Svanaya Systems Couplings & Parts

Company Overview

Svanaya Systems is a trusted supplier of high-quality industrial power transmission and motion components, specializing in bearings, couplings, chains, belts, and a wide range of related mechanical components. We serve diverse industries including manufacturing, agriculture, mining, construction, and logistics, helping keep critical operations running efficiently. Our extensive product portfolio includes precision bearings, durable roller and conveyor chains, high-performance belts, and flexible couplings, along with complementary components such as sprockets, pulleys, bushings, shafts, seals, lubricants, and maintenance products. Every product we supply is sourced from reputable manufacturers to ensure reliability, durability, and consistent performance in demanding industrial environments. At our core, we are committed to delivering quality products, technical expertise, and dependable service. We don’t just supply parts — we build long-term partnerships that help our customers improve efficiency, reduce costs, and achieve operational excellence.

Core Strengths

- Custom coupling solutions
- High torque transmission capability
- Precision engineering

Product Catalogue

Svanaya Systems supplies a wide range of industrial couplings designed for reliable power transmission, high torque applications, and continuous industrial operation. Our product portfolio includes Flexible Disc Couplings, Elastomer Couplings, Gear Couplings, Grid Couplings, Spacer Couplings, Locking Assemblies, Torque Limiters, and coupling accessories used across industries such as power transmission, oil & gas, sugar, cement, mining, steel, and bulk material handling.

Key Features

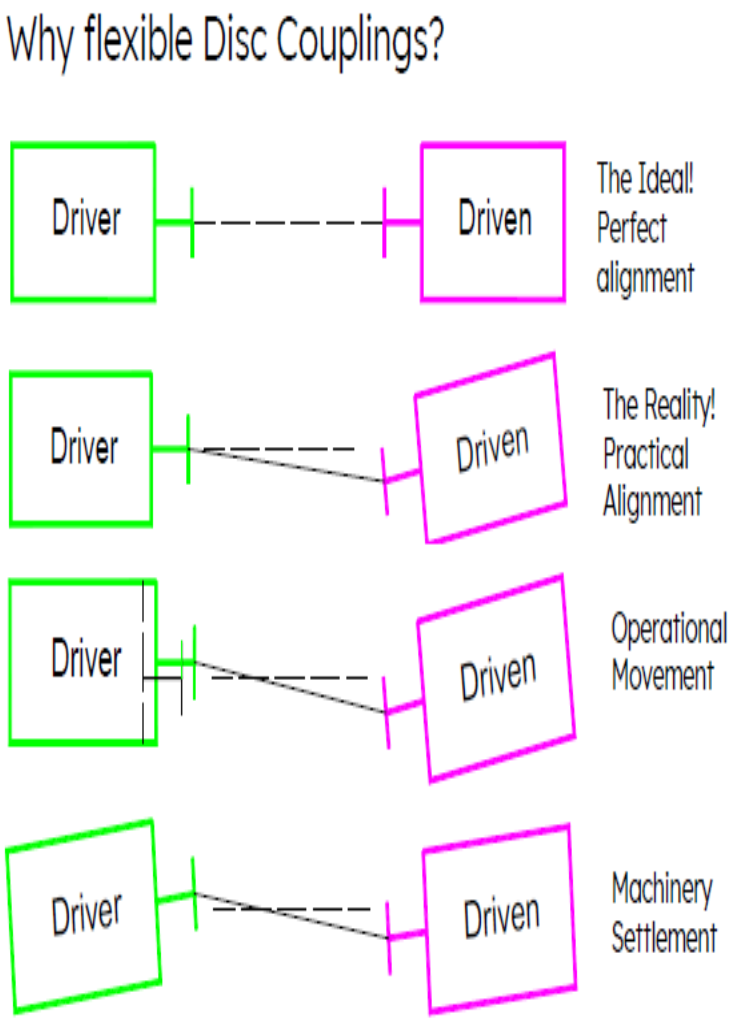
- High torque transmission
- Precision dimensional accuracy
- Vibration and shock absorption
- Wear and corrosion resistance
- Custom sizes and specifications
- Long operational life

Contact

Svanaya Systems
Website: www.svanayasystems.com
Email: sales@svanayasystems.com

Svanaya Systems Couplings & Parts

Flexible Disc Couplings

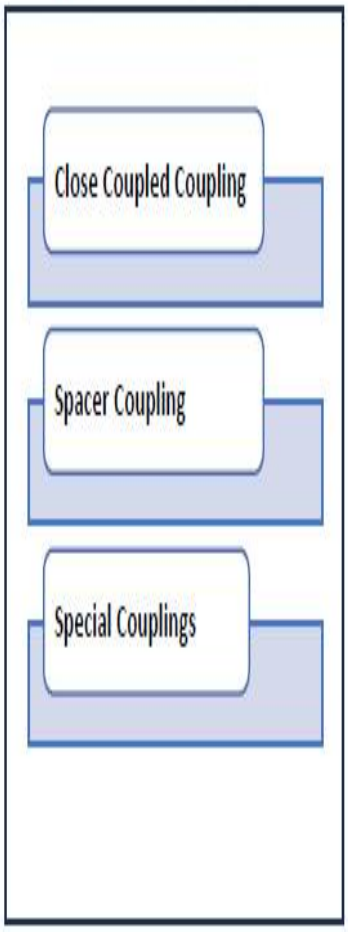


Axial misalignment is the variation in axial distance between the shafts of the driving and driven machinery.

Angular misalignment is the effective angle between the two shaft centerlines and is usually quantified by measuring the angle between the shaft centerlines when extended to intersect. If the shafts are flanged, it is simply the enclosed angle between them when brought to a position of contact.

Radial or Parallel misalignment is the transverse distance between the two shaft centerlines and is quantified by measuring the radial distance between the centerline of one shaft if it were to be extended to overlap the other.

