

**nexen**

# PRDX750-PL Rotary Indexer

Based on Nexen's established Precision Ring Drive (PRD), the new PRDX750-PL delivers up to three times more torque in one package.

The PRDX750-PL system is built on a precision machined steel plate with a guard that shrouds the gear and pinion. A pre-installed low-backlash planetary gearhead is used to drive the pinion, delivering exceptional accuracy.



## Industries & Applications

- Cutting Systems
- Gantry Systems
- Medical Products
- Robotics
- Aerospace
- Machine Tool
- Semiconductor
- Material Handling

## Key Features

- Utilizes new RPS32 Pinion with optimized pinion bearings
- Torque up to 4,811 Nm peak
- Through Hole: 600 mm ID
- Output Bolt Circle: 750 mm
- Accuracy:  $\pm 22$  ArcSec
- Axial loading up to 800 kN
- Moment loading up to 10 kNm
- Ratios from 30:1 to 2250:1

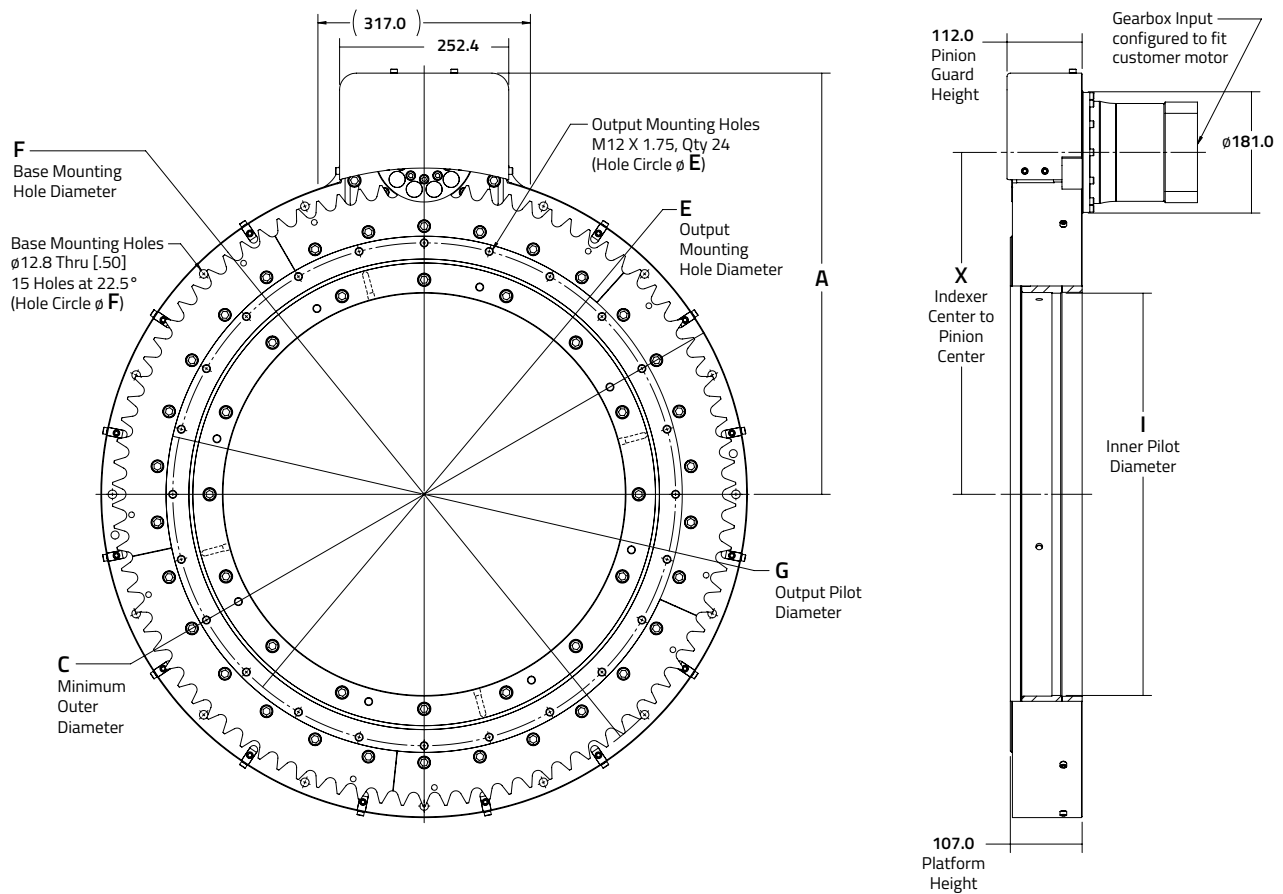
The **X** Line

## PRD750-PL & PRDX750-PL Performance Specifications

	Maximum Velocity	One-Way Positional Accuracy	One-Way Repeatability	Max Backlash	Max Acceleration Torque	Nominal Torque	Gear/Pinion	Input to Output	Unloaded Drag Torque	Output Inertia	Total Reflected Inertia to Gearbox Output
	RPM	±ArcSec	±ArcSec	ArcSec	Nm	Nm	Ratio	Ratio	Nm	kgm <sup>2</sup>	kgm <sup>2</sup>
PRD750-PL	54	21*	2.4	7*	1751	985	11:1	44:1*	100	8.83	0.075
PRDX750-PL	54	21.8*	2.3	9.5*	4811	2750	7.5:1	30:1*	100	12.194	0.236

\*Specs assume reduced backlash 4:1 planetary gearbox

## PRDX750-PL Dimensions



A	C	E	F	G	I	X
Drive Station Envelope to Center Distance	Minimum Outer Diameter	Output Bolt Pattern Circle Diameter	Base Mounting Hole Circle Diameter	Ring Drive Pilot Diameter	Inner Diameter	Indexer Center to Pinion Center
628.2 mm	964.4 mm	750 mm	930 mm	770 mm	600 mm	510 mm



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