


















TRAPEZOIDAL NUTS

Single start	MLF page 33 Steel 11SMnPb37		MZP page 33 Steel 11SMnPb37		HDA page 35 Stainless Steel Aisi 303 1.4305		HSN page 34 Bronze CuSn5Zn5Pb5-C		HBD page 34 Bronze CuSn7Zn4Pb7-C		HBM page 35 Bronze CuSn12-C	
												
THREAD	RH	LH	RH	LH	RH	LH	RH	LH	RH	LH	RH	LH
Tr 8 x 1,5												
Tr 10 x 2			■	■					■	■		
Tr 10 x 3			■	■					■	■	■	■
Tr 12 x 3	■	■	■	■	■	■	■	■	■	■	■	■
Tr 14 x 3			■	■					■	■		
Tr 14 x 4	■	■	■	■	■	■	■	■	■	■	■	■
Tr 16 x 4	■	■	■	■	■	■	■	■	■	■	■	■
Tr 18 x 4	■	■	■	■	■	■	■	■	■	■	■	■
Tr 20 x 4	■	■	■	■	■	■	■	■	■	■	■	■
Tr 22 x 5	■	■	■	■			■	■	■	■		
Tr 24 x 5			■	■	■	■			■	■		
Tr 25 x 3												
Tr 25 x 5	■	■					■	■			■	■
Tr 26 x 5			■	■					■	■		
Tr 28 x 5	■	■	■	■			■	■	■	■		
Tr 30 x 3												
Tr 30 x 4												
Tr 30 x 5												
Tr 30 x 6	■	■	■	■	■	■	■	■	■	■	■	■
Tr 32 x 6			■	■					■	■		
Tr 35 x 3												
Tr 35 x 4												
Tr 35 x 5												
Tr 35 x 6	■	■					■	■			■	■
Tr 35 x 8												
Tr 36 x 6			■	■	■	■			■	■	■	■
Tr 40 x 3												
Tr 40 x 4												
Tr 40 x 5												
Tr 40 x 6												
Tr 40 x 7	■	■	■	■	■	■	■	■	■	■	■	■
Tr 40 x 8												
Tr 40 x 10												
Tr 44 x 7			■	■					■	■		
Tr 45 x 8	■	■					■	■			■	■
Tr 50 x 3												
Tr 50 x 4												
Tr 50 x 5												
Tr 50 x 6												
Tr 50 x 8	■	■	■	■	■	■	■	■	■	■	■	■
Tr 50 x 10												
Tr 55 x 9	■						■				■	
Tr 60 x 6												
Tr 60 x 7												
Tr 60 x 9	■	■	■	■			■	■	■	■	■	■
Tr 70 x 10			■	■					■	■	■	■
Tr 80 x 10			■	■					■	■	■	■
Tr 90 x 12												
Tr 95 x 16												
Tr 100 x 12												
Tr 100 x 16												
Tr 120 x 14												
Tr 140 x 14												













■ = Goods in stock

SINGLE START

Single start	BIG page 36 Bronze CuSn12-C		CQA page 37 Steel 11SMnPb37		QOB page 37 Brass CW614N-M		CQF page 38 Steel 11SMnPb37		QBF page 39 Bronze CuSn12-C	
										
THREAD	RH	LH	RH	LH	RH	LH	RH	LH	RH	LH
Tr 8 x 1,5										
Tr 10 x 2			■	■						
Tr 10 x 3					■	■				
Tr 12 x 3			■	■	■	■	■	■		
Tr 14 x 3			■	■						
Tr 14 x 4			■	■	■	■	■	■		
Tr 16 x 4			■	■	■	■	■	■	■	■
Tr 18 x 4			■	■	■	■	■	■		
Tr 20 x 4	■	■	■	■	■	■	■	■	■	■
Tr 22 x 5										
Tr 24 x 5										
Tr 25 x 3										
Tr 25 x 5	■	■	■	■	■	■	■	■	■	■
Tr 26 x 5										
Tr 28 x 5										
Tr 30 x 3	■	■								
Tr 30 x 4	■	■								
Tr 30 x 5	■	■								
Tr 30 x 6	■	■	■	■	■	■	■	■	■	■
Tr 32 x 6										
Tr 35 x 3	■	■								
Tr 35 x 4	■	■								
Tr 35 x 5	■	■								
Tr 35 x 6	■	■	■	■	■	■	■	■		
Tr 35 x 8										
Tr 36 x 6			■	■	■	■				
Tr 40 x 3	■	■								
Tr 40 x 4	■	■								
Tr 40 x 5	■	■								
Tr 40 x 6	■	■								
Tr 40 x 7	■	■	■	■	■	■	■	■	■	■
Tr 40 x 8										
Tr 40 x 10	■									
Tr 44 x 7										
Tr 45 x 8										
Tr 50 x 3	■	■								
Tr 50 x 4	■	■								
Tr 50 x 5	■	■								
Tr 50 x 6	■	■								
Tr 50 x 8	■	■	■	■			■	■		
Tr 50 x 10	■									
Tr 55 x 9										
Tr 60 x 6	■									
Tr 60 x 7	■									
Tr 60 x 9	■		■	■			■	■		
Tr 70 x 10										
Tr 80 x 10										
Tr 90 x 12										
Tr 95 x 16										
Tr 100 x 12										
Tr 100 x 16										
Tr 120 x 14										
Tr 140 x 14										






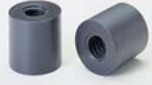
■ = Goods in stock

TRAPEZOIDAL NUTS

Single start	FTN page 40 Bronze CuSn5Zn5Pb5-C		FXN page 41 Bronze CuSn12-C		FMT page 42 Bronze CuSn12-C		HDL page 43 Bronze CuSn12-C		CBC page 44 Bronze CuSn12-C		FFR page 45 Bronze CuSn5Zn5Pb5-C	
												
THREAD	RH	LH	RH	LH	RH	LH	RH	LH	RH	LH	RH	LH
Tr 8 x 1,5												
Tr 10 x 2											■	■
Tr 10 x 3	■	■	■	■	■				■	■		
Tr 12 x 3	■	■	■	■	■	■			■	■	■	■
Tr 14 x 3											■	■
Tr 14 x 4	■	■	■	■	■	■			■	■		
Tr 16 x 4	■	■	■	■	■	■	■	■	■	■	■	■
Tr 18 x 4	■	■	■	■	■	■	■	■	■	■	■	■
Tr 20 x 4	■	■	■	■	■	■	■	■	■	■	■	■
Tr 22 x 5	■	■	■	■	■	■	■	■			■	■
Tr 24 x 5			■	■							■	■
Tr 25 x 3												
Tr 25 x 5	■	■	■	■	■	■	■	■	■	■		
Tr 26 x 5			■	■							■	■
Tr 28 x 5	■	■	■	■	■	■	■	■	■	■	■	■
Tr 30 x 3	■	■					■	■				
Tr 30 x 4	■	■										
Tr 30 x 5	■	■										
Tr 30 x 6	■	■	■	■	■	■	■	■	■	■	■	■
Tr 32 x 6			■	■			■	■			■	■
Tr 35 x 3	■	■										
Tr 35 x 4	■	■										
Tr 35 x 5	■	■										
Tr 35 x 6	■	■	■	■	■	■	■	■	■	■		
Tr 35 x 8	■											
Tr 36 x 6			■	■	■	■			■	■	■	■
Tr 40 x 3	■	■										
Tr 40 x 4	■	■					■					
Tr 40 x 5	■	■										
Tr 40 x 6	■	■										
Tr 40 x 7	■	■	■	■	■	■	■	■	■	■	■	■
Tr 40 x 8	■											
Tr 40 x 10							■					
Tr 44 x 7			■	■							■	■
Tr 45 x 8	■	■	■	■	■	■			■	■		
Tr 50 x 3	■	■										
Tr 50 x 4	■	■										
Tr 50 x 5	■	■										
Tr 50 x 6	■	■					■					
Tr 50 x 8	■	■	■	■	■	■	■	■	■	■	■	■
Tr 50 x 10							■					
Tr 55 x 9	■		■		■				■			
Tr 60 x 6	■	■										
Tr 60 x 7	■	■										
Tr 60 x 9	■	■	■	■	■	■	■	■	■	■	■	■
Tr 70 x 10									■	■	■	■
Tr 80 x 10									■	■	■	■
Tr 90 x 12									■			
Tr 95 x 16												
Tr 100 x 12									■			
Tr 100 x 16												
Tr 120 x 14									■			
Tr 140 x 14												





■ = Goods in stock

SINGLE START





Single start	FEU page 47 Bronze CuSn7Zn4Pb7-C		FSF page 48 Bronze CuSn7Zn4Pb7-C		HAL page 50 Alluminium Bronze CuAl11Fe6Ni6-C		MES page 51 Steel 11SMnPb37		FCS page 52 Plastic PA6 + MoS2 + self lubricating		MPH page 53 Plastic PA6 + MoS2	
												
THREAD	RH	LH	RH	LH	RH	LH	RH	LH	RH	LH	RH	LH
Tr 8 x 1,5	■											
Tr 10 x 2	■	■	■	■			■	■				
Tr 10 x 3							■	■				
Tr 12 x 3	■	■	■	■			■	■	■	■	■	■
Tr 14 x 3	■	■	■	■			■	■				
Tr 14 x 4							■	■				
Tr 16 x 4	■	■	■	■			■	■	■	■	■	■
Tr 18 x 4	■	■					■	■				
Tr 20 x 4	■	■	■	■			■	■	■	■	■	■
Tr 22 x 5	■	■					■	■				
Tr 24 x 5	■	■	■	■			■	■				
Tr 25 x 3												
Tr 25 x 5									■	■	■	■
Tr 26 x 5	■	■					■	■				
Tr 28 x 5	■	■					■	■	■	■	■	■
Tr 30 x 3												
Tr 30 x 4												
Tr 30 x 5												
Tr 30 x 6	■	■	■	■	■	■	■	■	■	■	■	■
Tr 32 x 6	■	■					■	■				
Tr 35 x 3												
Tr 35 x 4												
Tr 35 x 5												
Tr 35 x 6					■				■	■	■	■
Tr 35 x 8												
Tr 36 x 6	■	■	■	■			■	■				
Tr 40 x 3												
Tr 40 x 4												
Tr 40 x 5												
Tr 40 x 6												
Tr 40 x 7	■	■	■	■	■	■	■	■	■	■	■	■
Tr 40 x 8												
Tr 40 x 10					■				■			
Tr 44 x 7	■	■					■	■				
Tr 45 x 8												
Tr 50 x 3												
Tr 50 x 4												
Tr 50 x 5												
Tr 50 x 6												
Tr 50 x 8	■	■	■	■	■	■	■	■	■	■	■	■
Tr 50 x 10					■							
Tr 55 x 9												
Tr 60 x 6												
Tr 60 x 7												
Tr 60 x 9	■	■			■		■	■				
Tr 70 x 10	■	■					■	■				
Tr 80 x 10	■	■										
Tr 90 x 12												
Tr 95 x 16												
Tr 100 x 12												
Tr 100 x 16												
Tr 120 x 14												
Tr 140 x 14												

■ = Goods in stock





TRAPEZOIDAL NUTS

Multiple start	MLF page 33 Steel 11SMnPb37		MZP page 33 Steel 11SMnPb37		HSN page 34 Bronze CuSn5Zn5Pb5-C		HBD page 34 Bronze CuSn7Zn4Pb7-C	
								
THREAD	RH	LH	RH	LH	RH	LH	RH	LH
Tr 10 x 4 (P2)								
Tr 12 x 6 (P3)	■		■				■	
Tr 14 x 6 (P3)							■	
Tr 16 x 8 (P4)	■				■		■	
Tr 18 x 8 (P4)								
Tr 20 x 8 (P4)	■				■			
Tr 20 x 20 (P4)								
Tr 20 x 20 (P5)								
Tr 22 x 10 (P5)								
Tr 24 x 10 (P5)								
Tr 25 x 10 (P5)	■				■			
Tr 25 x 25 (P5)								
Tr 26 x 10 (P5)								
Tr 28 x 10 (P5)	■				■			
Tr 30 x 12 (P6)	■				■		■	
Tr 30 x 30 (P5)								
Tr 32 x 12 (P6)								
Tr 36 x 12 (P6)								
Tr 40 x 14 (P7)	■				■		■	
Tr 40 x 40 (P8)								





■ = Goods in stock

Multiple start	QOB page 37 Brass CW614N-M		FXN page 41 Bronze CuSn12-C		FMT page 42 Bronze CuSn12-C		HDL page 43 Bronze CuSn12-C	
								
THREAD	RH	LH	RH	LH	RH	LH	RH	LH
Tr 10 x 4 (P2)								
Tr 12 x 6 (P3)	■		■		■			
Tr 14 x 6 (P3)								
Tr 16 x 8 (P4)			■		■		■	
Tr 18 x 8 (P4)								
Tr 20 x 8 (P4)			■		■		■	
Tr 20 x 20 (P4)			■					
Tr 20 x 20 (P5)			■					
Tr 22 x 10 (P5)								
Tr 24 x 10 (P5)								
Tr 25 x 10 (P5)			■		■		■	
Tr 25 x 25 (P5)			■				■	
Tr 26 x 10 (P5)								
Tr 28 x 10 (P5)			■				■	
Tr 30 x 12 (P6)			■		■		■	
Tr 30 x 30 (P5)			■					
Tr 32 x 12 (P6)								
Tr 36 x 12 (P6)								
Tr 40 x 14 (P7)			■		■		■	
Tr 40 x 40 (P8)			■					

MULTIPLE START

Multiple start	FFR page 45 Bronze CuSn5Zn5Pb5-C		FHD page 46 Bronze CuSn12-C		FEU page 47 Bronze CuSn7Zn4Pb7-C		FSF page 48 Bronze CuSn7Zn4Pb7-C	
								
THREAD	RH	LH	RH	LH	RH	LH	RH	LH
Tr 10 x 4 (P2)	■				■		■	
Tr 12 x 6 (P3)	■				■		■	
Tr 14 x 6 (P3)	■				■			
Tr 16 x 8 (P4)	■				■		■	
Tr 18 x 8 (P4)	■				■			
Tr 20 x 8 (P4)	■				■		■	
Tr 20 x 20 (P4)								
Tr 20 x 20 (P5)								
Tr 22 x 10 (P5)	■				■			
Tr 24 x 10 (P5)	■				■		■	
Tr 25 x 10 (P5)								
Tr 25 x 25 (P5)			■					
Tr 26 x 10 (P5)	■				■			
Tr 28 x 10 (P5)	■				■			
Tr 30 x 12 (P6)	■				■		■	
Tr 30 x 30 (P5)								
Tr 32 x 12 (P6)	■				■			
Tr 36 x 12 (P6)	■				■		■	
Tr 40 x 14 (P7)	■				■		■	
Tr 40 x 40 (P8)			■					

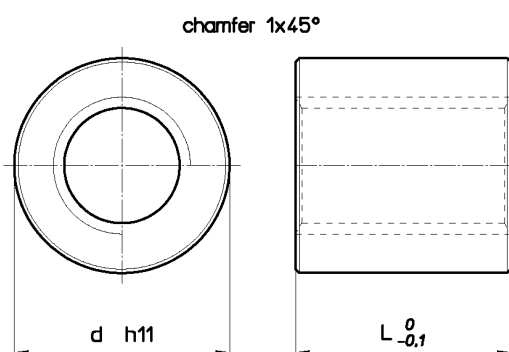
■ = Goods in stock

Multiple start	CDF page 49 Bronze CuSn12-C		MES page 51 Steel 11SMnPb37		FCS page 52 Plastic PA6 + MoS2 + self lubricating		MPH page 53 Plastic PA6 + MoS2	
								
THREAD	RH	LH	RH	LH	RH	LH	RH	LH
Tr 10 x 4 (P2)								
Tr 12 x 6 (P3)			■				■	
Tr 14 x 6 (P3)			■					
Tr 16 x 8 (P4)			■					
Tr 18 x 8 (P4)								
Tr 20 x 8 (P4)			■		■			
Tr 20 x 20 (P4)								
Tr 20 x 20 (P5)								
Tr 22 x 10 (P5)								
Tr 24 x 10 (P5)								
Tr 25 x 10 (P5)	■							
Tr 25 x 25 (P5)	■							
Tr 26 x 10 (P5)								
Tr 28 x 10 (P5)	■				■		■	
Tr 30 x 12 (P6)			■					
Tr 30 x 30 (P5)								
Tr 32 x 12 (P6)								
Tr 36 x 12 (P6)								
Tr 40 x 14 (P7)								
Tr 40 x 40 (P8)								

Trapezoidal nut type MLF - Cylindrical steel

Material: EN 10277-3 11 S Mn Pb 37 – 1.0737

Nut for fastening or manual movement with small load; steel-to-steel coupling tends to seize. Can be MIG welded only. Electrode welding is not recommended because of the lead.

