



leading by
innovation



CENTA[®] INDUSTRIAL SOLUTIONS

FOR CONSTRUCTION AND
AGRICULTURAL EQUIPMENT

RegalRexnord[™]

PURE POWER

CENTA® redefines **POWER**.
POWER, to us, is more than merely strength.

POWER, to us, is the **passion to find the best solution**. To continuously improve successful concepts. To set new standards in performance, flexibility and service.

Each product bearing the name CENTA puts POWER into practice in a unique way. Ensuring pure power. Removing troublesome influences. Enabling optimal results.

CENTA Power Transmission.





RELIABLE PERFORMANCE

We work every day to be the leading global provider of high value, mission-critical solutions that help customers safely, reliably, and productively keep their goods and assets moving.

Customer satisfaction is our priority. We strive to be the most reliable partner in the industry, delivering lowest total cost of ownership, providing valuable expertise and making it easier to do business with the right products in the right place at the right time.

Torsionally Stiff Couplings

FOR CONSTRUCTION & AGRICULTURAL EQUIPMENT

Engine driven hydrostatic pump drives commonly used in construction and agricultural equipment require smooth and reliable torque transmission through the drivetrain. In hydrostatic pump applications, CENTAFLEX® couplings are designed for high torsional stiffness to shift the natural frequencies of the system above the operating speed range of the engine resulting in dependable, resonance-free operation. These couplings specifically adapt from standard engine SAE flywheels to spline shafts on hydrostatic pump drives. Our CENTA® engineering team has unrivaled expertise in coupling design, torsional vibration analysis, and the selection of couplings for hydrostatic drive applications, making CENTAFLEX a leader in couplings used in construction and agricultural equipment worldwide.

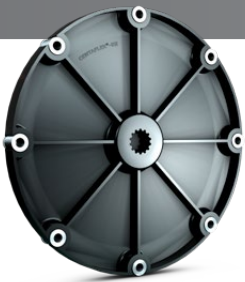


CENTAFLEX-K

- Compact two-piece design with short axial length
- Axial plug style hub for blind assembly
- CENTALOC spline clamping hub available
- **Nominal torque:** 0,4 to 5,2 kNm (3,500 to 46,000 lb-in)
- **Thermally stable:** -40°C to 150°C (-40°F to 300°F)

Common Applications

Forklift trucks, mobile cranes, pavers, excavators



CENTAFLEX-KE

- One-piece design
- Glass fiber reinforced plastic construction
- Economical solution for single or tandem pumps
- **Nominal torque:** 0,2 to 0,65 kNm (1,770 to 5,753 lb-in)

Common Applications

Skid steer loaders, compact track loaders, forklift trucks, mini excavators



CENTAFLEX-KF

- One-piece design with short axial length
- Accommodates significant radial misalignment up to 0.7 mm
- **Nominal torque:** 0,4 to 0,8 kNm (3,500 to 7,100 lb-in)
- **Thermally stable:** up to 120°C (250°F)

Common Applications

Skid steer loaders, compact track loaders, forklift trucks, mini excavators, mobile cranes, compact track loaders, graders, wheel loaders, vibration rollers



CENTAFLEX-H

- Heavy duty elastomer design damps torsional vibration and shock loads
- High thermal stability
- CENTALOC® spline clamping hub available
- **Nominal torque:** 0,1 to 4 kNm (885 to 35,000 lb-in)
- **Thermally stable:** -50°C to 150°C (-58°F to 300°F)

Common Applications

Large excavators, graders, cranes, wheel loaders, vibration rollers, dumpers, forklift trucks

Torsionally Soft Couplings

FOR CONSTRUCTION & AGRICULTURAL EQUIPMENT

Engine-driven industrial applications are regularly subjected to cyclical loading with large torque spikes and fluctuating operating speed. CENTAFLEX® and CENTAMAX® flexible couplings are engineered with moderate to high torsional elasticity to damp torsional vibrations and torque spikes between the diesel engine and the driven equipment. Unless otherwise specified, CENTAFLEX and CENTAMAX couplings can adapt to standard SAE and non-standard flywheels, shaft hubs, and custom mounts.



