

PRODUCT DIRECTORY

CLUTCH & BRAKE SYSTEMS



Product Directory

Clutch & Brake Systems



Oil States Clutch & Brake Systems

A tradition of excellence for demanding applications.

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.

Our line of pneumatic/hydraulic actuated clutches and brakes includes constricting (tube expands inward) and expanding (tube expands outward) designs in a variety of configurations to suit your application needs. All are designed around our fabric-reinforced inflatable elastomeric tube technology.

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

Clutch and brake configurations for a wide range of applications

- | | | |
|--------------------------|------------------------------------|----------------------|
| • Agricultural | • Draglines | • Materials handling |
| • Brewing | • Grinding mills | • Paper |
| • Canning | • Lumber and woodworking | • Petroleum |
| • Chemical manufacturing | • Marine equipment | • Steel milling |
| • Amusement rides | • Metal fabricating and processing | • Turbines |
| • Mining | | |

ELASTA-FLEX® VC Series

Ideal for severe high torque applications, the ELASTA-FLEX VC brake is a durable, high thermal capacity drum clutch or brake. The unique design of the ventilated friction shoe assembly allows for a high volume of air flow across the entire shoe length, enhancing heat dissipation, preserving the elastomeric actuator tube and extending overall clutch life. Virtually all components used in the VC design are replaceable.



ELASTA-FLEX® HVC Hydraulic Series

Ideal for large-scale industrial equipment, Oil States HVC clutches and brakes offer high-torque and exceptional reliability in a hydraulic configuration. With a high-pressure hydraulic tube, rim and friction shoe assembly, HVC solutions provide high torque in a smaller hydraulic package, delivering significant cost savings over pneumatic alternatives.

ELASTA-FLEX® CB Series

Reliability, low inertia and simplicity of design make the ELASTA-FLEX CB an excellent choice for high-speed, cyclical clutch operations and low-to-medium torque systems.

Its integral rim/tube construction makes this a highly adaptable solution, and the tube's design compensates for imperfect alignment in the driving system while delivering a smooth transfer of power.



Please contact us for individual product catalogues and/or application assistance.

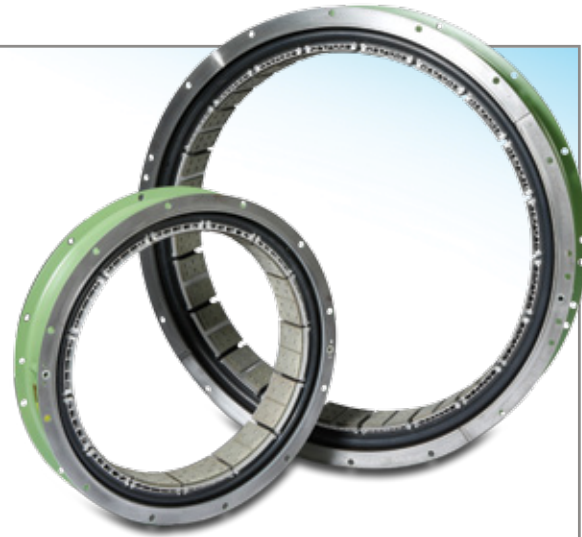
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ELASTA-FLEX® CM Series

Oil States CM clutch technology is the preferred choice for the marine industry. The CM is a ventilated version of our CB solution, providing greater heat dissipation through the ventilated friction shoe assembly. The CM design permits clutch slippage during vessel maneuvering and cycling engagement.

CM technology is offered both new and remanufactured for efficiency and economy. A new elastomeric element can be molded into the existing rim and new friction shoe assemblies installed.



ELASTA-FLEX® ER Series

ER clutches and brakes feature a centrifugal expander tube that provides shock absorption and transmits the entire torque load, providing long life in high duty cycle environments. ER clutches and brakes are designed for commercial laundry, tire builders, paper converters and other textile-related machinery. The ER element can be used as a shaft coupling, light slip clutch, or tension/holding brake.

CoolForce™ Water Cooled Brakes

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.