COUPLING & SHAFT MANAGEMENT PORTFOLIO



COUPLING APPLICATIONS

COUPLING APPLICATIONS

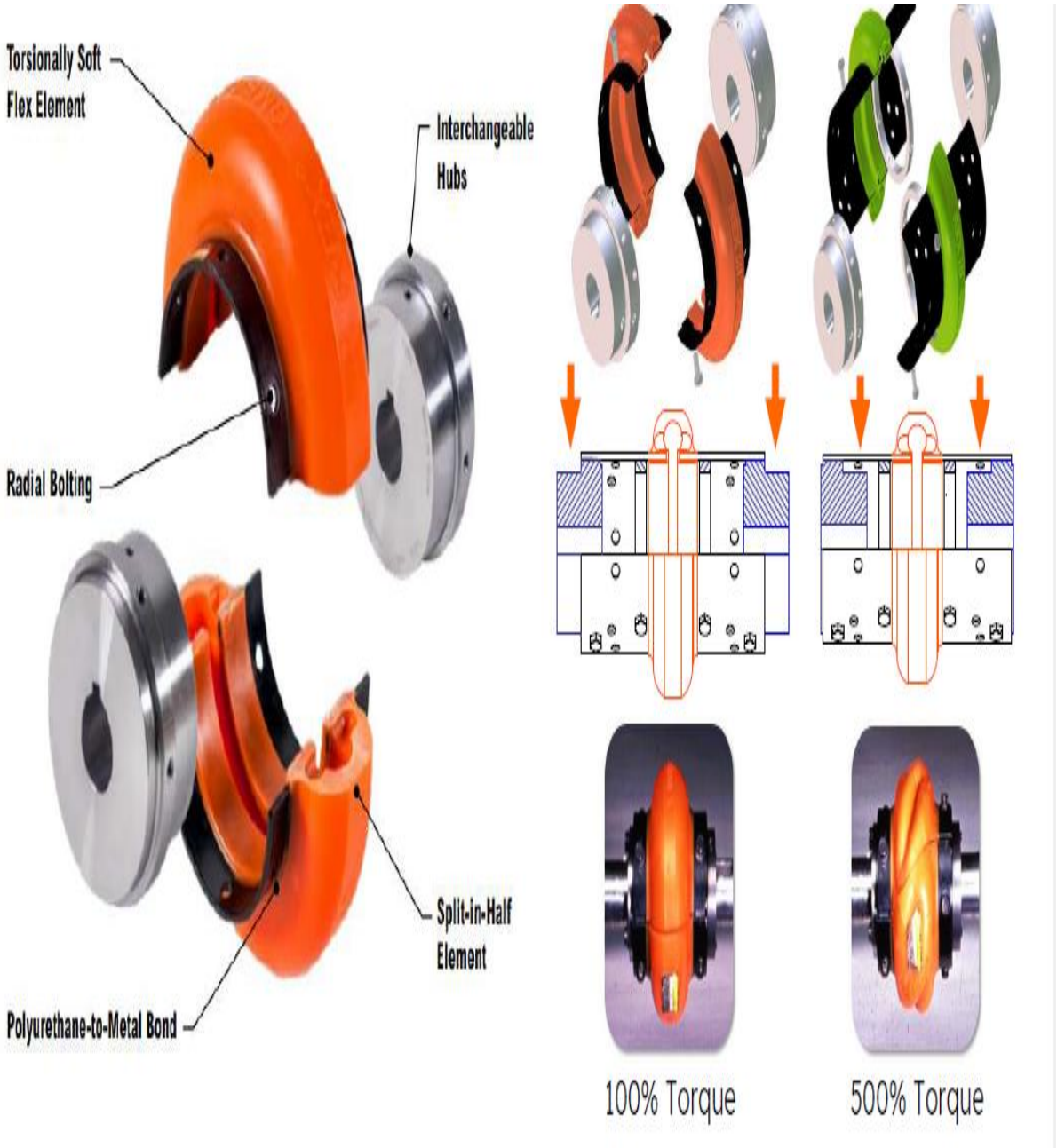
Typical Applications

General	Critical	API Pumps	Turbo Machinery
			
Small offsite pumps Chemical pumps Low duty mechanical drives	Boiler feed pumps Large offsite pumps Industrial Compressors Screw/ Lobe, Vacuum Cooling Towers Fans	Process Pumps Low speed Compressors	Compressors Industrial Gas Turbines High speed Steam Turbines

ELASTOMER COUPLING

- Non-lubricated, material-flexing couplings utilizing a specially formulated polyurethane material engineered for maximum durability, strength and fatigue resistance.
- Can operate in horizontal or vertical applications without additional components.
- Easy installation and visual maintenance inspection make these couplings a perfect selection for a broad array of industrial applications.
- High Mis-alignment accommodation capacity.

ELASTOMER COUPLING



ELASTOMER COUPLINGS

- Combination of shear and compression Elastomer type couplings.
- Simplest and most cost-effective coupling available to users and manufacturers of rotating equipment in the torque range of 11 N.m to 15000 N.m