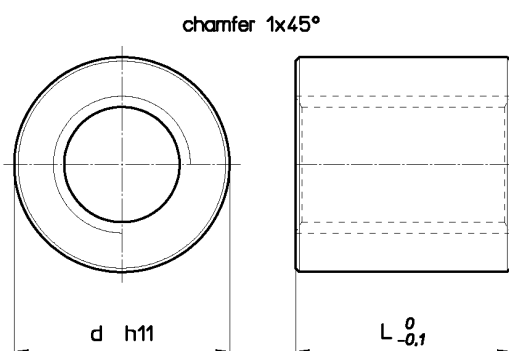


Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d mm	L mm	Wt. kg/each	At mm ² (1)
MLF 12 A R	MLF 12 A L	Tr 12x3	1	36	36	0.255	592
MLF 12 B R	--	Tr 12x6 (P3)	2	36	36	0.255	592
MLF 14 A R	MLF 14 A L	Tr 14x4	1	36	36	0.250	677
MLF 16 A R	MLF 16 A L	Tr 16x4	1	36	36	0.238	792
MLF 16 B R	--	Tr 16x8 (P4)	2	36	36	0.238	792
MLF 18 A R	MLF 18 A L	Tr 18x4	1	36	36	0.224	905
MLF 20 A R	MLF 20 A L	Tr 20x4	1	40	40	0.306	1130
MLF 20 B R	--	Tr 20x8 (P4)	2	40	40	0.306	1130
MLF 22 A R	MLF 22 A L	Tr 22x5	1	40	40	0.290	1225
MLF 25 A R	MLF 25 A L	Tr 25x5	1	45	45	0.40	1590
MLF 25 B R	--	Tr 25x10 (P5)	2	45	45	0.40	1590
MLF 28 A R	MLF 28 A L	Tr 28x5	1	45	45	0.36	1800
MLF 28 B R	--	Tr 28x10 (P5)	2	45	45	0.36	1800
MLF 30 A R	MLF 30 A L	Tr 30x6	1	50	50	0.52	2120
MLF 30 B R	--	Tr 30x12 (P6)	2	50	50	0.52	2120
MLF 35 A R	MLF 35 A L	Tr 35x6	1	55	55	0.65	2764
MLF 40 A R	MLF 40 A L	Tr 40x7	1	60	60	0.79	3440
MLF 40 B R	--	Tr 40x14 (P7)	2	60	60	0.79	3440
MLF 45 A R	MLF 45 A L	Tr 45x8	1	65	65	0.95	4186
MLF 50 A R	MLF 50 A L	Tr 50x8	1	70	70	1.12	5057
MLF 55 A R	--	Tr 55x9	1	80	80	1.78	6345
MLF 60 A R	MLF 60 A L	Tr 60x9	1	80	80	1.51	6975

Trapezoidal nut type MZP - Cylindrical steel

Material: EN 10277-3 11 S Mn Pb 37 – 1.0737

Nut for fastening or manual movement with small load; steel-to-steel coupling tends to seize. Can be MIG welded only. Electrode welding is not recommended because of the lead.



Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d mm	L mm	Wt. kg/each	At mm ² (1)
MZP 10 T R	MZP 10 T L	Tr 10x2	1	22	15	0.038	212
MZP 10 A R	MZP 10 A L	Tr 10x3	1	22	15	0.037	200
MZP 12 A R	MZP 12 A L	Tr 12x3	1	26	18	0.061	296
MZP 12 B R	--	Tr 12x6 (P3)	2	26	18	0.061	296
MZP 14 R R	MZP 14 R L	Tr 14x3	1	30	21	0.095	412
MZP 14 A R	MZP 14 A L	Tr 14x4	1	30	21	0.095	395
MZP 16 A R	MZP 16 A L	Tr 16x4	1	36	24	0.158	528
MZP 18 A R	MZP 18 A L	Tr 18x4	1	40	27	0.218	678
MZP 20 A R	MZP 20 A L	Tr 20x4	1	45	30	0.308	847
MZP 22 A R	MZP 22 A L	Tr 22x5	1	45	33	0.324	1010
MZP 24 A R	MZP 24 A L	Tr 24x5	1	50	36	0.440	1215
MZP 26 A R	MZP 26 A L	Tr 26x5	1	50	39	0.454	1440
MZP 28 A R	MZP 28 A L	Tr 28x5	1	60	42	0.747	1680
MZP 30 A R	MZP 30 A L	Tr 30x6	1	60	45	0.773	1908
MZP 32 A R	MZP 32 A L	Tr 32x6	1	60	48	0.790	2186
MZP 36 A R	MZP 36 A L	Tr 36x6	1	75	54	1.476	2800
MZP 40 A R	MZP 40 A L	Tr 40x7	1	80	60	1.826	3440
MZP 44 A R	MZP 44 A L	Tr 44x7	1	80	66	1.878	4200
MZP 50 A R	MZP 50 A L	Tr 50x8	1	90	75	2.680	5418
MZP 60 A R	MZP 60 A L	Tr 60x9	1	100	90	3.698	7847
MZP 70 A R	MZP 70 A L	Tr 70x10	1	110	105	4.884	10720
MZP 80 A R	MZP 80 A L	Tr 80x10	1	120	120	6.210	14137

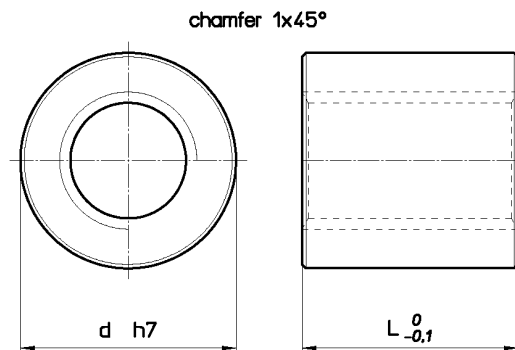
(1) Total bearing surface between screw and nut teeth on plane perpendicular to axis.

Trapezoidal nut type HSN - Cylindrical bronze

Material: EN 1982 Cu Sn5 Zn5 Pb5-C – CC491K

Cylindrical bronze nut for movement with modest loads compared with FXN. HDL and HAL.

Good lubrication is recommended.

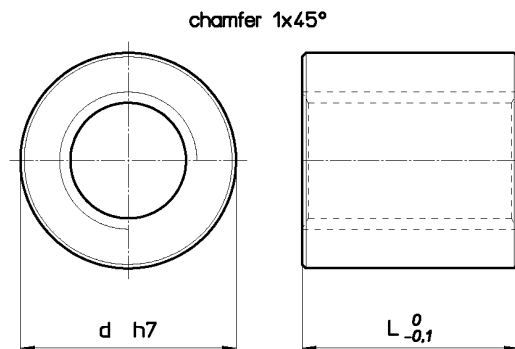


Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d mm	L mm	Wt. kg/each	At mm ² (1)
HSN 12 A R	HSN 12 A L	Tr 12x3	1	36	36	0.302	594
HSN 14 A R	HSN 14 A L	Tr 14x4	1	36	36	0.290	677
HSN 16 A R	HSN 16 A L	Tr 16x4	1	36	36	0.276	792
HSN 16 B R	--	Tr 16x8 (P4)	2	36	36	0.276	792
HSN 18 A R	HSN 18 A L	Tr 18x4	1	36	36	0.259	905
HSN 20 A R	HSN 20 A L	Tr 20x4	1	40	40	0.354	1130
HSN 20 B R	--	Tr 20x8 (P4)	2	40	40	0.354	1130
HSN 22 A R	HSN 22 A L	Tr 22x5	1	40	40	0.33	1225
HSN 25 A R	HSN 25 A L	Tr 25x5	1	45	45	0.47	1590
HSN 25 B R	--	Tr 25x10 (P5)	2	45	45	0.47	1590
HSN 28 A R	HSN 28 A L	Tr 28x5	1	45	45	0.42	1800
HSN 28 B R	--	Tr 28x10 (P5)	2	45	45	0.42	1800
HSN 30 A R	HSN 30 A L	Tr 30x6	1	50	50	0.60	2120
HSN 30 B R	--	Tr 30x12 (P6)	2	50	50	0.60	2120
HSN 35 A R	HSN 35 A L	Tr 35x6	1	55	55	0.75	2764
HSN 40 A R	HSN 40 A L	Tr 40x7	1	60	60	0.92	3440
HSN 40 B R	--	Tr 40x14 (P7)	2	60	60	0.92	3440
HSN 45 A R	HSN 45 A L	Tr 45x8	1	65	65	1.10	4186
HSN 50 A R	HSN 50 A L	Tr 50x8	1	70	70	1.30	5057
HSN 55 A R	--	Tr 55x9	1	80	80	2.07	6345
HSN 60 A R	HSN 60 A L	Tr 60x9	1	80	80	1.75	6975

Trapezoidal nut type HBD - Cylindrical bronze

Material: EN 1982 Cu Sn7 Zn4 Pb7-C – CC493K

Cylindrical bronze nut for movement with modest loads compared with FXN, HDL and HAL. Good lubrication is recommended.



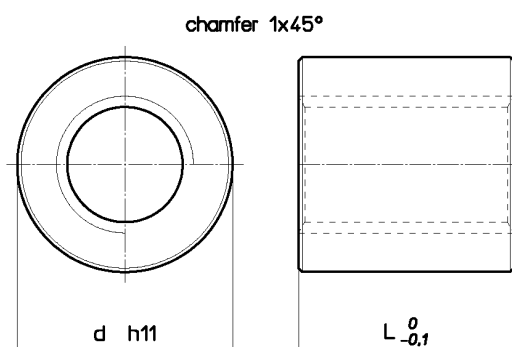
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d mm	L mm	Wt. kg/each	At mm ² (1)
HBD 10 T R	HBD 10 T L	Tr 10x2	1	22	20	0.058	282
HBD 10 A R	HBD 10 A L	Tr 10x3	1	22	20	0.057	267
HBD 12 A R	HBD 12 A L	Tr 12x3	1	26	24	0.094	396
HBD 12 B R	--	Tr 12x6 (P3)	2	26	24	0.094	396
HBD 14 R R	HBD 14 R L	Tr 14x3	1	30	28	0.146	550
HBD 14 A R	HBD 14 A L	Tr 14x4	1	30	28	0.146	526
HBD 14 B R	--	Tr 14x6 (P3)	2	30	28	0.146	550
HBD 16 A R	HBD 16 A L	Tr 16x4	1	36	32	0.245	704
HBD 16 B R	--	Tr 16x8 (P4)	2	36	32	0.245	704
HBD 18 A R	HBD 18 A L	Tr 18x4	1	40	36	0.337	905
HBD 20 A R	HBD 20 A L	Tr 20x4	1	45	40	0.476	1130
HBD 22 A R	HBD 22 A L	Tr 22x5	1	45	40	0.456	1225
HBD 24 A R	HBD 24 A L	Tr 24x5	1	50	48	0.680	1620
HBD 26 A R	HBD 26 A L	Tr 26x5	1	50	48	0.648	1770
HBD 28 A R	HBD 28 A L	Tr 28x5	1	60	60	1.237	2400
HBD 30 A R	HBD 30 A L	Tr 30x6	1	60	60	1.195	2544
HBD 30 B R	--	Tr 30x12 (P6)	2	60	60	1.195	2544
HBD 32 A R	HBD 32 A L	Tr 32x6	1	60	60	1.145	2733
HBD 36 A R	HBD 36 A L	Tr 36x6	1	75	72	2.232	3732
HBD 40 A R	HBD 40 A L	Tr 40x7	1	80	80	2.823	4587
HBD 40 B R	--	Tr 40x14 (P7)	2	80	80	2.823	4587
HBD 44 A R	HBD 44 A L	Tr 44x7	1	80	80	2.639	5090
HBD 50 A R	HBD 50 A L	Tr 50x8	1	90	100	4.142	7224
HBD 60 A R	HBD 60 A L	Tr 60x9	1	100	120	5.716	10462
HBD 70 A R	HBD 70 A L	Tr 70x10	1	110	140	7.548	14294
HBD 80 A R	HBD 80 A L	Tr 80x10	1	120	160	9.60	18850

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

Trapezoidal nut type HDA - Cylindrical stainless steel

Material: INOX A1 - AISI 303 – 1.4305

Nut of AISI 303 stainless steel especially suitable to withstand corrosive chemical agents



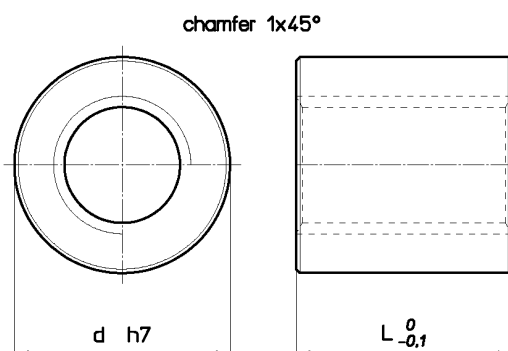
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d mm	L mm	Wt. kg/each	At mm ² (1)
HDA 12 A R	HDA 12 A L	Tr 12x3	1	26	18	0.060	297
HDA 14 A R	HDA 14 A L	Tr 14x4	1	30	21	0.095	395
HDA 16 A R	HDA 16 A L	Tr 16x4	1	36	24	0.157	528
HDA 20 A R	HDA 20 A L	Tr 20x4	1	45	30	0.305	847
HDA 24 A R	HDA 24 A L	Tr 24x5	1	50	36	0.436	1215
HDA 30 A R	HDA 30 A L	Tr 30x6	1	60	45	0.766	1908
HDA 36 A R	HDA 36 A L	Tr 36x6	1	75	54	1.462	2799
HDA 40 A R	HDA 40 A L	Tr 40x7	1	80	60	1.808	3440
HDA 50 A R	HDA 50 A L	Tr 50x8	1	90	75	2.653	5418

Trapezoidal nut type HBM - Cylindrical bronze

Material: EN 1982 Cu Sn12-C – CC483K

Cylindrical bronze nut for movement with modest loads compared with HDL and HAL.

Good lubrication is recommended.