CENTAFLEX-A

- High torsional elasticity with linear or progressive torsional deflection based on element material
- Lowest bearing reaction forces of any industrial coupling in the market
- High axial, radial and parallel misalignment capacity
- Ideal for 1- or 2-cylinder engines
- Fail-safe design
- **Hub configurations:** CENTALOC® spline clamping hub, SAE or custom flywheel adapter, straight or taper bore, hydraulic fit
- **Nominal torque:** 0,01 to 12,5 kNm (88.5 to 110,000 lb-in)
- **Thermally stable:** -45°C to 120°C (-49°F to 250°F)

Common Applications

Reciprocating compressors, test benches, two bearing gensets, electric motor fans, power mulchers, woodchippers, shredders, dumpers, fire pumps, tractor PTO



CENTAFLEX-B

- Moderate torsional elasticity with progressive torsional deflection
- Moderate axial, radial and parallel misalignment capacity
- Fail-safe hub design
- Replace-in-place element design
- Available as long span floating shaft configuration
- **Hub configurations:** CENTALOC spline clamping hub, SAE or custom flywheel adapter, straight or taper bore, hydraulic fit
- **Nominal torque:** 0,032 to 1,4 kNm (283 to 12,400 lb-in)
- **Thermally stable:** -40°C to 150°C (-40°F to 300°F)

Common Applications

Hydraulic pumps, harvesting heads

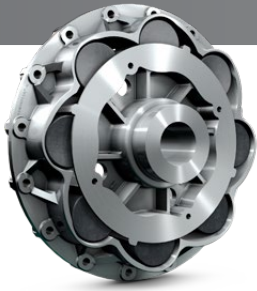


CENTAFLEX-E

- High torque, moderate torsional elasticity with progressive torsional deflection
- Fail-safe jaw hubs
- Axial plug-in design for blind assembly
- Element in compression with low reactionary forces
- **Hub configurations:** SAE or custom flywheel adapter, straight or taper bore, hydraulic fit
- **Nominal torque:** 0,7 to 40 kNm (6,200 to 354,000 lb-in)
- **Thermally stable:** -25°C to 90°C (-13°F to 194°F)

Common Applications

Crane drives, aerial lifts, fire pumps, woodchippers, shredders, dumpers, mining machinery on connected equipment



CENTAFLEX-R

- Progressive torsional characteristic with very low stiffness at low torque and increased moderate stiffness at higher torque
- Simple, reliable, no bonding, only rubber in compression
- **Nominal torque:** 0.25 to 15 kNm (2,215 to 132,750 lb-in)
- **Thermally stable:**
CENTALAN: -45°C to 100°C (-49°F to 212°F)
HD: -45°C to 130°C (-49°F to 266°F)

Common Applications

Tractors, mobile cranes, crushers and shredders, road milling machines, mining machinery



CENTAFLEX-D

- Medium torsional elasticity with progressive torsional deflection
- Fail-safe jaw hubs and blind assembly
- Rubber element in compression with low reactionary force on connected equipment
- Ideal for 3+ cylinder engines
- 6 sizes with ratings covering up to 6,800 HP at 1,500 rpm
- **Hub configurations:** SAE or custom flywheel adapter, straight or taper bore
- **Nominal torque:** 0,28 to 40 kNm (2,500 to 354,000 lb-in)
- **Thermally stable:** -25°C to 90°C (-13°F to 194°F)

Common Applications

Two bearing gensets, centrifugal pumpsets, blowers



CENTAMAX

- High torsional elasticity with linear torsional deflection
- Axial plug-in design for blind assembly
- Ideal for mounting within engine bell housings
- **Hub configurations:** CENTALOC spline clamping hub, SAE or custom flywheel adapter, straight or taper bore
- **Nominal torque:** 0,1 to 24 kNm (885 to 26,000 lb-in)
- **Thermally stable:** -45°C to 120°C (-49°F to 250°F)

Common Applications

Dewatering pumps, gensets, sweepers, compressors, general construction equipment



TRUSTED PARTNER

You count on high-performing partners.

We are **ready and available**
wherever you are.



CENTA[®] couplings are found in construction and agricultural applications across the globe. Manufacturers of construction equipment depend on CENTA couplings to ensure the driveline maintains the same reliability as every other system on their equipment.



**Motion Control Solutions
CENTA Antriebe Kirschey GmbH**

Bergische Strasse 7
42781 Haan
Germany
+49-2129-912-0 Phone
+49-2129-2790 Fax

Contact us: centa.de@regalrexnord.com
regalrexnord.com
www.centa.info

**Motion Control Solutions
Regal Rexnord**

111 W. Michigan Street
Milwaukee, WI 53203
USA

Contact us: regalrexnord.com/contact

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