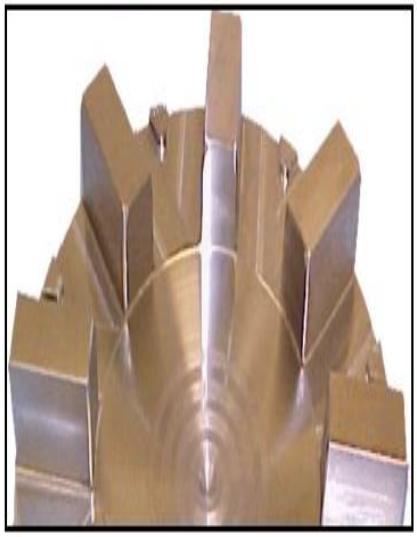
Advantages -

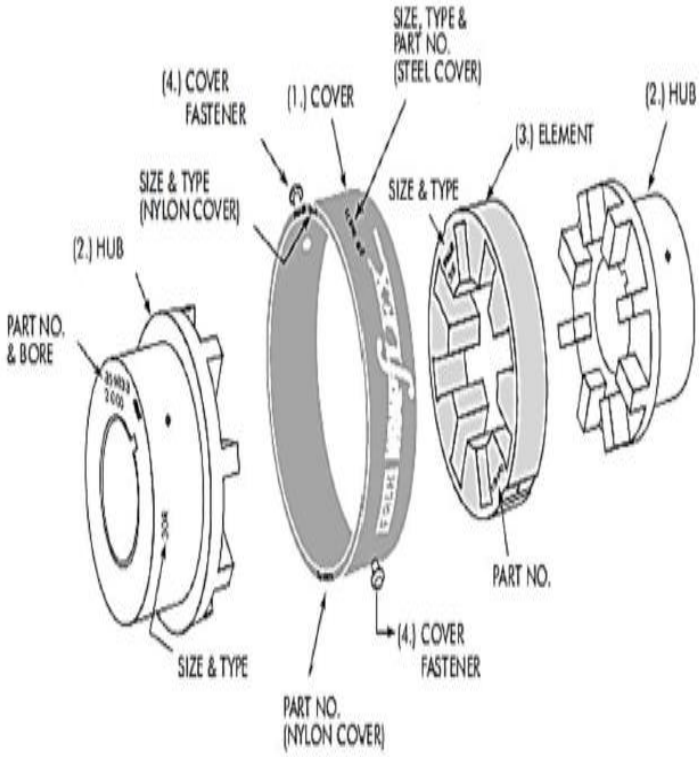
- Non-Lubricated
- Torsionally Flexible
- Replace-in-Place - Easy as changing a Element & Hub Design (Patented)
- Cast Polyurethane 60D (Green color is standard)
- Low Life-time costs
- Temperature range is -40°F to 200°F
- Available in close coupled and spacer design

ELASTOMER COUPLINGS

Replace in place design	➢Quick and ease element replacement for reduced downtime ➢Blind assembly ➢No need to move hubs ➢No realignment of motors or drives
Flexible polyurethane element	➢No lubrication for reduction in maintenance costs ➢Excellent wear and chemical resistance for longevity
Patented compound root radius in element	➢Extended element life ➢Improved flexibility for easier installation
Weather resistant cover	➢Positive element retention for safety ➢Internal key alignment for easy / blind installation
Patented hub design	➢Protects connected equipment ➢Improved element contact for increased element life
Fewer sizes covering large torque range	➢Fewer SKU's to manage ➢Reduction in inventory carrying costs

ELASTOMER COUPLINGS





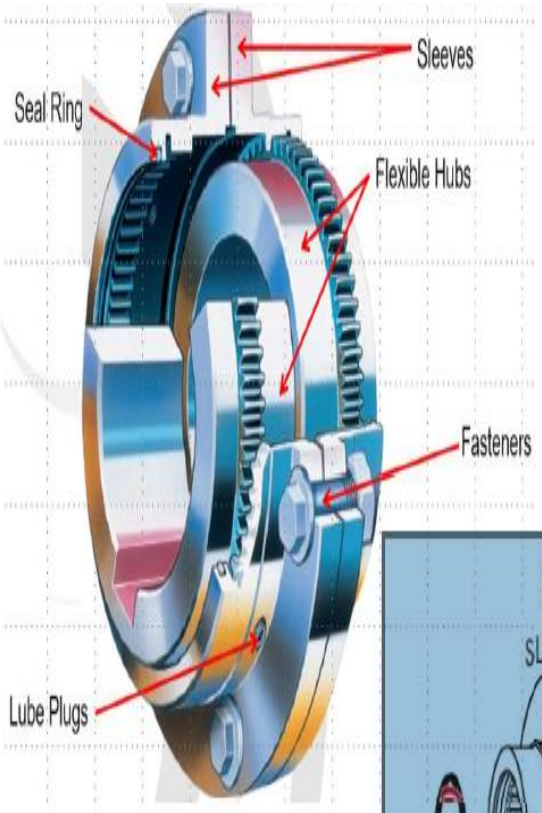
GEAR COUPLINGS

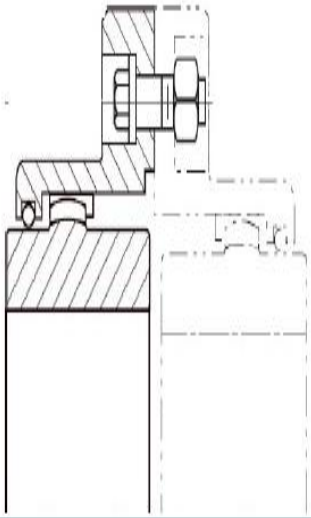
- Gear coupling is a Metallic Flexible Lubricated couplings.
- Available in the wide torque range of 1140 N.m to 8190 kN.m in standard and large flange designs.

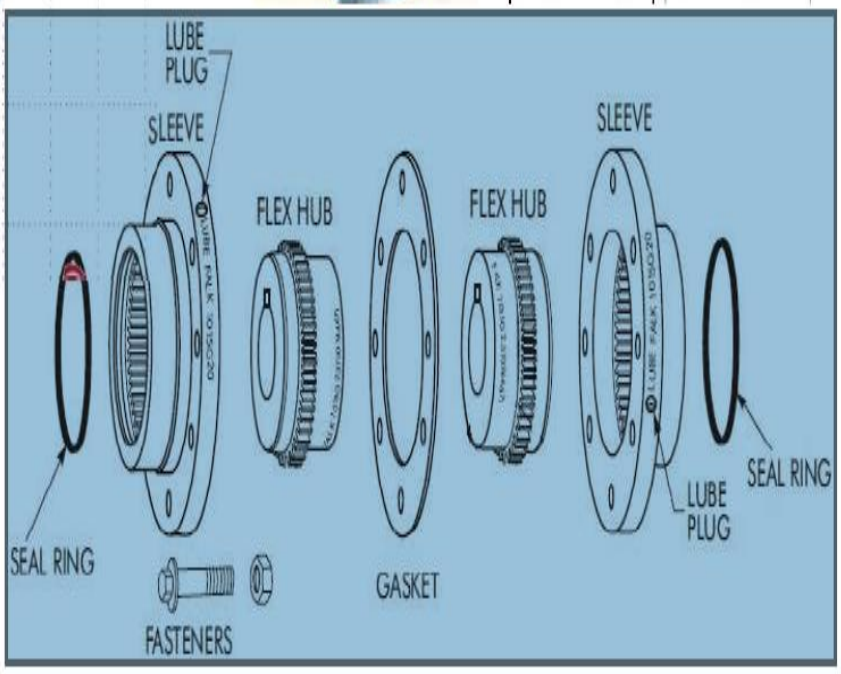
Advantages -

- Gear coupling as per AGMA.
- AGMA design offer Triple crowning.
- Atex approval for Lifelign Gear coupling.
- Superior Bore Capacities and Torque Ratings
- Largest gear coupling range (2.00" - 52.00" bore capacity).
- High mis-alignment accommodation capacity