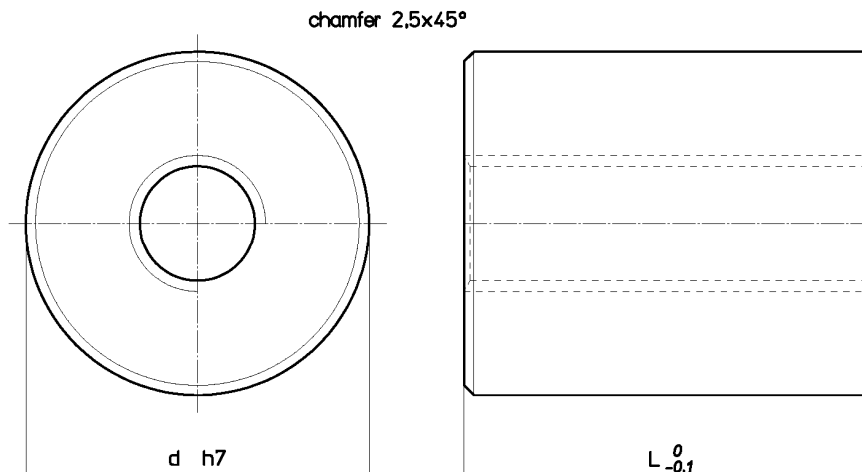
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d mm	L mm	Wt. kg/each	At mm ² (1)
HBM 10 A R	HBM 10 A L	Tr 10x3	1	20	20	0.044	267
HBM 12 A R	HBM 12 A L	Tr 12x3	1	24	25	0.078	412
HBM 14 A R	HBM 14 A L	Tr 14x4	1	24	25	0.071	470
HBM 16 A R	HBM 16 A L	Tr 16x4	1	28	30	0.118	660
HBM 18 A R	HBM 18 A L	Tr 18x4	1	34	35	0.214	880
HBM 20 A R	HBM 20 A L	Tr 20x4	1	38	40	0.304	1130
HBM 25 A R	HBM 25 A L	Tr 25x5	1	44	45	0.438	1590
HBM 30 A R	HBM 30 A L	Tr 30x6	1	48	50	0.532	2120
HBM 35 A R	HBM 35 A L	Tr 35x6	1	58	60	0.959	3015
HBM 36 A R	HBM 36 A L	Tr 36x6	1	58	60	0.923	3110
HBM 40 A R	HBM 40 A L	Tr 40x7	1	64	65	1.222	3727
HBM 45 A R	HBM 45 A L	Tr 45x8	1	68	80	1.579	5152
HBM 50 A R	HBM 50 A L	Tr 50x8	1	74	80	1.808	5780
HBM 55 A R	--	Tr 55x9	1	78	95	2.242	7535
HBM 60 A R	HBM 60 A L	Tr 60x9	1	84	95	2.536	8282
HBM 70 A R	HBM 70 A L	Tr 70x10	1	98	120	4.354	12252
HBM 80 A R	HBM 80 A L	Tr 80x10	1	108	120	4.892	14137

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

Trapezoidal nut type BIG - Cylindrical bronze

Material: EN 1982 Cu Sn12-C – CC483K

Large cylindrical nut with non-standard pitches especially suitable for replacement.



Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d mm	L mm	Wt. kg/each	At mm ² (1)
BIG 20 A R	BIG 20 A L	Tr 20x4	1	78	60	2.43	1696
BIG 25 A R	BIG 25 A L	Tr 25x5	1	78	75	2.96	2650
BIG 30 R R	BIG 30 R L	Tr 30x3	1	78	90	3.30	4029
BIG 30 Q R	BIG 30 Q L	Tr 30x4	1	78	90	3.31	3958
BIG 30 P R	BIG 30 P L	Tr 30x5	1	78	90	3.32	3888
BIG 30 A R	BIG 30 A L	Tr 30x6	1	78	90	3.33	3817
BIG 35 R R	BIG 35 R L	Tr 35x3	1	88	105	4.85	5525
BIG 35 Q R	BIG 35 Q L	Tr 35x4	1	88	105	4.86	5443
BIG 35 P R	BIG 35 P L	Tr 35x5	1	88	105	4.87	5360
BIG 35 A R	BIG 35 A L	Tr 35x6	1	88	105	4.89	5378
BIG 40 R R	BIG 40 R L	Tr 40x3	1	98	120	6.80	7257
BIG 40 Q R	BIG 40 Q L	Tr 40x4	1	98	120	6.82	7163
BIG 40 P R	BIG 40 P L	Tr 40x5	1	98	120	6.83	7068
BIG 40 O R	BIG 40 O L	Tr 40x6	1	98	120	6.85	6974
BIG 40 A R	BIG 40 A L	Tr 40x7	1	98	120	6.87	6880
BIG 40 I R	--	Tr 40x10	1	98	120	6.91	6597
BIG 50 R R	BIG 50 R L	Tr 50x3	1	108	150	9.74	11427
BIG 50 Q R	BIG 50 Q L	Tr 50x4	1	108	150	9.77	11309
BIG 50 P R	BIG 50 P L	Tr 50x5	1	108	150	9.79	11192
BIG 50 O R	BIG 50 O L	Tr 50x6	1	108	150	9.82	11074
BIG 50 A R	BIG 50 A L	Tr 50x8	1	108	150	9.87	10838
BIG 50 I R	--	Tr 50x10	1	108	150	9.92	10600
BIG 60 O R	--	Tr 60x6	1	118	180	13.29	16116
BIG 60 N R	--	Tr 60x7	1	118	180	13.32	15975
BIG 60 A R	--	Tr 60x9	1	118	180	13.36	15692

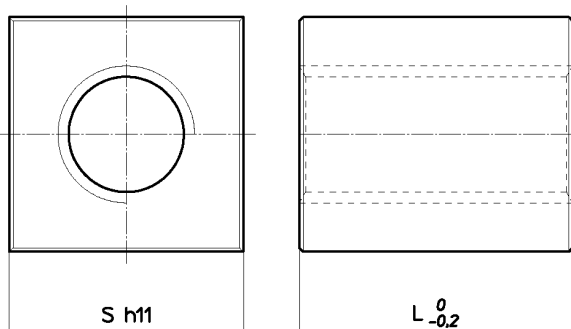
(1) Total bearing surface between screw and nut teeth on plane perpendicular to axis.

Trapezoidal nut type CQA - Square steel

Material: EN 10277-3 11 S Mn Pb 37 – 1.0737

Used as fastening nut or for manual movement where load is negligible because steel-to-steel coupling used for movement under load tends to seize. The material used can be MIG welded only. Electrode welding is not recommended because of the lead.

chamfer 1x45°



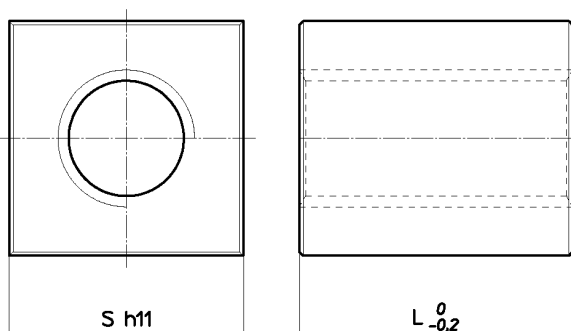
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	S mm	L mm	Wt. kg/each	At mm ² (1)
CQA 10 T R	CQA 10 T L	Tr 10x2	1	17	15	0.027	150
CQA 12 A R	CQA 12 A L	Tr 12x3	1	25	30	0.123	739
CQA 14 R R	CQA 14 R L	Tr 14x3	1	25	20	0,076	393
CQA 14 A R	CQA 14 A L	Tr 14x4	1	30	35	0,211	658
CQA 16 A R	CQA 16 A L	Tr 16x4	1	30	35	0.199	770
CQA 18 A R	CQA 18 A L	Tr 18x4	1	35	45	0.353	1131
CQA 20 A R	CQA 20 A L	Tr 20x4	1	40	50	0.517	1412
CQA 25 A R	CQA 25 A L	Tr 25x5	1	45	55	0.683	1943
CQA 30 A R	CQA 30 A L	Tr 30x6	1	50	60	0.877	2544
CQA 35 A R	CQA 35 A L	Tr 35x6	1	60	70	1.494	3517
CQA 36 A R	CQA 36 A L	Tr 36x6	1	60	70	1.465	3630
CQA 40 A R	CQA 40 A L	Tr 40x7	1	60	70	1.347	4013
CQA 50 A R	CQA 50 A L	Tr 50x8	1	70	90	2.183	6502
CQA 60 A R	CQA 60 A L	Tr 60x9	1	80	100	2.990	8718

Trapezoidal nut type QOB - Square brass

Material: EN 12164 CW614N-M

Used as nut for movement of fairly small loads since the brass has not high resistance neither to load nor to wear.

chamfer 1x45°



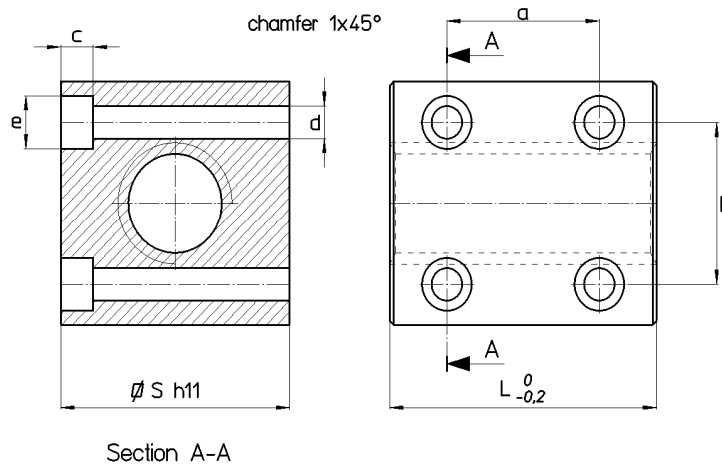
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	S mm	L mm	Wt. kg/each	At mm ² (1)
QOB 10 A R	QOB 10 A L	Tr 10x3	1	25	20	0.094	267
QOB 12 A R	QOB 12 A L	Tr 12x3	1	25	25	0.110	411
QOB 12 B R	--	Tr 12x6 (P3)	2	25	25	0.110	411
QOB 14 R R	QOB 14 R L	Tr 14x3	1	25	20	0.076	658
QOB 14 A R	QOB 14 A L	Tr 14x4	1	30	35	0.224	658
QOB 16 A R	QOB 16 A L	Tr 16x4	1	30	35	0.212	770
QOB 18 A R	QOB 18 A L	Tr 18x4	1	35	45	0.379	1131
QOB 20 A R	QOB 20 A L	Tr 20x4	1	40	50	0.554	1412
QOB 25 A R	QOB 25 A L	Tr 25x5	1	45	55	0.735	1943
QOB 30 A R	QOB 30 A L	Tr 30x6	1	50	60	0.952	2544
QOB 35 A R	QOB 35 A L	Tr 35x6	1	60	70	1.617	3517
QOB 36 A R	QOB 36 A L	Tr 36x6	1	60	70	1.563	3630
QOB 40 A R	QOB 40 A L	Tr 40x7	1	60	70	1.465	4013

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

Trapezoidal nut type CQF – Steel square nut with holes

Material: EN 10277-3 11 S Mn Pb 37 – 1.0737

This nut is used as a fixing nut or for manual movements where the load is not important, because the steel to steel coupling used for moving under loads tends to seize.



Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	S mm	L mm	a mm	b mm	c mm	d mm	e mm	Fixing allen screws UNI 5931	Wt. kg/each	At mm ² (1)
CQF 12 A R	CQF 12 A L	Tr 12x3	1	25	30	20	17	4.2	4	7	M4	0.105	495
CQF 14 A R	CQF 14 A L	Tr 14x4	1	30	35	24	20	5.2	5	9,5	M5	0.180	658
CQF 16 A R	CQF 16 A L	Tr 16x4	1	35	40	24	21	5.2	5	9,5	M5	0.290	880
CQF 18 A R	CQF 18 A L	Tr 18x4	1	35	45	26	24	6.5	6	10	M6	0.305	1131
CQF 20 A R	CQF 20 A L	Tr 20x4	1	40	50	38	28	6.5	6	10	M6	0.460	1412
CQF 25 A R	CQF 25 A L	Tr 25x5	1	45	55	40	33	6.5	6	10	M6	0.620	1943
CQF 30 A R	CQF 30 A L	Tr 30x6	1	50	60	48	38	6.5	6	10	M6	0.805	2544
CQF 35 A R	CQF 35 A L	Tr 35x6	1	60	70	55	45	8.5	8	13	M8	1.365	3517
CQF 40 A R	CQF 40 A L	Tr 40x7	1	60	70	55	49	8.5	8	9.9	M8 (3)	1.210	4013
CQF 50 A R	CQF 50 A L	Tr 50x8	1	70	90	70	60	8.5	8	9.9	M8 (3)	2.060	6502
CQF 60 A R	CQF 60 A L	Tr 60x9	1	80	100	80	69	8.5	8	9.9	M8 (3)	2.855	8718

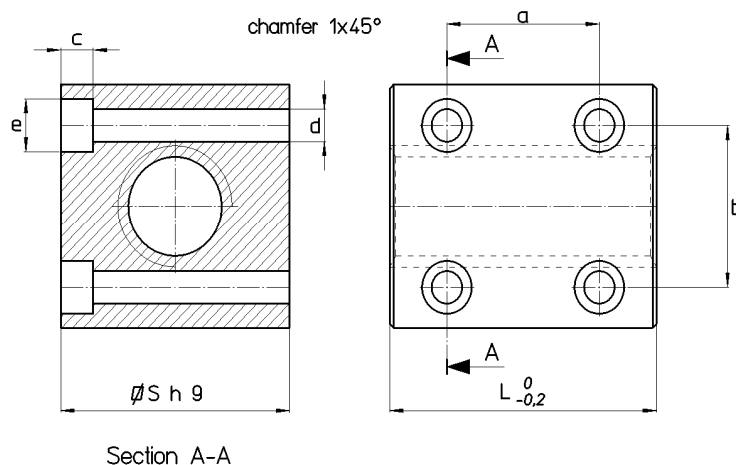
(1) Total bearing surface between screw and nut teeth on plane perpendicular to axis.

(3) Special M8 fixing screw with a reduced head screw diameter.

Trapezoidal nut type QBF – Bronze square nut with holes

Material: EN 1982 Cu Sn12-C – CC483K

Tin bronze nut suitable for movements with modest loads. It is recommended for its fixing comfort and for its good wear resistance.



Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	S mm	L mm	a mm	b mm	c mm	d mm	e mm	Fixing allen screws UNI 5931	Wt. kg/each	At mm ² (1)
QBF 16 A R	QBF 16 A L	Tr 16x4	1	35	40	26	24	5.2	5	9,5	M5	0.340	880
QBF 20 A R	QBF 20 A L	Tr 20x4	1	40	50	38	28	6.5	6	10	M6	0.576	1412
QBF 25 A R	QBF 25 A L	Tr 25x5	1	45	55	40	33	6.5	6	10	M6	0.725	1943
QBF 30 A R	QBF 30 A L	Tr 30x6	1	50	60	49	38	6.5	6	10	M6	0.977	2544
QBF 40 A R	QBF 40 A L	Tr 40x7	1	60	75	55	49	8.5	8	9.9	M8 (3)	1.608	4013

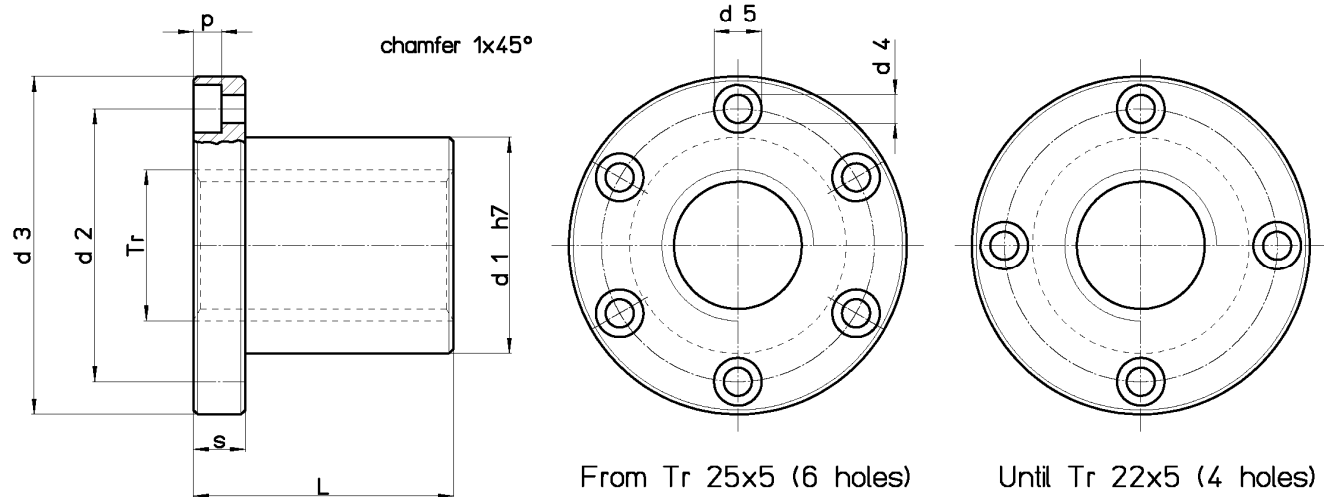
(1) Total bearing surface between screw and nut teeth on plane perpendicular to axis.

