

ENERGY EFFICIENCY



E-EQUIPMENT by RÖHM



Electrical gripper REPG

Gripping force 10 N - 400 N



Electrical gripper

Energy efficient and flexible

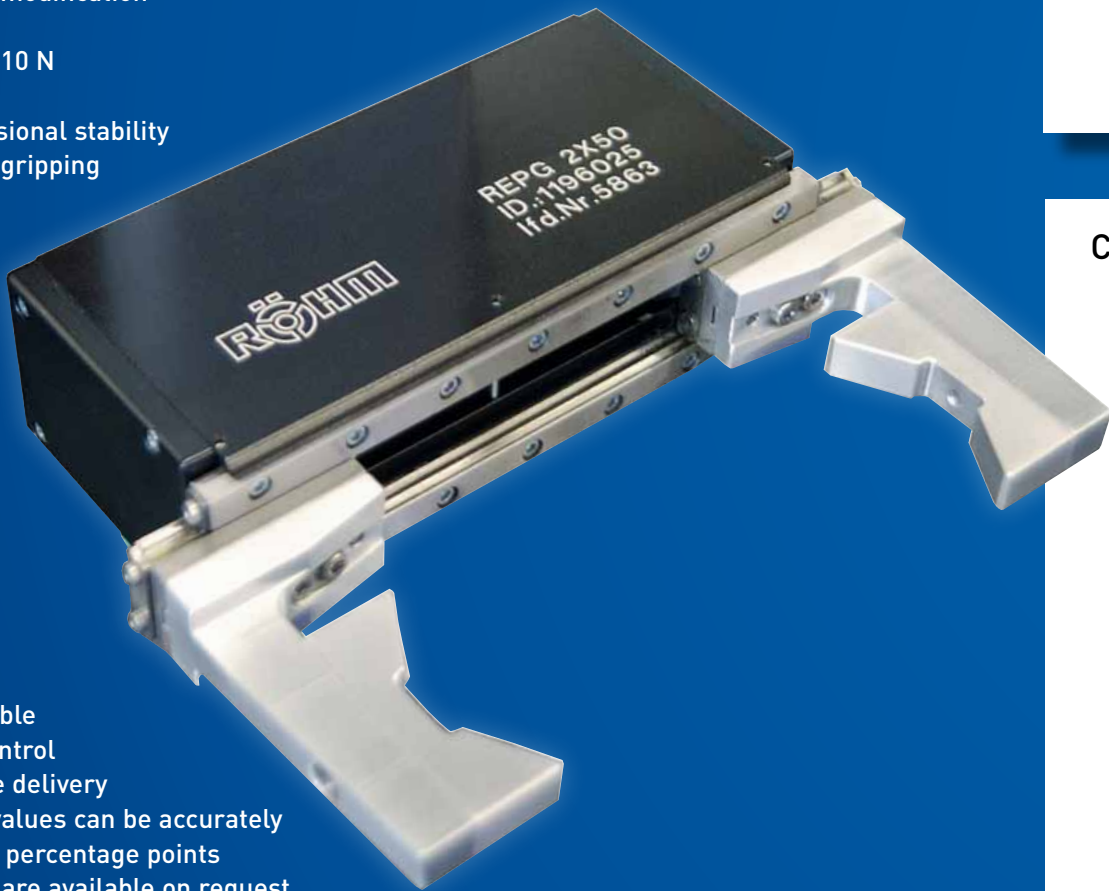
Energy efficiency and the greatest flexibility are the outstanding features of the newly developed electrical gripper by RÖHM.

Usable as:

- ... economic servo axle with integrated propulsion and stable roll guidance...
- compact axle system for centric movements
- system for the execution of processes such as burnishing or bending

