

Backlash-free Line Shafts Series

Torsionally stiff and flexible line shafts are used in applications involving high torque values and rotational motion combined with the highest possible angular precision or

considerable distances between shafts. The application range of line shafts covers almost all technical areas, where mechanical power transmission and stiffness are important:

- Pumps with axial and vertical drives
- Highly dynamic portal drives
- Gantry systems
- Linear modules
- Packaging machines

- Machine tools
- Special purpose machinery

Clamping hub variations in half shell construction are optionally available.

Torsionally flexible line shafts with elastomeric spider

- Absolutely backlash-free
- Installation length up to 6 m possible
- Compensation of axial, radial and angular misalignment
- Cost-effective, simple assembly
- Maintenance free
- Variable length of the intermediate (or line) tube of steel
- Double-sided standard hubs
- Backlash free elastomeric spider
- Excellent transmission of torque and seating of misalignment
- High transmission accuracy
- Temperature range -30° to 120° C / -22 F to 248 F

Torsion proofed line shafts with metal bellows

- Absolutely backlash-free
- Installation length up to 6 m possible
- Compensation of axial, radial and angular misalignment
- Aluminum lightweight construction up to size 200, optional with CFK-tube
- Maintenance free, no wear
- Universal joint tube version available
- Special stainless steel bellow
- Excellent power transmission
- High torsional stiffness and misalignment compensation
- Optimum moment of inertia
- Additional balancing holes for better cyclic running
- Temperature range -30° to 100° C / -22 F to 212 F.
- High precision of rotation angle



ADS-ZW
Servo-insert coupling with clamping style hubs
Technical data Page 4



ADS/B-ZW
Servo-insert coupling with clamping style hubs and tension ring hub
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ASS/A-ZW (special design)
Servo-insert coupling with clamping style hubs
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ASS/B-ZW
Servo-insert coupling with tension rings, outside mounting
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ADS/H-ZW (special design)
Servo-insert coupling with clamping style hubs in half shell construction
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AKN-ZW
Metal bellow coupling with clamping style hubs in flange construction
Technical data Page 9

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and defining the technical characteristics of his particular application. We reserve the right to make alterations at any time. We

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