

LINEAR BEARING SHAFTS

These precision steel shafts are manufactured from high grade steel which is induction hardened and centreless ground to ISO tolerance h6. The deviation is less than 0.1mm per metre.

These consistently high quality shafts can be used with ball bushings and other precision engineering projects.

The exact material specifications are:

	Material	(DIN)	Hardness
Solid Shafts	Cf53-56	(1.1214)	60-65 HRC
Hollow Shafts	100 Cr 6	(1.3505)	60-64 HRC
	C 60	(1.0601)	60-65 HRC
Stainless Steel Shafts	X40 Cr13	(1.4034)	51-55 HRC
	X90CrMoV18	(1.4112)	53-58 HRC



Hard chromed shafts on request.

Solid Shafts						
Diameter	Weight	Tolerance	Roundness	Conicity	Depth of Hardness	Max length
mm ()	kg/m	h 6 µm	µm	µm	mm	m
3	0,06	0-8				0,4
4	0,10	0-8			0,4	
5	0,15	0-8				
6	0,22	0-8			0,8-1,1	
6,35 (1/4)	0,25	-13-25	4	6		
8	0,40	0-9				
9,525 (3/8)	0,59	-13-25				
10	0,62	0-9				3-4
12	0,89	0-11				
12,7 (1/2)	0,91	-13-25			1,2-1,5	
14	1,21	0-11				
15	1,39	0-11	5	8		
15,875 (5/8)	1,54	-13-25				
16	1,58	0-11				
18	2,00	0-11				
19,05 (3/4)	2,40	-13-25				
20	2,47	0-13			1,8-2,2	
22	2,98	0-13				
25	3,85	0-13	6	10		
25,4 (1)	3,95	-13-25				
28	4,84	0-13				
30	5,55	0-13				
31,75(1 1/4)	6,20	-13-25				
32	6,31	0-16				
35	7,55	0-16				
36	7,98	0-16				6-7
38,1 (1 1/2)	8,50	-15-28	8	11	2,2-3,2	
40	9,87	0-16				
45	12,45	0-16				
50	15,40	0-16				
50,8 (2)	16,50	-15-33				
60	22,20	0-19				
63,5 (2 1/2)	24,50	-18-38	9	13	2,5-3,5	
70	30,20	0-19				
76,2 (3)	35,50	-20-43				
80	39,50	0-19				
100	61,65	0-22			3,5-4,5	
101,6 (4)	63,65	-30-61	11	15		
Hollow Shafts						
d	d _i					
12	4	0,80	0-11		10	
16	7	1,28	0-11			1,2-1,5
20	12-14	1,26	0-13	5		
25	14,5-15,5	2,37	0-13			1,8-2,2
30	16,5-19,0	3,55	0-13			
40	26-28	5,38	0-15	6	12	2,2-3,2
50	28-35	10,21	0-16			
60	36	15,07	0-19			
80	50-57	20,17	0-19	8	13	2,5-3,5