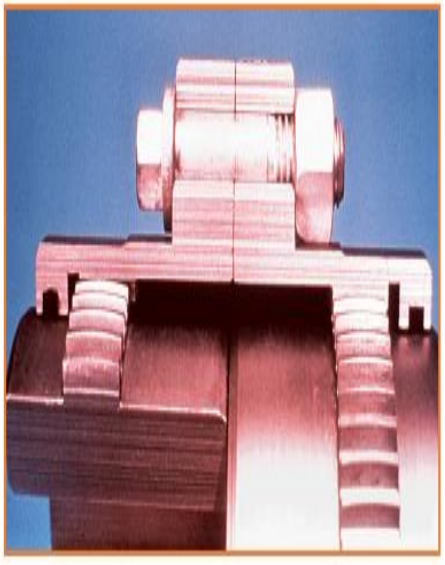
GEAR COUPLING COMPONENTS







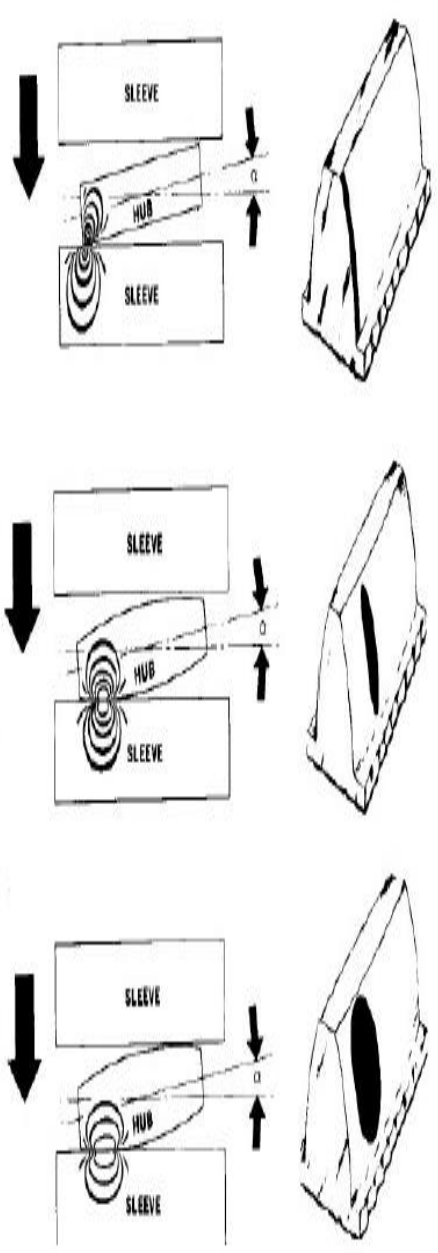
GEAR COUPLINGS



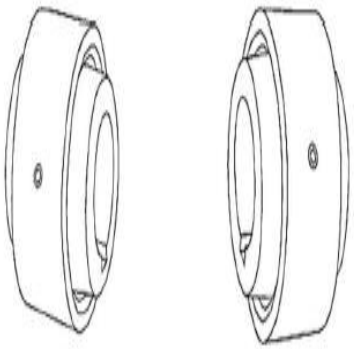
- **Four-Point Seal** - Four-Point seal improves lubrication retention during misalignment; high temperature Viton seals are available.
- **Reliable Fasteners** - Reliable, convenient fasteners High-strength, Grade-8 fasteners provide added protection against coupling failure at the flange joint.
- **One Wrench Installation** - To assure the easiest possible assembly and disassembly, fasteners are zinc-coated to prevent corrosion and feature non-turning locknuts, which allow one wrench installation with no washers required.
- **Non-turning Locknut** - Non-turning prevailing torque locknut provides a reliable hold with fewer parts.

GEAR COUPLINGS

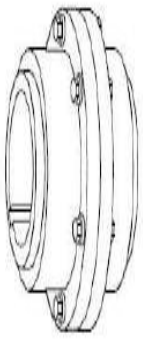
Triple Crown protection - Crowning at the root, tip and face of each tooth helps minimize wear damage due to misalignment. This triple-crown effect eliminates tip loading, while also reducing backlash and radial clearances.



