



BSK[®]-Turbines

Short Description of the Drive System

Motor

Three-phase-asynchronous-motor in accordance with DIN 42677 T1. Totally enclosed, including canopy. Protection acc. to IP 55 or IP 65, isolation class F, motor monitoring by thermistors suitable for inverter-operation, including patented connection construction to the gearbox. Corrosion prevention by multiple coating (industry standard) applicable for aerosol areas. Fitted with life-time-lubricated, reinforced bearings, designed for constant operation under heavy-duty conditions.

Gearbox

Helical, shaftmount-gearbox, executed as UNICASE with helical-gearcut gear wheels, hardened and fine finished. Wearfree design in accordance with DIN 3990 (as well as Niemann). Including reinforced bearings for long life time. Including hollow shaft to fit the output-shaft, including splash lubrication by using special synthetic-oil (oil change interval 2 years) multiple coating (industry standard) applicable for aerosol areas. Particularly silent operation. Safety-factor > 1.5 in accordance with AGMA. Calculated bearing life time > 100,000 h.

Flange shaft

Precision shaft of special steel, industry coated (on request of VA), including shrink-disc connection to the gearbox-hollow shaft, any time detachable connection, adjustable shaft length.

Base plate

Solid, galvanized steel construction with distortion-free ribs. Including precise tapped-holes to the gearbox fastening and including high-grade steel anchors to the fastening of the base plate (on a concrete bridge).