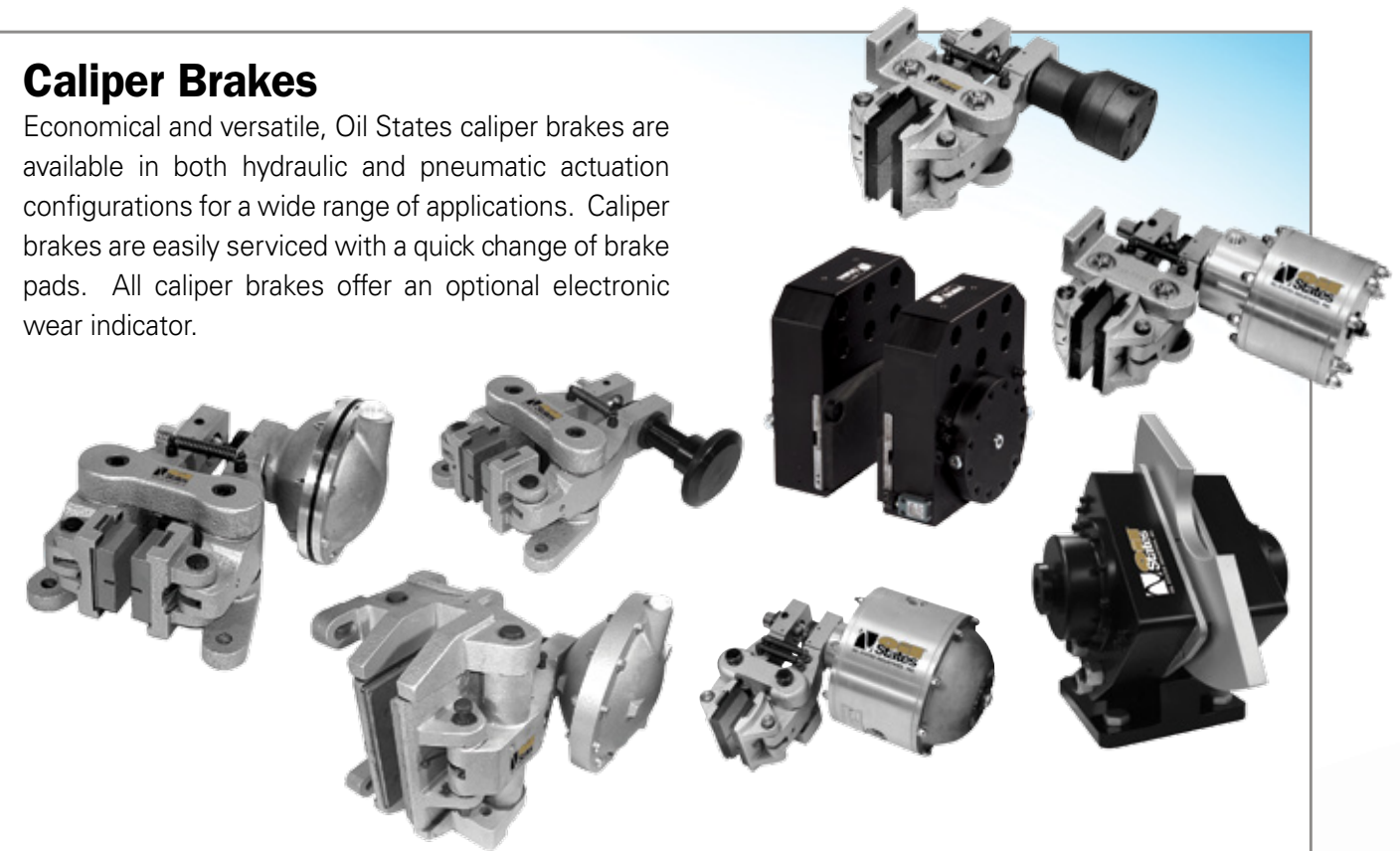
CoolForce water cooled brakes are designed for constant tension applications and are exceptionally well suited for high-inertia stopping. They permit mid-shaft or end-shaft mounting, and their durable construction ensures long, trouble-free service.

