Nidec Motor Corporation’s 3.3 motor platform provides a high level of customization, while also utilizing standardized components to facilitate highly competitive pricing. Used in applications ranging from agriculture to robotics, the Nidec 3.3 motor platform satisfies a wide range of performance requirements. Designed for modular integration with Nidec controls and gearboxes, the 3.3 motor platform is a versatile product that can handle even the most challenging applications.

**Product Overview and Options**

**The HRW 3.3 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
- Coordinated motor and drive performance
- Affordable servo control
- Custom mounting options
- Manual thermal protection or thermostat options

**Typical Applications:**

- AGV applications
- Robotics
- Door and gate openers
- Packaging equipment
- Medical
- Indexing and positioning
- Mail processing and sorting
- General purpose equipment
- Agriculture
- Pumps
- Material handling

**Product Features**

- Integrated motor controls matched to motor winding
- Ultra smooth precision motion quality
- Neodymium magnets
- Stainless steel shaft
- Over 20,000 hours of design life @ rated torque
- Long life ball bearing system
- Small package size with low rotor inertia

**Horsepower Rating:** Up to 1.5 HP

**Peak Torque:** Up to 4.94 Nm

**Speed Range:** Up to 18,000 RPM

**Mounting:** NEMA 34, NEMA 100 or customized

**Rated Voltages:** 12Vdc – 48Vdc, 115/230Vac

**Encoder Options:** 100 – 1000 line available

**Power:** Up to 1200 Watts (higher ratings available)

**Warranty:** One year limited warranty*

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**HRW 3.3 Brushless DC (BLDC) Motors**

www.NidecMotion.com
**Dimensions**

Ask your Nidec Motor Corporation sales representative for integrated control, encoder and gearbox options.

**HRW 3.3 with feedback dimensions**

**A Complete Motor Solution:**
- Custom windings available
- Controls paired to match windings and optimize performance
- Gearboxes designed for required output

**AGV Wheel Options:**
- Choice of gear ratios
- Various tire and wheel options
- Custom hardware available

**Planetary Gearing:**
- Wide selection of gear ratios and features
- Inline and metric
- High torque and low backlash