

Shaft-hub-connections

Notes on storage, construction, mounting, transport, operation, control, and maintenance

1 Storage

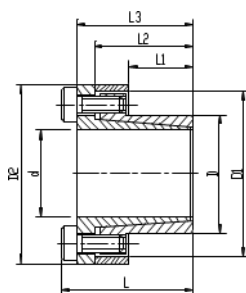
ASK Shaft-hub-connections are provided with a corrosion protection agent and can be stored in the original packaging at temperatures between 10°C and 40°C and a relative humidity of less than 60% for several years. During storage, care must be taken to ensure that the cartons are not exposed to direct sunlight, otherwise the storage temperatures may be exceeded.

2 Construction

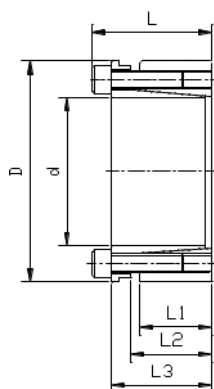
ASK Shaft-hub-connections are machine elements with which hubs can be fastened to shafts. The forces and moments are transmitted non-positively. The connections are detachable and can transmit axial forces and torques. The required clamping force is generated by axial displacement of conical rings in the gap between shaft and hub.

The level of the transmittable forces depends, among other things, on the permissible surface pressure, the coefficient of friction and the tightening torque of the clamping screws.

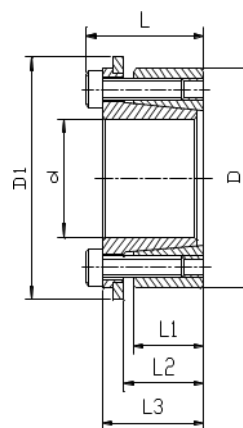
Types of construction



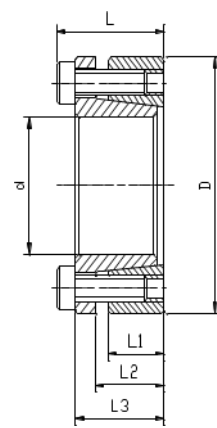
ASK 110



ASK 130



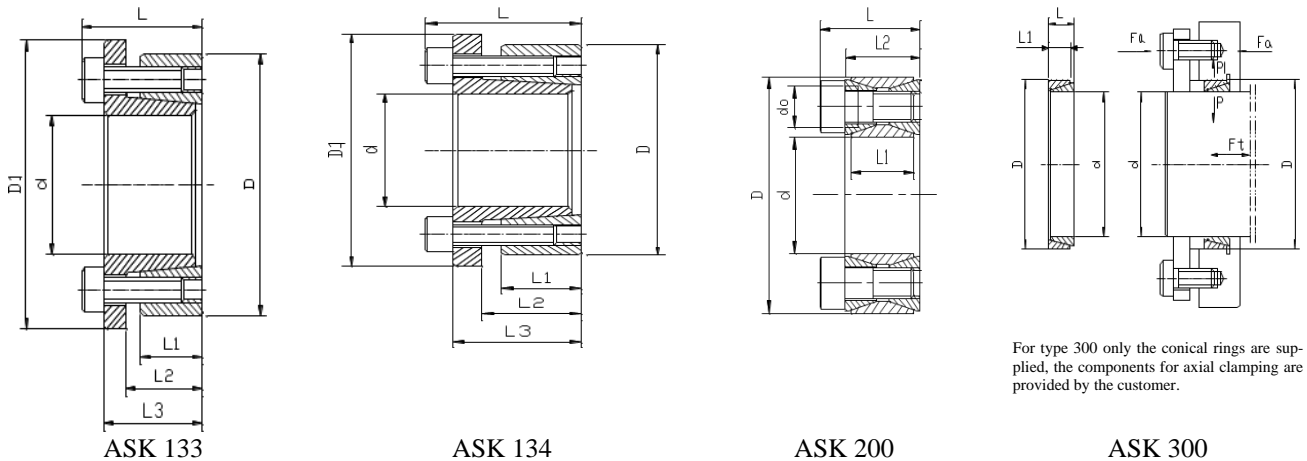
ASK 131



ASK 132

Shaft-hub-connections

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The difference between the types of construction is the contact surface for the hub (ASK 131, 133 and 134) and the required size of the annular gap between shaft and hub. The forces / torques that can be transmitted depend on the friction surface and the number and size of the clamping screws.

3 Mounting

3.1 Before mounting

In some cases, the corrosion protection may dry out. In this case, all components must be cleaned with suitable corrosion protection and/or petroleum before assembly.

All components such as shaft or bolt and bore must be free of burrs.

All parts must be clean and dust-free.

Do not touch bare metal surfaces with bare hands, risk of corrosion.

3.2 Mounting

- Slightly tighten the screws and align the hub.
- Tighten the screws evenly, preferably crosswise, to the specified tightening torque in several revolutions.
- Check the tightening torque of all clamping screws in the order of their arrangement. If no screw can be tightened any more, the assembly is finished.

3.3 Dismantling

- Loosen all screws a few threads at a time. (The rear ring loosens until it is supported).
- Screw the screws into the forcing threads on the front ring.
- Tighten the screws evenly to loosen the connection completely.

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4 Operation

The temperature of the unit must be between -10°C and +80°C during operation

The following points should be checked:
Screws should be checked regularly during operation.
Attention should be paid to damage to the components.

5 Recycling of shaft-hub-connections

Before recycling shaft-hub-connections, clean them and check the general condition of the individual parts.
All lubrication areas must be appropriately supplied by applying new lubricants.
Check the lubrication of the screw threads and supports.

For further questions, we recommend our knowledgebase at www.askubal.de