APPLICATIONS AND DESIGN FEATURES PRECISION COUPLINGS



57 Galaxy Blvd., Units 1 & 2, Toronto, ON M9W 5P1 TEL: (416) 231-6767 www.drivecentre.ca

SIZING AND SELECTION

P. 9

INSTALLATION AND HANDLING

P. 21

TORSIONALLY STIFF BELLOWS COUPLINGS



P. 29

SIZES FROM 2 - 10,000 Nm

AREAS OF APPLICATION

for highly dynamic motion in:

- ▶ Machine tools
- ► Test stands
- ► Packaging machinery
- ▶ Printing machinery
- ▶ Paper converting machinery
- ► Labeling machinery
- ► Textile machinery
- Sorting machinery
- ► Automation equipment

FEATURES

- ▶ torsionally stiff
- ▶ low moment of inertia
- ▶ zero backlash
- ▶ highly concentric
- ▶ naturally very well balanced
- ▶ precise transmission
- ▶ infinite life
- ▶ wear and maintenance free
- ▶ easy to install

TORSIONALLY STIFF MINIATURE BELLOWS COUPLINGS



P. 49

SIZES FROM 0.05 - 10 Nm

AREAS OF APPLICATION

for precise transmission of angular motion and torque in:

- ► Linear actuators
- ► Semiconductor machinery
- ► Medical devices
- ▶ Lab automation systems
- ▶ Micro pumps
- ▶ Test and measurement systems

FEATURES

- ▶ zero backlash
- ▶ torsionally stiff
- ▶ precise transmission
- ▶ infinite life
- ▶ easy to install

BACKLASH FREE SERVOMAX® ELASTOMER COUPLINGS



P. 63

SIZES FROM **0.5 - 25,000 Nm**

AREAS OF APPLICATION

for vibration damping torque transmission in:

- ▶ Packaging machinery
- ▶ Pump drives
- ▶ Machine tools
- ▶ Lift systems
- ▶ Conveyors
- ► Labeling machinery
- ► Food processing machinery

FEATURES

- ▶ vibration damping
- ▶ electrically isolating
- ▶ backlash free
- ▶ calibrated preloaded insert
- ► concentrically machined hubs

BACKLASH FREE SAFETY COUPLINGS







P. 81

SIZES FROM **0.1 - 2,800 Nm**

AREAS OF APPLICATION

for overload protection in:

- ► Machine tools
- ▶ Packaging machinery
- ▶ Conveyors and feeders
- ▶ Metal forming equipment
- ▶ Test stands
- ▶ Pump drives
- ► Assembly systems
- ► Converting equipment
- ▶ Wherever rotation and overload exist

FEATURES

- ▶ protects from rotating inertia as well as motor torque
- ▶ precise torque overload protection
- ▶ patented preload for zero backlash
- compact simple design
- ▶ low moment of inertia
- ▶ extremely fast disengagement
- ▶ low residual friction after disengagement

SE [**ES**

APPLICATIONS AND DESIGN FEATURES PRECISION COUPLINGS

BACKLASH FREE AND SMOOTH RUNNING LINE SHAFTS

ZA



P. 113

SIZES FROM 9 - 25,000 Nm

AREAS OF APPLICATION

for spanning large distances between shaft ends in:

- ▶ Material handling systems
- ▶ Printing machinery
- ▶ Labeling machinery
- ▶ Textile machinery
- ▶ Packaging machinery
- ► Converting equipment
- ▶ Lift systems
- ▶ Theatre automation
- ► Gantry systems
- ► Screw jack systems

FEATURES

- installation and removal without disturbing adjacent equipment
- ▶ self-supporting up to 6 meters
- ▶ no intermediate support bearing required

HIGH STRENGTH DISC PACK COUPLINGS



125

SIZES FROM 350 - 20,000 Nm

AREAS OF APPLICATION

▶ API 610 pump packages

- ► Paper machinery
- ▶ Steel mill equipment
- ► Test stands
- ▶ Generators
- ▶ Bulk material handling systems
- ▶ Centrifuges
- ▶ Cooling tower drives
- ▶ Compressors
- ▶ Printing machinery

FEATURES

- ▶ maintenance free for infinite life
- ▶ frictional clamping of disc packs
- ▶ high speeds with extended DBSE
- ▶ zero backlash
- ▶ high torsional stiffness
- ▶ robust compact design
- ▶ precise transmission of angular motion and torque
- ▶ high operational dependability
- ▶ low restoring forces from misalignment
- compensation for lateral, axial and angular shaft misalignment

FOR USE IN HAZARDOUS ENVIRONMENTS - ATEX



P. 133

AREAS OF APPLICATION

for safer operation in industries with explosive atmospheres, such as:

- ▶ Oil & gas extraction
- ► Petrochemical processing
- ► Munitions manufacturing
- ▶ Bulk and powder processing
- ▶ Paint systems

FEATURES

For hazard zones 1/21 and 2/22 these couplings are authorized under directive 94/9/EG.

- ▶ Bellows couplings
- ► Elastomer couplings
- ▶ Safety couplings
- ▶ Line shafts
- ▶ Disc pack couplings