

Servo Couplings

Metal Bellows Couplings



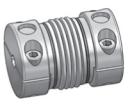
- KM** // 6-corrugation bellows // simple installation with EASY-clamping hub
// cost-effective standard series



- KP** // 4-corrugation bellows // simple installation with EASY-clamping hub
// short design // high torsional stiffness



- KR** // straight bellows // simple installation with EASY-clamping hub
// low restoring forces // high torsional stiffness



- KPH**
KMH
KRH // simple installation // split-hub design // flexible
// variable length // backlash-free // torsionally stiff



- KPP** // plug-in design // blind installation possible
// backlash-free, exact torque transmission



- KG/**
KG-VA // 4-corrugation bellows // very short design // up to 350°C
// all-steel-version // with EASY-clamping hub
// optionally in stainless steel version (KG-VA)



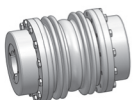
- KGH** // simple installation // split-hub design
// variable length // up to 350°C



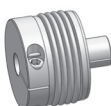
- KSD** // 6-corrugation bellows // conical clamping hub on both sides
// short design // cost-effective standard series



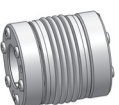
- KSS** // straight bellows // conical clamping hub on both sides
// low restoring forces // high torsional stiffness



- KXL** // for high torques up to 65.000 Nm
// easy to fit thanks to three-part construction
// high torsional stiffness // low moment of inertia



- KPS** // 4-corrugation bellows // EASY-clamping hub // short length
// expanding cone hub // internal axial stop



- KHS** // high-speed version // up to 30,000 revolutions per minute
// high balancing quality // rotational symmetry
// low moment of inertia // stainless version available



further series

Elastomer Couplings



EKM

- /// plug-in // backlash-free // oscillation dampening
- /// different shore hardnesses // with radial clamping hub
- /// cost-effective standard series



ESM-A

- /// with conical hub on both sides
- /// rotational symmetry // high-speed



further series

Miniature Couplings



MKM

- /// miniature metal bellows coupling // standard series with radial clamping hub
- /// temperature range: -40°C to +300°C



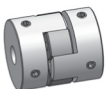
MKP

- /// miniature metal bellows coupling // short design
- /// with radial clamping hub // temperature range: -40°C to +300°C



MKA

- /// miniature metal bellows coupling // cost-effective version with set screws
- /// temperature range: -20°C to +150°C



**MJT/
MJT-C**

- /// miniature elastomer coupling
- /// MJT-C: with radial clamping hub // MJT: with set screws
- /// temperature range: -20°C to +70°C



**MOH
MOH-C**

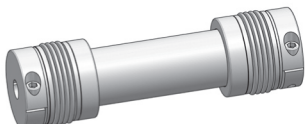
- /// miniature oldham-type coupling // temperature range: -20°C to +100°C
- /// MOH-C: with radial clamping hub // MOH: with set screws
- /// compensation of radial shaft misalignment

Distance Couplings



WDS

- /// variable length between 0.2 and 6 m // simple installation
- /// split-hub design // high-speed
- /// temperature range: -40°C to +300°C



WDE

- /// variable length up to 3 m
- /// simple installation // split-hub design
- /// cost-effective version with reduced operational parameters



EKZ

- /// variable length up to 3 m
- /// simple installation // plug-in // backlash-free
- /// oscillation dampening // stainless version available

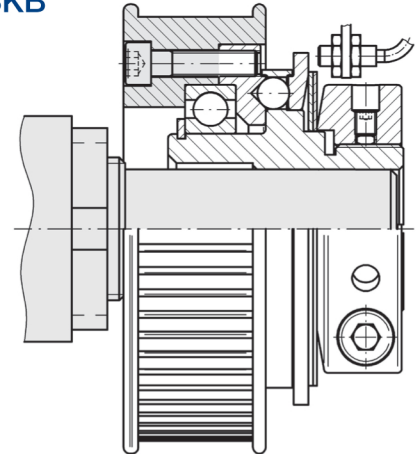
Safety Couplings

- ✓ for the attachment of toothed belt pulleys, gear wheels, chain wheels, flanges, and so on
- ✓ with integrated ball bearing or sliding bearing - for optimal constructional adjustment
- ✓ frictional shaft-hub-connection with conical clamping bush or conical clamping ring

