

PLAIN BEARINGS IN GENERAL

	Requiring maintenance	Maintenance-free
Sliding contact surface combination	<p>Steel/Steel Spherical plain bearings: GE..E/ES, GEG..E/ES, GEZ..ES, GEEM..ES, GEEW..ES</p> <p>Rod ends: SA..E/ES, SI..E/ES, T.P.N, T.A.C</p> <p>Steel/Bronze Has better emergency running properties than a steel/steel sliding contact surface combination.</p> <p>Spherical plain bearings: SSR Rod ends: TSM, TSF</p>	<p>Hard chromium/PTFE Spherical plain bearings: GE..C, GE..ET, GEG..C</p> <p>Rod ends: SA..C, SI..C, TSF..C, TSM..C</p>
Lubrication	<p>Grease lubrication required prior to initial operation and relubrication</p> <p>Spherical plain bearings with the suffix ES have lubrication grooves and lubrication holes in the inner and outer ring. The same applies to rod ends with the suffix ES, they can be lubricated by a grease nipple or a lubricating hole.</p> <p>Small spherical plain bearings with the suffix E without lubrication holes must be lubricated from the side.</p>	<p>No lubrication and relubrication required</p> <p>Important note: Nevertheless, these bearings should be checked regularly during maintenance inspections.</p>
Seals	<p>available open without seals and with lip seals on both sides – 2RS.</p>	<p>available open without seals and with lip seals on both sides – 2RS.</p>
Use cases	<ul style="list-style-type: none"> • for swivelling, tilting and rotational movements • for high static loads • for heavy alternating loads • for shock loads 	<ul style="list-style-type: none"> • for swivelling, tilting and rotational movements with a constant load direction (react more sensitive to shock- and alternating loads than steel/steel bearings) • when low friction coefficients are required • if relubrication is not possible or very difficult

SPECIAL SPHERICAL PLAIN BEARINGS

Properties

Extended inner ring

A special case are spherical plain bearings with an extended inner ring on both sides. They are suitable for bearing arrangements in which a withdrawal sleeve is normally used on both sides of the inner ring.



GEEW..ES



GEEM..ES

ROD ENDS

Properties

Type of rod ends

Rod ends are bearing units that consist of a **spherical plain bearing** and a **rod head**.

Mounting types of rod ends

Rod ends are screwed by means of a thread or welded at a welding end.

By default, threaded rod ends have a right-hand thread.



external thread

SA..C, SA..E/ES,
TSM, TSM..C



inner thread

SI..C, SI..E/ES,
TSF, TSF..C



welding end

T.A.C, T.P.N