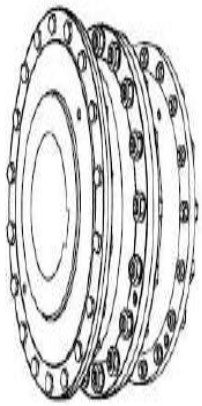
GEAR COUPLING TYPES



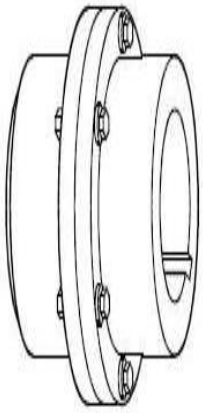
Type GC02 & GC05



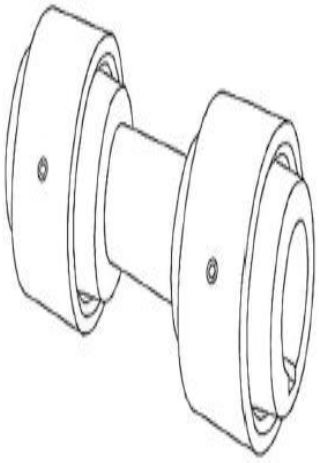
Types G20, GV20



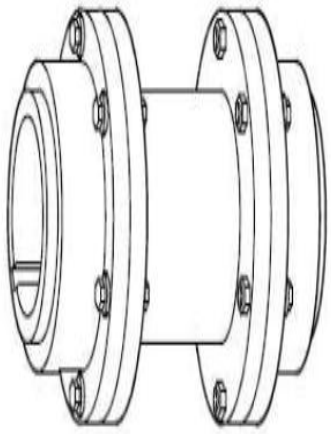
Type G Large Gear Coupling



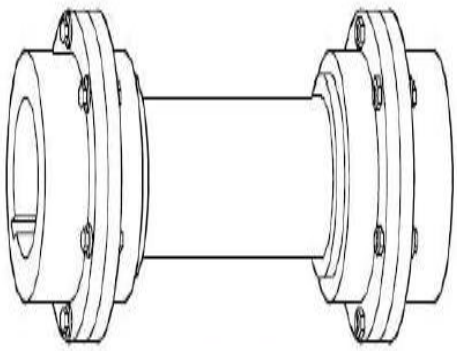
Types G52, GV52



Type GC05 Floating Shaft



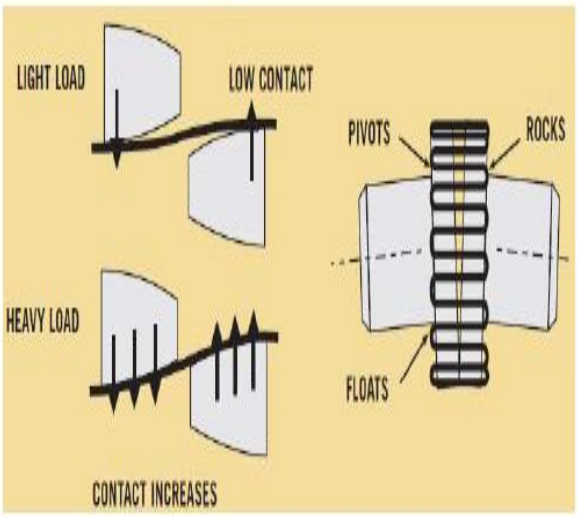
Types G32



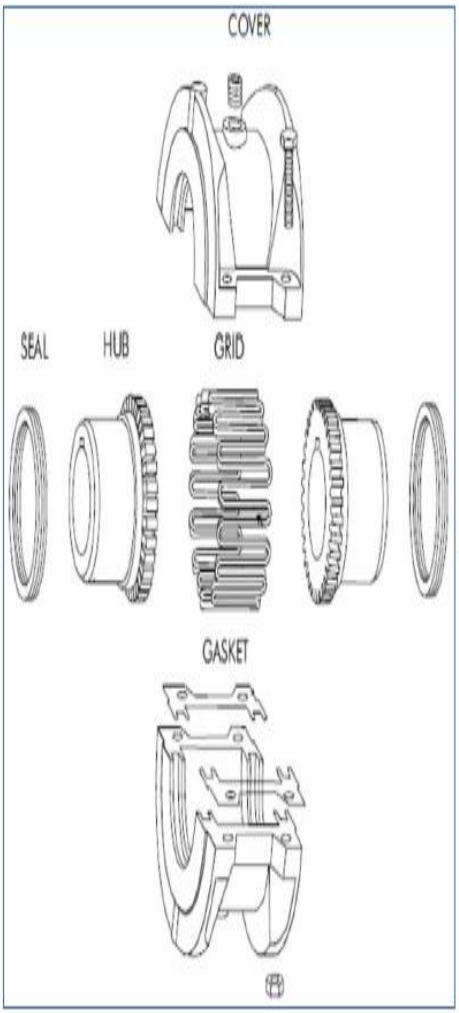
Types G52, GV52

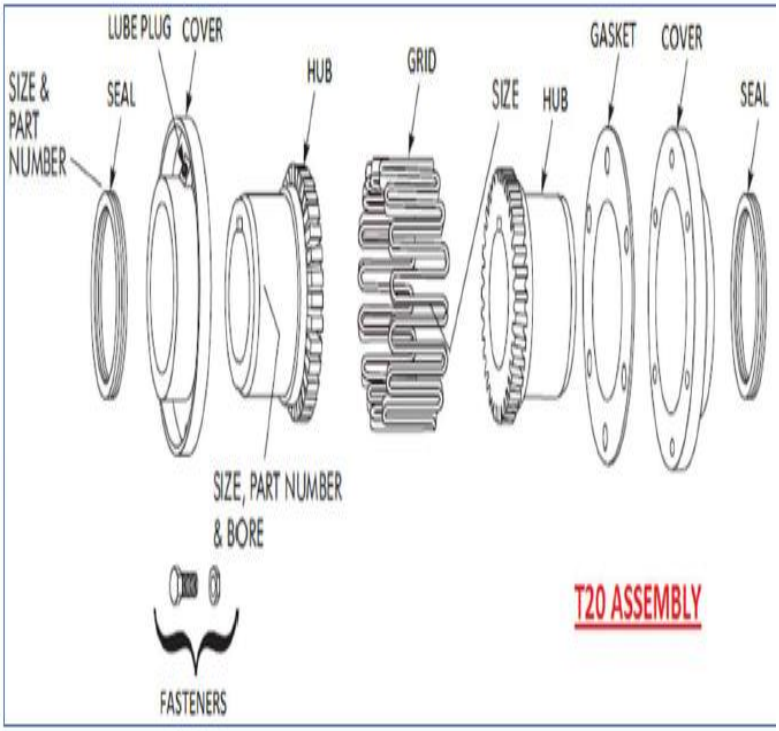
GRID COUPLINGS

- The Falk name is synonymous with grid couplings offering high torque transmission & bore capacity.
- Falk Steelflex Grid Couplings are available in broad range of sizes with Rated Torque range 52 N.m to 9,32,000 N.m. and Bore Capacity up to 480 mm.
- The grid is free to rock, pivot and float within the hub teeth and provides equipment protection against shaft mis-alignment.



