bMotion

Modular Mechatronic Drive Solutions

to help solve your medical challenges

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New Services

- Comprehensive lifecycle support
- Extensive application knowledge
- A wide variety of solutions from a single source

bMotion

A completely innovative modular drive platform. Maximum modularity, easy combinability and a large number of predefined variants for optimally tailored solutions to customer needs. With pre-validated combinations for specific market requirements.

Fixed lead times for sample, pre-series and series parts in conjunction with comprehensive support generate significant added value for customers across the entire product lifecycle.

Mechatronic drive solutions for
- Dental chairs
- Amalgam separators
- Medical tables
- Lab analyzers / centrifuges
- Dialysis devices
- Inhalers
- Infusion pumps
- Patient lifts
- Wheelchairs
- Dosing pumps for fluids and gases
- Anesthesia solutions
- Dental kilns
- MRI applications

www.buehlermotor.com
## Modular Mechatronic Drive Solutions

- **New Products**
  - New modular drive platform
  - Countless predefined variants
  - For the best fit solution

- **New Systems**
  - Modularization allows a wide range of combinations
  - Prequalified combinations reducing testing efforts
  - Easy customization on a standard platform

- **New Processes**
  - Easy configuration of standard and customized products
  - Short defined lead times
  - Full traceability of motor, material and production data

### Type Resolution Outputs

<table>
<thead>
<tr>
<th>Type</th>
<th>Resolution</th>
<th>Outputs</th>
<th>Diameter</th>
<th>Holding Torque</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical</td>
<td>2/4/6/10/100 cpr</td>
<td>6/8/12, DC (TTL)</td>
<td>42 mm</td>
<td>52 Ncm</td>
<td>Power off</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>52 mm</td>
<td>25 Ncm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>62 mm</td>
<td>50 Ncm</td>
<td></td>
</tr>
</tbody>
</table>

### Diameter Holding Torque Type

- **42 mm**
  - 12 Ncm
- **52 mm**
  - 25 Ncm
  - 50 Ncm
- **62 mm**
  - 50 Ncm

### Power off

- **42 mm**
  - 52 Ncm
- **62 mm**
  - 50 Ncm

### Diameter Length Rated Torque

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
<th>Rated Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>42 mm</td>
<td>78/83/103 mm</td>
<td>6/8/11 Ncm</td>
</tr>
<tr>
<td>52 mm</td>
<td>95/115/135 mm</td>
<td>6/18/20 Ncm</td>
</tr>
<tr>
<td>63 mm</td>
<td>95/125 mm</td>
<td>18/32 Ncm</td>
</tr>
</tbody>
</table>

### Diameter Torque (1/2/3 stages)

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Torque (1/2/3 stages)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42 mm</td>
<td>300/750/1500 Ncm</td>
</tr>
<tr>
<td>52 mm</td>
<td>400/1200/2500 Ncm</td>
</tr>
<tr>
<td>62 mm</td>
<td>800/2500/5000 Ncm</td>
</tr>
</tbody>
</table>

### Delivery Class

- **Pre-configured drives:**
  - 24 hours, no minimum quantity
- **Modular configurations:**
  - 2 weeks, up from 200 pieces
- **Custom configurations and add-ons:**
  - 6 weeks, up from 200 pieces
- **Completely customer specific variants:**
  - 12 weeks, up from 200 pieces

### Stages Ratio

<table>
<thead>
<tr>
<th>Stages</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3.7</td>
</tr>
<tr>
<td>2</td>
<td>14/19/25</td>
</tr>
<tr>
<td>3</td>
<td>51/71/100/130/169</td>
</tr>
</tbody>
</table>

### Worm Wheel Ratio Max. Torque

<table>
<thead>
<tr>
<th>Plastic</th>
<th>Ratio</th>
<th>Max. Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/15/1</td>
<td>4000 Ncm</td>
<td></td>
</tr>
<tr>
<td>Brass</td>
<td>5/10/5/7.5/10/12.5/15/20/25/30/37.5/50/63.5/75/90.5/100/125/150/180/210/250/300/375/450/500/630/750/1000 Ncm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Brass</th>
<th>Ratio</th>
<th>Max. Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/10/5/7.5/10/12.5/15/20/25/30/37.5/50/63.5/75/90.5/100/125/150/180/210/250/300/375/450/500/630/750/1000 Ncm</td>
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<td></td>
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</tbody>
</table>

### DC Motor

- **Encoder**
- **Brake**

### Website

www.buehlermotor.com

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- Your best fit solution