

聯軸器之選擇

機械設備驅動之方式中，包檯力馬達、電動機，原動機(熱能、電力、壓力轉換)，成為機械之型態，齒輪箱、齒輪機構及被驅動端之動力聯結之聯軸器，應具有如下之功能之一種或多重之功能。

- Transmitting motion of rotation and torques.
傳遞扭力、旋轉動作
- Compensating shaft misalignments (radial, axial, angular)
補正軸之偏移量、偏心量(橫向、軸向、傾角)
- Reducing the torsion vibration load, influencing and displacing the resonant ranges.
減低扭力的振動負載，改變或移開共振區域
- Damping torque and speed impulses.
吸收扭力及速度之衝力
- Interrupting the motion of rotation (clutches)
阻斷旋轉動作(離合器)
- Limiting the torque (torque limiters)
阻斷扭力
- Sound isolation
隔絕聲響
- Electrical isolation
電氣絕緣

Shaft couplings
軸型式聯軸器

Couplings
軸對軸
聯軸器

Flange coupling
法蘭對軸
聯軸器

Rigid
鋼性

Flexible
彈性

- ROTEX:
CF
DF
- BOWEX:
FLE-PA
ELASTIC
MONOLASTIC

- Clamp couplings
- RADEX-N
 - RADEX-NC
- Rodial Tooth couplings
- Bowex

有背隙

無背隙

- Hydro-Dynamic Couplings (Gearex)
- Magnetic Coupling
- Minex-S

Tors. rigid

- Gear Coupling
- Universal Joint

Tors. flexible

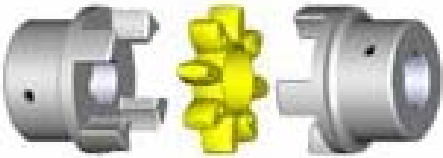
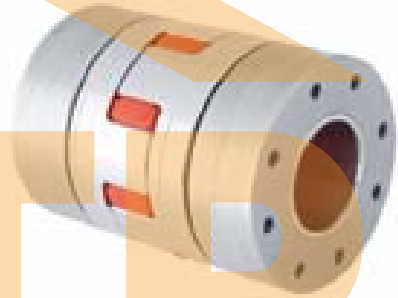
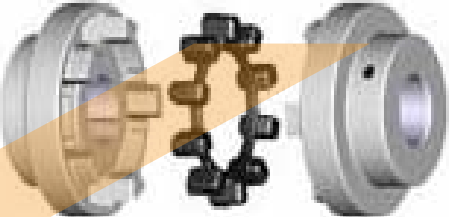

- Pin and bush Coupling
- Revolex Claw Couplings
 - Poly-Norm Flexible Element Couplings
 - ROTEX GS,
 - Poly-Norm
 - Bowex

Highly flexible

- Rubber type Couplings
- Poly-Norm

聯軸器種類

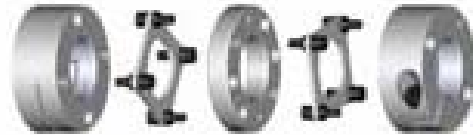
一、彈性體聯軸器

<p>ROTEX®</p> <ul style="list-style-type: none">• Torsionally flexible jaw-type coupling• Axial plug-in, good dynamical features• Failsafe, vibration reducing	
<p>ROTEX® GS</p> <ul style="list-style-type: none">• Backlash-free jaw-type coupling, axial plug-in• Vibration reducing• Failsafe, maintenance free• Torque: 0.2 - 4800 Nm	
<p>POLY-NORM®</p> <ul style="list-style-type: none">• Torsionally flexible jaw-type coupling acc. to DIN 740• Axial plug-in - maintenance-free• Failsafe, vibration-reducing• Max. torque = 6127 Nm	
<p>POLY Coupling</p> <ul style="list-style-type: none">• Torsionally flexible shaft coupling• Axial plug-in - maintenance-free• Not failsafe• Vibration-reducing	

二、鋼性聯軸器

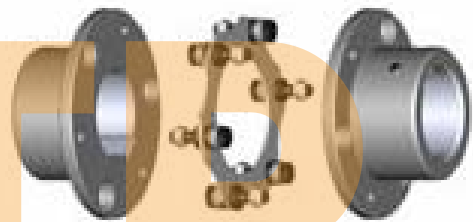
RADEX®-NC

- Backlash-free torque transmission
- Increased torsional stiffness
- Low mass moment of inertia (aluminium parts)
- Stainless steel discs (flexible in bending)