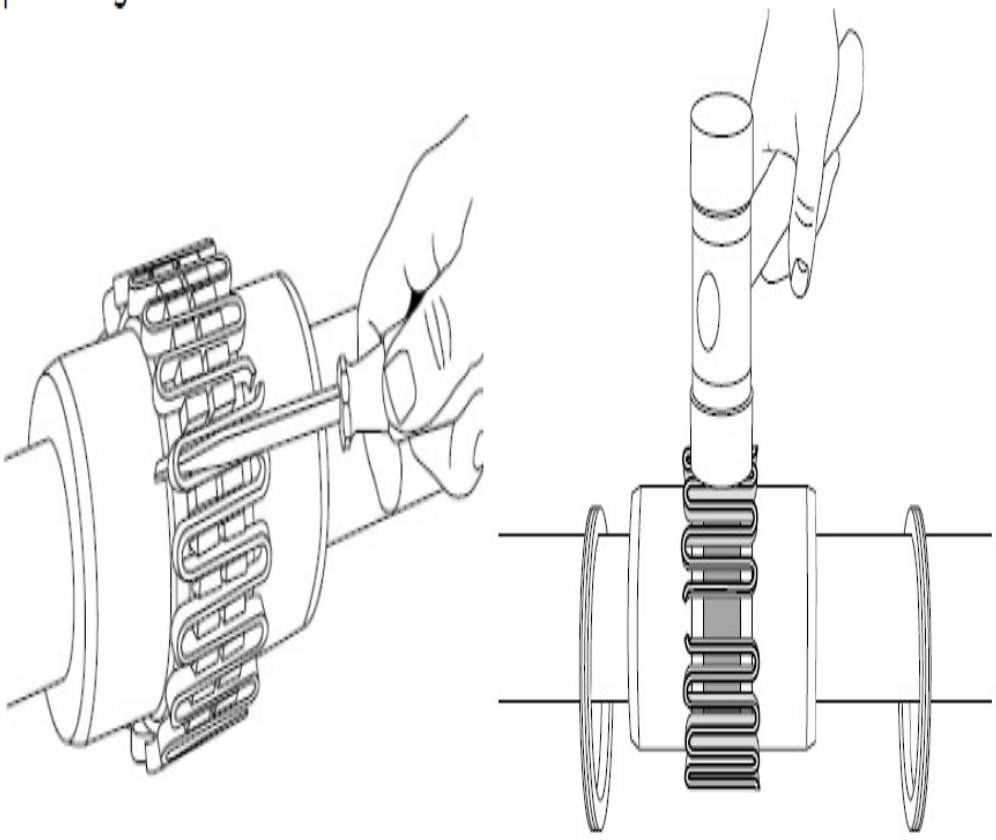
GRID COUPLINGS





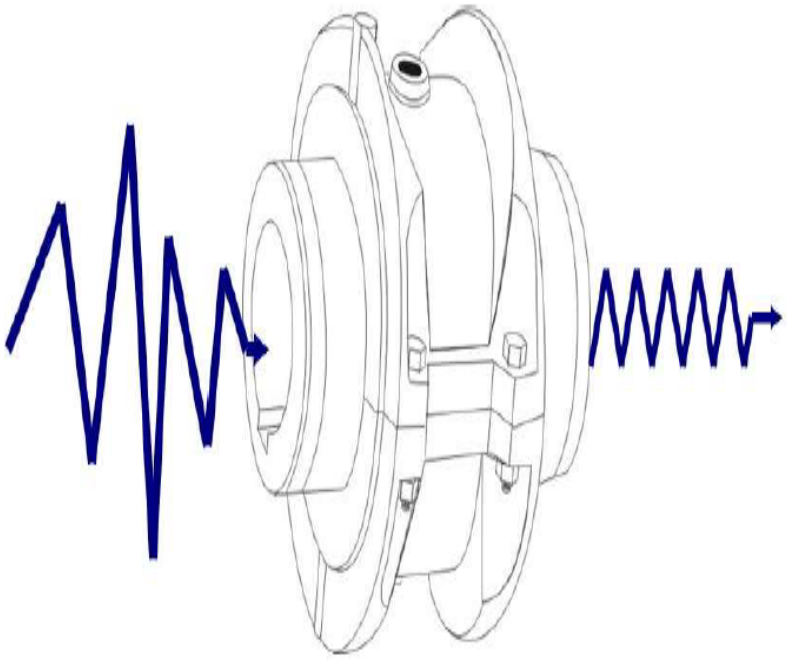
GRID COUPLINGS

- The unique "replace in place" design eliminates the need to move hubs or re-align shafts, reducing element change-out time.
- High Strength alloy steel taper grid member are quenched and tempered to spring hardness.
- The grid surface is shot peened resulting in dramatic increase of fatigue strength and torque ratings.