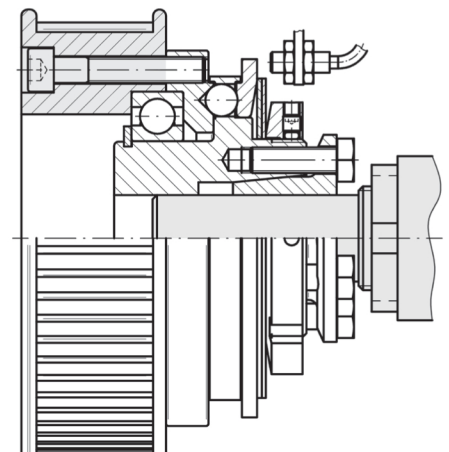
For overload protection or as collision protection for indirect drives, JAKOB's standard program presents series SKB, SKY, SKW and SKG with integrated ball bearing, as well as series SKX-L with integrated sliding bearing. The flange rings can be attached to gear wheels or other units with an axial run-out accuracy of a few hundredths of a millimeter. During normal operation, the bearings must take up the radial and axial forces and transfer them to the drive or output shaft. Only during uncoupling, there is a relative rotational movement between flange ring and hub for a short time. The torque is transferred without backlash and frictionally from the shaft to the coupling hub by a conical clamping ring or a conical clamping bush.

The SKB coupling can be used for big pulleys and pinions because of the reference diameter of the fastening threads, the SKX-L series is made for longer attachment parts with small diameters. The series SKG with its integrated ball bearing provides a good alternative for very compact solutions. To achieve this, the coupling body can almost be completely fit into the pulley with the result, that the forces can be led almost centrally into the bearing. Furthermore, the clamping ring is located on the inside, at the side of the shaft, and therefore a subsequent mounting (modification) is possible, even when available space is limited. Other safety coupling series for indirect drives, such as series SKM with separate sliding bearing or series SKD with blocking mechanism can be delivered upon special request.

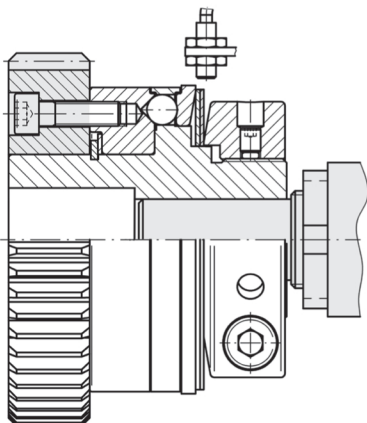
Series SKB



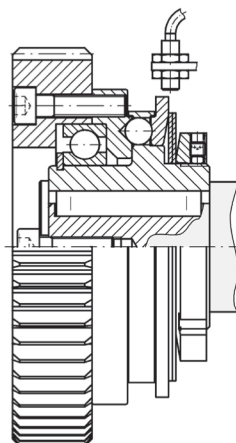
Series SKY



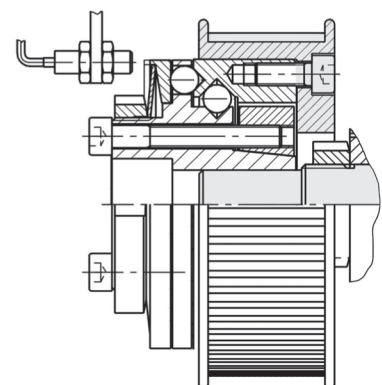
Series SKX-L



Series SKW



Series SKG



Directory Clamping Elements

Mechanical Power Clamping Nut



- MCA/** // with blind hole thread // thread protected
- MCG** // centered operation // compact design
- // optionally with star- or T-knob (MCA) // with threaded pin (MCG)
- MDA** // with through hole thread // unlimited clamping stroke
- // for variable clamping edges

Hydromechanical Clamping Nut



- HMG** // maximum clamping forces over 4,000 kN
- HMP** // multi-piston system with spring and oil return
- HMP-HD** // operating pressure 700 to 1,200 bar
- HVV** // custom thread available

Mechanical Power Clamping Screws



- SC** // wedge mechanism as force amplifier
- // high clamping forces at low actuation torques
- // maximum operating safety – self-locking mechanism
- // simple, manual operation

Mechanical and Hydromechanical Power Clamping Screws



- MSP/** // high operating travel // maximum reliability
- MSPD** // simple handling and mounting
- // for face plates and jaw boxes
- // mechanical force amplifier for external clamping direction
- // double acting version for internal and external clamping directions
- HSP** // hydromechanical force amplifying for external clamping direction
- // nominal clamping forces up to 750 kN // low actuation torques

Force Monitoring



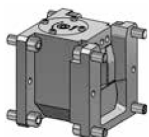
- FMS** // increase in operational safety
- HMD** // confirmation of proper clamping state

Hydromechanical Spring Clamping Systems



- ZSF** // spring pressure cylinder (pull)
- ZDF** // spring pressure cylinder (push)
- // mechanical clamping // hydraulically released
- // maximum operating safety // leak-proof and robust
- // nominal clamping forces up to 350 kN

Sectional Rail Couplings



- PKV** // coupling/decoupling of sectional rails
- PKH** // vertical/horizontal versions
- // manual or pneumatic operation
- // available for all common rail dimensions