(3) Special M8 fixing screw with a reduced head screw diameter.

Trapezoidal nut type FTN - Flanged bronze

Material: EN 1982 Cu Sn5 Zn5 Pb5-C – CC491K

Flanged bronze nut for movement of modest loads compared with FXN, HDL and HAL. Good lubrication is recommended. Flange dimensions make them fully interchangeable with FXN, HDL, HAL and FCS (total length and flange thickness change).



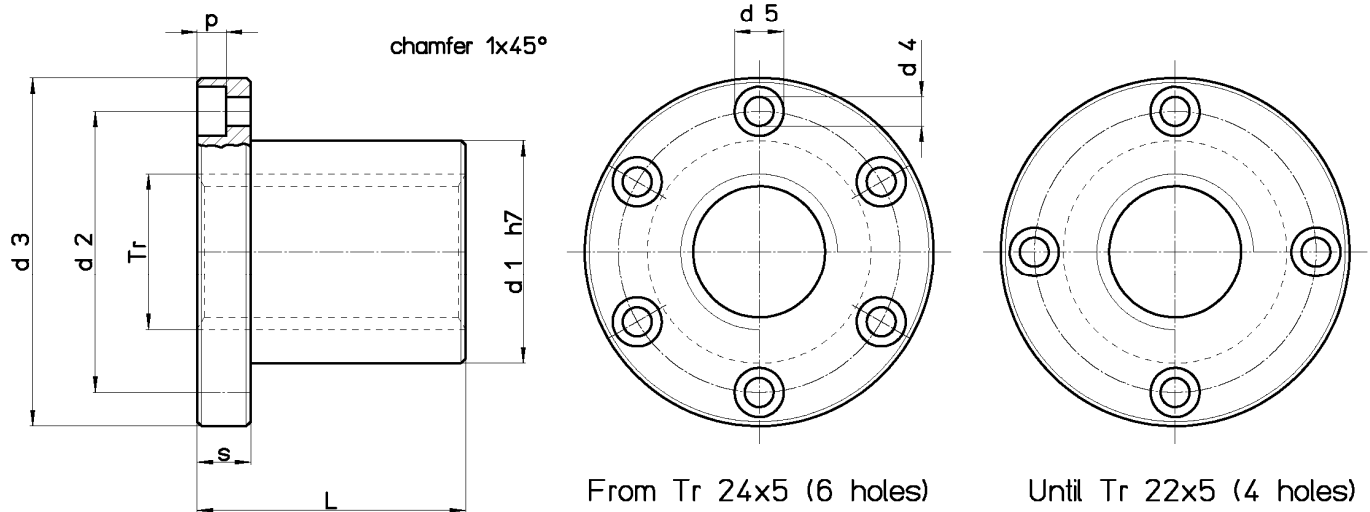
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	p mm	L mm	s mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
FTN 10 A R	FTN 10 A L	Tr 10x3	1	18	26	37	4.5	7.5	4.2	22	8	4	M4	0.088	294
FTN 12 A R	FTN 12 A L	Tr 12x3	1	18	26	37	4.5	7.5	4.2	22	8	4	M4	0.082	362
FTN 14 A R	FTN 14 A L	Tr 14x4	1	20	30	42	5.5	9.5	5.2	25	10	4	M5	0.123	470
FTN 16 A R	FTN 16 A L	Tr 16x4	1	22	32	45	5.5	9.5	5.2	30	10	4	M5	0.149	660
FTN 18 A R	FTN 18 A L	Tr 18x4	1	25	35	48	5.5	9.5	5.2	35	10	4	M5	0.188	880
FTN 20 A R	FTN 20 A L	Tr 20x4	1	30	40	52	5.5	9.5	5.2	40	10	4	M5	0.267	1130
FTN 22 A R	FTN 22 A L	Tr 22x5	1	30	40	52	5.5	9.5	5.2	40	10	4	M5	0.247	1225
FTN 25 A R	FTN 25 A L	Tr 25x5	1	35	48	62	6.5	11	6.5	45	12	6	M6	0.393	1590
FTN 28 A R	FTN 28 A L	Tr 28x5	1	40	53	68	6.5	11	6.5	50	12	6	M6	0.532	2000
FTN 30 R R	FTN 30 R L	Tr 30x3	1	40	53	68	6.5	11	6.5	50	12	6	M6	0.482	2238
FTN 30 Q R	FTN 30 Q L	Tr 30x4	1	40	53	68	6.5	11	6.5	50	12	6	M6	0.487	2200
FTN 30 P R	FTN 30 P L	Tr 30x5	1	40	53	68	6.5	11	6.5	50	12	6	M6	0.492	2160
FTN 30 A R	FTN 30 A L	Tr 30x6	1	40	53	68	6.5	11	6.5	50	12	6	M6	0.497	2120
FTN 35 R R	FTN 35 R L	Tr 35x3	1	50	63	78	8.5	14	8.5	60	15	6	M8	0.862	3160
FTN 35 Q R	FTN 35 Q L	Tr 35x4	1	50	63	78	8.5	14	8.5	60	15	6	M8	0.869	3110
FTN 35 P R	FTN 35 P L	Tr 35x5	1	50	63	78	8.5	14	8.5	60	15	6	M8	0.876	3060
FTN 35 A R	FTN 35 A L	Tr 35x6	1	50	63	78	8.5	14	8.5	60	15	6	M8	0.883	3015
FTN 35 M R	--	Tr 35x8	1	50	63	78	8.5	14	8.5	60	15	6	M8	0.898	2920
FTN 40 R R	FTN 40 R L	Tr 40x3	1	55	68	84	8.5	14	8.5	65	15	6	M8	1.030	3930
FTN 40 Q R	FTN 40 Q L	Tr 40x4	1	55	68	84	8.5	14	8.5	65	15	6	M8	1.039	3880
FTN 40 P R	FTN 40 P L	Tr 40x5	1	55	68	84	8.5	14	8.5	65	15	6	M8	1.048	3828
FTN 40 O R	FTN 40 O L	Tr 40x6	1	55	68	84	8.5	14	8.5	65	15	6	M8	1.057	3778
FTN 40 A R	FTN 40 A L	Tr 40x7	1	55	68	84	8.5	14	8.5	65	15	6	M8	1.066	3727
FTN 40 M R	--	Tr 40x8	1	55	68	84	8.5	14	8.5	65	15	6	M8	1.075	3675
FTN 45 A R	FTN 45 A L	Tr 45x8	1	55	72	90	8.5	14	8.5	65	15	6	M8	0.999	4186
FTN 50 R R	FTN 50 R L	Tr 50x3	1	65	80	100	10.5	17	10.5	80	20	6	M10	1.679	6095
FTN 50 Q R	FTN 50 Q L	Tr 50x4	1	65	80	100	10.5	17	10.5	80	20	6	M10	1.693	6030
FTN 50 P R	FTN 50 P L	Tr 50x5	1	65	80	100	10.5	17	10.5	80	20	6	M10	1.707	5970
FTN 50 O R	FTN 50 O L	Tr 50x6	1	65	80	100	10.5	17	10.5	80	20	6	M10	1.721	5905
FTN 50 A R	FTN 50 A L	Tr 50x8	1	65	80	100	10.5	17	10.5	80	20	6	M10	1.749	5780
FTN 55 A R	--	Tr 55x9	1	65	80	100	10.5	17	10.5	80	20	6	M10	1.475	6345
FTN 60 O R	FTN 60 O L	Tr 60x6	1	75	95	120	12.5	19	12.5	100	25	6	M12	2.865	8950
FTN 60 N R	FTN 60 N L	Tr 60x7	1	75	95	120	12.5	19	12.5	100	25	6	M12	2.886	8875
FTN 60 A R	FTN 60 A L	Tr 60x9	1	75	95	120	12.5	19	12.5	100	25	6	M12	2.927	8718

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

Trapezoidal nut type FXN - Flanged bronze

Material: EN 1982 Cu Sn12-C – CC483K

Tin bronze nut especially suitable for continuous movement with good wear resistance. Good lubrication is recommended. Flange dimensions make them fully interchangeable with FTN, HDL, HAL and FCS (total length and flange thickness change).



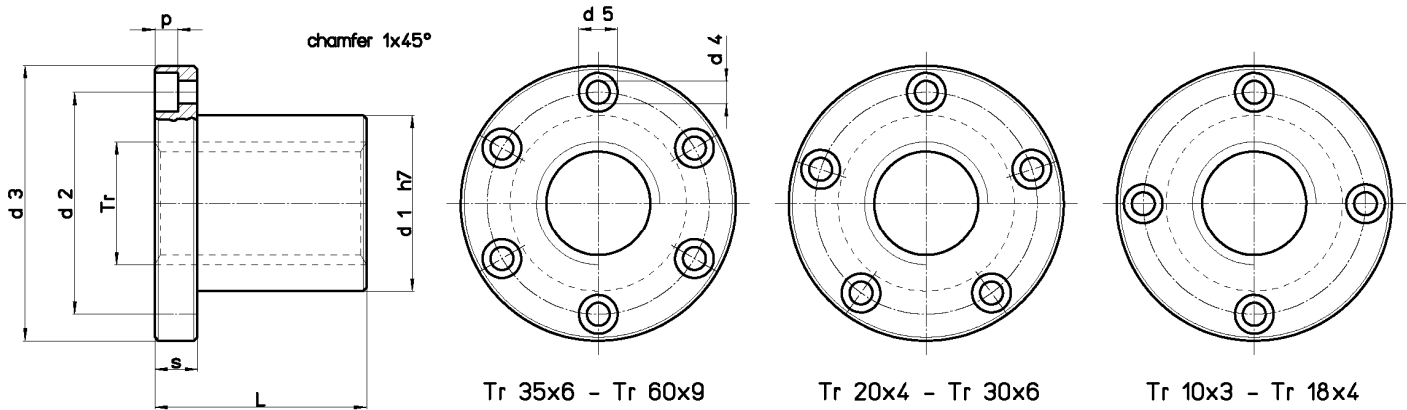
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	p mm	L mm	s mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
FXN 10 A R	FXN 10 A L	Tr 10x3	1	18	26	37	4.5	7.5	4.2	22	8	4	M4	0.088	294
FXN 12 A R	FXN 12 A L	Tr 12x3	1	18	26	37	4.5	7.5	4.2	22	8	4	M4	0.082	362
FXN 12 B R	--	Tr 12x6 (P3)	2	18	26	37	4.5	7.5	4.2	22	8	4	M4	0.082	362
FXN 14 A R	FXN 14 A L	Tr 14x4	1	20	30	42	5.5	9,5	5.2	25	10	4	M5	0.123	470
FXN 16 A R	FXN 16 A L	Tr 16x4	1	22	32	45	5.5	9,5	5.2	30	10	4	M5	0.149	660
FXN 16 B R	--	Tr 16x8 (P4)	2	22	32	45	5.5	9,5	5.2	30	10	4	M5	0.149	660
FXN 18 A R	FXN 18 A L	Tr 18x4	1	25	35	48	5.5	9,5	5.2	35	10	4	M5	0.188	880
FXN 20 A R	FXN 20 A L	Tr 20x4	1	30	40	52	5.5	9,5	5.2	40	10	4	M5	0.267	1130
FXN 20 B R	--	Tr 20x8 (P4)	2	30	40	52	5.5	9,5	5.2	40	10	4	M5	0.267	1130
FXN 20 E R	--	Tr 20x20 (P4)	5	30	40	52	5,5	9,5	5,2	40	10	4	M5	0,270	1100
FXN 20 D R	--	Tr 20x20 (P5)	4	30	40	52	5,5	9,5	5,2	40	10	4	M5	0,270	1100
FXN 22 A R	FXN 22 A L	Tr 22x5	1	30	40	52	5.5	9,5	5.2	40	10	4	M5	0.247	1225
FXN 24 A R	FXN 24 A L	Tr 24x5	1	35	48	62	6.5	11	6.5	45	12	6	M6	0.408	1520
FXN 25 A R	FXN 25 A L	Tr 25x5	1	35	48	62	6.5	11	6.5	45	12	6	M6	0.393	1590
FXN 25 B R	--	Tr 25x10 (P5)	2	35	48	62	6.5	11	6.5	45	12	6	M6	0.393	1590
FXN 25 E R	--	Tr 25x25 (P5)	5	35	48	62	6.5	11	6.5	45	12	6	M6	0.393	1590
FXN 26 A R	FXN 26 A L	Tr 26x5	1	35	48	62	6.5	11	6.5	45	12	6	M6	0.378	1660
FXN 28 A R	FXN 28 A L	Tr 28x5	1	40	53	68	6.5	11	6.5	50	12	6	M6	0.532	2000
FXN 28 B R	--	Tr 28x10 (P5)	2	40	53	68	6.5	11	6.5	50	12	6	M6	0.532	2000
FXN 30 A R	FXN 30 A L	Tr 30x6	1	40	53	68	6.5	11	6.5	50	12	6	M6	0.497	2120
FXN 30 B R	--	Tr 30x12 (P6)	2	40	53	68	6.5	11	6.5	50	12	6	M6	0.497	2120
FXN 30 F R	--	Tr 30x30 (P5)	6	40	53	68	6.5	11	6.5	50	12	6	M6	0.492	2160
FXN 32 A R	FXN 32 A L	Tr 32x6	1	40	53	68	6.5	11	6.5	50	12	6	M6	0.455	2277
FXN 35 A R	FXN 35 A L	Tr 35x6	1	50	63	78	8.5	14	8.5	60	15	6	M8	0.883	3015
FXN 36 A R	FXN 36 A L	Tr 36x6	1	50	63	78	8.5	14	8.5	60	15	6	M8	0.854	3110
FXN 40 A R	FXN 40 A L	Tr 40x7	1	55	68	84	8.5	14	8.5	65	15	6	M8	1.066	3727
FXN 40 B R	--	Tr 40x14 (P7)	2	55	68	84	8.5	14	8.5	65	15	6	M8	1.066	3727
FXN 40 E R	--	Tr 40x40 (P8)	5	55	68	84	8.5	14	8.5	65	15	6	M8	1.075	3675
FXN 44 A R	FXN 44 A L	Tr 44x7	1	55	72	90	8.5	14	8.5	65	15	6	M8	1.029	4135
FXN 45 A R	FXN 45 A L	Tr 45x8	1	55	72	90	8.5	14	8.5	65	15	6	M8	0.999	4186
FXN 50 A R	FXN 50 A L	Tr 50x8	1	65	80	100	10.5	17	10.5	80	20	6	M10	1.749	5780
FXN 55 A R	--	Tr 55x9	1	65	80	100	10.5	17	10.5	80	20	6	M10	1.475	6345
FXN 60 A R	FXN 60 A L	Tr 60x9	1	75	95	120	12.5	19	12.5	100	25	6	M12	2.927	8718

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

Trapezoidal nut type FMT - Flanged bronze

Material: EN 1982 Cu Sn12-C – CC483K

Tin bronze nut especially suitable for continuous movement with good wear resistance. Good lubrication is recommended.



