

Servo Motors

Brushless Permanent Magnet Motor

Nidec is the market leader in Servo Motor / Brushless Permanent Magnet motor technology. Producing over 1 Million BPM motors per day. With a wide range of sizes from 25mm to 250mm and torques from under 1 Nm to 200 Nm. Available with standard options and many custom options to suit your application requirements.

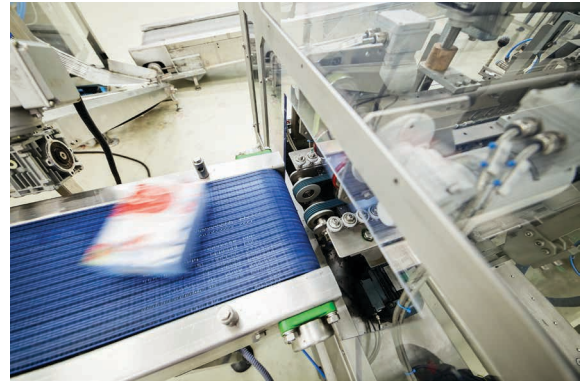
Torque Range (Continuous): .05 Nm to 200 Nm

Speed Range: Up to 10,000 RPM

Rated Voltages: 12Vdc – 90Vdc, 110Vac – 600Vac

Encoder Options: 100 – 4096 line available

Warranty: One year limited warranty



Product Features

- High torque to inertia ratio
- Compact but powerful
- Accuracy and resolution to suit your application
- High energy dissipation parking brakes
- Supported by rigorous testing for performance and reliability
- Long life ball bearing system
- Highly configurable platform design
- Small package size with low rotor inertia

Product Overview and Options

The BPM is designed to provide:

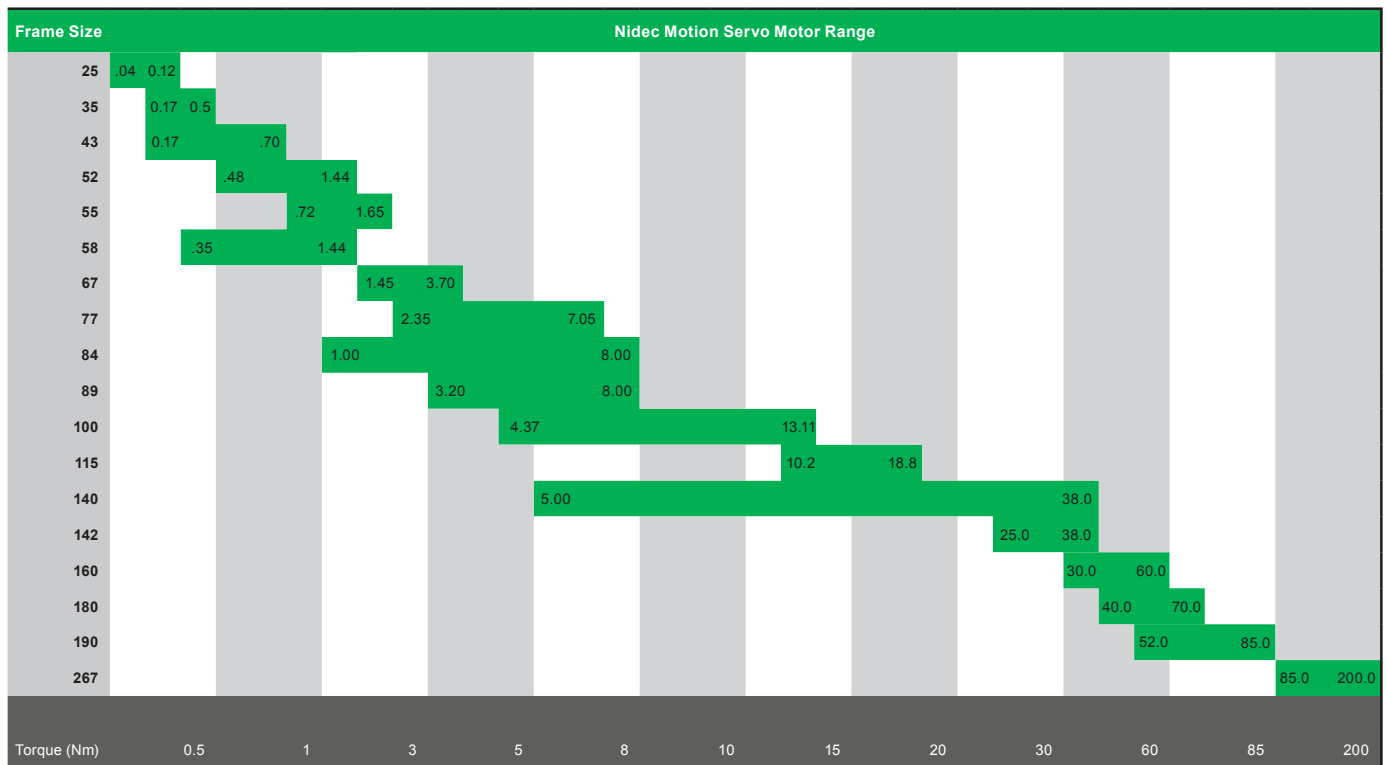
- Maximum application flexibility
- Increased reliability
- Compact integrated encoder option
- 4 quadrant closed loop or 2 quadrant open loop
- Operates in speed or torque mode
- Matched motor and drive performance
- Round bodied, square flange and square bodied
- Affordable servo control

Typical Applications:

- High speed copiers and printers
- AGV applications
- Robotics
- Packaging Equipment
- Web tensioning
- Medical analyzers
- Indexing and positioning
- Mail processing and sorter
- General purpose equipment



Product Range



Options

Nidec offers a wide range of standard options as well as custom solutions to meet your specific application requirements. Some of these options include:

- Integrated Encoder
- Hall Sensors
- Integrated AC or DC Brakes
- Custom Output Shafts
- Custom Output Pinions
- AGV Wheels
- Custom Wiring Harness
- Custom Flanges and Endshields
- Integrated gearbox – inline, parallel and right angle

Planetary Gearing Available

- Wide Selection of Gear Ratios and Features
- Over 40 Sizes
- Inline and Right Angle
- High Torque and Low Backlash
- Torque range up to 5,300 Nm
- Ratios 3:1 to 100:1



Examples of Gearhead Options:



Examples of AGV Options:



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