Swivel optics BEO D70

The right tool for your machine

01
TRUMPF optics matrix

02
High precision with 0° drive

03
Integration of external motors

04
Axial and radial processing

Ideal for OEM
TRUMPF optics matrix

The new OEM swivel module contains optical elements from the familiar TRUMPF optics matrix. The basic design makes it possible to set the positive and negative end position as well as the reference position. You can position fixed stops from the outside.

High precision with 0° drive

In addition to its 90° angular gear, it also has a 0° drive without gear play, but a repeatability of 0.016°.

Integration of external motors

The swivel module has a mechanical interface so that you can directly connect your motor to it. As such, it can be installed without the support of the Service Department. It also has interfaces for your gas and water connections.

Axial and radial processing

Through an external motor, the focusing optics can be swivelled by ±135°. In combination with a rotary axis, program-controlled tool center point processing can be carried out. Even processing on three sides is possible when the part is clamped at a single point. The hose guide, for example for water and shielding gas, is optimally aligned to the center of the swivel axis, this design enables the greatest possible freedom of movement.

Technical data

<table>
<thead>
<tr>
<th>Swivel module</th>
<th>Drive 0°</th>
<th>Drive 90°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear reduction ratio</td>
<td>5:1</td>
<td>15:1</td>
</tr>
<tr>
<td>Maximum revolution speed</td>
<td>rpm</td>
<td>approx. 120</td>
</tr>
<tr>
<td>Working range</td>
<td>Degrees &lt;135 (Max. position of software limit switch)</td>
<td></td>
</tr>
<tr>
<td>Angular acceleration</td>
<td>1/s²</td>
<td>approx. 20</td>
</tr>
<tr>
<td>Positioning accuracy A</td>
<td>Degrees</td>
<td>0.10</td>
</tr>
<tr>
<td>Mechanical repeatability</td>
<td>Degrees</td>
<td>0.016</td>
</tr>
</tbody>
</table>

Subject to alteration. Only specifications in our offer and order confirmation are binding.

Use the swivel module along with TRUMPF VisionLine series and enjoy the benefits of image processing!