INNOVATION

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REVOLUTIONARY COUNTERBALANCED FORKLIFT TRUCK BRAKING TECHNOLOGY FROM WARNER ELECTRIC PROVIDES ENHANCED PERFORMANCE

Electric-powered forklifts have grown significantly in popularity over the past several years as users look to gain efficiency in their operations. A recent study** showed typical fuel costs for an electric/battery-powered truck was $4.10 compared to $20.00 for an internal combustion (IC) truck working an 8-hour shift.

Newer battery technologies have increased energy efficiency even further with fast-charging lithium battery packs that use 50% less energy than traditional acid batteries. These evironmentally-friendly developments combined with the elimination of fumes and acid spills and reduced maintenance, have led OEMs to design larger capacity electric counterbalanced trucks used indoors that typically would be IC-powered.

Safely stopping and parking these larger capacity electric-powered vehicles can put added strain on typical braking systems.

INNOVATIVE TECHNOLOGY MEETS THE HEAVY-LOAD BRAKING CHALLENGE

Warner Electric engineers developed the CBTB family of electromagnetic axle brakes specifically for use on electric-powered, counterbalanced forklift trucks with capacities generally up to 8 tons (17,900 lbs.). The advanced high-torque brakes provide reliable service and parking brake functionality in a compact, space-saving footprint.

The new brakes feature high energy and high speed which allows for increased maximum truck speed and improved productivity.

www.warnerelectric.com

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UNIQUE SPACE-SAVING BRAKE DESIGN

The Warner Electric engineering team drew on its extensive braking technology knowledge, combined with vast forklift application experience, to develop the CBTB brake line.

The CBTB is designed for counterbalanced trucks that require the narrowest footprint. It is installed between both wheel motors on the load bearing axle. When engaged, its double-disc arrangement allows the brake to act on both motors simultaneously, keeping the truck in a safe and straight trajectory.

Combined with the regenerative braking of the motors, this brake provides service, emergency and parking functionality.

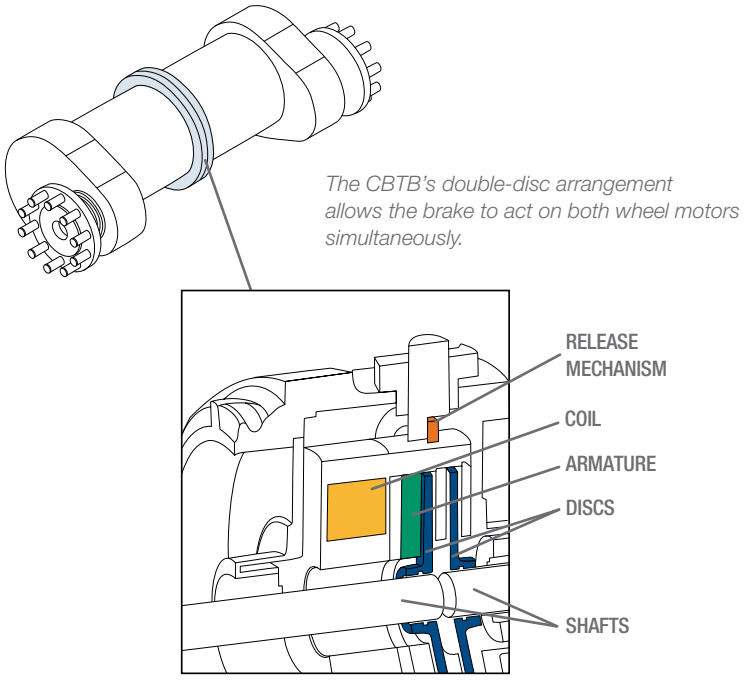
CBTB brakes are offered in three sizes with torque ratings from 55 Nm to 350 Nm. An optional camshaft hand release lever is available. Units can be customized to meet specific application requirements.

ADVANCED FRICTION MATERIAL TECHNOLOGY PROVIDES LONG LIFE

Designed to handle the heavy-load, high-torque requirements of large-capacity trucks, CBTB brakes utilize a proprietary high-speed, high-energy, non-stick friction material that provides reliable braking in static parking, high-energy service and emergency stopping conditions.

OPTIONAL SMOOTH DUAL-TORQUE PERFORMANCE

An optional dual-stage functionality is available to provide better control of the torque by applying 50% or 100% of the brake torque capacity. This can help to control the deceleration of the truck on demand, such as a softer emergency deceleration. To help prevent damaging load shifting or falling, the dual armature's engagement ensures a smooth, even stop. It also prevents flat surface damage to tires that often occurs when wheels lock up during an abrupt emergency stop.



The CBTB's double-disc arrangement allows the brake to act on both wheel motors simultaneously.

* Source: WiseGuyReports.com
** Source: NMC Material Handling

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