PAY ATTENTION TO THE NUMBER OF FASTENING SCREW HOLES SPECIFIED IN THE TABLE

Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	p mm	L mm	s mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
FMT 10 A R	--	Tr 10x3	1	18	26	37	4.5	7.5	4.2	22	8	4	M4	0.088	294
FMT 12 A R	FMT 12 A L	Tr 12x3	1	18	26	37	4.5	7.5	4.2	22	8	4	M4	0.082	362
FMT 12 B R	--	Tr 12x6 (P3)	2	18	26	37	4.5	7.5	4.2	22	8	4	M4	0.082	362
FMT 14 A R	FMT 14 A L	Tr 14x4	1	20	30	42	5.5	9,5	5.2	25	10	4	M5	0.123	470
FMT 16 A R	FMT 16 A L	Tr 16x4	1	22	32	45	5.5	9,5	5.2	30	10	4	M5	0.149	660
FMT 16 B R	--	Tr 16x8 (P4)	2	22	32	45	5.5	9,5	5.2	30	10	4	M5	0.149	660
FMT 18 A R	FMT 18 A L	Tr 18x4	1	25	35	48	5.5	9,5	5.2	35	10	4	M5	0.188	880
FMT 20 A R	FMT 20 A L	Tr 20x4	1	30	40	52	5.5	9,5	5.2	40	10	5	M5	0.263	1130
FMT 20 B R	--	Tr 20x8 (P4)	2	30	40	52	5.5	9,5	5.2	40	10	5	M5	0.263	1130
FMT 22 A R	FMT 22 A L	Tr 22x5	1	30	40	52	5.5	9,5	5.2	40	10	5	M5	0.244	1225
FMT 25 A R	FMT 25 A L	Tr 25x5	1	35	48	62	6.5	11	6.5	45	12	5	M6	0.386	1590
FMT 25 B R	--	Tr 25x10 (P5)	2	35	48	62	6.5	11	6.5	45	12	5	M6	0.386	1590
FMT 28 A R	FMT 28 A L	Tr 28x5	1	40	53	68	6.5	11	6.5	50	12	5	M6	0.538	2000
FMT 30 A R	FMT 30 A L	Tr 30x6	1	40	53	68	6.5	11	6.5	50	12	5	M6	0.504	2120
FMT 30 B R	--	Tr 30x12 (P6)	2	40	53	68	6.5	11	6.5	50	12	5	M6	0.504	2120
FMT 35 A R	FMT 35 A L	Tr 35x6	1	50	63	78	6.5	11	6.5	60	12	6	M6	0.872	3015
FMT 36 A R	FMT 36 A L	Tr 36x6	1	50	63	78	6.5	11	6.5	60	12	6	M6	0.845	3110
FMT 40 A R	FMT 40 A L	Tr 40x7	1	55	68	84	6.5	11	6.5	65	12	6	M6	1.059	3727
FMT 40 B R	--	Tr 40x14 (P7)	2	55	68	84	6.5	11	6.5	65	12	6	M6	1.059	3727
FMT 45 A R	FMT 45 A L	Tr 45x8	1	55	72	90	8.5	14	8.5	65	15	6	M8	0.999	4186
FMT 50 A R	FMT 50 A L	Tr 50x8	1	65	80	100	8.5	14	8.5	80	15	6	M8	1.679	5780
FMT 55 A R	--	Tr 55x9	1	70	95	120	10.5	17	10.5	80	18	6	M10	2.325	6345
FMT 60 A R	FMT 60 A L	Tr 60x9	1	75	95	120	10.5	17	10.5	100	18	6	M10	2.701	8718

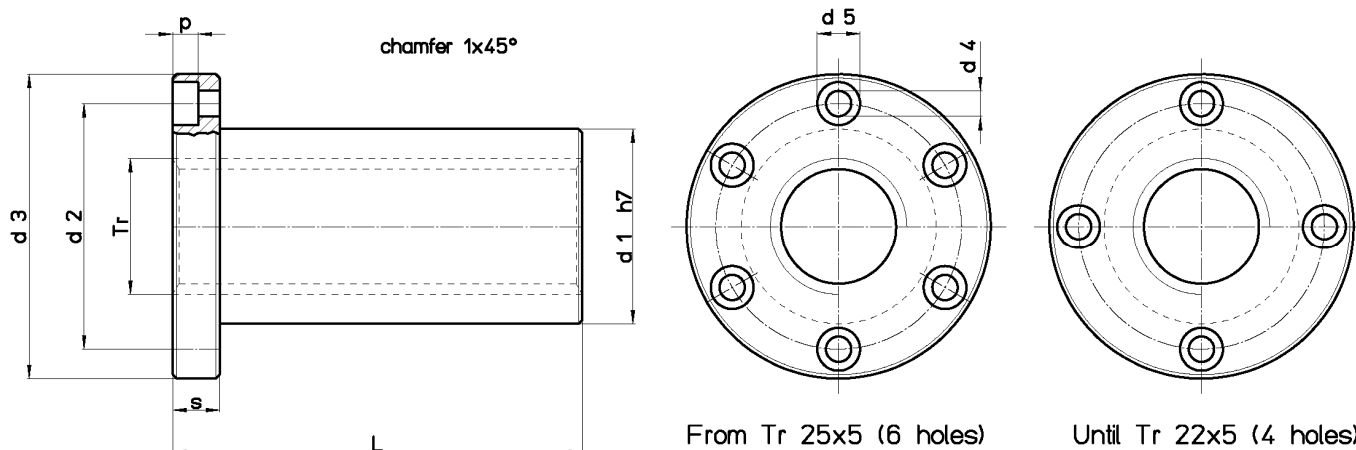
(1) Total bearing surface between screw and nut teeth on plane perpendicular to axis.

Trapezoidal nut type HDL - Flanged bronze

Material: EN 1982 Cu Sn12-C – CC483K

Flanged Bronze Nut of considerable length 3xTr suitable for operation under load with high loads and/or high movement speed. The special length of 3xTr greatly limits wear. Good lubrication is recommended.

Flange dimensions make them fully interchangeable with FTN, HDL, HAL and FCS (total length and flange thickness change).



Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	p mm	L mm	s mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
HDL 14 A R	HDL 14 A L	Tr 14x4	1	20	30	42	5.5	9,5	5.2	42	10	4	M5	0.151	790
HDL 16 A R	HDL 16 A L	Tr 16x4	1	22	32	45	5.5	9,5	5.2	48	10	4	M5	0.183	1056
HDL 16 B R	--	Tr 16x8 (P4)	2	22	32	45	5.5	9,5	5.2	48	10	4	M5	0.183	1056
HDL 18 A R	HDL 18 A L	Tr 18x4	1	25	35	48	5.5	9,5	5.2	54	10	4	M5	0.233	1356
HDL 20 A R	HDL 20 A L	Tr 20x4	1	30	40	52	5.5	9,5	5.2	60	12	4	M5	0.368	1696
HDL 20 B R	--	Tr 20x8 (P4)	2	30	40	52	5.5	9,5	5.2	60	12	4	M5	0.368	1696
HDL 22 A R	HDL 22 A L	Tr 22x5	1	30	40	52	5.5	9,5	5.2	60	12	4	M5	0.338	1838
HDL 25 A R	HDL 25 A L	Tr 25x5	1	35	48	62	6.5	11	6.5	75	15	6	M6	0.586	2650
HDL 25 B R	--	Tr 25x10 (P5)	2	35	48	62	6.5	11	6.5	75	15	6	M6	0.586	2650
HDL 25 E R	--	Tr 25x25 (P5)	5	35	48	62	6.5	11	6.5	75	15	6	M6	0.586	2650
HDL 28 A R	HDL 28 A L	Tr 28x5	1	40	53	68	6.5	11	6.5	90	18	6	M6	0.903	3600
HDL 28 B R	--	Tr 28x10 (P5)	2	40	53	68	6.5	11	6.5	90	18	6	M6	0.903	3600
HDL 30 A R	HDL 30 A L	Tr 30x6	1	40	53	68	6.5	11	6.5	90	18	6	M6	0.841	3816
HDL 30 B R	--	Tr 30x12 (P6)	2	40	53	68	6.5	11	6.5	90	18	6	M6	0.841	3816
HDL 30 R R	HDL 30 R L	Tr 30x3	1	40	53	68	6.5	11	6.5	90	18	6	M6	0.784	4029
HDL 32 A R	HDL 32 A L	Tr 32x6	1	40	53	68	6.5	11	6.5	90	18	6	M6	0.765	4100
HDL 35 A R	HDL 35 A L	Tr 35x6	1	50	63	78	8.5	14	8.5	105	20	6	M8	1.439	5277
HDL 40 A R	HDL 40 A L	Tr 40x7	1	55	68	84	8.5	14	8.5	120	25	6	M8	1.937	6880
HDL 40 I R	--	Tr 40x10	1	55	68	84	8.5	14	8.5	120	25	6	M8	1.986	6597
HDL 40 B R	--	Tr 40x14 (P7)	2	55	68	84	8.5	14	8.5	120	25	6	M8	1.937	6880
HDL 40 Q R	--	Tr 40x4	1	55	68	84	8.5	14	8.5	120	25	6	M8	1.929	7163
HDL 50 O R	--	Tr 50x6	1	65	80	100	10.5	17	10.5	150	30	6	M10	3.007	11074
HDL 50 A R	HDL 50 A L	Tr 50x8	1	65	80	100	10.5	17	10.5	150	30	6	M10	3.075	10840
HDL 50 I R	--	Tr 50x10	1	65	80	100	10.5	17	10.5	150	30	6	M10	3.127	10600
HDL 60 A R	HDL 60 A L	Tr 60x9	1	75	95	120	12.5	19	12.5	180	35	6	M12	4.797	15700

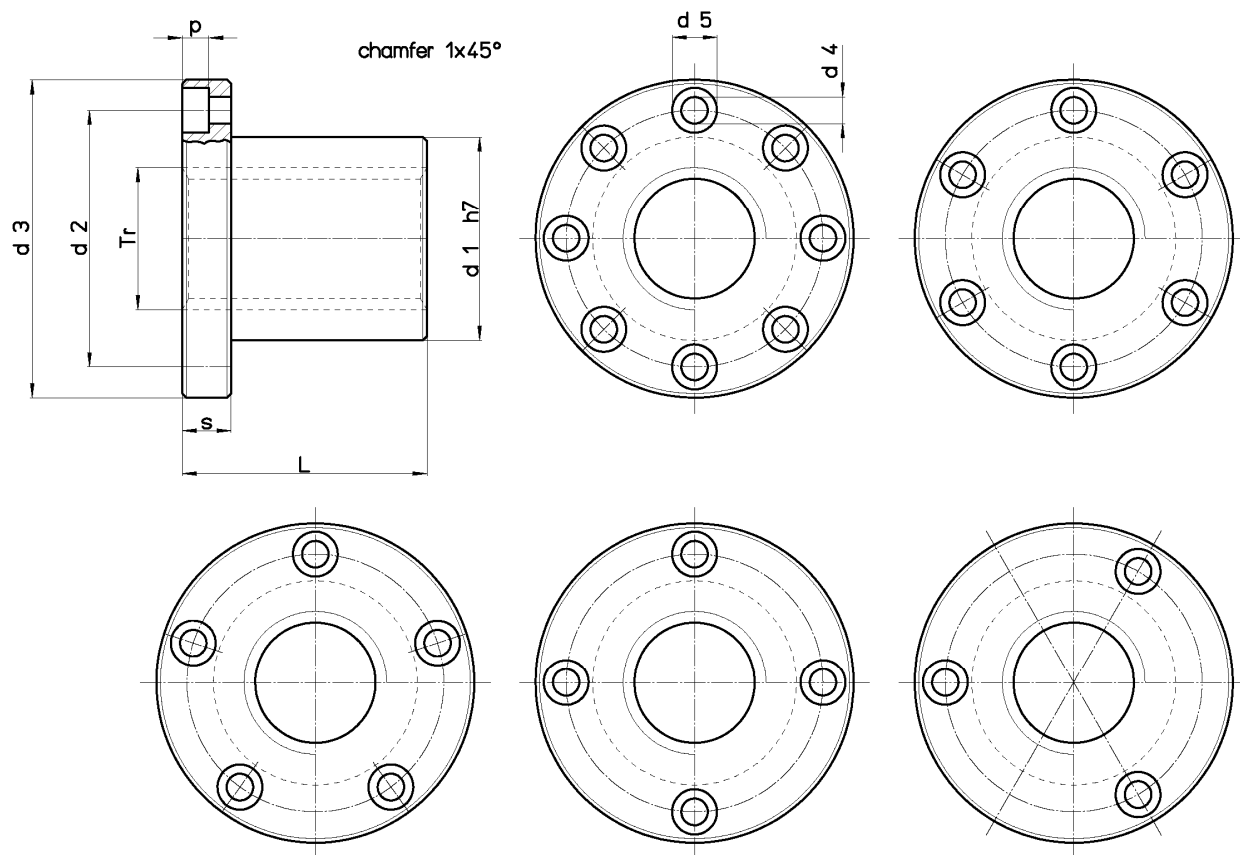
(1) Total bearing surface between screw and nut teeth on plane perpendicular to axis.

Trapezoidal nut type CBC - Flanged bronze

Material: EN 1982 Cu Sn12-C – CC483K

Flanged Bronze Nut suitable for movement with modest loads as compared with FXN, HDL and HAL.

Good lubrication is recommended.



PAY ATTENTION TO THE NUMBER OF FASTENING SCREW HOLES SPECIFIED IN THE TABLE

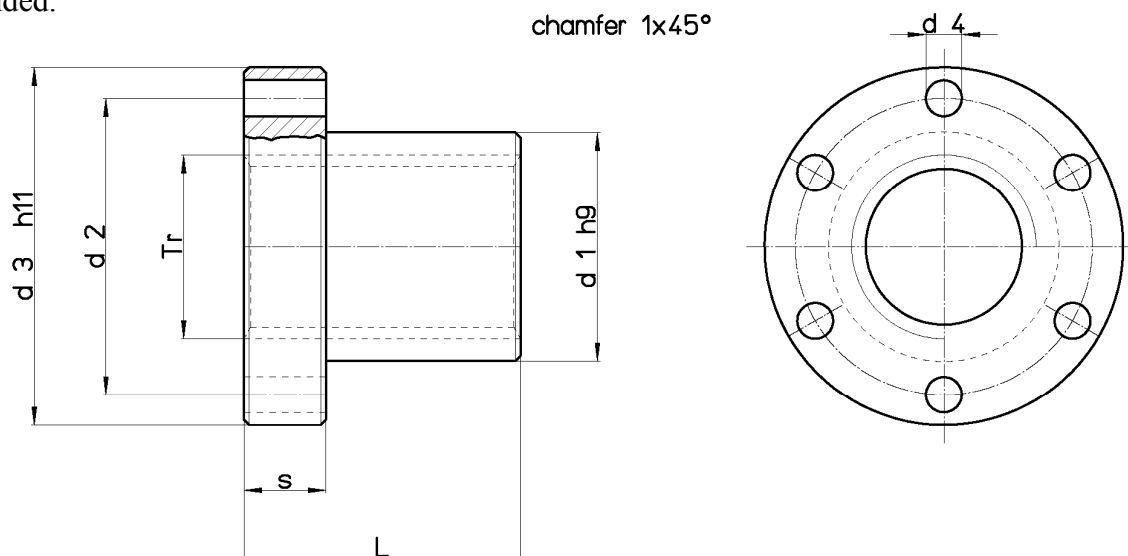
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	p mm	L mm	s mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
CBC 10 A R	CBC 10 A L	Tr 10x3	1	16	24	32	4.5	7.5	4.2	20	8	3	M4	0.062	267
CBC 12 A R	CBC 12 A L	Tr 12x3	1	18	26	35	4.5	7.5	4.2	22	8	4	M4	0.074	362
CBC 14 A R	CBC 14 A L	Tr 14x4	1	20	30	40	5.5	9,5	5.2	25	10	4	M5	0.111	470
CBC 16 A R	CBC 16 A L	Tr 16x4	1	22	32	42	5.5	9,5	5.2	30	10	4	M5	0.131	660
CBC 18 A R	CBC 18 A L	Tr 18x4	1	25	35	45	5.5	9,5	5.2	35	10	4	M5	0.168	880
CBC 20 A R	CBC 20 A L	Tr 20x4	1	30	40	50	5.5	9,5	5.2	40	10	5	M5	0.248	1130
CBC 25 A R	CBC 25 A L	Tr 25x5	1	35	48	60	6.5	11	6.5	45	12	5	M6	0.380	1590
CBC 28 A R	CBC 28 A L	Tr 28x5	1	40	53	65	6.5	11	6.5	50	12	5	M6	0.505	2000
CBC 30 A R	CBC 30 A L	Tr 30x6	1	40	53	65	6.5	11	6.5	50	12	5	M6	0.470	2120
CBC 35 A R	CBC 35 A L	Tr 35x6	1	50	63	75	6.5	11	6.5	60	12	6	M6	0.815	3015
CBC 36 A R	CBC 36 A L	Tr 36x6	1	50	63	75	6.5	11	6.5	60	12	6	M6	0.786	3110
CBC 40 A R	CBC 40 A L	Tr 40x7	1	55	68	80	6.5	11	6.5	65	12	6	M6	0.971	3727
CBC 45 A R	CBC 45 A L	Tr 45x8	1	60	73	85	6.5	11	6.5	80	12	8	M6	1.254	5152
CBC 50 A R	CBC 50 A L	Tr 50x8	1	65	78	90	6.5	11	6.5	80	12	8	M6	1.372	5780
CBC 55 A R	--	Tr 55x9	1	70	85	100	8.5	14	8.5	95	15	6	M8	1.893	7534
CBC 60 A R	CBC 60 A L	Tr 60x9	1	75	90	105	8.5	14	8.5	95	15	6	M8	2.042	8282
CBC 70 A R	CBC 70 A L	Tr 70x10	1	90	105	120	8.5	14	8.5	120	18	8	M8	3.715	12252
CBC 80 A R	CBC 80 A L	Tr 80x10	1	100	115	130	8.5	14	8.5	120	18	8	M8	4.178	14137
CBC 90 A R	--	Tr 90x12	1	120	135	150	10,5	0	0	140	25	8	M10	8,122	18473
CBC A0 A R	--	Tr 100x12	1	130	155	180	12,5	0	0	160	30	8	M12	11,561	23625
CBC C0 A R	--	Tr 120x14	1	150	170	195	14,5	0	0	180	35	8	M14	15,027	31950

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

Trapezoidal nut type FFR - Flanged bronze

Material: EN 1982 Cu Sn5 Zn5 Pb5-C – CC491K

Flanged bronze nut suitable for continuous movement with good wear resistance. Good lubrication is recommended.



