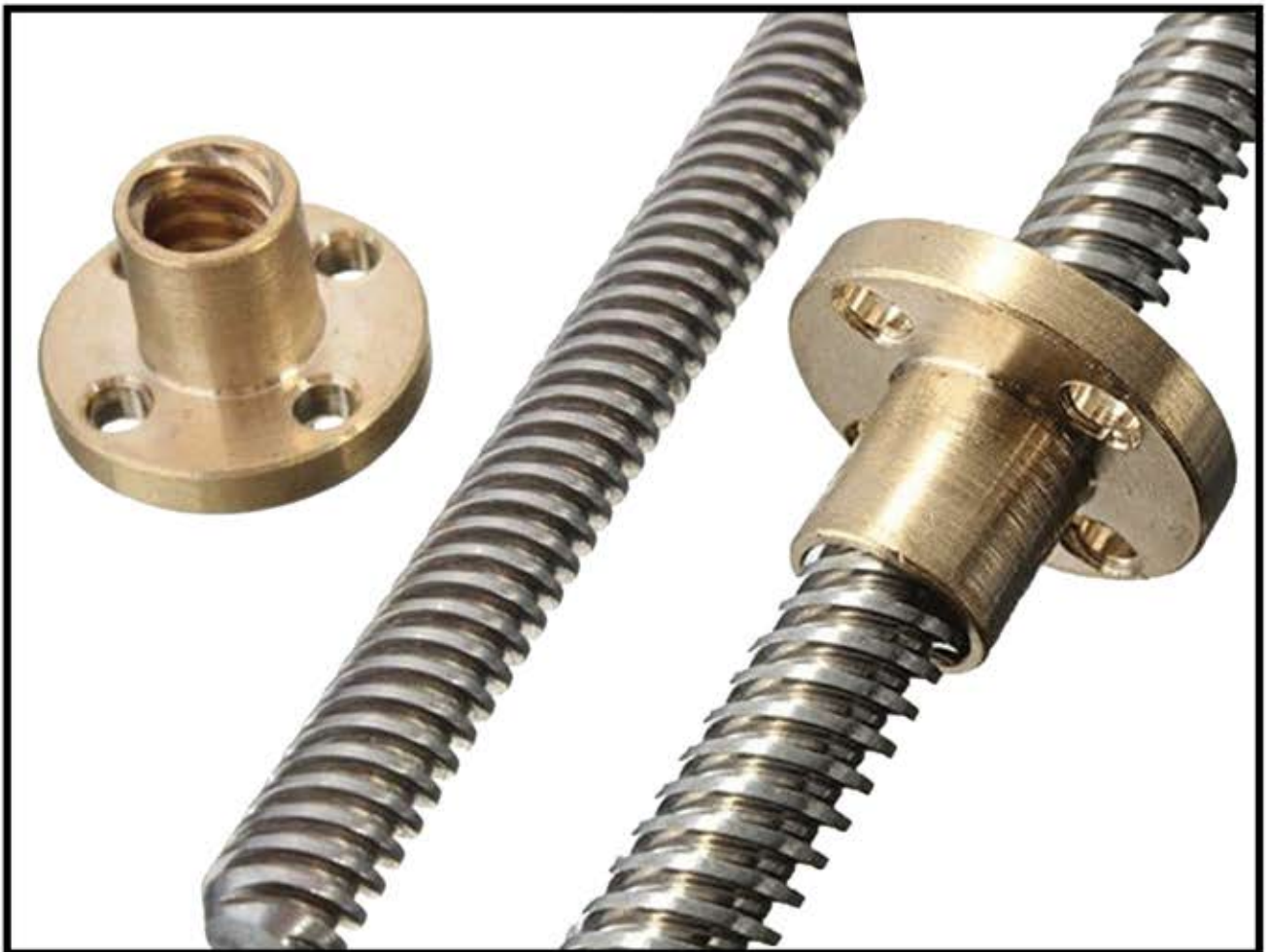


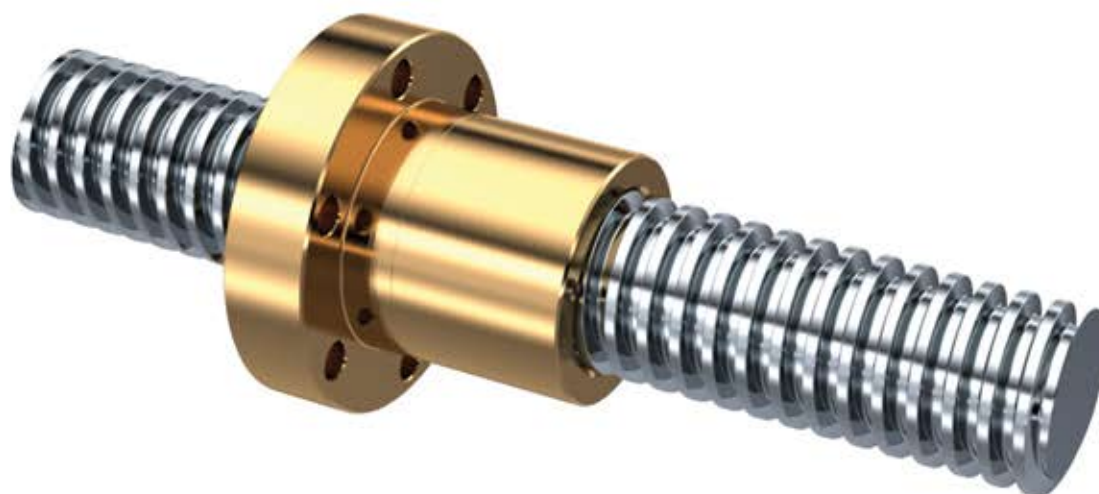


*Quality Uncompromised*

# Lead Screws



# LEADSCREWS



## FEATURES TRAPEZOIDAL SCREWS AND NUTS

Trapezoidal screws are precision rolled. Continuous search for improvement and many years of experience in the development of the cold plastic deformation process which characterizes rolling allow us to offer our customers trapezoidal screws with excellent features.

### MATERIALS

Steel used in trapezoidal screws		After Rolling
C15E - 1.1141 EN 10084 - C15E	Carbon Steel	160/180 HB
1C45 - 1.0503 EN 10083 - 1C45	Carbon Steel	App. 250 HB
A2 - 1.4301 - X5CrNi18-10 EN 10088	Stainless steel	App. 260 HB
A4 - AISI 316 1.4401 X5CrNiMo17-12-2 EN 10088	Stainless steel	App. 280 Hb

C45 and A2 stainless steel were chosen because in addition to their natural qualities as good construction materials, after rolling they give very good surface hardness and finish on the thread sides. A4 stainless steel also has excellent corrosion resistance. C15 is an excellent quality - price compromise. After rolling, the C15 has surface hardness of approximately 160/180 HB, C45 approximately 250 HB, A2 Stainless approximately 260 HB and A4 stainless approximately 280 HB while roughness is less than 1 m Ra for all.

These two features are decisive factors for qualitative appraisal of trapezoidal screws because they give very

small friction coefficients, much lower than those obtainable with machined screws where other conditions such as speed, load and lubrication are equal. Our trapezoidal screws with bronze nuts give traversing systems with efficiency, and quietness compared with coupling with machined screws because of the low friction coefficient the amount of heat generated during movement is limited with resulting smaller nut heating. Nut life is also increased. We make nuts with 10 kinds of material to better meet the various requirements.

