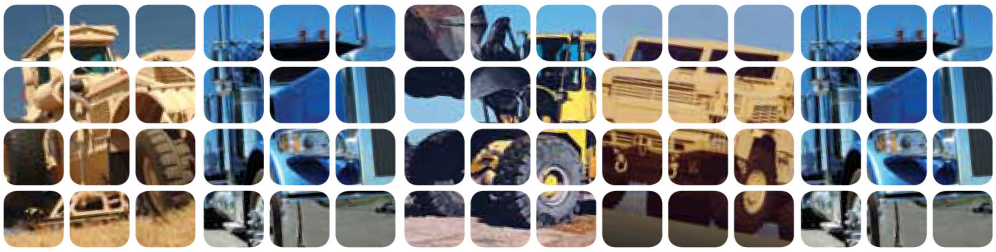
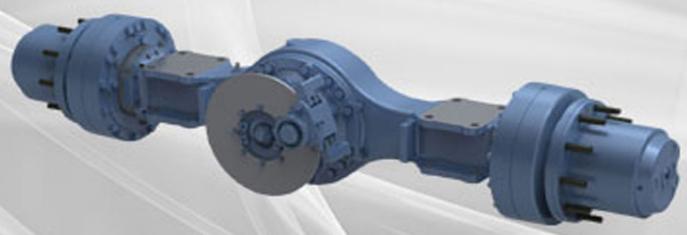


AxleTech International
A GENERAL DYNAMICS COMPANY

Planetary Rigid Axles

PRC425 (66.1K lbs / 30.0 t)



OVERVIEW

The AxleTech International PRC425 series planetary rigid axle is engineered to meet the increasing powerful demands of the heavy-duty industrial lift truck market. With a capacity up to 66,100 lbs. (30,000 kgs.), this axle covers a broad range of lift capacities ranging from 17,500 to 30,000 lbs. (8.0-13.6 M.T.).

The PRC425 planetary rigid axle offers a wide selection of gear ratios, load capacities and brakes for performance characteristics tailored to your needs.

Engineered for compatibility with demanding traction conditions, the PRC425 meets the trend of increased driveline torques, tire sizes, and loading requirements and provides ruggedness for prolonged life. A limited slip differential with a 2.0 bias ratio is available for improved traction in unique vocational requirements. The PRC425 design helps reduce OEM end-user maintenance costs. A standard unitized input pinion seal reduces the likelihood of oil leaks. Extra axle housing magnets also come standard to help reduce metallic contamination between scheduled lubricant change intervals.

Options include wheel mounted wet disc or Q Plus™ cam brakes. Optional input mounted hydraulic Hold Off/Spring Applied caliper park brake on a 16.0" (406.4 mm) rotor is also available. Failsafe brake chambers are also an available option when cam brakes are specified. For severe duty cycles, optional force-cooling ports are available on wet disc brakes to allow for auxiliary cooling. Mechanical wear indicators for the wet disc brakes are an available option to permit visual inspection without axle/wet disc brake disassembly.

AxleTech International's 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
Lift Truck 66,100 (30,000)	Standard or Limited Slip	RS145 Series 15.31" (388.9) 2.06" (52.3)	9.50 - 25.81:1.0

A AXLE MOUNTING CENTERS Inches (mm)	B HUB FLANGE TO FLANGE Inches (mm)	TIRE SIZE Inches (mm)	BRAKES Inches (mm)	INPUT BOX RATIO
40.0" (1,016) 40.0" (1,016)	71.1" Q (1,806) 72.6" Q (1,844)	20" (508)	14.2" W3H (360) 16.5" x 5.0" Q Plus Cam (419 x 127)	3.60:1.0 3.60:1.0

(1) Approval required on all applications

EXAMPLE: TYPICAL AXLE WEIGHT
PRC425 with 72.6" (1,844 mm) Hub Flange to Flange
With a 14.2" (360 mm) wet disc brake = 1,805 lbs. (819 kg.)
With Q Plus™ brakes = 1,760 lbs. (798 kg.)

OIL CAPACITY: (Estimated)
Carrier 40 pints (18.9 liters)
Wheel end 6 pints (2.8 liters)

A) Axle Mounting Centers
B) Hub Flange to Flange
C) Carrier Standout without input mounted disc park brake but with 62N yoke = 13.1" (332 mm)

Optional with input mounted disc park brake and 16TYS flange = 14.31" (363 mm)

FEATURES & BENEFITS

FEATURES	BENEFITS
14.2" (360 mm) wet disc brakes	Maximum life, minimum maintenance, Sealed environment protects against contaminants for optimal brake performance in severe conditions
Wheel mounted Q Plus cam brakes available as option	Easy brakes to service, high capacity brakes for lower maintenance costs and minimized downtime
Outboard mounted brake drums are standard on cam brakes	Simplifies brake maintenance by eliminating the need to remove planetary wheel end assembly
High capacity hypoid gearing	Greater torque capacity than spiral bevel gearing
Wide range of overall axle ratios	Match OEM vocational requirements
Unitized input pinion seal standard	Minimizes potential for oil leaks and improves axle sealing protection
Supplemental axle magnets standard in axle housing	Reduces metallic contamination between lubrication change intervals
Wet brakes include optional force-cooling ports availability, if required	Available for serve duty cycle vocational requirements
Optional thrust screw in carrier	Provides ring gear support in high torque applications
Optional 1270 Spring Activated Disc carrier input mounted park brake for either wet disc brake or cam wheel mounted service brakes	Provides OEM with optional park brake location
Mechanical wear indicators optional on wet disc brakes	Permits visual inspection without axle/brake disassembly
Limited slip differential optional	Available for improved traction in unique vocational requirements

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