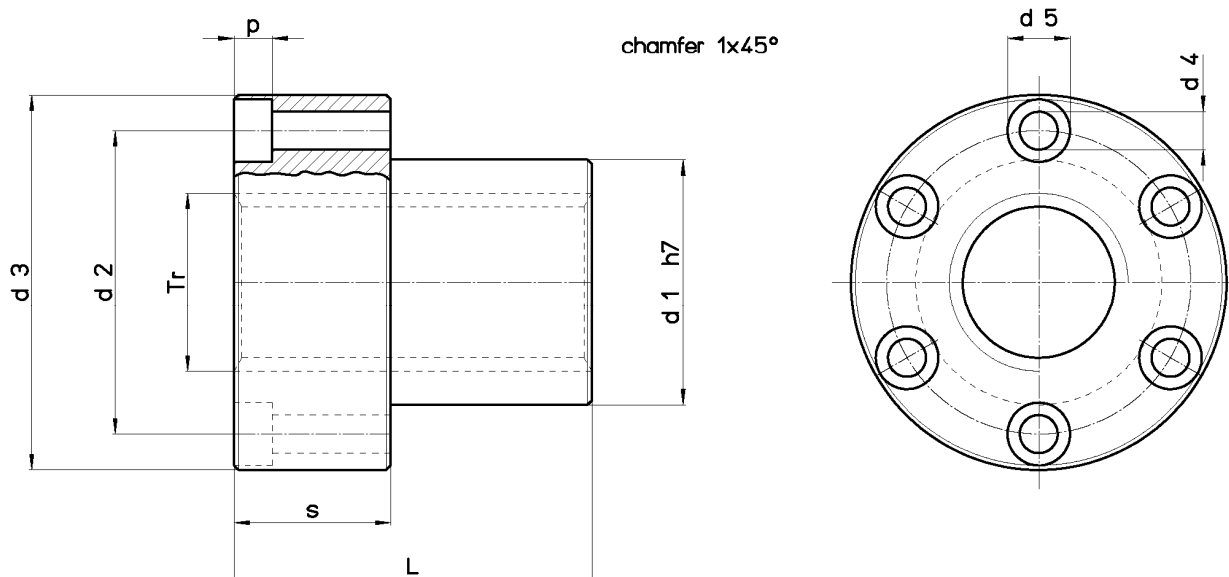
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	L mm	S mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
FFR 10 T R	FFR 10 T L	Tr 10x2	1	25	34	42	5	25	10	6	M4	0,164	353
FFR 10 J R	--	Tr 10x4 (P2)	2	25	34	42	5	25	10	6	M4	0,164	353
FFR 12 A R	FFR 12 A L	Tr 12x3	1	28	38	48	6	35	12	6	M5	0,276	577
FFR 12 B R	--	Tr 12x6 (P3)	2	28	38	48	6	35	12	6	M5	0,276	577
FFR 14 R R	FFR 14 R L	Tr 14x3	1	28	38	48	6	35	12	6	M5	0,272	687
FFR 14 B R	--	Tr 14x6 (P3)	2	28	38	48	6	35	12	6	M5	0,272	687
FFR 16 A R	FFR 16 A L	Tr 16x4	1	28	38	48	6	35	12	6	M5	0,260	770
FFR 16 B R	--	Tr 16x8 (P4)	2	28	38	48	6	35	12	6	M5	0,260	770
FFR 18 A R	FFR 18 A L	Tr 18x4	1	28	38	48	6	35	12	6	M5	0,247	880
FFR 18 B R	--	Tr 18x8 (P4)	2	28	38	48	6	35	12	6	M5	0,247	880
FFR 20 A R	FFR 20 A L	Tr 20x4	1	32	45	55	6,5	44	12	6	M6	0,370	1244
FFR 20 B R	--	Tr 20x8 (P4)	2	32	45	55	6,5	44	12	6	M6	0,370	1244
FFR 22 A R	FFR 22 A L	Tr 22x5	1	32	45	55	6,5	44	12	6	M6	0,360	1348
FFR 22 B R	--	Tr 22x10 (P5)	2	32	45	55	6,5	44	12	6	M6	0,360	1348
FFR 24 A R	FFR 24 A L	Tr 24x5	1	32	45	55	6,5	44	12	6	M6	0,337	1486
FFR 24 B R	--	Tr 24x10 (P5)	2	32	45	55	6,5	44	12	6	M6	0,337	1486
FFR 26 A R	FFR 26 A L	Tr 26x5	1	38	50	62	6,5	46	14	6	M6	0,516	1698
FFR 26 B R	--	Tr 26x10 (P5)	2	38	50	62	6,5	46	14	6	M6	0,516	1698
FFR 28 A R	FFR 28 A L	Tr 28x5	1	38	50	62	6,5	46	14	6	M6	0,472	1842
FFR 28 B R	--	Tr 28x10 (P5)	2	38	50	62	6,5	46	14	6	M6	0,472	1842
FFR 30 A R	FFR 30 A L	Tr 30x6	1	38	50	62	6,5	46	14	6	M6	0,421	1951
FFR 30 B R	--	Tr 30x12 (P6)	2	38	50	62	6,5	46	14	6	M6	0,421	1951
FFR 32 A R	FFR 32 A L	Tr 32x6	1	45	58	70	6,5	54	16	6	M6	0,779	2460
FFR 32 B R	--	Tr 32x12 (P6)	2	45	58	70	6,5	54	16	6	M6	0,779	2460
FFR 36 A R	FFR 36 A L	Tr 36x6	1	45	58	70	6,5	54	16	6	M6	0,694	2800
FFR 36 B R	--	Tr 36x12 (P6)	2	45	58	70	6,5	54	16	6	M6	0,694	2800
FFR 40 A R	FFR 40 A L	Tr 40x7	1	63	78	95	8,5	66	16	6	M8	1,788	3784
FFR 40 B R	--	Tr 40x14 (P7)	2	63	78	95	8,5	66	16	6	M8	1,788	3784
FFR 44 A R	FFR 44 A L	Tr 44x7	1	63	78	95	8,5	66	16	6	M8	1,657	4199
FFR 50 A R	FFR 50 A L	Tr 50x8	1	72	90	110	10,5	75	18	6	M10	2,500	5419
FFR 60 A R	FFR 60 A L	Tr 60x9	1	88	110	130	12,5	90	20	6	M12	4,260	7846
FFR 70 A R	FFR 70 A L	Tr 70x10	1	95	120	140	12,5	105	22	6	M12	5,303	10720
FFR 80 A R	FFR 80 A L	Tr 80x10	1	105	130	150	12,5	120	24	6	M12	6,094	14137

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

Trapezoidal nut type FHD - Flanged bronze

Material: EN 1982 Cu Sn12-C – CC483K

Tin bronze nut especially suitable for continuous movement with good wear resistance. Flange dimensions make them fully interchangeable with FTN, FXN, HDL, HAL and FCS (total length and flange thickness change). Good lubrication is recommended.



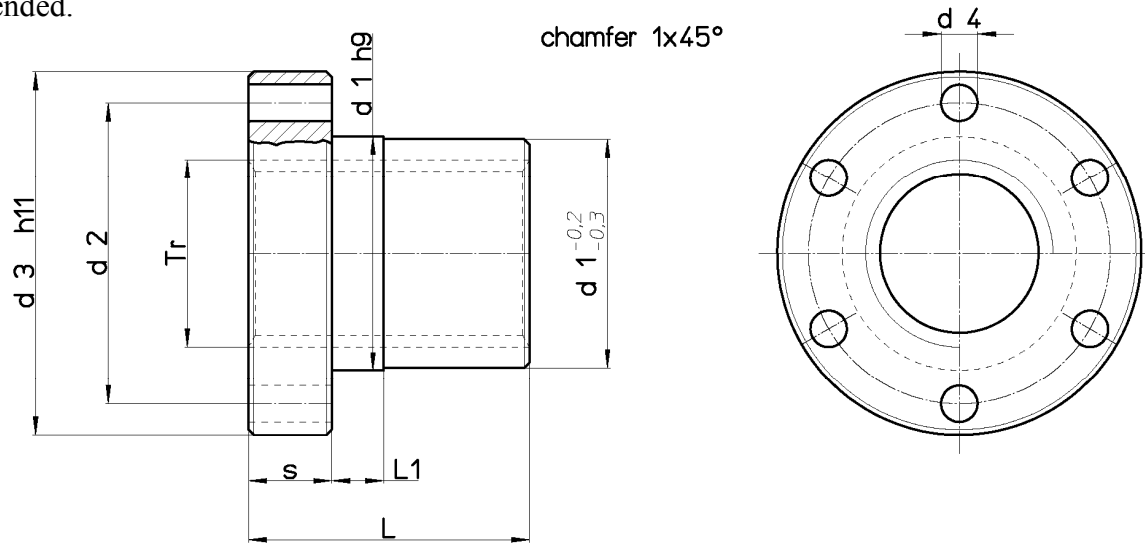
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	p mm	L mm	s mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
FHD 25 E R	--	Tr 25x25 (P5)	5	35	48	62	6.5	11	6.5	50	20	6	M6	0.581	1767
FHD 40 E R	--	Tr 40x40 (P8)	5	55	68	84	8.5	14	8.5	80	35	6	M8	1.849	4523

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

Trapezoidal nut type FEU - Flanged bronze

Material: EN 1982 Cu Sn7 Zn4 Pb7-C – CC493K

Flanged bronze nut suitable for continuous movement with good wear resistance. Good lubrication is recommended.



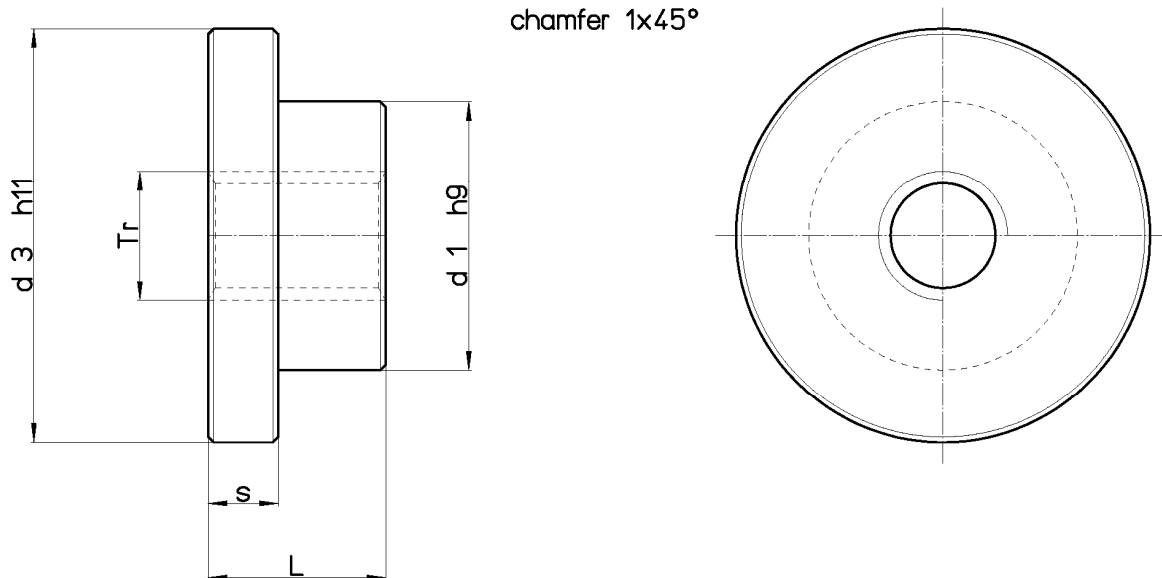
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	L mm	L1 mm	S mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
FEU 08 A R	--	Tr 8x1,5	1	18	26	35	3,5	20	6	7	6	M3	0,077	235
FEU 10 T R	FEU 10 T L	Tr 10x2	1	25	34	42	5	25	6	10	6	M4	0,164	353
FEU 10 J R	--	Tr 10x4 (P2)	2	25	34	42	5	25	6	10	6	M4	0,164	353
FEU 12 A R	FEU 12 A L	Tr 12x3	1	28	38	48	6	35	8	12	6	M5	0,271	577
FEU 12 B R	--	Tr 12x6 (P3)	2	28	38	48	6	35	8	12	6	M5	0,271	577
FEU 14 R R	FEU 14 R L	Tr 14x3	1	28	38	48	6	35	8	12	6	M5	0,259	687
FEU 14 B R	--	Tr 14x6 (P3)	2	28	38	48	6	35	8	12	6	M5	0,259	687
FEU 16 A R	FEU 16 A L	Tr 16x4	1	28	38	48	6	35	8	12	6	M5	0,248	770
FEU 16 B R	--	Tr 16x8 (P4)	2	28	38	48	6	35	8	12	6	M5	0,248	770
FEU 18 A R	FEU 18 A L	Tr 18x4	1	28	38	48	6	35	8	12	6	M5	0,232	880
FEU 18 B R	--	Tr 18x8 (P4)	2	28	38	48	6	35	8	12	6	M5	0,232	880
FEU 20 A R	FEU 20 A L	Tr 20x4	1	32	45	55	6,5	44	8	12	6	M6	0,353	1244
FEU 20 B R	--	Tr 20x8 (P4)	2	32	45	55	6,5	44	8	12	6	M6	0,353	1244
FEU 22 A R	FEU 22 A L	Tr 22x5	1	32	45	55	6,5	44	8	12	6	M6	0,335	1348
FEU 22 B R	--	Tr 22x10 (P5)	2	32	45	55	6,5	44	8	12	6	M6	0,335	1348
FEU 24 A R	FEU 24 A L	Tr 24x5	1	32	45	55	6,5	44	8	12	6	M6	0,308	1486
FEU 24 B R	--	Tr 24x10 (P5)	2	32	45	55	6,5	44	8	12	6	M6	0,308	1486
FEU 26 A R	FEU 26 A L	Tr 26x5	1	38	50	62	6,5	46	8	14	6	M6	0,485	1698
FEU 26 B R	--	Tr 26x10 (P5)	2	38	50	62	6,5	46	8	14	6	M6	0,485	1698
FEU 28 A R	FEU 28 A L	Tr 28x5	1	38	50	62	6,5	46	8	14	6	M6	0,452	1842
FEU 28 B R	--	Tr 28x10 (P5)	2	38	50	62	6,5	46	8	14	6	M6	0,452	1842
FEU 30 A R	FEU 30 A L	Tr 30x6	1	38	50	62	6,5	46	8	14	6	M6	0,425	1951
FEU 30 B R	--	Tr 30x12 (P6)	2	38	50	62	6,5	46	8	14	6	M6	0,425	1951
FEU 32 A R	FEU 32 A L	Tr 32x6	1	45	58	70	6,5	54	10	16	6	M6	0,721	2460
FEU 32 B R	--	Tr 32x12 (P6)	2	45	58	70	6,5	54	10	16	6	M6	0,721	2460
FEU 36 A R	FEU 36 A L	Tr 36x6	1	45	58	70	6,5	54	10	16	6	M6	0,625	2800
FEU 36 B R	--	Tr 36x12 (P6)	2	45	58	70	6,5	54	10	16	6	M6	0,625	2800
FEU 40 A R	FEU 40 A L	Tr 40x7	1	63	78	95	8,5	66	12	16	6	M8	1,706	3784
FEU 40 B R	--	Tr 40x14 (P7)	2	63	78	95	8,5	66	12	16	6	M8	1,706	3784
FEU 44 A R	FEU 44 A L	Tr 44x7	1	63	78	95	8,5	66	12	16	6	M8	1,560	4199
FEU 50 A R	FEU 50 A L	Tr 50x8	1	72	90	110	10,5	75	14	18	6	M10	2,353	5419
FEU 60 A R	FEU 60 A L	Tr 60x9	1	88	110	130	12,5	90	16	20	6	M12	4,022	7846
FEU 70 A R	FEU 70 A L	Tr 70x10	1	95	120	140	12,5	105	18	22	6	M12	4,920	10720
FEU 80 A R	FEU 80 A L	Tr 80x10	1	105	130	150	12,5	120	20	24	6	M12	6,184	14137

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

Trapezoidal nut type FSF - Flanged bronze

Material: EN 1982 Cu Sn7 Zn4 Pb7-C – CC493K

Flanged bronze nut suitable for continuous movement with good wear resistance. Good lubrication is recommended.



