



AxleTech[®]
International
A GENERAL DYNAMICS COMPANY

Planetary Rigid Axles PRC673 (31K lbs / 14.0 t)



OVERVIEW

The AxleTech PRC673 series planetary rigid axle is engineered to meet the demands of heavy-duty off highway market vocations. Typical vocational usages include Fertilizer Spreader, Snow Blower, Tow Tractor, Loader, Feller Buncher, and Special Vehicle applications. This axle is widely accepted in the off highway vocational segments due to its broad axle capacity range of 16,000-31,000 lbs. (7,200-14,000 kg).

The PRC673 planetary rigid axle series offers a wide selection of the overall gear reduction options, axle load capacities, brakes, and multiple tracks/axle mounting centers that can be tailored to your specific needs.

Engineered for compatibility with demanding traction conditions, The PRC673 meets the trend of increased driveline torques, tire sizes, and loading requirements that provide an extra ruggedness for prolonged life.

A limited slip differential with a 2.0 bias ratio, as well as NoSPIN[®] differential options are available for improved traction vocational requirements.

The PRC673 design helps reduce OEM/end-user maintenance costs. A standard carrier input pinion unitized seal reduces the likelihood of oil leaks. Extra axle housing magnets are optional to help reduce any metallic contamination between scheduled lubrication change intervals.

Service brakes are air actuated cam or dry disk brakes. Carrier input pinion mounted park brake option is also available. Cam brakes also have failsafe brake chamber options for the vehicle parking feature.

AxleTech International planetary rigid axles are tough, dependable, and thoroughly proven under the most severe conditions.

AxleTech International is the former Rockwell[®] Off Highway and European Specialty Products Group.

www.axletech.com

SPECIFICATIONS

AXLE CAPACITY⁽¹⁾ Pounds (kg)	AVAILABLE DIFFERENTIALS	DIFFERENTIAL RING GEAR DIAMETER AND FACE WIDTH Inches (mm)	AVAILABLE OVERALL RATIOS
Fertilizer Spreader 31,000 (14,000) Snow Blower 24,000 (10,900) Tow Tractor 28,000 (12,700) Special Purpose 22,800 (10,300) Loader 24,000 (10,900) Feller Buncher 16,000 (7,200)	Standard, Limited Slip Differential or NoSPIN®	RS145 Series 15.31" (388.9) 2.06" (52.3)	10.50 - 25.81:1.0

A AXLE MOUNTING CENTERS Inches (mm)	B HUB FLANGE TO FLANGE⁽²⁾ Inches (mm)	TIRE SIZE Inches (mm)	BRAKES Inches (mm)	INPUT BOX RATIO
45.0" (1,143) 40.75" (1,035)	83.4" (2,118) 93.5" (2,375) 96.1" (2,441)	24" (610)	16.5" x 5.0" "P" CAM (419 x 127) 18.0 x .63 HDB (457 x 16)	3.60:1.0

(1) Approval required on all applications.

(2)Varies with brake/tire/rim options.

EXAMPLE: TYPICAL AXLE WEIGHT

PRC673 with "P" brakes and 96.1" Hub Flange to Flange
 (2,441 mm) = 1,950 lbs (885 kg)

TYPICAL OIL CAPACITY: (Estimated)

Carrier 40 pints (18.9 liters)
 Wheel end 8 pints (3.8 liters) each

- A) Axle Mounting Centers
- B) Hub Flange to Flange
- C) Carrier Standout with 72N Input Yoke 14.56" (369.8 mm)

FEATURES & BENEFITS

FEATURES	BENEFITS
Unitized input pinion seal standard	Minimizes potential for oil leaks and improved axle sealing protection
Heavy-duty cam brakes	Proven durable in lift truck vocation
High-capacity hypoid gearing	Greater torque capability than spiral bevel gearing
Wide axle ratio range	Match customer vocation requirements
Thrust screw in carrier optional	Provides ring gear support in high torque loadings
Multiple axle tracks possible	Provides greater flexibility to meet OEM design requirements
Supplemental axle magnets optional in axle housing	Reduced metallic contamination between lubrication change intervals
Limited slip differential optional (3.42 - 7.17 ratios only)	Provides for improved traction in severe vocations
Optional input mounted park brakes available 1270 spring activated disk	Provides optional vehicle parking on axle as options to wheel brake failsafe chambers

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