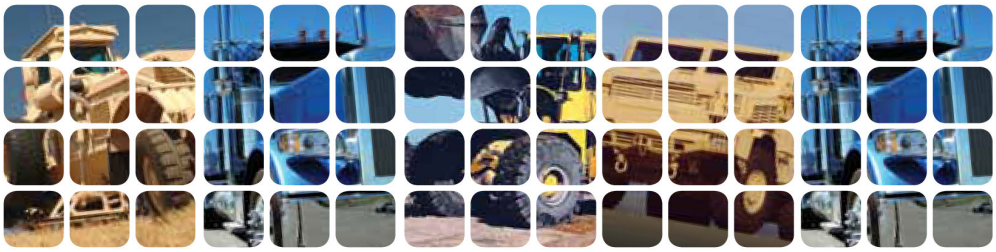


AxleTech International
A GENERAL DYNAMICS COMPANY

Planetary Rigid Axles

PRLC2186 (68.6K lbs / 31.1 t)

OVERVIEW

The AxleTech International PRLC2186 series planetary rigid axle is engineered to meet the increasing powerful demands of the heavy-duty dump truck vocation. With an axle capacity up to 68,600 lbs. (31,140 kgs). The PRLC2186 planetary rigid axle offers a wide selection of gear ratios for performance characteristics tailored to your needs.

Engineered for compatibility with demanding traction conditions, the PRLC2186 meets the trend of increased driveline torques, tire sizes, and loading requirements and provides ruggedness for prolonged life. The PRLC2186 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 are optional to help reduce metallic contamination between scheduled lubricant change intervals. Options include wheel mounted and failsafe brake chambers for cam brakes.

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

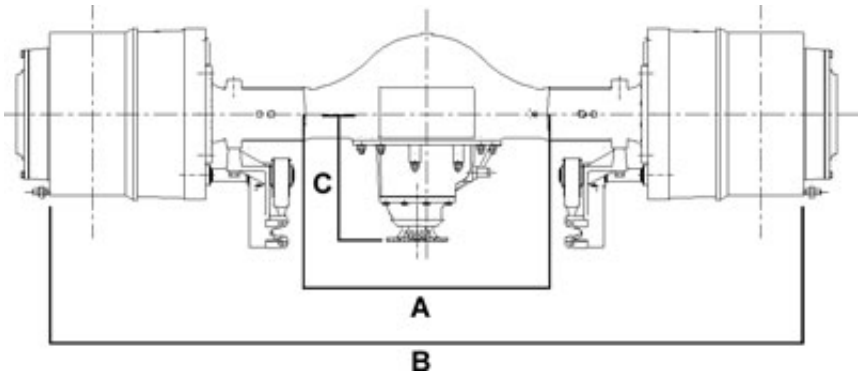
AxleTech International is the former Rockwell® Off Highway and European Specialty Products Group.

SPECIFICATIONS

AXLE CAPACITY(1) Pounds (kg)	AVAILABLE DIFFERENTIALS	DIFFERENTIAL RING GEAR DIAMETER AND FACE WIDTH Inches (mm)	AVAILABLE OVERALL RATIOS
Dump Truck 68,600 (31,140)	Standard or NoSPIN®	RS160 Series 18.0" (457) 2.75" (70)	10.5 - 21.0:1.0

A AXLE MOUNTING CENTERS Inches (mm)	TRACK(2) Inches (mm)	TIRE SIZE Inches (mm)	BRAKES Inches (mm)	INPUT BOX RATIO
40.94" (1,040)	88" (2235.2mm)	25" (635)	20.25 x 7 P Cam (514 x 178)	3.43:1.0

(1) Approval required on all applications.



EXAMPLE: TYPICAL AXLE WEIGHT
PRC775 with 88" (2,235.2 mm)
Track P brakes = 3,650 lbs. (1,656 kg.)

TYPICAL OIL CAPACITY:
Carrier 54 pints (25.5 liters)
Wheel end 14 pints (6.6 liters) each

A) Axle Mounting Centers
B) Track
C) Carrier Standout with SWCS Flange tapped yoke = 16.62" (422.1 mm)

FEATURES & BENEFITS

FEATURES	BENEFITS
Wheel mounted plus cam brakes	Easy brakes to service, high capacity brakes for lower maintenance costs and minimized downtime
Thrust screw standard in carrier	Provides ring gear support in high torque applications
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 optional in axle housing	Reduces metallic contamination between lubrication change intervals

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