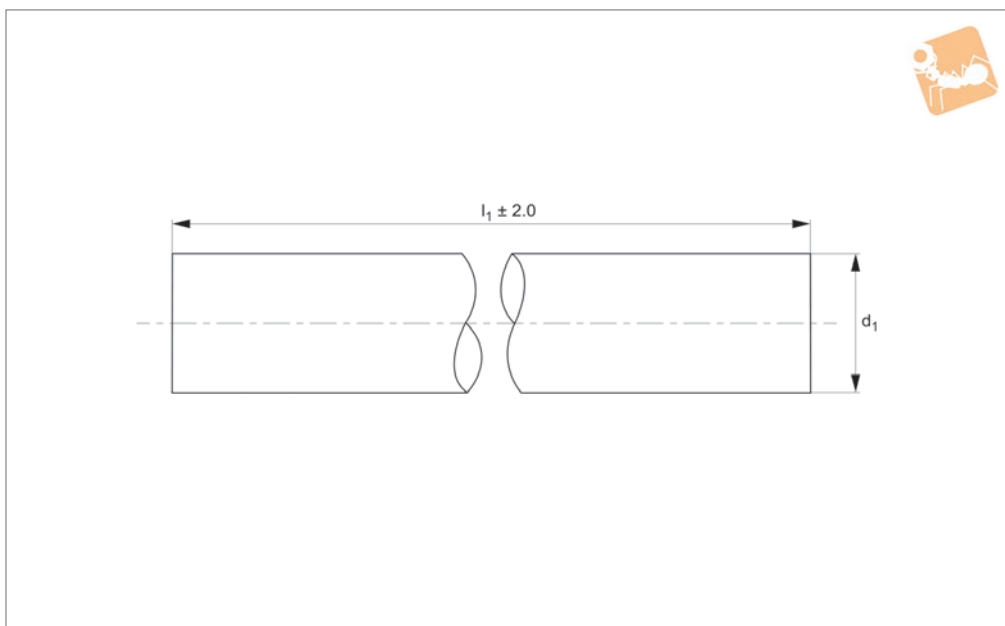




60Ø Stainless AISI 316 Shafts

soft

Linear Shaft
Bars



L1774.60

LINEAR SHAFT BARS

Material

Stainless steel (AISI 316, A4). Surface finish 0.3-0.6µ Ra, ground and polished to 8-12 cla.

Yield stress: >205 N/mm², tensile strength: >515 N/mm².

Technical Notes

Tolerance, h6 standard, other tolerances

on request.

Straightness 0,1mm/m.

Tips

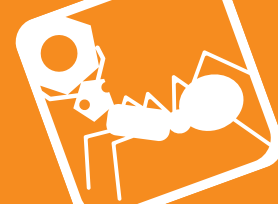
Modifications, drilled and tapped holes, circlip grooves, special coatings etc. available.

Shafts lengths are cut to typically ± 2mm.

To be used with ceramic or other bearings

not containing hardened ball bearings.

Order No.	d ₁ tol. h6	l ₁	Tolerance µ tol. h6	Depth of hardness
L1774.60-0100	60	100	+0,-19	3.5
L1774.60-0150	60	150	+0,-19	3.5
L1774.60-0200	60	200	+0,-19	3.5
L1774.60-0250	60	250	+0,-19	3.5
L1774.60-0300	60	300	+0,-19	3.5
L1774.60-0350	60	350	+0,-19	3.5
L1774.60-0400	60	400	+0,-19	3.5
L1774.60-0450	60	450	+0,-19	3.5
L1774.60-0500	60	500	+0,-19	3.5
L1774.60-0550	60	550	+0,-19	3.5
L1774.60-0600	60	600	+0,-19	3.5
L1774.60-0650	60	650	+0,-19	3.5
L1774.60-0700	60	700	+0,-19	3.5
L1774.60-0750	60	750	+0,-19	3.5
L1774.60-0800	60	800	+0,-19	3.5
L1774.60-0850	60	850	+0,-19	3.5
L1774.60-0900	60	900	+0,-19	3.5
L1774.60-0950	60	950	+0,-19	3.5
L1774.60-1000	60	1000	+0,-19	3.5
L1774.60-1050	60	1050	+0,-19	3.5
L1774.60-1100	60	1100	+0,-19	3.5
L1774.60-1150	60	1150	+0,-19	3.5
L1774.60-1200	60	1200	+0,-19	3.5
L1774.60-1250	60	1250	+0,-19	3.5
L1774.60-1300	60	1300	+0,-19	3.5
L1774.60-1350	60	1350	+0,-19	3.5
L1774.60-1400	60	1400	+0,-19	3.5
L1774.60-1450	60	1450	+0,-19	3.5
L1774.60-1500	60	1500	+0,-19	3.5