Only the Oil States CoolForce brake offers a removable composite water jacket insert to reduce lifecycle costs by simplifying field maintenance and rebuilds. Worn inserts are simply removed and replaced.



Caliper Brakes

Economical and versatile, Oil States caliper brakes are available in both hydraulic and pneumatic actuation configurations for a wide range of applications. Caliper brakes are easily serviced with a quick change of brake pads. All caliper brakes offer an optional electronic wear indicator.



ELASTA-FLEX® E, VE & Expander Tubes

Oil States offers a complete line of expander tube sizes and replacement components including springs, shields and friction shoe assemblies. Our tubes are designed for the rigors of high-pressure, high-temperature hydraulic applications up to 700psi.

In addition to standard sizes, we offer specialty tubes for unique applications such as vintage aircraft brakes.



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Clutch & Brake Systems



Parts, Accessories & Rebuild Kits

To complement our clutch and brake technology, we sell a broad selection of accessory components as well as rebuild kits to extend the life of your equipment. We offer long-wearing drums, hubs, and spiders; rotary couplings; pneumatic quick release valves and a variety of hardware components to tailor each solution to your specific application.



Global Distribution & 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.



Applications

Industry	Machine Function	Oil States Products	Industry	Machine Function	Oil States Products
Agricultural	Grain Elevator	VE	Metalworking (continued)	Expanders	CB, VC, Calipers
	Irrigation	CB		Presses (Brake, Forging)	CB, VC, Calipers
	Sugar Refining	CB, VC		Presses (Forming, Stamping & Punching)	CB, Calipers
Breweries	Bottle Cleaning	CB, Calipers		Presses (Geared, Non-Geared)	CB, VC
	Conveyor Systems	CB, Calipers		Forging Machine & Upsetter	CB, Calipers
	Labeling	CB, Calipers		Fly Wheel Brake	Calipers
Canning	Packaging	CB, Calipers		Rewind Stand	Calipers, WCB
	Body Maker	CB, VC, Calipers		Roll Forming	CB
	Copper	CB, VC, Calipers		Rolling Mill	CB, VC
	End Press	CB, Calipers		Shears (Alligator, Plate)	CB, VC, Calipers
	Lining Machine	CB, Calipers		Shears (Rebar)	CB, Calipers
	Pull Tab Press	CB, Calipers		Seamer	CB, VC, Calipers
	Strip Feed Press	CB, VC, Calipers		Slitter	CB, VC, Calipers
Entertainment	Tab Press	CB, Calipers	Mining & Cement	Spring Coil	Calipers
	Any amusement ride drives	CB, VC, Calipers		Unwind Stand	WCB
Ceramic & Building Materials	Block & Splitter	CB, Calipers		Wire Cage	CB
	Brick Press	CB, VC, Calipers		Rolling Mill	CB, VC
	Clay Cutter	CB		Shears (Alligator, Plate)	CB, VC, Calipers
	Extruder	CB, VC, Calipers		Shears (Rebar)	CB, Calipers
	Kiln	CB, VC		Seamer	CB, VC, Calipers
	Oven	CB, VC		Slitter	CB, VC, Calipers
	Pug Mill	CB, VC		Spring Coil	Calipers
Chemical Plants	Compressors	CB, VC, Calipers		Unwind Stand	WCB
	Hammer Mill	CB, VC, Calipers		Wire Cage	CB
	Kilns	CB, VC		Vertical Poller Mill	VC
	Mixers	CB, VC, Calipers		Kilns	CB, VC, Calipers
