Our typical engineered options include:

- Extended Ambient Temperature Ratings
- High Power Applications
- Permanent Magnet Design
- High Pressure Applications
- Custom Winding Configurations
- Corrosion Resistant Materials

MTI-Torque Systems supplies Downhole Motor designs for the purpose of providing the Oil & Gas industry a variety of high performance, reliable motors. We offer a downhole motor line with torque and speed designs to meet the rigorous requirements of various downhole applications.
More solutions from us equals more success for you.
At MTI-Torque Systems, we have always believed in giving you more choices. We design and manufacture our motors to meet your specific needs and applications because MTI-Torque Systems recognizes that one motor design cannot fit all the different downhole conditions you are likely to encounter. After all, your application is unique, so the high powered Down Hole Motor you choose for it should be unique, too.

**Features:**
- Motor Rated Output: 480 W
- Motor Stall Torque: 961 mNm
- Speed: 18000 RPM’s
- Voltage: 48V
- Phases: 3 Phase
- Operation: Air or Oil Cooled
- Pressure: 30 ksi
- Temperature: 205 C
- Magnets: Samarium Cobalt
- Feedback: Resolver, Halls or Sensorless

**Benefits:**
- Rugged Compact Design
- Low Maintenance
- Permanent Magnet
- Multiple Windings
- Custom Shafts
- Vibration: 25 Grms
- Shock: 1000G
### Platform Frame Length

<table>
<thead>
<tr>
<th>Platform</th>
<th>Frame Length (L -in.)</th>
<th>Frame square (BD-in.)</th>
<th>Shaft extension (S -in.)</th>
<th>Shaft diameter (U -in.)</th>
<th>Pilot (P) (mm - P-in.)</th>
<th>Bolt Circle (B.C.) (mm - B.C. -in.)</th>
<th>Rear Shaft Diameter Optional (RU-in.)</th>
<th>Rear Shaft extension Optional (RS-in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLDH 1</td>
<td>48.6</td>
<td>22.86</td>
<td>10.39</td>
<td>3.12</td>
<td>10.39</td>
<td>17.66</td>
<td>3.12</td>
<td>6.23</td>
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<tr>
<td>BLDH 3</td>
<td>142.5</td>
<td>32.126</td>
<td>18.70</td>
<td>8.31</td>
<td>22.86</td>
<td>26.102</td>
<td>6.23</td>
<td>8.31</td>
</tr>
<tr>
<td>BLDH 4</td>
<td>170.6</td>
<td>32.126</td>
<td>18.70</td>
<td>8.31</td>
<td>22.86</td>
<td>26.102</td>
<td>6.23</td>
<td>8.31</td>
</tr>
</tbody>
</table>

### Notes:
- Addition: including brakes, resolvers, gearboxes and seals will increase overall length.
- Housing and mounting flanges may increase dimensions.
- Motor dimensions are subject to change.
- Consult Factory for additional frame sizes.

### Gearbox Only

<table>
<thead>
<tr>
<th>Platform</th>
<th>Frame Length (L -in.)</th>
<th>Frame square (BD-in.)</th>
<th>Shaft extension (S -in.)</th>
<th>Shaft diameter (U -in.)</th>
<th>Pilot (P) (mm - P-in.)</th>
<th>Bolt Circle (B.C.) (mm - B.C. -in.)</th>
<th>Pinion Length (mm - in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBDH 1</td>
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<td>22.86</td>
<td>15.59</td>
<td>4.15</td>
<td>12.47</td>
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<tr>
<td>GBDH 2</td>
<td>59.2</td>
<td>32.126</td>
<td>20.78</td>
<td>9.35</td>
<td>20.78</td>
<td>26.102</td>
<td>14.55</td>
</tr>
</tbody>
</table>

Max L.D. is based on gear ratio. Consult Factory.
MTI’s Brushless Down-Hole Series of DC Motors (the BLDH Series) is designed for high performance oil & gas industry applications. These include rigorous service in “down-hole” environments where surrounding pressures are up to 30,000 PSI and ambient temperatures are 205 Degrees C. Design features include high torque to inertia ratios, high operating efficiencies, high power densities, and high operating speeds. In addition, these motors include custom features as required by respective oil & gas industry equipment manufacturers. They can be adapted to a broad array of stringent applications.

MTI-Torque Systems is a provider of engineered motion control and automation products, including AC and DC Servo Motors. We also offer a line of direct drive sets. Our products have found uses in a variety of industries and are recognized industry-wide for their quality, reliability and overall value. In addition to our vast product line, we offer integrated systems engineering capabilities for our customers.