

# Fan shafts

## Spare parts guide

### Fan shafts

#### Fan shafts

Each fan shaft has a specific design, in line with the drive specification. Fan shafts are tested in the BAC R&D laboratories.

##### Solid shaft

- Ground and polished for easy bearing and drive component installation.
- Available in multiple materials of construction.
- Grooved flats for positive, secure set-screw installation.
- Replacement kits with coupling available for installation when access limitations.



##### Hollow shaft

- Specially selected tubing materials ensure strength and durability.
- Precision manufactured for vibration-free operation.
- Epoxy-coated for corrosion resistance.
- Journals are ground and polished for an accurate fit and easy bearing installation.

##### Composite drive shaft

- Specially designed shafts including couplings.
- Typically used in big gear-driven induced draft cooling towers.
- Composite material makes it fully resistant against corrosion.
- Low weight and high strength, reducing vibration and extending service life.

#### Maintenance tip !

BAC recommends when replacing the fan-shaft to also replace the



**bearings** and appropriate **bushings**.

When installing fan wheels on **hollow shafts**, make sure to apply the adhesive under the fan tabs, to prevent the fan-wheel from slipping on the shaft.

When installing fan wheels on **solid shafts**, make sure the set-screw is properly aligned with the grooved flat when the set screw is tightened, to prevent the fan-wheel from slipping on the shaft.

**Want to replace the fan shafts of your BAC cooling equipment?** Contact your [local BAC representative](#).