	Pumps	CB, VC, Calipers	Paper	Locomotive	WCB, Calipers
Construction	Air Compressors	CB		Pulverizers	CB, VC
	Capstans	CB, VC, VE, Calipers		Shovels	Calipers
	Conveyors	CB, VC, ER		Ventilating Fans	VC
	Engines	CB, VC		Calendar	CB, VC
	Excavating	CB, VC		Chipper	Caliper
	Hoists	CB, VC, Calipers		Converters	WCB, Calipers
	Hydraulic Pump Drives	CB		Conveyors	CB, VC, Calipers
	Insulation Shear	CB, VC, Calipers		Couch	CB, VC, ER
	Overhead Crane	CB, VC, VE, Calipers		Debarker	CB, VC
	Pumps	CB, VC, Calipers		Dryer	CB, VC
	Tunnel Boring	VC		Press Section (Breaking, Plain, Size, Suction, Smoothing)	CB, VC, Calipers
	Winches	CB, VC, VE, Calipers, WCB		Pulpers	CB, VC, Calipers
Dynamometer	Torque Converter/Absorber	WCB, Calipers		Reel	CB
	Holding Brake	CB, VC	Rubber	Slitter	CB
Engines	Power Take-Off	CB, VC		Unwind Stand	WCB
Glass	Edging Decks	CB		Woodyard Machine	CB, VC, Calipers
	Glass Sand mill	VC		Yankee Dryer	CB, VC
	Molding	CB, Calipers		Calendars	CB, VC, Calipers
	Shears	Calipers	Sugar & Starch	Mills Drive	CB, VC
Laundry	Bar Soap Extruders	CB, Calipers		Mixer	CB, VC
	Extractors	CB, ER, VC	Steel	Tire Builder	CB, VC, ER, Calipers
Logging	Commercial Washers	CB, ER		Centrifuge	VC
	Skidders	Calipers		Inter-carriage	CB
Lumber	Yarders	VE, WCB		Sugar Mill	CB, VC, Calipers
	Band Saw	Calipers		Accumulator	CB, Calipers
	Breakdown Hoist	CB, VC, Calipers		Conveyors	CB, VC, Calipers
	Conveyors	CB, VC, Calipers		Furnace	CB, Calipers
	Carriage Drive	WCB		Rewind Stands	CB, WCB
	Lathe	CB, VC, Calipers		Rolling & Tube Mills	CB, VC, Calipers
	Plywood Stacker	CB, Calipers		Rollover	VC
	Sawmill Carriage	VC, Calipers	Turbines	Sand Mixers	CB, VC, Calipers
	Stackers	CB, Calipers		Unwind Stand	WCB, Calipers
	Veneer Trays & Clipper	CB		Wire Drawing	Calipers
Marine	Anchor Winch	WCB, Calipers		Drive & Starter	CB, Calipers
	Auxiliary Engine	CB		Drive & Water	VC, Calipers
	Bow Thruster	CM, VC		Drive & Wind	VC, Calipers
	Deck Machinery	CB, VC, VE, WCB, Calipers	Test Bench	Car, Tractor, Truck Dynamometer	VC, WCB
	Dredges	CB, VC, WCB		Dynamometer	CB, WCB
	Drive Gears	CM		Engines	CB, VC
	Generators	CB, VC	Oil & Gas	Gear Box	WCB
	Pipe Laying Equipment	VC, WCB		Auxiliary Drives	CB
	Power Take-Off	CB, VC		Cat Head	CB, VC
	Propulsion	CB, CM, VC		Compound	CB
	Propeller Shaft Brake	VC, Calipers		Construction Barge	WCB
	Pumps	CB, VC		Draw Works	CB, VC, WCB
	Liftboats	HVC		Engines	CB
	Bender & Formers	CB, VC, Calipers		Hoist Drum	CB
	Bridle Rolls	VC		Inertia Brake	CB, VC, Calipers
	Car Shredders	CB, CM		Offshore pipe Laying	WCB
Metalworking	Coiler	WCB		Power Take -Off	CB
	Coin Press	CB, Calipers		Pumps	CB
	Cut-Off Machine	CB, Calipers		Rotary	CB, VC, Calipers
	Draw Bench (High Speed Shaft)	VC, Calipers		Sand Reel	CB, VC, Calipers
	Draw Bench (Low Speed Shaft)	CB, VC, Calipers		Slush Pump	CB
				Mooring Winches	VC, WCB, Calipers

Please contact us for individual product catalogues and/or application assistance.

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



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