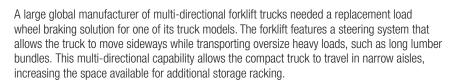


Application Profile





Forklift Trucks



The OEM had been using a mechanical load wheel brake but wanted a more technically-advanced, torque-controllable electric solution. Based on the OEMs torque requirements, space restrictions, chassis mounting configuration and available current draw, Matrix engineers recommended a 4PMB Series electrically-released, variable torque load wheel brake.

Positioned inside the front load wheels, compact 4PMB units provide parking and "variable torque" service braking. The permanent magnet brakes are fully-engaged in the power-off mode. However, the forklift operator can easily adjust the dynamic brake torque as needed by increasing the amount of current delivered to the brakes. This variable braking torque control provides extra holding and stopping power when carrying heavy loads.

The Model 4PMB070 brakes supplied have a 190 Nm (140 lb.ft.) static torque rating and 150 Nm (110 lb.ft.) dynamic torque rating. The brakes feature a high torque-to-size ratio and zero drag torque.

A production order was received after successful testing was performed by Matrix engineers as well as the OEMs engineering team. The customer is very pleased with the brakes's in-field performance.



Product

Application

Highlights

- Operator-controlled variable torque permanent magnet brakes
- Compact design fits inside load wheel
- 190 Nm (140 lb.ft.) static torque rating
- 150 Nm (110 lb.ft.) dynamic torque rating
- High torque-to-size ratio
- Zero drag torque

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