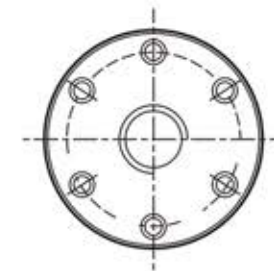
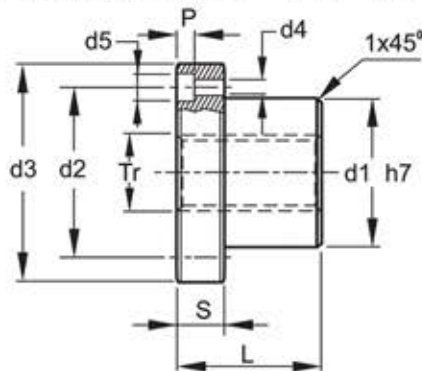
# LEADSCREWS

## TRAPEZOIDAL SCREW TYPE KQX LEAD ACCURACY 200 - STEEL C15 1. 1141

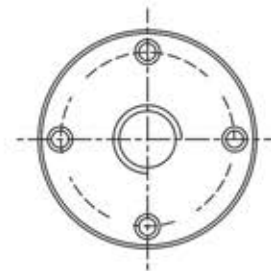
Stock no. for screw RIGHT	Stock no. for screw LEFT	Diameter x Lead	Thread starts	Lead accuracy $\mu\text{m} / 300 \text{ mm}$	Straightness mm / mm	Weight kg / mt
KQX 10 A R	KQX 10 A L	Tr 10x3	1	200	0.7 / 1000	0.42
KQX 12 A R	KQX 12 A L	Tr 12x3				0.65
KQX 12 B R	--	Tr 12x6 (P3)	2			0.86
KQX 14 A R	KQX 14 A L	Tr 14x4	1		0.7 / 1500	1.17
KQX 16 A R	KQX 16 A L	Tr 16x4	2			1.53
KQX 16 B R	--	Tr 16x8 (P4)	1		0.6 / 2000	1.94
KQX 18 A R	KQX 18 A L	Tr 18x4	2			1.84
KQX 20 A R	KQX 20 A L	Tr 20x4	4			2.29
KQX 20 B R	--	Tr 20x8 (P4)	1		0.4 / 2000	2.79
KQX 20 D R	--	Tr 20x20 (P5)	2			3.05
KQX 22 A R	KQX 22 A L	Tr 22x5	5			3.33
KQX 24 A R	KQX 24 A L	Tr 24x5	1		0.4 / 3000	3.92
KQX 25 A R	KQX 25 A L	Tr 25x5	2			4.38
KQX 25 B R	--	Tr 25x10 (P5)	1			4.57
KQX 25 E R	--	Tr 25x25 (P5)	2		0.3 / 3000	5.06
KQX 26 A R	KQX 26 A L	Tr 26x5	1			6.16
KQX 28 A R	KQX 28 A L	Tr 28x5	2			6.56
KQX 28 B R	--	Tr 28x10 (P5)	1		8.03	7.90
KQX 30 A R	KQX 30 A L	Tr 30x6	2			9.90
KQX 30 B R	--	Tr 30x12 (P6)	5			10.23
KQX 30 F R	--	Tr 30x30 (P5)	1	12.90	15.51	
KQX 32 A R	KQX 32 A L	Tr 32x6	2		18.74	
KQX 35 A R	KQX 35 A L	Tr 35x6	5		25.80	
KQX 36 A R	KQX 36 A L	Tr 36x6	1	34.39	34.39	
KQX 40 A R	KQX 40 A L	Tr 40x7	2			
KQX 40 B R	--	Tr 40x14 (P7)	5			
KQX 40 E R	--	Tr 40x40 (P8)	1			
KQX 44 A R	KQX 44 A L	Tr 44x7	1			
KQX 45 A R	KQX 45 A L	Tr 45x8	1			
KQX 50 A R	KQX 50 A L	Tr 50x8	1			
KQX 55 A R	--	Tr 55x9	1			
KQX 60 A R	KQX 60 A L	Tr 60x9	1			
KQX 70 A R	--	Tr 70x10	1			
KQX 80 A R	--	Tr 80x10	1			

