NT HST Series
Brushless DC (BLDC) Motors

Nidec Motor Corporation’s NT HST Series offers a durable and reliable platform for a wide range of applications. With over 1.5 million hours of combined life and reliability testing, the NT HST Series has a reputation of being a robust and customizable motor solution. The NT HST is well suited for most servo applications that demand low rotor inertia; a fast, dynamic response; and high torque in a small package.

Rated Torque: 400 oz-in
Speed Range: Up to 6000 rpm
Power: Up to 750 Watts
Mounting: NEMA 23
Rated Voltages: 12Vdc – 48Vdc
Encoder Options: 100 – 2048 line encoders
Warranty: One year limited warranty

Product Features
• High efficiency design
• Precise and accurate movement
• NEMA 23 mounting
• Integrated optical encoder (100-2048ppr)
• Option of integrated or external control
• High torque and low backlash gearboxes
• Inline, right angle, and metric gearboxes available
• Stainless steel shaft
• Magnetic encoder feedback
• Long life ball bearing system
• Over 20,000 hours of design life at rated torque
• UL approved Class B insulation system
• Over 1.5 million hours of combined life and reliability testing
• Custom shaft extensions and front mountings available

Product Overview and Options

The NT Series is designed to provide:
• Standardized modules that reduce costs
• Proven designs that are in use with major OEMs
• Standardized connectors
• Custom windings available
• Operation in speed or torque mode
• Option of encoder, resolver, or hall effect sensors

Typical Applications:
• Robotics
• High speed presses
• Automation
• Packaging
• X-Y tables
• Pumps
• Conveyors
• Mobility equipment
## Dimensions

<table>
<thead>
<tr>
<th>Dimension (A)</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 inches</td>
<td>Up to 250 Watts</td>
</tr>
<tr>
<td>6 inches</td>
<td>Up to 500 Watts</td>
</tr>
<tr>
<td>7 inches</td>
<td>Up to 750 Watts</td>
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</tbody>
</table>

† All marks shown within this document are properties of their respective owners.