... or flexible robot grip,

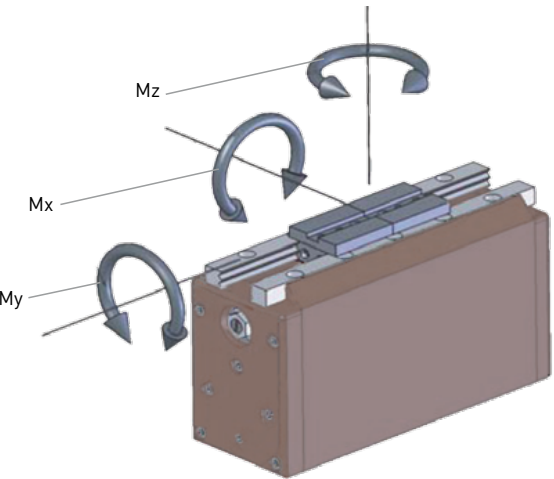
- able to grip parts of various sizes without modification
- with short gripping times from 70 ms
- able to grip sensitive parts with a force of 10 N
- able to grip heavy parts up to 400 N
- able to check parts regarding their dimensional stability with a repeat accuracy of 0.03 mm during gripping
- operational following a simpler and faster start-up



Further features:

- external control in control box made from aluminium – mounting individually adaptable
- all necessary cable connections for the control as well as the software are included in the delivery
- user-friendly software, force- and speed values can be accurately and sensitively controlled by changing the percentage points
- special operator protection and dirt cover are available on request

Technical Data



| REPG Modell | 2 x 30 | 2 x 50 |
|--------------------------------|------------------|------------------|
| Id.-No. (Gripper with control) | 1196024 | 1196025 |
| Max. lift per finger | 2 x 30 mm | 2 x 50 mm |
| Roll-lift/finger per cycle | 30 mm | 30 mm |
| Dimensions L x W x H | 137 x 50 x 90 mm | 177 x 50 x 90 |
| Permissible torque Mx | 47 Nm | 37 Nm |
| Permissible torque My | 85 Nm | 67 Nm |
| Permissible torque Mz | 47 Nm | 37 Nm |
| Weight | 1,5 kg | 1,8 kg |
| Max. grip force | 400 N | 400 N |
| Min. grip force | 10 N | 10 N |
| Opening time (2mm/jaw) | 0,07 - 0,1 sec. | 0,07 - 0,1 sec. |
| Closing time (2mm/jaw) | 0,07 - 0,1 sec. | 0,07 - 0,1 sec. |
| Re-fitting time 10mm stroke | 0,14 - 0,18 sec. | 0,14 - 0,18 sec. |
| Max. speed | 100 mm/sec. | 100 mm/sec. |
| Mounting position | any | any |
| Repeat accuracy | < 0,03 mm | < 0,03 mm |
| Protection class | IP 20 | IP 20 |
| Perm. temperature range | -10°C to +40°C | -10°C to +40°C |

Control and accessories

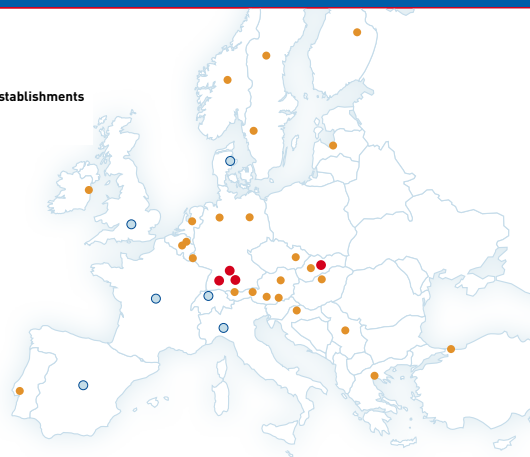


| Control | REPG 2 x 30 - REPG 2 x 50 |
|-------------------------------------|--|
| Power supply | 24 V ±20 % |
| Nominal capacity idle | 4 W |
| Power consumption short term 2 sec. | 10 A |
| Dimensions L x W x H | 120 x 94 x 35 mm |
| Weight | 0,8 kg |
| Protection class | IP 54 |
| Perm. temperature range | 0°C to +40°C |
| Cable length control - gripper | Standard 1 m, special cable upon request |
| Programming cable RS232 with plug | Standard 5 m, special cable upon request |
| Power supply cable 4-phase | Standard 5 m, special cable upon request |
| In-/Out cable 12-phase | Standard 5 m, special cable upon request |
| Interface adaptor USB - RS232 | (Option), on request |
| Interface 24V | 6 input, 1 output |
| Interface serial | RS232 |
| Interface Bus (Option) | Canbus, Profibus DP over Gateway |
| Programming | Windows programming software |



EUROPE

- Manufacturing bases
- Distribution- and service establishments
- Agents



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