UPG SERIES
MECHANICAL GRIPPERS
FOR HIGH GRIPPING FORCES
Grippers for universal application

One series, seven sizes, countless possibilities – finding the right gripper solution is easy with the new UPG series. The universal parallel grippers (UPG) cover performance needs for virtually any standard application in automation technology.

The UPG universal genius: 2-finger parallel grippers
Multi-talented, well-trained, and hard-working: The UPG series offers all the features of mechanical grippers for top results, with high gripping forces, maximum precision, and reliability. Choose from a wide range of gripping forces up to over 2,000 Newtons as well as versions with or without gripping force retention and equip your gripper with object-specific gripper fingers based on the application requirements. Thanks to its durable design with especially robust T-slot slide bearing guide, the UPG series is also ideal for larger finger lengths. In addition, the flexible mounting options and the interface to the Easy-2-Combine modular system make assembling the grippers and exchanging the gripper fingers simple and reproducible.

<table>
<thead>
<tr>
<th>Type/size</th>
<th>Stroke per jaw</th>
<th>Recommended workpiece mass</th>
<th>Effective gripping force</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPG-40</td>
<td>2.5 mm</td>
<td>0.62 kg</td>
<td>123 - 163 N</td>
</tr>
<tr>
<td>UPG-50</td>
<td>4 mm</td>
<td>0.7 kg</td>
<td>140 - 185 N</td>
</tr>
<tr>
<td>UPG-64</td>
<td>6 mm</td>
<td>1.25 kg</td>
<td>250 - 340 N</td>
</tr>
<tr>
<td>UPG-80</td>
<td>8 mm</td>
<td>2.1 kg</td>
<td>415 - 570 N</td>
</tr>
<tr>
<td>UPG-100</td>
<td>10 mm</td>
<td>3.3 kg</td>
<td>660 - 900 N</td>
</tr>
<tr>
<td>UPG-125</td>
<td>13 mm</td>
<td>5.4 kg</td>
<td>1080 - 1470 N</td>
</tr>
<tr>
<td>UPG-160</td>
<td>16 mm</td>
<td>8.2 kg</td>
<td>1640 - 2210 N</td>
</tr>
</tbody>
</table>

Oval piston, proven kinematics with wedge hook principle
1 | Robust T-slot slide bearing guide for high precision
2 | Base jaws for custom attachment of workpiece-specific gripper fingers
3 | Weight-optimized housing made of hard-anodized aluminum alloy
4 | Centering and mounting options for universal gripper assembly
5 | Oval piston and kinematics with wedge hook principle for high force transfer and centrical gripping

Durable, precise slide bearing guide
High, synchronized force transfer
High torque absorption capabilities
Also for applications with long gripper fingers
Universal, simple gripper assembly
Flexible pressure supply options
Special proximity sensors with easy drop-in assembly

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