

**Bearings:** The nominal inside diameters correspond with the standard dimensions of the 6200 series bearings. The outer ring is spherical and allows an angular misalignment of +/- 2°.

**Housings:** The one-part housings are made from massive grey cast iron and the two-part ones are drawn from steel sheet. The grey cast iron housings are that rigidly built, that the full load capacity of the bearing can be used.

**Materials:** Only high-quality materials are used for housing bearing, housing and all other components.

**Bearing:** Bearing steel 100Cr6

**Cast housing:** GGL20 DIN 1691

**Sheet-metal housing:** St10-03 DIN 1623

**Seal:** synth. nitrile rubber (NBR)

**Sealing:** All housing bearings are supplied with an efficient, heat and oil resistant seal. The constructive seal varies with the different bearing types.

**Maintenance:** Due to the perfect sealing, all bearing types are usually maintenance free. In special application they can, however be relubricated. See lubrication.

**Temperatures:** Bearings and housings made from cast or steel sheet can be used in continuous operation from -30°C to +100°C. Bearings for higher temperatures on request.

**Mounting on the shaft:** The housing bearings are supplied with longer inner ring and adjusting screw. The fixation on the shaft depends on the effective axial shifting force of the inner ring. The stability mainly depends on the quality and the tolerance zone of the shaft. To facilitate the assembly, the inner rings are - other than the norm - produced with a plus tolerance.

**Tolerances of roller bearings:**

Nominal Ø of Bore d <sup>H7</sup> mm	Tol. of Bore d µm	Inner Ring Bi µm
> 10 - 18	+18 0	0 -120
> 18 - 30	+21 0	0 -120
> 30 - 50	+25 0	0 -120
> 50 - 80	+30 0	0 -120

**Tolerances of outer rings:**

Nominal Ø of Outer Rings D mm	Outer Rings D mm
> 30 - 50	0 -11
> 50 - 80	0 -13
> 80 - 120	0 -15
> 120 - 150	0 -18

**Tolerances of Cast Housings according to ISO 8062:**

Nominal Ø of Bore d mm	Tolerances of the connecting dimensions		
	UCP h mm	UCF i mm	UCFL, UCFA e mm
12 - 50	± 0,15	± 0,5	± 0,7

**Lubrication:** All housing bearings are filled with a high-grade lithium-soap grease. In most mounting situations this lubricant-filling guarantees maintenance-free operation. In especially robust operating conditions with higher loads, speeds, temperatures, dirt etc. relubricating at shorter intervals may be required, depending on the application.

For relubrication we recommend using lithium-based grease. Under no circumstances use soda saponification.

**Load bearing rating:** The radial static and dynamic load bearing ratings are stated at the individual bearings (axial = 20% of radial).

**Speed and load:** The permissible speed is directly connected to the load and the play at bearing bore and shaft diameter.