Order No.	d ₁ tol. h6	l ₁	Tolerance μ tol. h6	Depth of hardness
L1774.60-1550	60	1550	+0,-19	3.5
L1774.60-1600	60	1600	+0,-19	3.5
L1774.60-1650	60	1650	+0,-19	3.5
L1774.60-1700	60	1700	+0,-19	3.5
L1774.60-1750	60	1750	+0,-19	3.5
L1774.60-1800	60	1800	+0,-19	3.5
L1774.60-1850	60	1850	+0,-19	3.5
L1774.60-1900	60	1900	+0,-19	3.5
L1774.60-1950	60	1950	+0,-19	3.5
L1774.60-2000	60	2000	+0,-19	3.5
L1774.60-2050	60	2050	+0,-19	3.5
L1774.60-2100	60	2100	+0,-19	3.5
L1774.60-2150	60	2150	+0,-19	3.5
L1774.60-2200	60	2200	+0,-19	3.5
L1774.60-2250	60	2250	+0,-19	3.5
L1774.60-2300	60	2300	+0,-19	3.5
L1774.60-2350	60	2350	+0,-19	3.5
L1774.60-2400	60	2400	+0,-19	3.5
L1774.60-2450	60	2450	+0,-19	3.5
L1774.60-2500	60	2500	+0,-19	3.5
L1774.60-2550	60	2550	+0,-19	3.5
L1774.60-2600	60	2600	+0,-19	3.5
L1774.60-2650	60	2650	+0,-19	3.5
L1774.60-2700	60	2700	+0,-19	3.5
L1774.60-2750	60	2750	+0,-19	3.5
L1774.60-2800	60	2800	+0,-19	3.5
L1774.60-2850	60	2850	+0,-19	3.5
L1774.60-2900	60	2900	+0,-19	3.5
L1774.60-2950	60	2950	+0,-19	3.5
L1774.60-3000	60	3000	+0,-19	3.5
L1774.60-3050	60	3050	+0,-19	3.5
L1774.60-3100	60	3100	+0,-19	3.5
L1774.60-3150	60	3150	+0,-19	3.5
L1774.60-3200	60	3200	+0,-19	3.5
L1774.60-3250	60	3250	+0,-19	3.5
L1774.60-3300	60	3300	+0,-19	3.5
L1774.60-3350	60	3350	+0,-19	3.5
L1774.60-3400	60	3400	+0,-19	3.5
L1774.60-3450	60	3450	+0,-19	3.5
L1774.60-3500	60	3500	+0,-19	3.5
L1774.60-3550	60	3550	+0,-19	3.5
L1774.60-3600	60	3600	+0,-19	3.5
L1774.60-3650	60	3650	+0,-19	3.5
L1774.60-3700	60	3700	+0,-19	3.5
L1774.60-3750	60	3750	+0,-19	3.5
L1774.60-3800	60	3800	+0,-19	3.5
L1774.60-3850	60	3850	+0,-19	3.5
L1774.60-3900	60	3900	+0,-19	3.5
L1774.60-3950	60	3950	+0,-19	3.5
L1774.60-4000	60	4000	+0,-19	3.5
L1774.60-4050	60	4050	+0,-19	3.5
L1774.60-4100	60	4100	+0,-19	3.5
L1774.60-4150	60	4150	+0,-19	3.5
L1774.60-4200	60	4200	+0,-19	3.5
L1774.60-4250	60	4250	+0,-19	3.5
L1774.60-4300	60	4300	+0,-19	3.5
L1774.60-4350	60	4350	+0,-19	3.5
L1774.60-4400	60	4400	+0,-19	3.5
L1774.60-4450	60	4450	+0,-19	3.5
L1774.60-4500	60	4500	+0,-19	3.5
L1774.60-4550	60	4550	+0,-19	3.5
L1774.60-4600	60	4600	+0,-19	3.5
L1774.60-4650	60	4650	+0,-19	3.5
L1774.60-4700	60	4700	+0,-19	3.5
L1774.60-4750	60	4750	+0,-19	3.5
L1774.60-4800	60	4800	+0,-19	3.5
L1774.60-4850	60	4850	+0,-19	3.5
L1774.60-4900	60	4900	+0,-19	3.5



60Ø Stainless AISI 316 Shafts

soft

Linear Shaft Bars

Order No.	d_1 tol. h6	l_1	Tolerance μ tol. h6	Depth of hardness
L1774.60-4950	60	4950	+0,-19	3.5
L1774.60-5000	60	5000	+0,-19	3.5
L1774.60-5050	60	5050	+0,-19	3.5
L1774.60-5100	60	5100	+0,-19	3.5
L1774.60-5150	60	5150	+0,-19	3.5
L1774.60-5200	60	5200	+0,-19	3.5
L1774.60-5250	60	5250	+0,-19	3.5
L1774.60-5300	60	5300	+0,-19	3.5
L1774.60-5350	60	5350	+0,-19	3.5
L1774.60-5400	60	5400	+0,-19	3.5
L1774.60-5450	60	5450	+0,-19	3.5
L1774.60-5500	60	5500	+0,-19	3.5
L1774.60-5550	60	5550	+0,-19	3.5
L1774.60-5600	60	5600	+0,-19	3.5
L1774.60-5650	60	5650	+0,-19	3.5
L1774.60-5700	60	5700	+0,-19	3.5
L1774.60-5750	60	5750	+0,-19	3.5
L1774.60-5800	60	5800	+0,-19	3.5
L1774.60-5850	60	5850	+0,-19	3.5
L1774.60-5900	60	5900	+0,-19	3.5
L1774.60-5950	60	5950	+0,-19	3.5
L1774.60-6000	60	6000	+0,-19	3.5