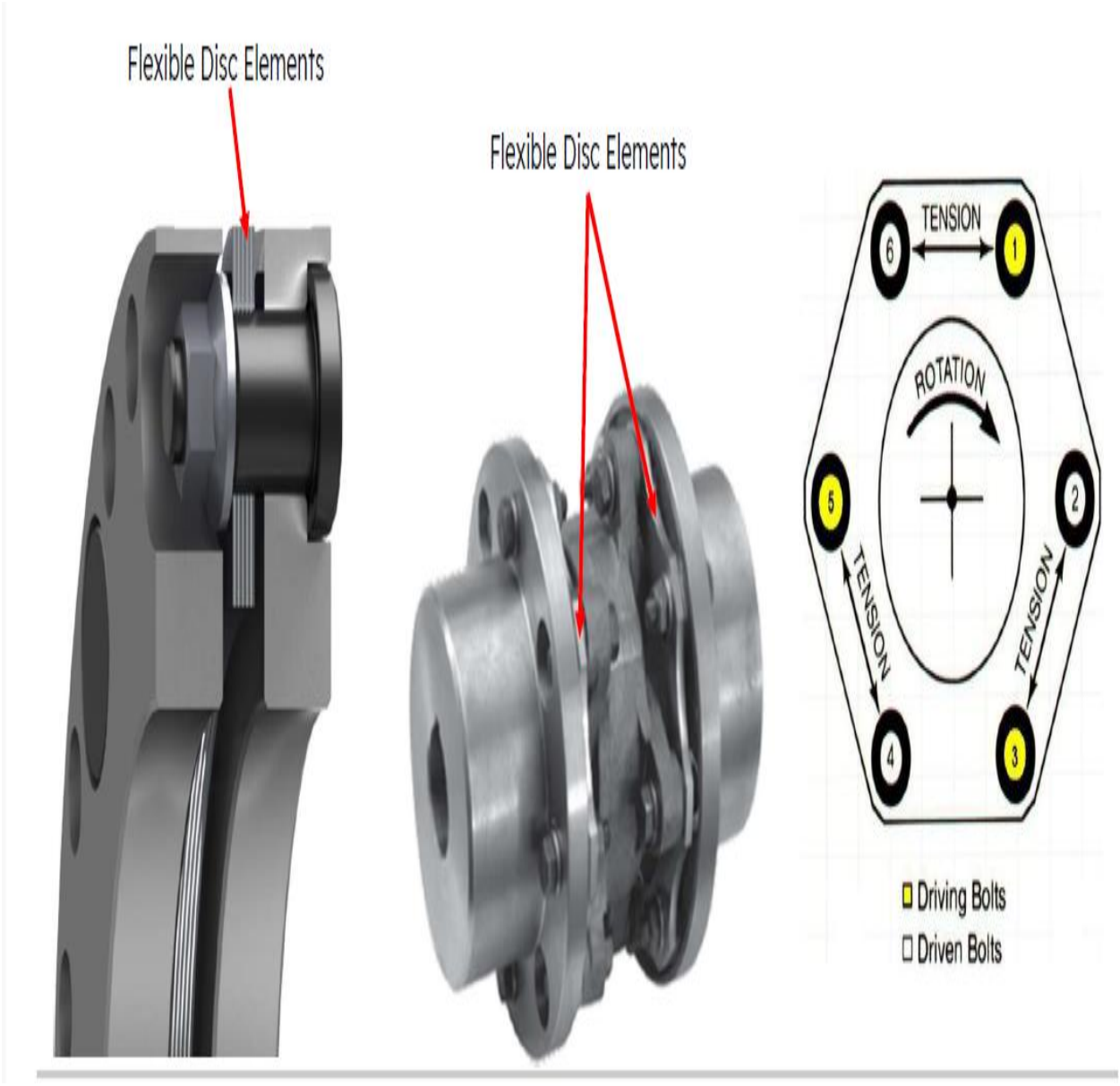


GRID COUPLINGS

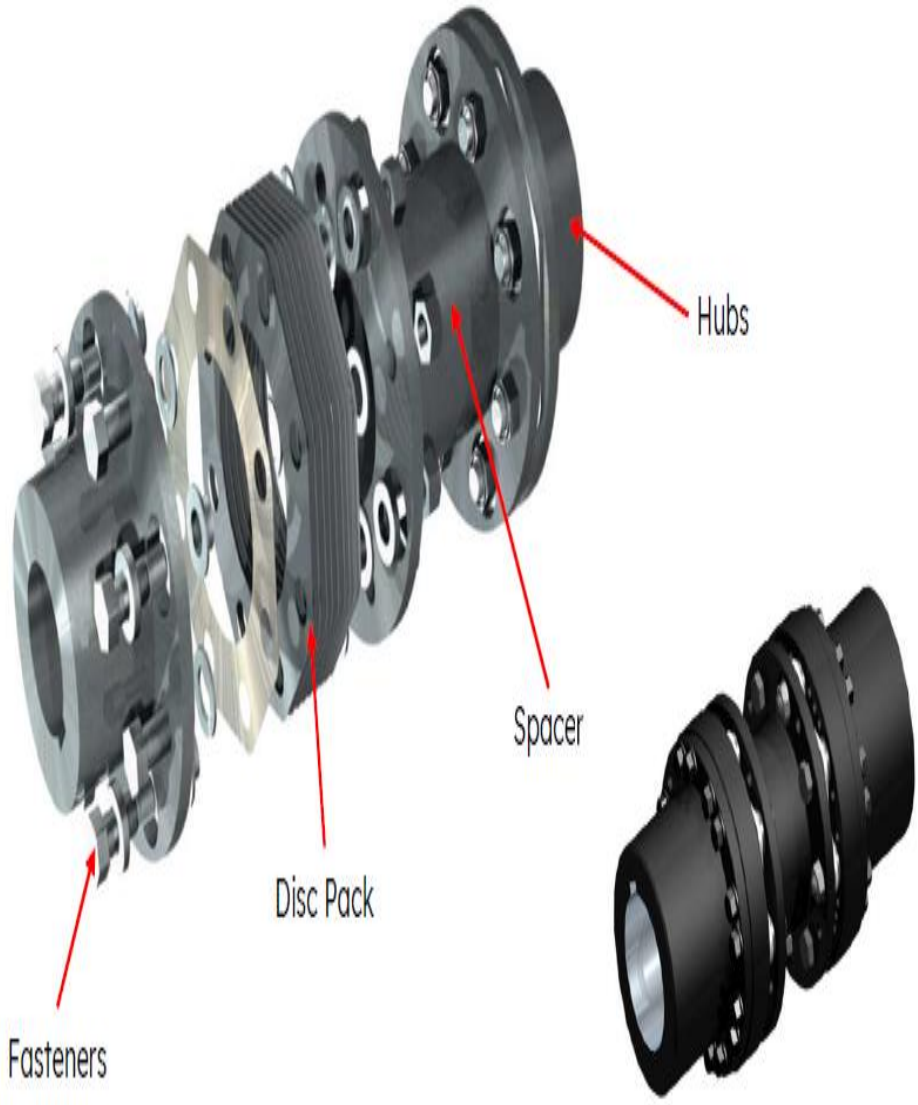
- Steelflex tunes the drive system. It absorbs impact energy by spreading it over an increment of time.
- It damps vibration and reduces peak or shock loads by as much as 30%.
- Durable Nitrile Seals are heat resistant to 275°F (135°C).
- Pipe plugs with Steel Material Zinc Plated Finish to ensure an adequate grease reservoir during initial startup and application run.



