

Lead Screws

Straight

Lead Screws – Straight

RoHS 10

Type			Material	Surface Treatment
Right-Hand Screw	Left-Hand Screw	Right and Left-Hand Screw		
MTSR	MTSL	MTSW	1045 Carbon Steel Equivalent	—
MTSBR	MTSBL	MTSBW		Black Oxide
MTSRL Long Size	MTSLL Long Size	—		—
MTSTR	MTSTL	—	303 Stainless Steel	—

Incomplete Threaded Portion of Right and Left-Hand Thread Type

ⓘ The center between the right-hand thread and the left-hand thread is an incomplete thread portion (approx. 80 mm resulting from rolling machining). This portion, including the shaft part enclosed with ○, is not usable.

Right-Hand Screw / Left-Hand Screw / Fine Thread Right-Hand Screw

ⓘ L Dimension Tolerance of MTSRL and MTSLL: 0→+5

Right & Left-Hand Screw

ⓘ Incomplete threaded portion near the center (80mm) is not useable.
ⓘ X=Y for Right and Left-Hand Screw.

Right-Hand Screw, Left-Hand Screw, Right & Left-Hand Screw

Part Number		MTS#, MTST#, MTSB#	MTSRL, MTSLL	MTSW, MTSBW	(X)(Y)	Pitch P	
Type	D	L 1 mm Increment	L 100 mm Increment	L 1 mm Increment			
Right-Hand Screw MTSR MTSBR MTSRL (Long Size) MTSTR (Stainless Steel)	8	50-500	—	—	When D=10-14 50≤(X)≤460 When D=16-50 50≤(X)≤560 (X)=(Y) (X)=(L-80)/2 (Y)=(L-80)/2	1.5	
	10	80-1000	—	130-1000		2	
	12					3	
	14					4	
Left-Hand Screw MTSL MTSBL MTSLL (Long Size) MTSTL (Stainless Steel)	16	100-1200	800-2000	130-1200		5	5
	18	150-1200	800-2000	150-1200		6	
	20					8	
	22					8	
Right & Left-Hand Screw MTSW MTSBW	25	200-1200	800-2000	200-1200	6		
	28				8		
	32				8		
	36				8		

- ⓘ D dimension 22, 36, 40 and 50 are not applicable to Stainless Steel. D dimension 25, 28 and 32 are applicable to Right-Hand Screw only.
- ⓘ Both ends of MTSRL and MTSLL have not been processed. Additional machining (chamfering, processing of the shaft ends, etc.) is required for use.
- ⓘ D8 is available for MTSR and MTSBR only.

Lead Screws

Straight, continued

Part Number Example

Part Number - L
 MTSL25 - 480
 MTSRL32 - 1800

Part Number Alterations

Part Number - L - (MC, MQ)
 MTSR20 - 456 - MC8

Alterations

Tapping

Code

MC (Left End) MQ (Right End)

Spec.

ⓘ Not applicable to MTSRL and MTSLL
 Ordering Code: MC24
 MC: machined on the left end, MQ: machined on the right end

D	MC / MQ Selection Range
8	3, 4
10	3, 4, 5
12, 14	3, 4, 5, 6
16	3, 4, 5, 6, 8
18	3, 4, 5, 6, 8, 10
20, 22	3, 4, 5, 6, 8, 10, 12
25, 28	3, 4, 5, 6, 8, 10, 12, 16
32	3, 4, 5, 6, 8, 10, 12, 16, 20
36, 40, 50	3, 4, 5, 6, 8, 10, 12, 16, 20, 24

Right-Hand Thread / Left-Hand Screw

Part Number	Available Types						
	Type	D	Min. L-200	L201-400	L401-600	L601-800	L801-1000
MTSR MTSBR MTSL MTSBL	8	—	—	—	•	•	•
	10	—	—	—	—	—	•
	12	—	—	—	—	—	•
	14	—	—	—	—	—	•

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

Part Number	Available Types						
	Type	D	Min. L-200	L201-400	L401-600	L601-800	L801-1000
MTSTR MTSTL	10	—	—	—	—	—	•
	12	—	—	—	—	—	•
	14	—	—	—	—	—	•

Right and Left-Hand Screw

Part Number	Available Types						
	Type	D	Min. L-200	L201-400	L401-600	L601-800	L801-1000
MTSW MTSBW	10	—	—	—	—	—	•
	12	—	—	—	—	—	•
	14	—	—	—	—	—	•