

## DC gear motor of the week.

### 24V quality DC motor fitted with right angle dual shaft gearhead.

New for this week is another interesting combination of motor and gearbox technologies blending expertise from a quality DC motor manufacturer with a single piece stainless steel housing gearbox. The DC motor manufactured by KAG represents true industrial motor robustness, with proportionally large motor shaft and ball bearings matching DIN standard 42016 mounting layout. It is these mounting standards that make the motor a perfect match for easy assembly with the Apex dynamics high precision Spiral Bevel Gearboxes. As always unique and constantly more challenging application requirements dictate motor and gearhead specifications and this case was no exception. While most gearboxes supplied by motor manufacturers will be specified with motor power transmission in mind, the gearbox is selected to cope with the maximum motor speed and torque capabilities. What is often not foreseen however is unique gearmotor application specifics such as IP ratings, axial and radial loadings, corrosive environments etc. In this instance the motor and gearhead were intended for use in a trolley application, in a biohazard environment. The gearbox needed a dual output shaft for use as the cart axle with a wheel fitted to each side and the entire cart load needs to be absorbed radially by the gearhead bearings. Standard worm gearheads do not have either the efficiency nor the radial load capabilities required by these circumstances even though they are capable of transmitting the motor speed and torque. The individually marketed Apex dynamics gearheads are designed to meet as many diverse application requirements as possible – not just those applications fitted to DC motors. The selected gearbox as mentioned featured a high mechanical rigidity with a single piece construction, precision ground gear sets to optimise efficiency, low backlash and were sealed and lubricated for life.

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The media release is available on the internet at: [www.maxonmotor.com.au](http://www.maxonmotor.com.au)



*KAG M80 x 80/I DC motor fitted with  
Apex Dynamics AT-FL series gearbox  
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