



TIDLAND

D6X Differential Air Shaft



A MAXCESS BRAND

Faster lead times meet faster maintenance

The D6X Differential Air Shaft is the next generation of core-slip (external slip) differential winding technology from Tidland. The D6X incorporates new features such as removable core stop trays, a simplified air system, narrow slit widths, and improved core stability, all while increasing torque output and weight capacity.

Customers can increase productivity by running multiple roll widths on the same shaft, reduce setup times by saving recipes, and simplify maintenance with pre-assembled tension strips. By combining multiple roll tension-equalization with manual core stop placement, the D6X provides customers optimum control and improved



roll quality on duplex or simplex winders.

The new D6X differential shaft is ideal for high weight capacity (low deflection) or high tension range applications. With these unique features and best-in-class lead times, customers can get up and running faster, while reducing costs of setup and maintenance.

Key Features & General Specifications



- **For high weight capacity (less deflection) and high tension requirement applications**
- **Reduced setup time with slit roll recipe saving on removable core stop trays**
- **Simple operation with one air system for core stops, one for tension control**
- **Easy maintenance with pre-assembled tension strips**
- **3 way around core stops for optimum core stability and roll quality**
- **Improved tension range and torque output**
- **Over 25% higher load rating than prior designs**
- **Reduced lead time for standard core sizes**

Material:

Body - steel or aluminum

Finish - nickel or anodize, custom options

Tension segments - stainless steel or plastic

Core Diameter:

76.2 - 508 mm (3.0 - 20 in)

76.2 and 152.4 mm standard (3.0 - 6.0 in)

Minimum Slit Width:

12.7 mm (0.5 in)

Operating Air Pressure:

0 - 551.6 kPa (0 - 80 psi)

Torque Output (varies, calculated for application):

3" Core: 0.56 - 224.2 N-m/m (0.35 - 50.4 in-lb/in)

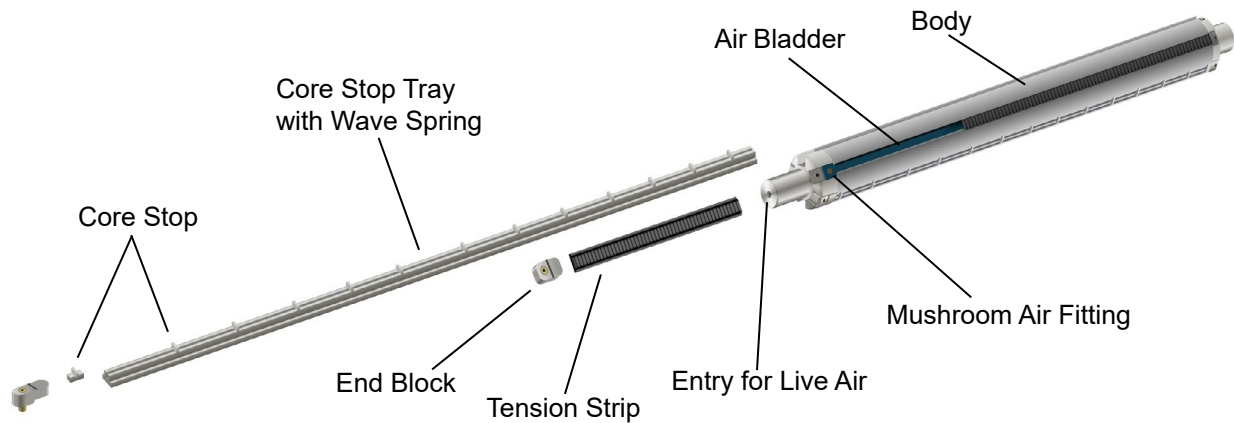
6" Core: 3.1 - 1345.1 N-m/m (0.7 - 302.4 in-lb/in)

Tension Range (varies, calculated for application):

3" Core: 0.03 - 0.58 N/mm (0.18 - 3.36 pli)

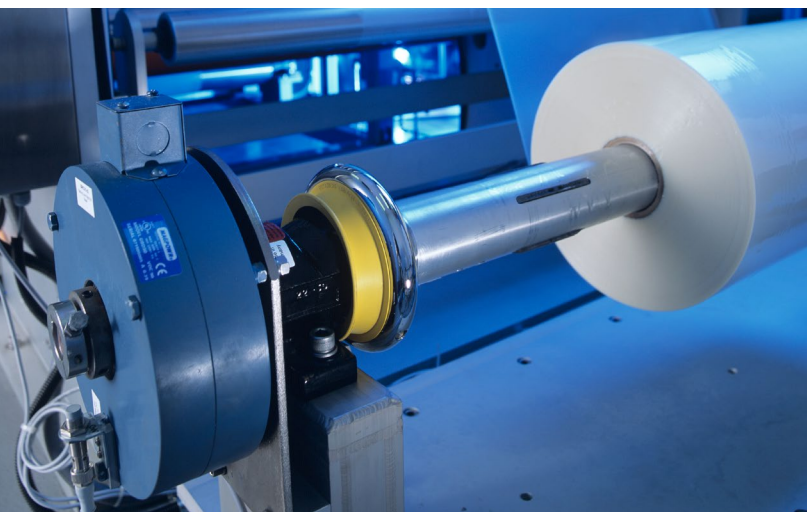
6" Core: 0.06 - 3.5 N/mm (0.35 - 20.2 pli)

DESIGN FEATURES



Accessories from Maxcess

- 12" Tension Strip (pre-assembled with spring)
- End Blocks
- Air Bladder
- Core Stop Tray
- Core Stops
- Mushroom Air Fitting



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