### Planetary Gearheads

**16 Nm**

For combination with DC-Micromotors
Brushless DC-Motors

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### Series 44/1

<table>
<thead>
<tr>
<th>Housing material</th>
<th>metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear train material</td>
<td>metal</td>
</tr>
</tbody>
</table>

**Recommended max. input speed for:**
- continuous operation: 3 500 min⁻¹

**Backlash, at no-load:** ≤ 1 °

**Bearings on output shaft:** ball bearings, preloaded

**Shaft load, max.:**
- radial (12 mm from mounting face): ≤ 400 N
- axial: ≤ 350 N

**Shaft press fit force, max.:**
- radial (12 mm from mounting face): ≤ 500 N
- axial: = 0 mm

**Operating temperature range:** -30 ... +125 °C

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### Technical data

<table>
<thead>
<tr>
<th>Number of gear stages</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous torque Nm</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Intermitent torque Nm</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Mass without motor, ca.</td>
<td>480</td>
<td>600</td>
<td>720</td>
<td>840</td>
<td>960</td>
</tr>
<tr>
<td>Efficiency, max. %</td>
<td>90</td>
<td>80</td>
<td>70</td>
<td>65</td>
<td>60</td>
</tr>
<tr>
<td>Direction of rotation, drive to output</td>
<td>=</td>
<td>=</td>
<td>=</td>
<td>=</td>
<td></td>
</tr>
</tbody>
</table>

**Reduction ratio (rounded)**

<table>
<thead>
<tr>
<th>Reduction ratio</th>
<th>4,8:1</th>
<th>23:1</th>
<th>111:1</th>
<th>531:1</th>
<th>2 548:1</th>
</tr>
</thead>
</table>

**L2 [mm] = length without motor**
- 44/1: 62,2
- 440H...B: 152,2
- 3890H...BS: 152,2

**L1 [mm] = length with motor**
- 44/1: 3863H...CR: 126,2
- 440H...B: 152,2

For more combinations see table.
Example of combination with 4490...B.

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1) The reduction ratios are rounded, the exact values are available on request or at www.faulhaber.com.

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For notes on technical data and lifetime performance refer to "Technical Information".

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