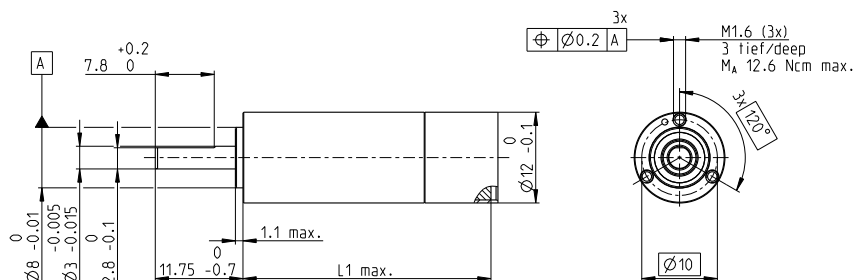


# GPX 12 Ø12 mm, planetary gearhead

GPX

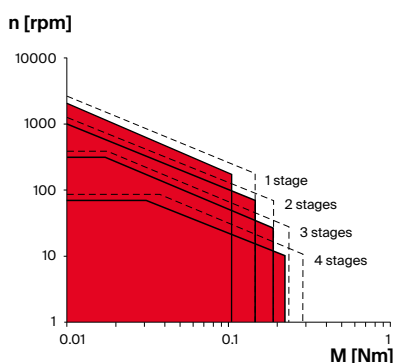
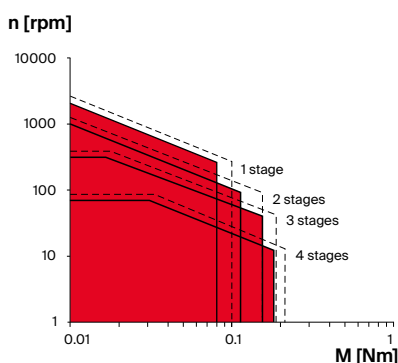


## M 1:1

| Key data                    | A Standard version | C Ceramic version |
|-----------------------------|--------------------|-------------------|
| Max. transmittable power    | W 2                | 2.4               |
| Max. continuous torque      | Nm 0.17            | 0.23              |
| Max. continuous input speed | rpm 16 000         | 16 000            |
| Ambient temperature         | °C -40...+100      | -40...+100        |
| Bearing at output           | Ball bearing       | Ball bearing      |

| Operating range (output shaft) | A Standard version | C Ceramic version |
|--------------------------------|--------------------|-------------------|
|--------------------------------|--------------------|-------------------|

Continuous operation  
Intermittent operation



| Specifications                        | A Standard version              | C Ceramic version           |
|---------------------------------------|---------------------------------|-----------------------------|
| Number of stages                      | 1 2 3 4                         | 1 2 3 4                     |
| Max. transmittable continuous power   | W 2.0 1.0 0.50 0.25             | 2.4 1.2 0.60 0.30           |
| Max. transmittable intermittent power | W 2.5 1.25 0.65 0.30            | 3.0 1.50 0.80 0.40          |
| Max. continuous torque                | Nm 0.08 0.11 0.14 0.17          | 0.11 0.15 0.19 0.23         |
| Max. intermittent torque              | Nm 0.10 0.14 0.18 0.21          | 0.15 0.19 0.24 0.29         |
| Max. continuous input speed           | rpm 16 000 16 000 16 000 16 000 | 16 000 16 000 16 000 16 000 |
| Max. intermittent input speed         | rpm 20 000 20 000 20 000 20 000 | 20 000 20 000 20 000 20 000 |
| Max. efficiency                       | % 90 80 75 65                   | 90 80 75 65                 |
| Average backlash no load              | ° 1.2 1.5 1.8 2.1               | 1.2 1.5 1.8 2.1             |
| Max. axial load (dynamic)             | N 20 20 20 20                   | 20 20 20 20                 |
| Max. radial load, 5 mm from flange    | N 30 35 50 50                   | 30 35 50 50                 |
| Gearhead length L <sup>1</sup>        | mm 15.5 20.4 25.2 30.1          | 15.5 20.4 25.2 30.1         |
| Weight                                | g 11 14 17 19                   | 11 14 17 19                 |

| Configuration                    | A Standard version                                                 |          |                       |                                                 | C Ceramic version                                                                   |          |                       |                                                 |                                                                                     |
|----------------------------------|--------------------------------------------------------------------|----------|-----------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|----------|-----------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|
| Number of stages                 | 1234                                                               |          |                       |                                                 | 1234                                                                                |          |                       |                                                 |                                                                                     |
| Reduction                        | X:1                                                                | 3.9, 5.3 | 16, 21, 26,<br>28, 35 | 62, 83, 103, 111,<br>138, 150, 172,<br>186, 231 | 243, 326, 406,<br>439, 546, 590,<br>679, 734, 794,<br>913, 987, 1135,<br>1227, 1526 | 3.9, 5.3 | 16, 21, 26,<br>28, 35 | 62, 83, 103, 111,<br>138, 150, 172,<br>186, 231 | 243, 326, 406,<br>439, 546, 590,<br>679, 734, 794,<br>913, 987, 1135,<br>1227, 1526 |
| Absolute reduction: (see online) |                                                                    |          |                       |                                                 |                                                                                     |          |                       |                                                 |                                                                                     |
| Version                          | Standard/ceramic version/noise reduced/reduced backlash/high power |          |                       |                                                 |                                                                                     |          |                       |                                                 |                                                                                     |
| Flange                           | Standard flange/configurable flange                                |          |                       |                                                 |                                                                                     |          |                       |                                                 |                                                                                     |
| Shaft                            | Length/flat face                                                   |          |                       |                                                 |                                                                                     |          |                       |                                                 |                                                                                     |

| Modular system | Page                        | Modular system | Page                        |
|----------------|-----------------------------|----------------|-----------------------------|
| DC motor       |                             | EC motor       |                             |
| DCX 12 S       | Nº of stages [opt.] 1-4 101 | ECX SPEED 10 M | Nº of stages [opt.] 1-5 199 |
| DCX 12 L       | 1-4 102                     | ECX SPEED 10 L | 1-4 200                     |

<sup>1</sup>This length may vary depending on the configuration and choice of motor. The effective length is calculated at the end of the configuration process.