New planetary gearhead designed for DC motor systems requiring high radial loads.

New devices and machinery containing DC gearmotors and servomotors are similar to new electronic technologies in that size is becoming more and more critical. This is why maxon motor has developed the new 32mm AR and CR planetary gearboxes with improved radial load capabilities.

Particularly suitable for robotic, factory automation and linear actuation devices where a belt drive, roller drive or spur or miter gears are used for the final power transmission. These applications typically transmit more radial load on the bearings of a correctly rated gearhead (for speed and torque) than the bearings radial load rating. In the past this has always been compensated for with an addition bearing block on the far side of the pulley for example; adding to the size and cost of the machine. This methodology of increasing the size and the distance between the two load carrying bearings has now been adopted within the gearbox itself. At only 32mm in diameter with a radial load rating of 140N, the new design gearbox when used with powerful DC motors offers a significant increase on existing gearheads that contain two pre-loaded bearings in the output flange. Technical improvements include: An additional planet carrier supporting the planet axles, the input side of the single stage carrier wheel is supported by a larger bearing mounted as far from the final bearing as possible, the planet axle whether ceramic or metal now has a reinforced fixation method and the output shaft can be custom configured to suit the application requirements. These improvements have not only given a stronger design but have also resulted in improved fiction consistency and smoother running. It is expected that the gearheads will be available in production quantities as early as June this year.

Contact maxon motor Australia for further information or application assistance.

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Planetary gearhead for use with high power servomotors. GP 32 AR or GP 32 CR
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