

maxon 32 mm planetary gearhead for high radial loads. New design ensures smooth and true running.

maxon motor, the worldwide leader in high precision drives, has added two new gearheads to the already successful GP 32 program. Significant improvements have been made to the single-stage planetary gearhead: The planetary carrier has been reinforced, the bearings have been repositioned, and a ceramic version is now available.

With these new gearhead versions for high radial loads, maxon is now offering single-stage gearheads with extremely heavy-duty radial bearings. These versions are designed for applications such as toothed belt drives, applications that place enormous stress on the output stage due to the radial forces at work. The design of the GP 32 AR and GP 32 CR gearheads takes these forces into account. Both bearings of the output stage have been positioned as far apart as possible. As a result, radial forces of up to 140 N can be optimally compensated. The planetary carrier has been reinforced and given separate bearings. The axles of the planet gears are securely fixed in both halves of the planetary carrier. To achieve the maximum torque and life span, customers can select these axles in ceramic. The short-term permissible torque reaches up to 1.25 Nm. The gearheads are available with output shafts in 6 mm and 8 mm diameters. These gearheads also feature smooth running and minimal fluctuation in friction characteristics.

The planetary gearheads can be combined with various brushed, brushless, or flat motors in the maxon modular system.

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Figure 1: Single-stage planetary gearhead GP 32 AR or GP 32 CR for high radial loads

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