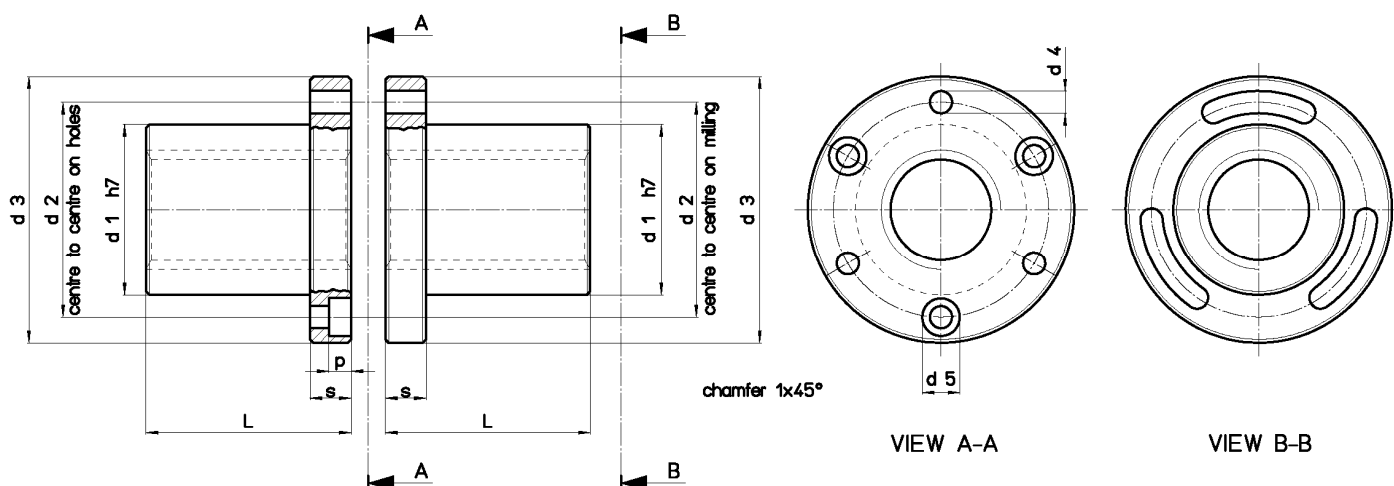
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d3 mm	L mm	S mm	Wt. kg/each	At mm ² (1)
FSF 10 T R	FSF 10 T L	Tr 10x2	1	20	35	15	6	0,067	212
FSF 10 J R	--	Tr 10x4 (P2)	2	20	35	15	6	0,067	212
FSF 12 A R	FSF 12 A L	Tr 12x3	1	24	42	20	7	0,121	330
FSF 12 B R	--	Tr 12x6 (P3)	2	24	42	20	7	0,121	330
FSF 14 R R	FSF 14 R L	Tr 14x3	1	30	52	24	10	0,248	471
FSF 16 A R	FSF 16 A L	Tr 16x4	1	30	52	24	10	0,241	528
FSF 16 B R	--	Tr 16x8 (P4)	2	30	52	24	10	0,241	528
FSF 20 A R	FSF 20 A L	Tr 20x4	1	38	62	26	11	0,384	735
FSF 20 B R	--	Tr 20x8 (P4)	2	38	62	26	11	0,384	735
FSF 24 A R	FSF 24 A L	Tr 24x5	1	50	77	33	13	0,775	1114
FSF 24 B R	--	Tr 24x10 (P5)	2	50	77	33	13	0,775	1114
FSF 30 A R	FSF 30 A L	Tr 30x6	1	58	90	48	15	1,368	2036
FSF 30 B R	--	Tr 30x12 (P6)	2	58	90	48	15	1,368	2036
FSF 36 A R	FSF 36 A L	Tr 36x6	1	80	115	60	20	3,166	3110
FSF 36 B R	--	Tr 36x12 (P6)	2	80	115	60	20	3,166	3110
FSF 40 A R	FSF 40 A L	Tr 40x7	1	80	140	65	20	4,129	3726
FSF 40 B R	--	Tr 40x14 (P7)	2	80	140	65	20	4,129	3726
FSF 50 A R	FSF 50 A L	Tr 50x8	1	90	170	70	20	5,808	5058

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

Trapezoidal nut type CDF - Double flanged bronze

Material: EN 1982 Cu Sn12-C – CC483K

Tin bronze nut especially suitable for continuous movement with good wear resistance. CDF nuts allow play adjustment between screw and nut. Working with preloaded nuts is only possible when using ball screws. Good lubrication is recommended.



Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	p mm	L mm	s mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
CDF 25 B R	--	Tr 25x10 (P5)	2	35	48	62	6.5	11	6.5	45	12	6	M6	0.786	1590
CDF 25 E R	--	Tr 25x25 (P5)	5	35	48	62	6.5	11	6.5	45	12	6	M6	0.786	1590
CDF 28 B R	--	Tr 28x10 (P5)	2	40	53	68	6.5	11	6.5	50	12	6	M6	1.064	2000

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

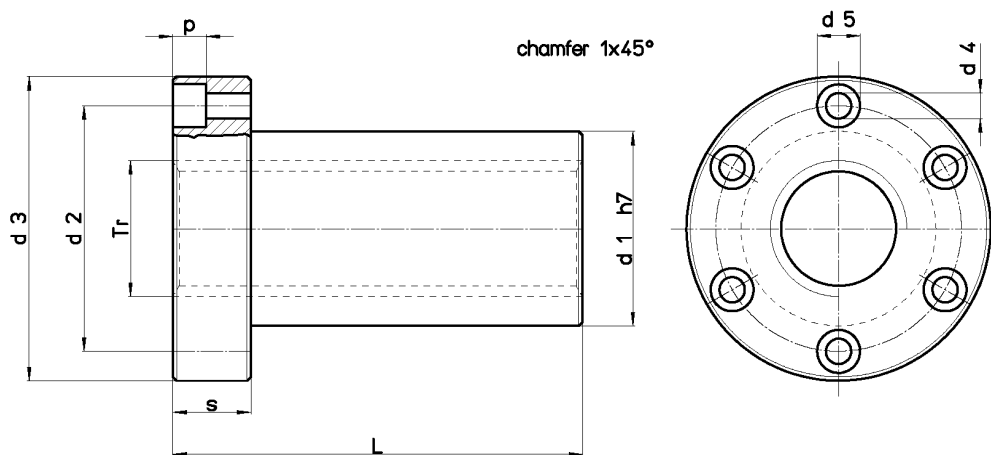
Installation Instructions:

- Nuts are supplied in pairs tied together. The pairs should be kept together when installed. Each nut pair has a notch cut on the external cylindrical part of the flange for correct installation. This notch should be identified immediately and referred to when installing as set forth below.
- Identify the nut to be fastened first; it is the nut with six holes in the flange and of which only three have seats for the cylindrical head screws with recessed hexagon (socket head screw). The second nut is the one with grooves on the flange and is to be fastened later.
- Fastening of the first nut to the structure which is to house it; fit the socket head screws in the three holes with seats for these screws. Insert the nut in its housing and fastened the three screws well; now the first nut is completely tightened in its seat.
- Fastening the second nut, the one which permits play adjustment. Identify the correct-assembly notch on both the nuts. Bring the second nut to the first nut flange-to-flange. Align the assembly notches on the flanges of the two nuts and fit in the three flange grooves the three screws which will be used for assembly of the second nut on the machine frame. Turn in the three screws just inserted in such a way that the two nuts rest against each other but do not tighten the screws yet. The nuts must rotate together.
- Screw assembly; assemble the screw by screwing it into the two nuts.
- Play adjustment. Rotate the second nut against the first nut so as to have the desired play and then tighten the three nuts locking the second nut to the frame.

Trapezoidal nut type HAL - Flanged aluminium bronze

Material: EN 1982 CuAl11Fe6Ni6-C – CC333G

Long flanged bronze nut 3xTr designed for operation with heavy loads thanks to the extreme hardness of aluminium bronze. The special 3xTr length greatly limits wear. The dimensions of the flange make them fully interchangeable with FTN, FXN, HDL and FCS (total length and flange thickness change). Generous and continuous lubrication of the HAL is recommended during use.



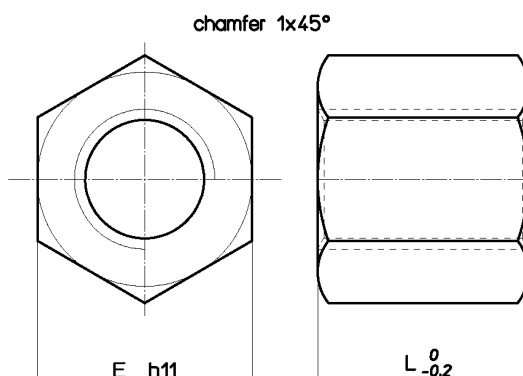
Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	p mm	L mm	s mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
HAL 30 A R	HAL 30 A L	Tr 30x6	1	40	53	68	6.5	11	6.5	90	18	6	M6	0.712	3816
HAL 35 A R	--	Tr 35x6	1	50	63	78	8.5	14	8.5	105	20	6	M8	1.222	5277
HAL 40 A R	HAL 40 A L	Tr 40x7	1	55	68	84	8.5	14	8.5	120	25	6	M8	1.622	6880
HAL 40 I R	--	Tr 40x10	1	55	68	84	8.5	14	8.5	120	25	6	M8	1.684	6597
HAL 50 A R	HAL 50 A L	Tr 50x8	1	65	80	100	10.5	17	10.5	150	30	6	M10	2.590	10840
HAL 50 I R	--	Tr 50x10	1	65	80	100	10.5	17	10.5	150	30	6	M10	2.670	10600
HAL 60 A R	--	Tr 60x9	1	75	95	118	12.5	19	12.5	180	35	6	M12	3.982	15700

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

Trapezoidal nut type MES – Hexagonal in steel

Material: EN 10277-3 11SMnPb37 – 1.0737

Fixing nut very convenient thanks to its hexagonal shape. Not suitable for operations with high loads, because the coupling steel-steel tends to seize. This nuts can be MIG welded only. Electrode welding is not recommended because of the lead.

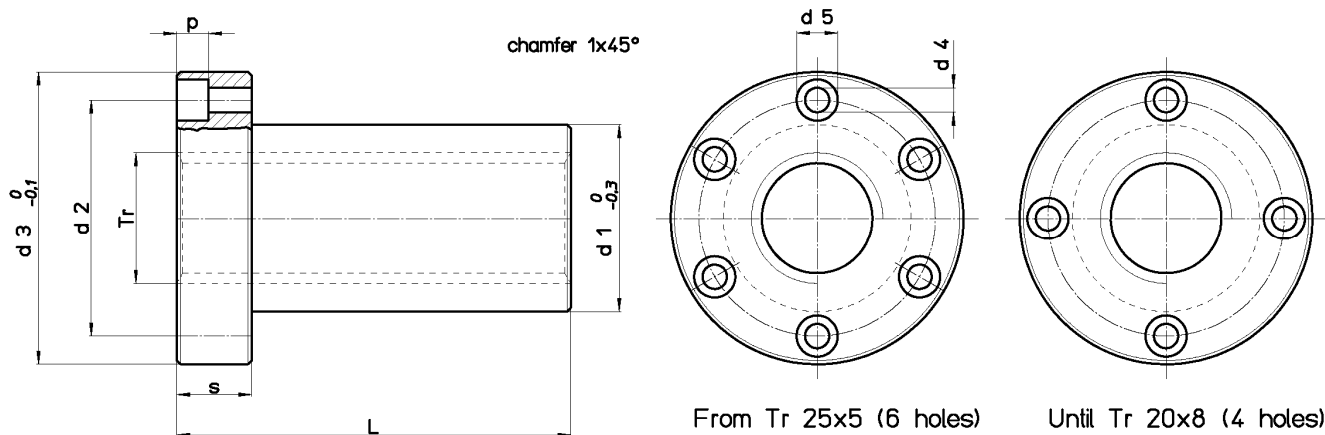


Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	E mm	L mm	Wt. kg/each	At mm ² (1)
MES 10 T R	MES 10 T L	Tr 10x2	1	17	15	0.023	212
MES 10 A R	MES 10 A L	Tr 10x3	1	17	15	0.021	200
MES 12 A R	MES 12 A L	Tr 12x3	1	19	18	0.027	296
MES 12 B R	--	Tr 12x6 (P3)	2	19	18	0.027	296
MES 14 R R	MES 14 R L	Tr 14x3	1	22	21	0.044	412
MES 14 A R	MES 14 A L	Tr 14x4	1	22	21	0.044	395
MES 14 B R	--	Tr 14x6 (P3)	2	22	21	0.044	412
MES 16 A R	MES 16 A L	Tr 16x4	1	27	24	0.082	528
MES 16 B R	--	Tr 16x8 (P4)	2	27	24	0.082	528
MES 18 A R	MES 18 A L	Tr 18x4	1	27	27	0.084	678
MES 20 A R	MES 20 A L	Tr 20x4	1	30	30	0.114	847
MES 20 B R	--	Tr 20x8 (P4)	2	30	30	0.114	847
MES 22 A R	MES 22 A L	Tr 22x5	1	30	33	0.112	1010
MES 24 A R	MES 24 A L	Tr 24x5	1	36	36	0.200	1215
MES 26 A R	MES 26 A L	Tr 26x5	1	36	39	0.193	1440
MES 28 A R	MES 28 A L	Tr 28x5	1	41	42	0.291	1680
MES 30 A R	MES 30 A L	Tr 30x6	1	46	45	0.420	1908
MES 30 B R	--	Tr 30x12 (P6)	2	46	45	0.420	1908
MES 32 A R	MES 32 A L	Tr 32x6	1	46	48	0.411	2186
MES 36 A R	MES 36 A L	Tr 36x6	1	55	54	0.706	2800
MES 40 A R	MES 40 A L	Tr 40x7	1	65	60	1.172	3440
MES 44 A R	MES 44 A L	Tr 44x7	1	65	66	1.159	4200
MES 50 A R	MES 50 A L	Tr 50x8	1	75	75	1.783	5418
MES 60 A R	MES 60 A L	Tr 60x9	1	90	90	3.087	7847
MES 70 A R	MES 70 A L	Tr 70x10	1	90	105	2.837	10720

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

Trapezoidal nut type FCS - Flanged self-lubricating plastic

Material: PA 6 + Mo S2 DIN 7728 + additives This Type of nut is made of a very wear-resistant perfectly self-lubricating plastic. It doesn't require any other lubrication as long as it is in use. The 3 x d length gives better load distribution and limits wear. The flange dimensions make them fully interchangeable with The FTN, FXN, HDL and HAL (total length and flange thickness are variable).