DISC COUPLINGS



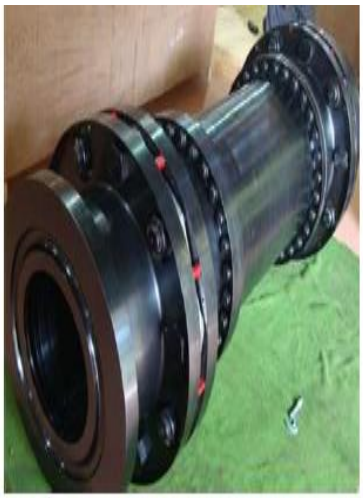
DISC COUPLINGS



DISC COUPLINGS Application

Application	Industry	OEM's	End Users
Steam Turbine Generator	Power	BHEL , Siemens , Triveni , Man Energy , Shin Nippon	Captive power Plants , COGEN Plants
Steam Turbine - BFP	Power	BHEL , GE, Mitsubishi Hitachi	All State Govt. & Stand Alone Power plants NTPC, NLC, NSPCL etc
Gas Turbines	Oil & Gas, Fertilizers, Offshore Rigs	BHEL , Siemens, GE Power, Mitsubishi Hitachi, MAN Energy, Elliot Ebara	Oil & Gas, Power Generation, Chem. & Fert. and Others
urbo Compressors & Blowers	Power, Oil & Gas, Steel, Chem. & Fert.	Dresser Rand, GE, Atlas Copco, Elliot, BHEL, MHI, Hitachi, Howden, MAN Energy, Siemens	Oil & Gas, Power Generation, Steel, Chem. & Fert. and Others
Industrial Air Compressors	All Industrial Applications	IR, Atlas Copco, Kirloskar Pneumatic, Elgi	Oil & Gas, Manufacturing, Power Gen, F&B & others
HP & LP Pumps	All Industrial Applications	Flowserve, Sulzer, KSB, Sundyne, Mather & Plate, Wilo, KEPL, DMW, Shin Nippons	Oil & Gas, Power Generation, Steel, Mining, Chem. & Fert. and Others
ID & FD Fans	All Industrial Applications	Boldrochi, Chicago Blowers, ITT, Reitz, Stranich Fans, BHEL Ranipet	Power Gen, Manufacturing, Steel, Oil & Gas

DISC COUPLINGS



Synchronous Motor 78,700 KW @ 3000 RPM

Double Element Coupling For Large Axial Displacement for Steam Turbine Application

Co-Planar Design with Titanium material

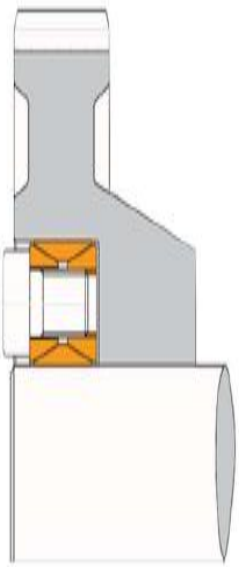
Coupling with Voith Safeset

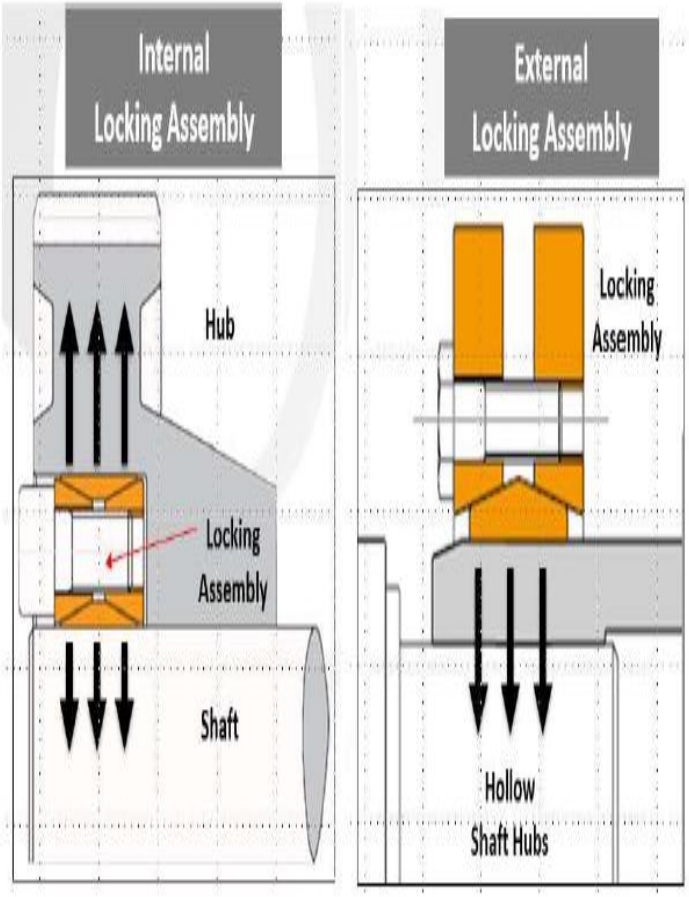
Coupling with large DBSE (6 Mtr)

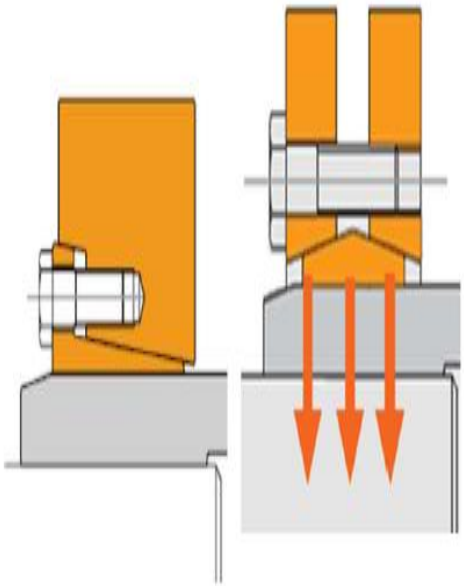
Coupling with Toque Meter

LOCKING ASSEMBLIES

- Available for wide range of shaft diameters 6 mm to 1200 mm.
- Secure rotating shafts to hubs. Manage high torque transmission
- No secondary machining. Reduce installation & maintenance time.
- Able to be used over existing keyways or tapers
- Internal & external options
- Meet torque, pressure & dimensional requirements







TORQUE LIMITERS

- A Torque Limiter is a problem solver in applications that experience torque shocks, overloads or jams.
- This is the primary function of a torque limiter - to protect mechanical equipment due to an overload situation in which it disengages or slips at a predetermined torque level and eliminate costly downtime.

Adjustability
Accurate, consistent disengagement
Quick, easy resetting
Complete Disengagement