

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 | (1.1213) | 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 | 0-6 | | | | 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 | | | 1,8-2,2 | |
| 20 | 2,47 | 0-13 | | | | |
| 22 | 2,98 | 0-13 | 6 | 10 | | |
| 25 | 3,85 | 0-13 | | | | |
| 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 | 0-11 | | 10 | | |
| 16 | 7 | 0-11 | | | 1,2-1,5 | |
| 20 | 12-14 | 0-13 | 5 | | | |
| 25 | 14,5-15,5 | 0-13 | | | 1,8-2,2 | |
| 30 | 16,5-19,0 | 0-13 | | | | 4-6 |
| 40 | 26-28 | 0-15 | 6 | 12 | 2,2-3,2 | |
| 50 | 28-35 | 0-16 | | | | |
| 60 | 36 | 0-19 | | | | |
| 80 | 50-57 | 0-19 | 8 | 13 | 2,5-3,5 | |