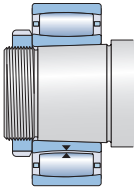
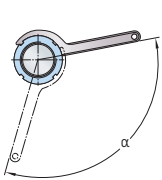
Mounting bearings with a tapered bore

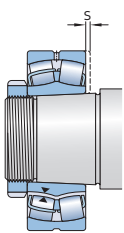
Spherical roller bearings and CARB toroidal roller bearings with a tapered bore are always mounted with an interference fit. To obtain the proper degree of interference, one of the following methods can be used:

1 measuring the clearance reduction
2 measuring the lock nut tightening angle
3 measuring the axial drive-up distance

Recommended values are listed on the other side of this card.







For additional information and other mounting methods see the SKF online catalogue, by using QR code, or consult ***skf.com/mount***

Drive-up data for spherical roller bearings and CARB toroidal roller bearings with a tapered bore

Bore diameter d		**Reduction of radial internal clearance**		**Axial drive-up distance** s				**Lock nut tightening angle**
				Taper 1:12		Taper 1:30		Taper 1:12
over	incl.	min.	max.	min.	max.	min.	max.	α
mm		mm		mm				°
24	**30**	0,010	0,015	0,25	0,29	–	–	100
30	**40**	0,015	0,020	0,30	0,35	–	–	115
40	**50**	0,020	0,025	0,37	0,44	–	–	130
50	**65**	0,025	0,035	0,45	0,54	1,15	1,35	115
65	**80**	0,035	0,040	0,55	0,65	1,40	1,65	130
80	**100**	0,040	0,050	0,66	0,79	1,65	2,00	150
100	**120**	0,050	0,060	0,79	0,95	2,00	2,35	
120	**140**	0,060	0,075	0,93	1,10	2,30	2,80	
140	**160**	0,070	0,085	1,05	1,30	2,65	3,20	
160	**180**	0,080	0,095	1,20	1,45	3,00	3,60	
180	**200**	0,090	0,105	1,30	1,60	3,30	4,00	
200	**225**	0,100	0,120	1,45	1,80	3,70	4,45	
225	**250**	0,110	0,130	1,60	1,95	4,00	4,85	
250	**280**	0,120	0,150	1,80	2,15	4,50	5,40	
280	**315**	0,135	0,165	2,00	2,40	4,95	6,00	
315	**355**	0,150	0,180	2,15	2,65	5,40	6,60	
355	**400**	0,170	0,210	2,50	3,00	6,20	7,60	
400	**450**	0,195	0,235	2,80	3,40	7,00	8,50	
450	**500**	0,215	0,265	3,10	3,80	7,80	9,50	
500	**560**	0,245	0,300	3,40	4,10	8,40	10,30	
560	**630**	0,275	0,340	3,80	4,65	9,50	11,60	
630	**710**	0,310	0,380	4,25	5,20	10,60	13,00	
710	**800**	0,350	0,425	4,75	5,80	11,90	14,50	
800	**900**	0,395	0,480	5,40	6,60	13,50	16,40	
900	**1 000**	0,440	0,535	6,00	7,30	15,00	18,30	
1 000	**1 120**	0,490	0,600	6,40	7,80	16,00	19,50	
1 120	**1 250**	0,550	0,670	7,10	8,70	17,80	21,70	
1 250	**1 400**	0,610	0,750	8,00	9,70	19,90	24,30	
1 400	**1 600**	0,700	0,850	9,10	11,10	22,70	27,70	
1 600	**1 800**	0,790	0,960	10,20	12,50	25,60	31,20	

Valid only for solid steel shafts and general applications.

PUB BU/P9 14231 EN · November 2013