

Archimedean Screw Pump Drawing

Performance data for Archimedean screw pumps:

Inclination angle:	30°	35°	38°
Screw diameter [mm]:	up to 3000	up to 3000	up to 3000
Capacity [l/s]	up to 3130	up to 2513	up to 2170
Head [m]:	up to 8.8	up to 10.2	up to 10.9

Driving unit

The standard drive-unit consists of Electric Motor connected to the reduction gearbox, which is connected with the upper bearing of the screw pump. Depending on customer requirements, there can be made different drive-unit arrangements.

Upper bearing

Accommodates axial and radial forces. Designed as a self-aligning roller bearing.

Lower bearing

Connected to the screw body. Accommodates only radial loads. During the operation of the pump, this bearing is lubricated with grease by the automatic lubricator.

Screw

The screw has the most important role i.e. by rotating the screw is lifted and transported to higher levels. The screw body is usually made by longitudinally or spirally wound steel tubes.

