MAURER Spherical Up-Lift-Load Bearings in the roof top of the SONY-Center in Berlin

Technical Data:

- Nos.: 7
- Load: 2000 kN
- Up-Lift: -500 kN
- Movement: ex = ± 200 mm; ey = ± 200 mm

Fig. 1: Roof top steel frame under construction placed onto building structure. Spherical up-lift-load bearings set between steel frame and building structure.

Fig. 2: Finished roof top. Steel frame on photo bottom is set onto spherical up-lift-load bearings.

Fig. 3: Roof top steel frame and roof top from inside

MAURER Spherical Up-Lift-Load Bearings

These bearings have been installed in the SONY-Center, Federal Chancellery Bridge, Lehrter Railway Station, a.s.o..

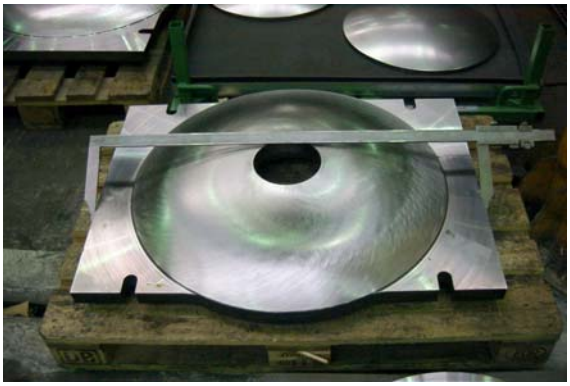

Fig. 1: Chromium plated spherical part up-side-down with hole for the rotation up-lift device in the middle and the external horizontal moving up-lift restraints.

Fig. 2: Bearing bottom or middle section resp. where the spherical part is fixed onto. The concave surface is fitted with a special sliding partner sliding against the chromium plated surface of the spherical part.

Fig. 3: The spherical part is set onto the bearing bottom or middle section resp. and fixed by the rotation up-lift device set through the hole of the spherical part.

Fig. 4: The package spherical part + bearing bottom or middle section resp. is pushed up-side-down (better assembly!) into the external claws fixed to the top sliding plate also lying up-side-down.