Water Cooled Brakes

Oil States patent pending technology reduces maintenance costs

Only Oil States CoolForce™ brakes offer a removable composite water jacket insert to reduce lifecycle costs by simplifying field maintenance and rebuilds.

CoolForce™ brakes have the same torque rating and thermal performance of traditional water-cooled brakes, but their innovative composite jacket design eliminates time-consuming weld repair and re-machining of the interior features of the water jacket. Simply remove the worn insert, and replace it.

The replaceable insert also eliminates corrosion resulting from contact of the copper backing plate with the cast iron supporting structure inside the water jacket.

In most circumstances, we can retrofit your existing water cooled brakes with our composite water jacket inserts. That means all of your water cooled brakes can deliver simpler, faster and lower-cost water jacket rebuilds going forward.

A Smarter Brake Design for Tough Applications

Oil States CoolForce™ series of water cooled brakes provides a rugged, versatile solution for high-horsepower applications demanding high torque absorption and rapid heat dissipation.

CoolForce™ water cooled brakes are precision designed for constant tension applications and are exceptionally well suited for high inertia stopping. They permit mid-shaft or end-shaft mounting, and their durable construction ensures long, trouble-free service.

Only from 

CoolForce™

Innovative Removable Water Jacket Insert

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Fast, reliable supply, service and support

• Large stocking inventories and quick turnarounds ensure short lead-times
• Full product engineering support
• Quick turnarounds for service components reduce downtime

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**Higher Performance at Lower Lifetime Costs**

- **Genuine parts**
  - Oil States replacement parts ensure durable operation for the life of your brake system

- **Unique replaceable water jacket**
  - Our exclusive removable composite insert dramatically simplifies jacket rebuilds, saving you time and maintenance costs

- **Custom or standard mounting**
  - A standard mounting hole pattern enables direct replacement of your existing brake systems, or we can design custom mounting hardware to suit your design

- **Removable wear spacers**
  - Removable spacers allow the brake to be adjusted to regain lost torque capacity caused by wear of the friction linings

- **Custom cradle mounting**
  - Custom mountings are available for oilfield drawworks deck mounting

- **Flexible coolant supply**
  - Brake coolant can be supplied from open- or closed-loop system

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**Optional features to meet your needs**

- Marine-corrosion package for marine applications
- **Optional high-coefficient friction lining providing additional torque capacity**

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**CoolForce™ Mounting Hole Patterns**

| Available diameters: | 18”, 24” and 36” |
| Available torque capacities: | 50,000 to 1,200,000 in/lb. |

- **18WCB**: 10 holes, 65/8” dia. based on 12 hole pattern on 22,000 (550) bolt circle
- **24WCB**: 10 holes, 65/8” dia. based on 12 hole pattern on 28,3/4” (730) bolt circle
- **36WCB**: 14 holes, 1-9/16” dia. based on 16 hole pattern on 42,000 (1371) bolt circle
Water Cooled Brakes

Applications

Oil and Gas
CoolForce™ technology provides an excellent solution for use in oil and gas operations and for equipment including mooring winches, drilling and auxiliary drawworks, and top drives.

Marine
Ideal for marine deck applications, CoolForce™ Water Cooled Brakes are well suited for anchor handling and winches, deck winches and mooring winch applications. Marine-grade finishes are available.

Logging
For yarders and other mobile logging equipment, CoolForce™ technology offers outstanding performance and field serviceability.

Industrial
CoolForce™ Water Cool Brakes are an outstanding choice in a range of industrial, steel processing and metal forming applications, including steel slitting, metal coilers, unwind stands and tension brakes.

Parts & Retrofit Services

Genuine Oil States parts
Oil States replacement parts are manufactured to the most exacting specifications from premium materials to ensure that your CoolForce™ brakes operate reliably and dependably in the field.

CoolForce™ parts can also be used as replacement parts for compatible watercooled brakes from other manufacturers.

All non-wear CoolForce™ parts carry a one-year replacement warranty for defects in material or manufacturing.

Simplify rebuilds for all your brakes with a CoolForce™ retrofit
When CoolForce™ brakes are direct dimensional replacement for your existing brakes, we can retrofit your equipment with genuine Oil States composite water jacket inserts to simplify field maintenance and rebuilds. Your water jacket castings will be machined with recesses to accept the inserts, and your unit will be rebuilt to Oil States CoolForce™ specifications with genuine Oil States replacement parts.

Global distribution and support
Around the world, our Oil States distributor network offers the inventory and short-lead times you demand to keep your production on track and minimize downtime in the field. We offer full engineering support worldwide to help you quickly and confidently solve your toughest design challenges.
**CoolForce™ Air-Actuated Brakes**

CoolForce™ Air-Actuated Brakes are designed with release springs to fully disengage the brake. This brake configuration provides a direct drop-in replacement for Hydromatic/Eddie drawworks brakes.

**Dimensions**

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**CoolForce™ Spring-Actuated Brakes**

Our spring-actuated brakes offer an release operation for fail safe applications, static holding, emergency stopping and dynamic tensioning. This configuration allows for quick and easy on-site repairs when needed.

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**CoolForce™ Configuration**

The configuration provides a direct drop-in replacement for Hydromatic/Eddie drawworks brakes. CoolForce™ Air-Actuated Brakes are designed with release springs to fully disengage the brake. This brake configuration allows for quick and easy on-site repairs when needed.
About Oil States Clutch & Brake Systems

Oil States is a global supplier of trusted clutch and brake solutions for industrial, oilfield, mining and forestry applications and more. Engineered and tested to the highest standards of performance and reliability, Oil States brake and clutch solutions offer a full range of performance and configurations for virtually any environment.

**DRUM STYLE**
- Elasta-Flex® VC Series
- Elasta-Flex® HVC Hydraulic Series
- Elasta-Flex® CB Series
- Elasta-Flex® CM Series

**DISK STYLE**
- CoolForce™ Water Cooled Brakes
- Hydraulic and Pneumatic Calipers

**EXPANDING CLUTCH ACTUATORS**
- Elasta-Flex® E Series
- Elasta-Flex® VE Series
- Elasta-Flex® Expander Tubes

Contact your local Oil States representative to learn more about our full clutch and brake product line.