

# TORSION CONTROL PRODUCT'S SPRING COUPLINGS FOR HYDROSTATIC, POWERSHIFT, AND DIRECT PUMP APPLICATIONS

## TYPICAL APPLICATIONS:

- ▶ Agriculture Vehicles
- ▶ Construction Equipment
- ▶ Industrial Equipment
- ▶ Marine
- ▶ Mining Equipment

## SPRING COUPLINGS vs DRIVE PLATES

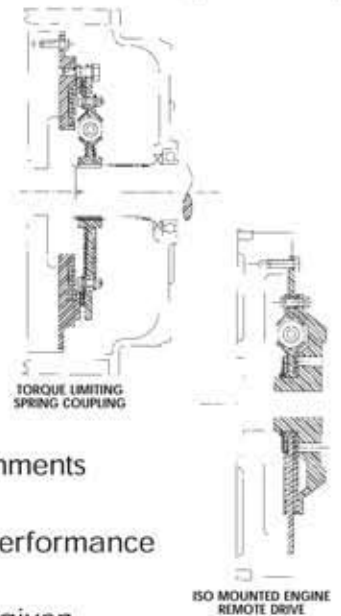
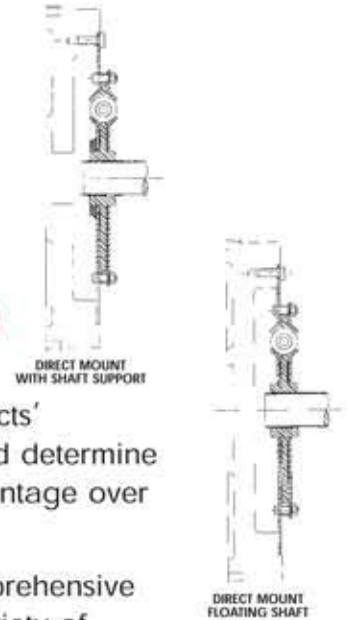
Although not all applications require torsional compliance, Torsion Control Products' engineers will evaluate your application and determine if a spring coupling would provide an advantage over a conventional drive plate.

TCP has engineered and developed a comprehensive line of Spring Couplings used in a wide variety of powertrain applications. These devices offer the following advantages in most applications:

- ▶ Torsional vibration isolation
- ▶ Resonance isolation
- ▶ Overload and shock load protection
- ▶ Noise attenuation
- ▶ Improved bearing/gear life
- ▶ Increased system durability

**Advantages** of using Torsion Control Products' Spring Couplings:

- ▶ All steel construction for long life
- ▶ Lubricated and non-lubricated environments
- ▶ Low rate/long life couplings
- ▶ Temperature extremes do not affect performance or durability
- ▶ Performance can be optimized for a given application
- ▶ Multistage stiffness for optimized system tuning
- ▶ Controlled coulomb damping
- ▶ Drop-in replacement for original drive plates, no spacers required
- ▶ Integral shaft support capability eliminates the need for additional bearing support



*Our Couplings Are Designed For  
Off-Highway Applications.*

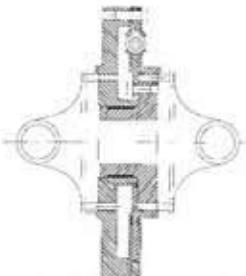
# SPRING COUPLINGS AND TORQUE LIMITERS FOR

## GEAR, PUMP & HYDROSTATIC DRIVES / POWERSHIFT / POWERTRAIN

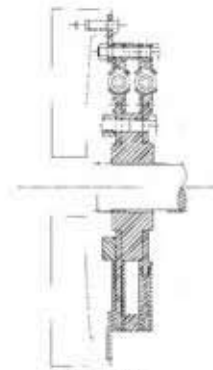
### APPLICATIONS



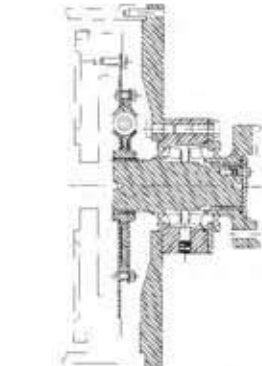
DIRECT MOUNT  
BLIND ASSEMBLY  
LOCKED ON SHAFT



SHAFT TO SHAFT ARRANGEMENT  
WITH SHAFT SUPPORT



DIRECT MOUNT  
FLOATING SHAFT



REMOTE MOUNT TRANSMISSION  
ARTICULATION BETWEEN ENGINE

**SPRING COUPLINGS** have been a part of powertrains for over 70 years. Torsion Control Products has developed a line of Spring Couplings for use in many driveline applications. Our couplings have had years of operation in high horsepower applications meeting industry's demands with proven durability and long life.

Torsion Control Products Spring Couplings are designed for specific applications. Our couplings are built to address the demands and have proven durability in the agricultural, construction, industrial, marine and mining equipment markets.

Where dependability and performance are a requirement, Torsion Control Products' Spring Couplings are designed to meet your needs.

**Typical Ratings:** 20 to 20,000 lb-ft (27 to 27,000 N-m)

**Typical Environment:** Dry, Lubricated, Hot or Cold.

**Performance:** Consistent throughout the life of the product.

**Long Life:** Torsion Control Products couplings are designed to produce long life in any environment.

**Proven Durability:** In the roughest applications steel couplings continue to operate, continue to address driveline torsionals.

**Tuning Capability:** Torsion Control Products Spring Couplings are tuned for specific applications. Our engineers will perform a mass-elastic evaluation on your application and provide the performance that will serve you best.

ISO-9001 Registered/QS-9000 Compliant  
Get more details. Call for information.



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