



## BWG-GT

BWG-GT bearings with or without flange are made of casted bronze material with a steel shell and special solid lubricant embedded.

The process of casting bronze on steel achieves an intergral metallurgical structure between bronze and steel with an increased carrying capacity while the material cost is considerably reduced for bearings with diameter over 100 mm.

The base metal is aimed for high loads and the solid lubricant makes it possible to use BWG-GT bearings without additional lubrication.

BWG-GT bearings show excellent performance without lubrication under conditions of low speeds and extreme high or low temperatures.

The lubrication reservoirs are dispersed in a special way over the bearing surface, therefore the whole bearing surface is lubricated when the movement occurs. These lubrication reservoirs cover about 25-30% of the sliding surface.

### Technical data

**Material:** Bronze bearing with a steel shell and embedded graphite.

**Composition:** CuZn25Al5Mn4Fe3

**Yield point:** ( $R_{p0.2}$ ) ca 350 N/mm<sup>2</sup>

**Tensile strenght:** ( $R_m$ ) ca 750 N/mm<sup>2</sup>

**Hardness:** > 210HB

**Friction:** 0,03-0,20μ

Max load	Movement
150 N/mm <sup>2</sup>	Static
90 N/mm <sup>2</sup>	Dynamic

**Max speed:** No lubrication < 0,5 m/s  
Oil lubrication < 1,0 m/s

**Temperature range:** -100 / +300 °C

### Tolerances:

**Housing:** Tolerance H7.

**Cylindrical bearing:** According to drawing or standard: Inside: F7, outside m6. (push fit)

**Flanged bearing:** According to drawing or standard: Inside: E7, outside r6.

**Shaft:** Recommended tolerances: d8, e7 or f7.

**Lubrication:** The BWG-GT bearing is designed to run without lubrication. but the bearings feature will improve with additional lubrication.

### Benefits:

- Lower cost than a traditional BWG-bearing for diameters over 100 mm.
- Extremely high load capacity.
- May be used without additional lubrication.
- Excellent for constructions with low speeds and high loads.
- Suitable for reciprocating, oscillating or intermittent movement.
- Wide range of temperature.
- Good chemical resistance.

### Special:

- Thrust washers, plates, bars.
- Drawing details.
- Several alternative lubricant materials.

### Typical applications:

- Casting machines.
- Steel rollers.
- Metallurgic industry.
- Ships.
- Turbines.
- Ship cranes.