LINEAR SHAFT BARS



Hardened steel linear shafting (L1770 – L1771)

Carbon steel to BS 070M55 hardened to 60-65 HRC. Carbon Steel B.S. 070M55 is a medium carbon steel which is used when greater strength and hardness is desired than in its as rolled condition. Extreme size accuracy, straightness and concentricity are combined to minimise wear in high speed applications. Suitable for use with all types of linear bushings.

Corrosion resistant steel (L1772)

440C is a high carbon chromium martensitic stainless steel, generally supplied in the annealed condition with a maximum hardness of 50-55 HR_C. Characterised by good corrosion resistance in mild domestic and industrial environments, including fresh water, organic materials, mild acids, various petroleum products, coupled with extreme high strength, hardness and wear resistance when in the hardened and tempered condition. Used for parts requiring a combination of excellent wear resistance, plus reasonable corrosion resistance. Typical applications are: ball bearings and races, bushings, cutlery, chisels, knife blades, pump parts, surgical instruments, valve seats etc. Material magnetic in all conditions. Suitable for use with all types of linear bushings.

Stainless steel AISI 303 (L1773)

303 is a free machining chromium-nickel austenitic stainless steel with good strength and good corrosion resistance, as supplied in the annealed condition. Characterised by excellent machinability and non galling properties due to its higher sulphur content, which has the effect of slightly lowering its corrosion resistance. It is however, fairly resistant to general atmospheric corrosion, general foodstuffs, sterilizing solutions, dyestuffs, most organic chemicals, plus some inorganic chemicals. But has very limited resistance to acids. 303 cannot be hardened by thermal treatment, but strength and hardness can be increased substantially by cold working, with subsequent reduction in ductility. It is used primarily for production runs involving extensive machining, or complex parts requiring excellent machinability. Typical uses are: architectural components, food processing equipment, dairy equipment, dyeing industry, hardware and kitchenware manufacturing and allied industries. Commonly used to manufacture bolts and nuts, bushes, gears, shafts, valve bodies and fittings etc. Material is non magnetic in the annealed condition, but can become mildly magnetic following heavy cold working. Annealing is required to rectify if necessary.

Not suitable for use with linear ball bushings, please use ceramic bearings.







Stainless steel AISI 303 (L1774)

316 is a chromium-nickel-molybdenum austenitic stainless steel with good strength and excellent corrosion resistance, as supplied in the annealed condition. Characterised by high corrosion resistance in marine and industrial atmospheres, it exhibits excellent resistance to chloride attack and against complex sulphur compounds employed in the pulp and paper processing industries. The addition of 2% to 3% of molybdenum increases its resistance to pitting corrosion and improves its creep resistance at elevated temperatures. Also it displays good oxidation resistance at elevated temperatures and has excellent weldability. AISI 316 cannot be hardened by thermal treatment, but strength and hardness can be increased substantially by cold working, with subsequent reduction in ductility. It is used extensively by the marine, chemical, petrochemical, pulp and paper, textile, transport, manufacturing and allied industries. Typical uses are: architectural components, textile equipment, pulp and paper processing equipment, marine equipment and fittings, photographic equipment and x-ray equipment etc. Material non magnetic in the annealed condition, but can become mildly magnetic following heavy cold working. Annealing is required to rectify if necessary.

Note: Optimum corrosion resistance is achieved in the annealed condition. Not suitable for use with linear ball bushings; please use ceramic bearings.



Linear Shafts from Automation Components

<p>L1770 - Hardened steel shafts</p>  <p>For use with linear bearings.</p> <p>Ø6 to Ø60</p>	<p>L1771 - Hardened hollow shafts</p>  <p>For use with linear bearings. Hollowed for lighter weight.</p> <p>Ø12 to Ø50</p>
<p>L1772 - Hardened Stainless shafts</p>  <p>For use with linear bearings Anti-corrosion.</p> <p>Ø6 to Ø60</p>	<p>L1773 - Stainless 303 shafts</p>  <p>Soft stainless, high anti-corrosion. Not for use with ball bush linear bearings.</p> <p>Ø6 to Ø60</p>
<p>L1774 - Stainless 316 shafts</p>  <p>Soft stainless, very high anti-corrosion. Not for use with ball bushing linear bearings.</p> <p>Ø6 to Ø60</p>	<p>L1778 - Aluminium shafts</p>  <p>Light weight, non-magnetic.</p> <p>Ø10 to Ø50</p>