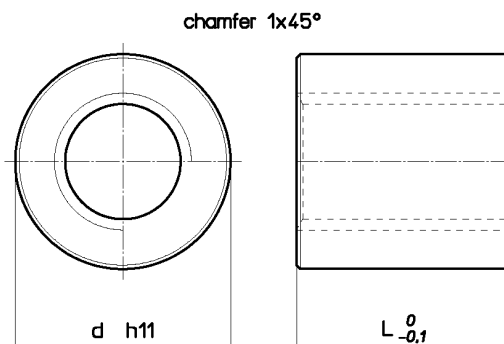


Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	p mm	L mm	s mm	no. screw holes	Fastening screws (class 8.8)	Wt. kg/each	At mm ² (1)
FCS 12 A R	FCS 12 A L	Tr 12x3	1	18	26	37	4.5	7.5	4.2	36	12	4	M4	0.016	594
FCS 16 A R	FCS 16 A L	Tr 16x4	1	22	32	45	5.5	9,5	5.2	48	16	4	M5	0.030	1056
FCS 20 A R	FCS 20 A L	Tr 20x4	1	30	40	52	5.5	9,5	5.2	60	20	4	M5	0.057	1696
FCS 20 B R	--	Tr 20x8 (P4)	2	30	40	52	5.5	9,5	5.2	60	20	4	M5	0.057	1696
FCS 25 A R	FCS 25 A L	Tr 25x5	1	35	48	62	6.5	11	6.5	75	25	6	M6	0.094	2650
FCS 28 A R	FCS 28 A L	Tr 28x5	1	40	53	68	6.5	11	6.5	90	30	6	M6	0.142	3600
FCS 28 B R	--	Tr 28x10 (P5)	2	40	53	68	6.5	11	6.5	90	30	6	M6	0.142	3600
FCS 30 A R	FCS 30 A L	Tr 30x6	1	40	53	68	6.5	11	6.5	90	30	6	M6	0.135	3816
FCS 35 A R	FCS 35 A L	Tr 35x6	1	50	63	78	8.5	14	8.5	105	35	6	M8	0.221	5277
FCS 40 A R	FCS 40 A L	Tr 40x7	1	55	68	84	8.5	14	8.5	120	40	6	M8	0.289	6880
FCS 40 I R	--	Tr 40x10	1	55	68	84	8.5	14	8.5	120	40	6	M8	0.252	6597
FCS 50 A R	FCS 50 A L	Tr 50x8	1	65	80	100	10.5	17	10.5	150	50	6	M10	0.476	10840

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

Trapezoidal nut type MPH - Cylindrical plastic

Material: PA 6 + Mo S2 DIN 7728 Highly wear resistant cylindrical plastic nut. Designed for low to medium loads. Lubricate MPH nuts occasionally with grease or oil to improve life. Do not use molybdenum disulfide MoS2 lubricants or graphite.



Nut Stock no. RIGHT	Nut Stock no. LEFT	Diameter x lead	Thread starts	d mm	L mm	Wt. kg/each	At mm ² (1)
MPH 12 A R	MPH 12 A L	Tr 12x3	1	26	24	0.012	396
MPH 12 B R	--	Tr 12x6 (P3)	2	26	24	0.012	396
MPH 16 A R	MPH 16 A L	Tr 16x4	1	36	32	0.030	704
MPH 20 A R	MPH 20 A L	Tr 20x4	1	45	40	0.060	1130
MPH 25 A R	MPH 25 A L	Tr 25x5	1	50	48	0.083	1696
MPH 28 A R	MPH 28 A L	Tr 28x5	1	60	60	0.154	2400
MPH 28 B R	--	Tr 28x10 (P5)	2	60	60	0.154	2400
MPH 30 A R	MPH 30 A L	Tr 30x6	1	60	60	0.150	2544
MPH 35 A R	MPH 35 A L	Tr 35x6	1	75	72	0.290	3618
MPH 40 A R	MPH 40 A L	Tr 40x7	1	80	80	0.355	4587
MPH 50 A R	MPH 50 A L	Tr 50x8	1	90	100	0.523	7225

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

Important note: These nuts are to be assembled only on our precision rolled screws which have suitable surface roughness and hardness. It is not possible to assemble FCS or MPH on screws made by machining. Be careful of the water-absorption of this material; it is not recommended for precision coupling due to the considerable dimensional variation resulting from relative humidity of the environment. Before selecting the plastic nut type, we recommend to consult our engineering department.

Trapezoidal nut specifications (also see pages for each nut type)

Diameter x lead	D 4 Major diameter tolerance H		D 2 Effective or pitch dia. tolerance 7 H		D 1 Minor diameter tolerance 4 H		Thread starts	Radial play between screw & nut		Axial play between screw & nut	
	min.	max.	min.	max.	min.	max.		min.	max.	min.	max.
	mm		mm		mm						
Tr 8 x 1,5	8,300		7,250	7,474	6,500	6,690	1	0,067	0,461	0,018	0,124
Tr 10 x 2	10.500		9.000	9.250	8.000	8.236	1	0.071	0.511	0.019	0.137
Tr 10 x 3	10.500		8.500	8.780	7.000	7.315	1	0.085	0.577	0.023	0.155
Tr 10 x 4 (P2)	10.500		9.000	9.250	8.000	8.236	2	0.071	0.511	0.019	0.137
Tr 12 x 3	12.500		10.500	10.800	9.000	9.315	1	0.085	0.609	0.023	0.163
Tr 12 x 6 (P3)	12.500		10.500	10.800	9.000	9.315	2	0.085	0.609	0.023	0.163
Tr 14 x 3	14.500		12.500	12.800	11.000	11.315	1	0.085	0.609	0.023	0.163
Tr 14 x 4	14.500		12.000	12.355	10.000	10.375	1	0.095	0.715	0.025	0.192
Tr 14 x 6 (P3)	14.500		12.500	12.800	11.000	11.315	2	0.085	0.609	0.023	0.163
Tr 16 x 4	16.500		14.000	14.355	12.000	12.375	1	0.095	0.715	0.025	0.192
Tr 16 x 8 (P4)	16.500		14.000	14.355	12.000	12.375	2	0.095	0.715	0.025	0.192
Tr 18 x 4	18.500		16.000	16.355	14.000	14.375	1	0.095	0.715	0.025	0.192
Tr 18 x 8 (P4)	18.500		16.000	16.355	14.000	14.375	2	0.095	0.715	0.025	0.192
Tr 20 x 4	20.500		18.000	18.355	16.000	16.375	1	0.095	0.715	0.025	0.192
Tr 20 x 8 (P4)	20.500		18.000	18.355	16.000	16.375	2	0.095	0.715	0.025	0.192
Tr 20 x 20 (P4)	20.500		17.500	17.875	15.000	15.450	5	0.106	0.761	0.028	0.204
Tr 20 x 20 (P5)	20.500		17.500	17.875	15.000	15.450	4	0.106	0.761	0.028	0.204
Tr 22 x 5	22.500		19.500	19.875	17.000	17.450	1	0.106	0.761	0.028	0.204
Tr 22 x 10 (P5)	22.500		19.500	19.875	17.000	17.450	2	0.106	0.761	0.028	0.204
Tr 24 x 5	24.500		21.500	21.900	19.000	19.450	1	0.106	0.806	0.028	0.216
Tr 24 x 10 (P5)	24.500		21.500	21.900	19.000	19.450	2	0.106	0.806	0.028	0.216
Tr 25 x 3	25.500		23.500	23.835	22.000	22.315	1	0.085	0.670	0.023	0.180
Tr 25 x 5	25.500		22.500	22.900	20.000	20.450	1	0.106	0.806	0.028	0.216
Tr 25 x 10 (P5)	25.500		22.500	22.900	20.000	20.450	2	0.106	0.806	0.028	0.216
Tr 25 x 25 (P5)	25.500		22.500	22.900	20.000	20.450	5	0.106	0.806	0.028	0.216
Tr 26 x 5	26.500		23.500	23.900	21.000	21.450	1	0.106	0.806	0.028	0.216
Tr 26 x 10 (P5)	26.500		23.500	23.900	21.000	21.450	2	0.106	0.806	0.028	0.216
Tr 28 x 5	28.500		25.500	25.900	23.000	23.450	1	0.106	0.806	0.028	0.216
Tr 28 x 10 (P5)	28.500		25.500	25.900	23.000	23.450	2	0.106	0.806	0.028	0.216
Tr 30 x 3	30.500		28.500	28.835	27.000	27.315	1	0.085	0.670	0.023	0.180
Tr 30 x 4	30.500		28.000	28.855	26.000	26.375	1	0.095	1.215	0.025	0.326
Tr 30 x 5	30.500		27.500	27.900	25.000	25.450	1	0.106	0.806	0.028	0.216
Tr 30 x 6	31.000		27.000	27.450	24.000	24.500	1	0.118	0.903	0.032	0.242
Tr 30 x 12 (P6)	31.000		27.000	27.450	24.000	24.500	2	0.118	0.903	0.032	0.242
Tr 30 x 30 (P5)	30.500		27.500	27.900	25.000	25.450	6	0.106	0.806	0.028	0.216
Tr 32 x 6	33.000		29.000	29.450	26.000	26.500	1	0.118	0.903	0.032	0.242
Tr 32 x 12 (P6)	33.000		29.000	29.450	26.000	26.500	2	0.118	0.903	0.032	0.242
Tr 35 x 3	35.500		33.500	33.835	32.000	32.315	1	0.085	0.670	0.023	0.180
Tr 35 x 4	35.500		33.000	33.355	31.000	31.375	1	0.095	0.715	0.025	0.192
Tr 35 x 5	35.500		32.500	32.900	30.000	30.450	1	0.106	0.806	0.028	0.216
Tr 35 x 6	36.000		32.000	32.450	29.000	29.500	1	0.118	0.903	0.032	0.242
Tr 35 x 8	36.000		31.000	31.500	27.000	27.630	1	0.132	1.007	0.035	0.270
Tr 36 x 6	37.000		33.000	33.450	30.000	30.500	1	0.118	0.903	0.032	0.242
Tr 36 x 12 (P6)	37.000		33.000	33.450	30.000	30.500	2	0.118	0.903	0.032	0.242

Trapezoidal nut specifications (also see pages for each nut type)

Diameter x lead	D 4 Major diameter tolerance H		D 2 Effective or pitch dia. tolerance 7 H		D 1 Minor diameter tolerance 4 H		Thread starts	Radial play between screw & nut		Axial play between screw & nut	
	min.	max.	min.	max.	min.	max.		min.	max.	min.	max.
	mm		mm		mm						
Tr 40 x 3	40.500		38.500	38.835	37.000	37.315	1	0.085	0.670	0.023	0.180
Tr 40 x 4	40.500		38.000	38.355	36.000	36.375	1	0.095	0.715	0.025	0.192
Tr 40 x 5	40.500		37.500	37.900	35.000	35.450	1	0.106	0.806	0.028	0.216
Tr 40 x 6	41.000		37.000	37.450	34.000	34.500	1	0.118	0.903	0.032	0.242
Tr 40 x 7	41.000		36.500	36.975	33.000	33.560	1	0.125	0.955	0.033	0.256
Tr 40 x 8	41.000		36.000	36.500	32.000	32.630	1	0.132	1.007	0.035	0.270
Tr 40 x 10	41.000		35.000	35.530	30.000	30.710	1	0.150	1.080	0.040	0.289
Tr 40 x 14 (P7)	41.000		36.500	36.975	33.000	33.560	2	0.125	0.955	0.033	0.256
Tr 40 x 40 (P8)	41.000		36.000	36.500	32.000	32.630	5	0.132	1.007	0.035	0.270
Tr 44 x 7	45.000		40.500	40.975	37.000	37.560	1	0.125	0.955	0.033	0.256
Tr 45 x 8	46.000		41.000	41.500	37.000	37.630	1	0.132	1.007	0.035	0.270
Tr 50 x 3	50.500		48.500	48.855	47.000	47.315	1	0.085	0.705	0.023	0.189
Tr 50 x 4	50.500		48.000	48.400	46.000	46.375	1	0.095	0.795	0.025	0.213
Tr 50 x 5	50.500		47.500	47.900	45.000	45.450	1	0.106	0.806	0.028	0.216
Tr 50 x 6	51.000		47.000	47.450	44.000	44.500	1	0.118	0.903	0.032	0.242
Tr 50 x 8	51.000		46.000	46.530	42.000	42.630	1	0.132	1.062	0.035	0.285
Tr 50 x 10	51.000		45.000	45.560	40.000	40.710	1	0.150	1.135	0.040	0.304
Tr 55 x 9	56.000		50.500	51.060	46.000	46.670	1	0.140	1.125	0.038	0.301
Tr 60 x 6	61.000		57.000	57.450	54.000	54.500	1	0.118	0.903	0.032	0.242
Tr 60 x 7	61.000		56.500	56.975	53.000	53.560	1	0.125	0.955	0.033	0.256
Tr 60 x 9	61.000		55.500	56.060	51.000	51.670	1	0.140	1.125	0.038	0.301
Tr 70 x 10	71.000		65.000	65.560	60.000	60.710	1	0.150	1.135	0.040	0.304
Tr 80 x 10	81.000		75.000	75.560	70.000	70.710	1	0.150	1.135	0.040	0.304
Tr 90 x 12	91.000		84.000	84.630	78.000	78.800	1	0.170	1.295	0.046	0.347
Tr 95 x 16	97.000		87.000	87.750	79.000	80.000	1	0.190	1.500	0.051	0.402
Tr 100 x 12	101.000		94.000	94.670	88.000	88.800	1	0.170	1.340	0.046	0.359
Tr 100 x 16	102.000		92.000	92.750	84.000	85.000	1	0.190	1.500	0.051	0.402
Tr 120 x 14	122.000		113.000	113.710	106.00	106.900	1	0.180	1.420	0.048	0.380
Tr 120 x 16	122.000		112.000	112.750	104.00	105.000	1	0.190	1.500	0.051	0.402
Tr 140 x 14	142.000		133.000	133.710	126.00	126.900	1	0.180	1.420	0.048	0.380
Tr 160 x 16	162.000		152.000	152.750	144.00	145.000	1	0.190	1.500	0.051	0.402

Stock number for ordering trapezoidal nuts

NUT	F	T	N	2	0	A	R
	1		2		3	4	

- 1 - Nut type: MLF - MZP - HSN - HBD - HDA - HBM - BIG - CQA - QOB - CQF - QBF
FTN - FXN - FMT - HDL - CBC - FFR - FHD - FEU - FSF - CDF - HAL - MES - FCS - MPH
see related pages.
- 2 - Nominal size of nut thread. Numerical value from table.
- 3 - Identifying letter of actual lead and number of threads starts. See page for nut type. The letter of the ordering stock number corresponding to the diameter and lead to order.
- 4 - R = right-hand; L = left-hand.

Examples of orders:

-- Flanged trapezoidal nut with length 3xTr bronze GB-Cu Sn12, Tr 40 lead 10 with 1 thread start, RH thread:

NUT	H	D	L	4	0	I	R
	1		2		3	4	

-- Cylindrical trapezoidal nut bronze GB-CuSn7ZnPb, Tr 20 lead 4 with 1 thread start, RH thread:

NUT	H	S	N	2	0	A	R
	1		2		3	4	

-- Cylindrical trapezoidal nut bronze GB-Cu Sn12, Tr 50 lead 3 with 1 start, LH thread:

NUT	B	I	G	5	0	R	L
	1		2		3	4	

-- Cylindrical trapezoidal nut steel 11 S Mn 30, Tr 60 lead 9 with 1 start, RH thread:

NUT	M	Z	P	6	0	A	R
	1		2		3	4	

For nuts finished to your drawing:

Send a drawing by fax or email to our offices. A stock number will be assigned to each individual drawing.