RADEX®-N

- Steel laminae coupling
- acc. with API 610
- Torsionally stiff - backlash/maintenance-free
- Temp. up to 280°C / 536°F
- Shaft distance dimensions up to 6000 mm



RIGIFLEX®-N

- Steel lamina coupling
- Coupling in accordance with API 610, API 671 optionally
- Max. Torque: 560.000 Nm
- Backlash-free - torsionally stiff - maintenance-free



三、齒形聯軸器

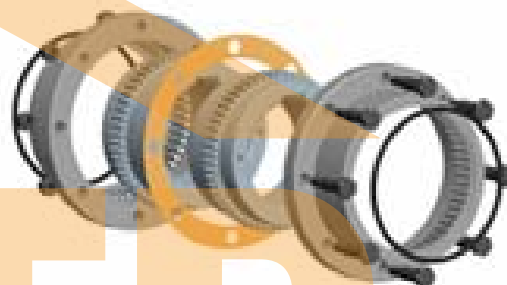
BoWex®

- Curved-tooth gear coupling
- Torsionally stiff, double cardanic
- Material combination: nylon / steel
- Torque : 5 Nm - 2500 Nm



GEAREX®

- Double-cardanic all-steel coupling
- acc. API 610, API 671 optionally
- High power density
- Max. Torque. 270.000 Nm
- -20°C up to +80°C
- AGMA Standard "9008-B00"



四、法蘭面

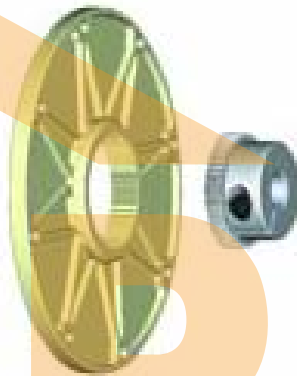
ROTEX[®] CF,CFN, DF, DFN

- Applicable to heavy machinery
- CF and CFN: connection flange to shaft
- DF and DFN: double flange design for the connection of driving and driven machine
- Flange dimensions according to ISO fit H8.



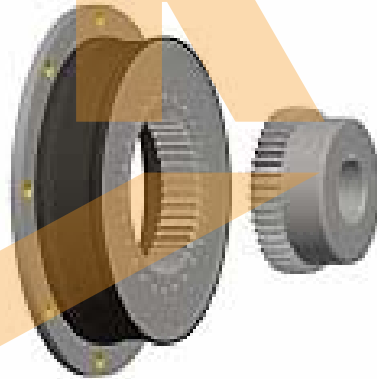
BoWex[®] FLE-PA

- Torsionally rigid flange coupling
- Application: hydrostatic mobile hydraulics
- Available up to an engine power of 500 kW
- Flange dimensions according to SAE - J620



BoWex-ELASTIC[®]

- High elastic flange coupling
- Use in mobile hydraulics
- Available up to engine power of 500 KW
- Flange dimensions according to SAE - J620



MONOLASTIC[®]

- One-part, elastic flange coupling
- Use between diesel engine / hydraulic pump
- Size 28 and 32 with 3-hole flange fixing
- Size 50 with connection according to SAE 6 1/2



五、波紋管聯軸器

TOOLFLEX®

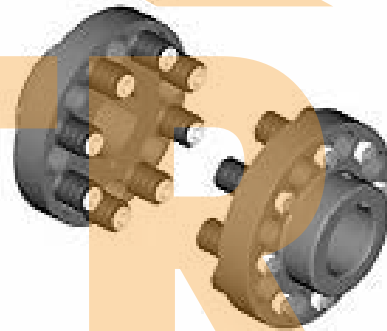
- Metal bellow-type
- Bellow made from stainless steel
- Backlash-free, torsionally stiff, maintenance-free
- Coupling for servo and linear drives, positioning systems machine
- Flange dimensions according to ISO fit H8.



六、柱銷彈性

REVOLEX® KX

- Torsionally flexible pin & bush coupling
- Radial assembly of driving and driven side
- Torque: 5000 Nm - 215.000 Nm
- Max. bore diameter: 370 mm



七、磁性聯軸器

MINEX®-S

- Permanent magnet coupling
- Optionally API 685
- Hermetic separation of the driving and driven side
- Resistent to aggressive media
- Torque: 0,15 Nm - 1000 Nm

