)	D≤32, L≤1000	20 22 25	150~1200	10 12 14 15 10 12 14 15 12 14 15 16 17	Q/2±Es-Q-1 V/2±Es-V-1			20 22 25	4 5
(Right and Left-Hand Thread) MTSWKA/B MTSBWKA/B RMTSWKA/B (Precision Right and Left-Hand Thread) MTSYKA/B MTSBYKA/B	D≤32, L≤1000	32 38 40 50	200~1200	14 15 16 17 20 14 15 16 17 20 25 20 25 30 25 30 35 40		When D=12, 14 50≤X≤460<485>-F-G (Y)=L-80<30>-F-G-S-T-X (Y)≤500-S-T-40<15> When D=16 ~ 50 50≤X≤560<585>-F-G (Y)=L-80<30>-F-G-S-T-X (Y)≤600-S-T-40<15> Dimensions in <> are for Precision Right and Left-Hand Thread.		32 38 40 50	6 8

For Precision Right and Left-Hand Thread, D dimension 14, 16, 20, 25, 28 and 32 are available. When combined with the position indicators, Q and V standard dimensions will be 8 ~ 20. P.811, 812
 D dimension 22, 36, 40 and 50 are not applicable to Stainless Steel. D dimension 25, 28 and 32 are applicable to Right-Hand Thread only.

Example

MTUZ	Lead Screw Support Unit - Support Side
MTSFR	Lead Screw Nut - Flanged
DNBB	Nut Bracket for Lead Screw
MTWK	Lead Screw - For Support Units
MTWZ-S	Lead Screw Support Units Stop Plate Set
AHLN100	Five Spoked Handwheel
WSSB	Metal Washer



When considering adopting support units in combination either with Right-Hand Thread type or Left-Hand Thread type lead screws, ordering of Lead Screws - For Lead Screw Support Unit Type in P.789 is recommended.

Ordering Example

Part Number	-	L	-	F	-	R	-	T	-	Q	-	S	-	E	-	X
MTSRK16	-	456	-	F37	-	R10	-	T20	-	Q12	-	S10	-	E9	-	X10
MTSWKA16	-	456	-	F37	-	R10	-	T20	-	Q12	-	S10	-	E9	-	X10
Part Number	-	L	-	F	-	E	-	G	-	V	-	S	-	R	-	X
MTSBWKB20	-	582	-	F10	-	E10	-	G15	-	V12	-	S25	-	R15	-	X200

Unit price for the product is price in the table multiplied by price multiplier.
 Price in the table x Price Multiplier = Unit Price

Right-Hand Thread / Left-Hand Thread

Part Number	Type	Unit Price					
		D	Min. L - 200	L201-400	L401-600	L601-800	L801-1000
MTSRK Price in the Table	12						
	14						
	16						
	18						
MTSBRK Price in the Table x1.1	20						
	22						
	25						
	32						
MTSLK Price in the Table x1.02	28						
	32						
	36						
	40						
MTSBLK Price in the Table x1.12	40						
	50						

Right and Left-Hand Thread

Part Number	Type	Unit Price					
		D	Min. L - 200	L201-400	L401-600	L601-800	L801-1000
MTSWKA/B Price in the Table	12						
	14						
	16						
	18						
MTSBWKA/B Price in the Table x1.12	20						
	22						
	25						
	28						
	32						
	36						
	40						
	50						

Right-Hand Thread / Left-Hand Thread, Stainless Steel

Part Number	Type	Unit Price					
		D	Min. L - 200	L201-400	L401-600	L601-800	L801-1000
MTSTRK MTSTLK	12						
	14						
	16						
	18						
MTSTRK	20						
	25						
	28						
	32						

Low Temperature Black Chrome Plated Products - Right-Hand Thread / Left-Hand Thread

Part Number	Type	Unit Price				
		D	Min. L - 200	L201-400	L401-600	L601-800
RMTSRK (Price of MTSRK + Price in the Table)	12					
	14					
	16					
	18					
RMTSLK (Price of MTSLK + Price in the Table)	20					
	22					
	25					
	28					
RMTSWKA/B (Price of MTSWK + Price in the Table)	32					
	36					
	40					
	50					

For low temperature black chrome plated products, add the price of low temperature black chrome plating shown above to the non-plated product prices.

Precision Right and Left-Hand Thread

Part Number	Type	Unit Price					
		D	Min. L - 200	L201-400	L401-600	L601-800	L801-1000
MTSYKA/B Price in the Table	14						
	16						
	20						
	25						
MTSBYKA/B Price in the Table x1.1	28						
	32						
	36						
	40						

Alterations

Part Number	-	L	-	F	-	R	-	T	-	Q	-	S	-	E	-	X
MTSRK16	-	456	-	F37	-	R10	-	T20	-	Q12	-	S10	-	E9	-	MR4

Alterations	Code	Spec.	Flat Machining	Retaining Ring Groove	Wrench Flats	Coarse Tapping	Threaded	Square Chamfering	Keyway							
			FE (E part)	FR (R part)	AR (R part)	AE (E part)	SE (E part)	SR (R part)	MR (R part)	ME (E part)	BQ (Q part)	BV (V part)	BR (R part)	ZE (E part)	ZR (R part)	KQ (Q part)
			FE, FR, FW, FY = 0.5mm Increment FE=Applied on E part FR=Applied on R part Ordering Code: FRS-FW10-FY1	AR, AE=0.1mm Increment AR(AE)≤S(F)+T(G)-m-n For the m, n value, see the table below. (For the m value, consider the tolerance.) Ordering Code: AE13.3 AR=Applied on R part AE=Applied on E part R-E e Tolerance	SE, SW, SY = 1mm Increment SE=Applied on E part SR=Applied on R part Ordering Code: SE3-SW10-SY7	MR=Applied on R part ME=Applied on E part Ordering Code: MR24 R, E ME, MR (Selection Range)	⊗ Cannot be applied when Q, V, R = 7, 9, 16. ⊗ BQ, BV, BR = Mx3 ⊗ BQ, BV, BR = Pitchx3 ⊗ BQ, BV, BR = F-S, T-G-Pitchx3 BQ=Applied on Q part BV=Applied on V part BR=Applied on R part	WA = mm Increment ZE=Applied on E part ZR=Applied on R part Ordering Code: ZE12-W10-A8 ⊗ Applicable to only one of either E or R ⊗ Can be combined with Tapped Hole machining only on the same shaft. (See P.787 for machining conditions.)	KQ, KV, KR (C=0.1mm Increment) ⊗ C=60 KQ=Applied on Q part KV=Applied on V part KR=Applied on R part ⊗ When KQ, KV, KR=2, be eliminated on the shaft end side. ⊗ Applicable to only one of Q, V, E, or R ⊗ Specify the C dimension not to be below b.							

Specify an alteration position to be 2mm or more away from the stepped part. (For details, see P.787)
 Do not specify multiple alterations in such a way that they overlap with each other in the rotating direction on the same shaft. (For details, see P.787)
 When flat machining, wrench flats, square chamfering and keyway alterations are combined with each other, their orientations will be random. (For details, see P.787)
 When adding multiple alterations, there must be 2mm or more clearance between each feature. (For details, see P.787)