# LEADSCREWS

## TRAPEZOIDAL NUT TYPE FTN-FLANGED BRONZE



From Tr 24x5 to Tr 60x9  
6 holes



From Tr 10x3 to Tr 22x5  
4 holes

Nut stock no. RIGHT	Nut stock no. LEFT	Diameter x Lead	Thread starts	d1	d2	d3	d4	d5	P	L	S	no. screw holes	Fastening screw holes	Wt. kg/cad.	At mm <sup>2</sup> (1)
FTN 10 A R	FTN 10 A L	Tr 10x3	1	18	26	37	4.5	7.5	4.2	22	8	4	M4	0.088	294
FTN 12 A R	FTN 12 A L	Tr 12x3												0.082	362
FTN 14 A R	FTN 14 A L	Tr 14x4												0.123	470
FTN 16 A R	FTN 16 A L	Tr 16x4												0.149	660
FTN 18 A R	FTN 18 A L	Tr 18x4		0.188	880										
FTN 20 A R	FTN 20 A L	Tr 20x4													
FTN 22 A R	FTN 22 A L	Tr 22x5		0.267	1130										
FTN 25 A R	FTN 25 A L	Tr 25x5													
FTN 28 A R	FTN 28 A L	Tr 28x5		0.247	1225										
FTN 30 R R	FTN 30 R L	Tr 30x3													
FTN 30 Q R	FTN 30 Q L	Tr 30x4		0.393	1590										
FTN 30 P R	FTN 30 P L	Tr 30x5													
FTN 30 A R	FTN 30 A L	Tr 30x6		0.532	2000										
FTN 35 R R	FTN 35 R L	Tr 35x3													
FTN 35 Q R	FTN 35 Q L	Tr 35x4		0.482	2238										
FTN 35 P R	FTN 35 P L	Tr 35x5													
FTN 35 A R	FTN 35 A L	Tr 35x6		0.487	2200										
FTN 35 M R	-	Tr 35x8													
FTN 40 R R	FTN 40 R L	Tr 40x3		0.492	2160										
FTN 40 Q R	FTN 40 Q L	Tr 40x4													
FTN 40 P R	FTN 40 P L	Tr 40x5		0.497	2120										
FTN 40 O R	FTN 40 O L	Tr 40x6													
FTN 40 A R	FTN 40 A L	Tr 40x7		0.862	3160										
FTN 40 M R	-	Tr 40x8													
FTN 45 A R	FTN 45 A L	Tr 45x8		0.869	3110										
FTN 50 R R	FTN 50 R L	Tr 50x3													
FTN 50 Q R	FTN 50 Q L	Tr 50x4		0.876	3060										
FTN 50 P R	FTN 50 P L	Tr 50x5													
FTN 50 O R	FTN 50 O L	Tr 50x6	0.883	3015											
FTN 50 A R	FTN 50 A L	Tr 50x8													
FTN 55 A R	-	Tr 55x9	0.898	2920											
FTN 60 O R	FTN 60 O L	Tr 60x6													
FTN 60 N R	FTN 60 N L	Tr 60x7	1.030	3930											
FTN 60 A R	FTN 60 A L	Tr 60x9													
			0.898	2920											
			1.030	3930											
			1.039	3880											
			1.048	3828											
			1.057	3778											
			1.066	3727											
			1.075	3675											
			0.999	4186											
			1.679	6095											
			1.693	6030											
			1.707	5970											
			1.721	5905											
			1.749	5780											
			1.475	6345											
			2.865	8950											
			2.886	8875											
			2.927	8718											

(1) Total bearing surface between screw and nut teeth on plan perpendicular to axis.

Note: These Nuts can be supplied which are manufactured indigenously.