DST2 135–560 — The powerful high-torque motors

Higher torque, higher speed, more power

With a torque of up to 80,000 Nm, the DST range from Baumüller meets the highest demands in direct-drive technology. The high-torque servo motor is therefore ideally suited for applications such as:

- Plastics machines
- Rotary tables or swivel axis
- Printing machines
- Press technology
- Marine applications
- Wire-drawing machines
- Stretching units
- Machine tools
- Woodworking machines
- Special machines
- Ship propulsion

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- Very good smooth running characteristics
- Energy-efficiency is maintained through wide speed/load range
- Suitable for sophisticated direct drive technology
- High torque at low velocities
- Low-noise
- Water cooling
- Compact and robust design
- Smooth housing surface – easy to keep clean
- Permanent field high-torque motors
- IP54 type of protection
- Encoder: Resolver, SinCos encoder (option)
  Other encoders on request

DST high-torque motors are available in water-cooled versions.

### Technical data

<table>
<thead>
<tr>
<th>Typ</th>
<th>DST2–135</th>
<th>DST2–200</th>
<th>DST2–260</th>
<th>DST2–315</th>
<th>DST2–400</th>
<th>DST2–560 *</th>
</tr>
</thead>
<tbody>
<tr>
<td>$P_r$ [kW]</td>
<td>2.7–60</td>
<td>5.5–126</td>
<td>20–225</td>
<td>16–280</td>
<td>92–530</td>
<td>up to 1200</td>
</tr>
<tr>
<td>$n_n$ [min⁻¹]</td>
<td>175–1500</td>
<td>150–1000</td>
<td>150–600</td>
<td>100–500</td>
<td>100–300</td>
<td>up to 300</td>
</tr>
<tr>
<td>$n_{\text{Max}}^{**}$ [min⁻¹]</td>
<td>2000</td>
<td>1350</td>
<td>1050</td>
<td>800</td>
<td>500</td>
<td>up to 500</td>
</tr>
<tr>
<td>$M_0$ [Nm]</td>
<td>140–580</td>
<td>310–2030</td>
<td>1160–4760</td>
<td>1200–8600</td>
<td>9500–20200</td>
<td>up to 45000</td>
</tr>
<tr>
<td>$M_{0,\text{Max}}$ [Nm]</td>
<td>325–1110</td>
<td>790–4450</td>
<td>2410–9800</td>
<td>3330–18400</td>
<td>14800–31600</td>
<td>up to 80000</td>
</tr>
</tbody>
</table>

Subject to alterations. The stated data are maximum values.
For details please have a look in the technical documentations.
* in preparation, preliminary data
** For solid shaft motors and motors with blind shaft

11/2016