

Warehouse Shuttle Drive Systems

Direct Drive and Integrated Gearbox Solutions



Nidec Motor Corporation's warehouse shuttle drive systems provide the flexibility to handle a wide variety of demanding speed and weight capacity requirements. The versatility offered by the numerous motor, gearbox, and electronic drive combinations allows for custom tailored solutions that build upon Nidec's reputation for performance, quality and reliability.

- Direct drive and geared models available
- Option to add integrated encoders
- Electronic brakes available for select motors
- Customizable to meet payload requirements
- Designed to fit within customer envelope
- Fabricated to match required mounting



BLDC Direct drive locomotion system with integrated encoder

BLDC Locomotion system with internal gearbox

BLDC Motors

- Up to 85% motor efficiency - longer battery life
- High torque density
- Option of integrated Hall sensors or encoders
- High accuracy and precision
- Custom windings are matched to meet drive specs



Nidec BLDC Motors with integrated gearboxes, encoders, and drives

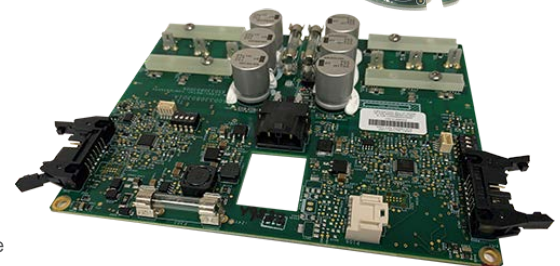
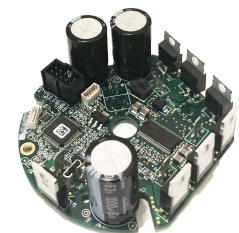
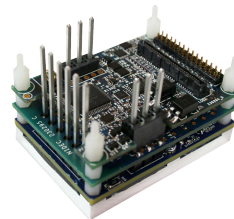
Gearboxes

- Proven designs utilized in multiple industries
- Ultra Low backlash
- Precision movement
- Wide selection of gear ratios to fit most applications
- Wide variety of frame sizes



ULV Drives

- CANopen support for easy system integration
- Peak current ratings range from 20A to 150A
- Trapezoidal and sinusoidal options available
- Reverse polarity protection
- Internal thermal protection
- Open/Closed loop speed, current, and position operating modes
- Dual-motor drive available with 50A peak output per motor



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