

Rexnord® Planetgear™ 7000 Speed Reducers



Rexnord introduces a new design concept for increased capacity. The new Planetgear 7000 integrates enhanced mechanical geometry with refined material processes, resulting in torsional increases of 15% to 50%.

New Planetgear 7000 sizes are backward interchangeable for maximum adaptability and reduced changeover expense.

Planetgear 7000 Speed Reducers incorporate all of the standard Planetgear features you have come to expect for your heavy-duty applications. The self-aligning gear train has six or more teeth in contact per reduction to equally share the load. Large tapered roller bearings on heavy-duty shafts provide high overhung load and thrust capacity.

Planetgear 7000 now offers a total of 14 sizes including the newly designed sizes: NeptunePlus, OrionPlus, SaturnPlus, TitanPlus, and JupiterPlus. There are two new sizes, Luna (same footprint as Atlas) and Delta (same footprint as Polaris), that provide additional torque intervals to suit your application needs.

Since 1981, the benefits of our self-aligning planetary gear train have been proven in application after application.

Planetgear performance has withstood many tough environments, including shock loads, frequent reversals and hostile atmospheres containing moisture and abrasives. Planetgear continues to enhance capacity and performance based on customer demands.

Features & Benefits

- Backwards Interchangeable - New design fits in the same footprint for easy changeover.
- Reliable Operation - Self-aligning planet carriers float radially and axially to provide perfect alignment of drive train when handling punishing heavy-duty applications.
- Durable and Rugged - State-of-the-art materials and processes provide hardened wear-resistant gearing. Self-aligning gear train ensures equal load distribution. Components are spline connected, isolating gear train from external forces. Handles heavy shock loads.
- Easy to Service - No special tools required for changing wear items. No shimming required to set the bearing clearances. Increased uptime.
- Fast, Easy Ratio Changes - Planetgear 7000 uses standard sub-assemblies which allow fast gear ratio changes in the field. No bearing adjustments are required – just change and go. Reduced inventory.
- Dual Seal Protection - Taconite duty-rated seal is standard. Two seals on each shaft provide a purgeable grease cavity to keep dirt and moisture out.

New Design Concept

Improvements in gear geometry and enlarged component dimensions – combined with higher capacity bearings – achieve increased torque capacities. This produces a more power-dense gear design with smaller size and weight for the same application.



Rating and Torque Data

Reducer Series	Mercury	Mars	Venus	Atlas	Luna	Earth	Polaris	Delta	Neptune	Neptune Plus	Orion Plus	Saturn Plus	Titan Plus	Jupiter Plus
	7200	7220	7240	7260	7280	7300	7320	7340	7360	7380	7400	7420	7440	7460
Torque (lb-in)	3,000-8,000	7,000-18,000	16,000-24,000	26,000-43,000	37,000-51,000	42,000-76,000	52,000-120,000	40,000-154,000	45,000-160,000	117,000-238,000	117,000-316,000	250,000-450,000	405,000-643,000	522,000-905,000

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