

AP/APK Series

The New AP/APK Series

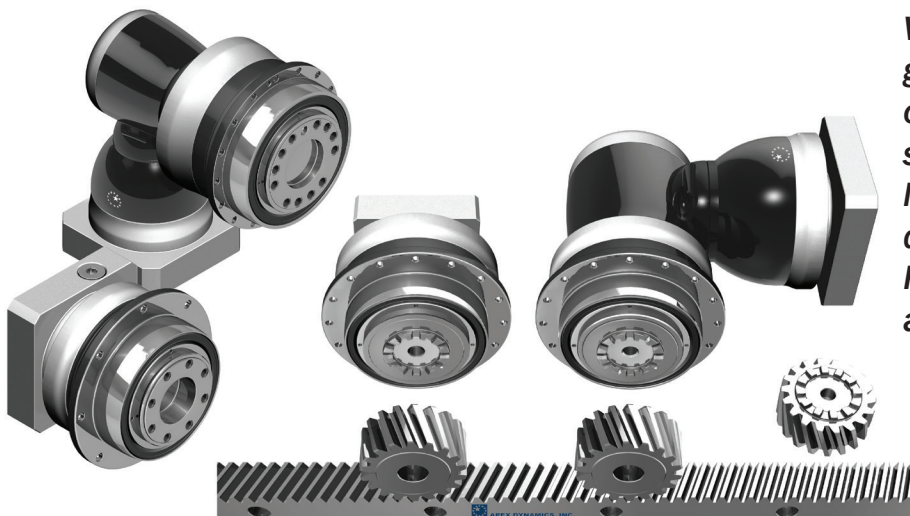
from Apex Dynamics is high precision ISO style rotary flange planetary servomotor gearbox. The output of the APC/APCK Series incorporates our patented curvic tooth coupling for a backlash free, high concentricity, high torque and rigidity connection with low runout. Apex Dynamics curvic pinions are designed to integrate to the APC/APCK series for a high precision, high force linear system.

Based on the AH Series design, the AP Series features carbon steel construction with the addition of a fourth planet gear that increases torque capacity up to 25%. Case hardened and ground gearing allow for a standard accuracy of less than one arc minute in a single, double and triple stages.

The AP/APC inline gearboxes are available in seven frame sizes ranging from 110 mm to 450 mm. Nine reduction ratios are available - 5.5 / 22 / 27.5 / 28.5 / 55 / 88 / 110 / 154 / 220:1 - with a top output torque of 13,875 Nm.

The rotary flange output is supported by high capacity bearings that yield output bending moment capacities up to 63,000 Nm and axial load capabilities up to 144,000 N. The AP Series also features high torsional rigidity, low noise signature and high efficiency - 97% in single stage 94% in double stage and 92% in triple stage.

With the addition of a hypoid right angle gear set, the APK/APCK Series provides a compact, high precision right angle solution. An incredible 1.2 arc-minute or lower backlash is standard for all ratio designs - single, double and triple stage. Ratio availability increases up to 5500:1 and torque capability to 14,000 Nm.



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