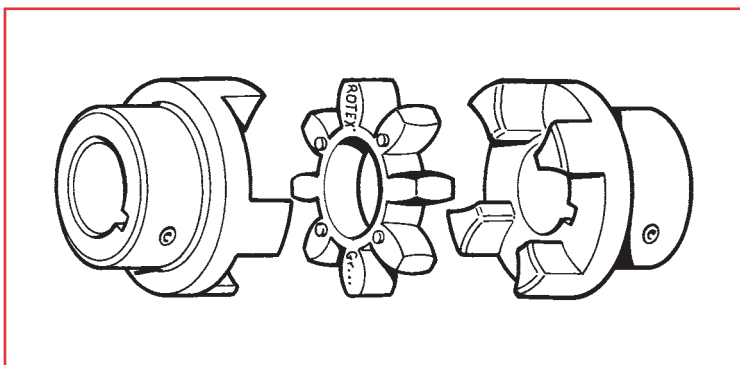




ROTEX® Curved Jaw Coupling Features

ROTEX® Coupling Features

For over 30 years, the **ROTEX®** curved jaw coupling has provided unmatched reliability and efficiency in the most demanding applications. The vast selection of hub and spider materials, combined with design features such as vibration damping, fail safe and lubrication free, makes the **ROTEX®** coupling an ideal choice for shaft connections.



Hub Materials, Sizes and Styles

- Four standard hub materials to suit every application
 - Cast Aluminum
 - Cast Iron
 - Nodular Iron
 - Steel
- Sixteen coupling sizes
- Bore sizes up to 7.875 inches
- Nominal torque up to 309,750 lb in
- Three hub designs to fit your requirements
 - Regular (low mass)
 - Large (larger bores)
 - Long (extended shaft gaps)

Lubrication Free

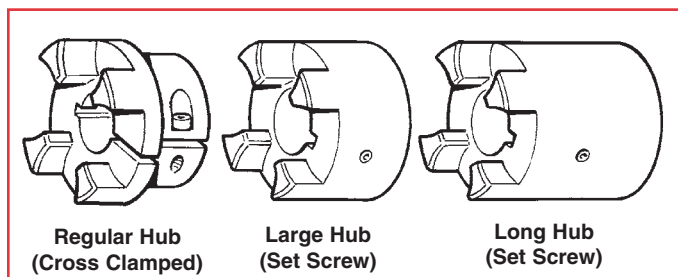
- The non-lubricated design simplifies every application and is ideal for clean environments or difficult access installations.

Fail Safe

- The interlocking jaw design will allow a controlled shutdown should a spider overload failure occur.

Maintenance Free

- The **ROTEX®** coupling does not require any periodic maintenance. Its open design allows a simple visual inspection.



Hub-Shaft Connections

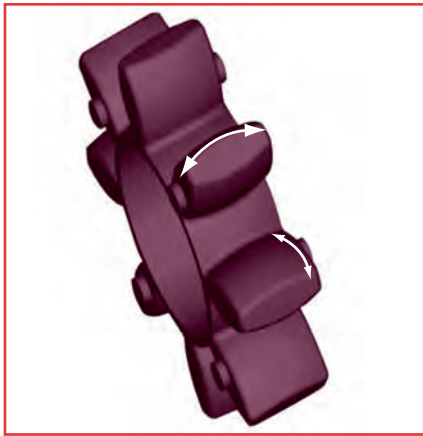
- **ROTEX®** hubs can be ordered in many configurations, such as
 - Straight bore and set screw,
 - Splined bore and cross clamp,
 - Tapered bore and set screw.

ROTEX® Special Spider Materials ¹⁾

| Spider Durometer | Spider Color | Spider Material | Admissible Temp. (F) | | Material Characteristics |
|------------------|---------------------|-----------------|----------------------|--------------|--|
| | | | Continuous | Intermittent | |
| 94 Sh A-T | Blue ⁽²⁾ | Urethane | -60 to +230 | -75 to +265 | Moisture and hydrolysis resistant, high load damping effect. |
| 64 Sh D-H | Green | Hytrel | -60 to +230 | -75 to +265 | High temperature resistant, high torsional stiffness. |
| PA | White | Polyamide | -4 to +230 | -22 to +245 | High temp. and chemical resistant, high torsional stiffness. |

1) Please consult KTR for size availability on special spiders. 2) 94 Sh A-T (Blue) spiders have yellow dots on the end of spider legs.

ROTEX® Curved Jaw Coupling Features



ROTEX® Spider Design

ROTEX® double crowned spiders are made with high grade urethane or Hytrel® in several hardnesses to suit the vibration or shock absorption needs of your application. The spider materials offer excellent memory to regain shape maintaining the integrity of the coupling.

The double crowned leg design eliminates edge pressure normally caused by angular and parallel misalignments, allowing the spider to outlast the conventional flat design.

Misalignment

- Due to the double crowned spider and concave jaw design, the ROTEX® coupling allows angular misalignment without edge pressure.

Excellent Durability

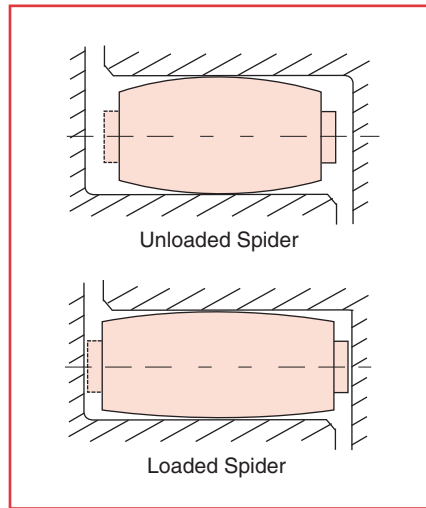
- Urethane and Hytrel® spiders are resistant to most chemicals and higher ambient temperatures for outdoor and industrial environments.

Long Life

- Spider low mass and special compounding dissipate heat and minimize hysteresis, giving the spider long life and superior performance.

Electrical Isolation

- Urethane spiders prevent electrical surges to be transmitted between driver and driven side.



Vibration Damping

- A progressive damping effect is accomplished through the ROTEX® double crowned design and materials. This design adjusts to the concave hub jaw providing a controlled expansion which absorbs shocks and reduces vibrations. The high grade molded urethane spider offers excellent memory to regain shape after absorbing high shocks.

ROTEX® Standard Spider Materials

| Spider Durometer | Image | Spider Color / Material | Admissible Temp. [F] Continuous / Intermittent | Sizes Available |
|-----------------------|-------|--------------------------------|---|-----------------|
| 92 Sh A | | Yellow / Urethane | -40 to 195 / -55 to 245 | 19 - 180 |
| 98 Sh A ²⁾ | | Red / Urethane | -20 to 195 / -40 to 245 | 19 - 180 |
| 64 Sh D-F | | White ²⁾ / Urethane | -20 to 230 / -20 to 265 | 24 - 180 |

1) For sizes 65 and above the durometer is 95 Sh A.

2) White spiders have green dots at the end of spider legs.

- Special Spider materials are available on request.