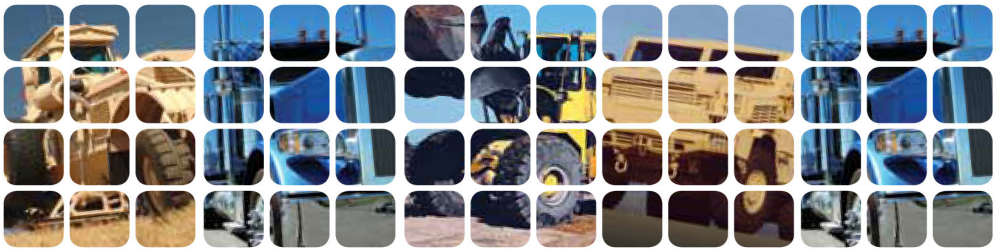


AxleTech International
A GENERAL DYNAMICS COMPANY

Planetary Rigid Axles

PRC2725 (50K lbs / 22.7 t)

OVERVIEW

The AxleTech International PRC2725 series planetary rigid axle is engineered to meet the increasing demands of heavy-duty off-highway market vocations. Typical vocations include forestry, agriculture, construction, and mining vehicle applications. This axle was developed for these vocational segments and is available as a rigid axle assembly. This axle has load ratings from 44,000 lbs. (20,000 kg.) to 50,000 lbs. (22,700 kg.) depending on vehicle vocation.

The PRC2725 planetary rigid axle offers a wide selection of gear ratios and load capacities for performance characteristics tailored to your needs. Engineered for compatibility with demanding traction conditions, the PRC2725 meets the trend of increased driveline torque, larger tire sizes and is designed to use dual tires with wide tracks. This axle provides extra ruggedness for prolonged use, as well as life. A shift-on-the-fly hydraulically controlled differential lock is available. A limited slip differential with 2.0 bias ratio is available for improved traction in certain vocational markets. A right hand hypoid carrier option is also available for several ratios.

The PRC2725 design helps reduce the OEM/end-user maintenance costs. Extra axle housing and wheel end magnets are available as an option, to help reduce metallic contamination between scheduled lubricant change intervals. This axle model includes wet-disc brakes in 1 and 2 plate versions. Carrier input pinion mounted park brake options are also available.

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

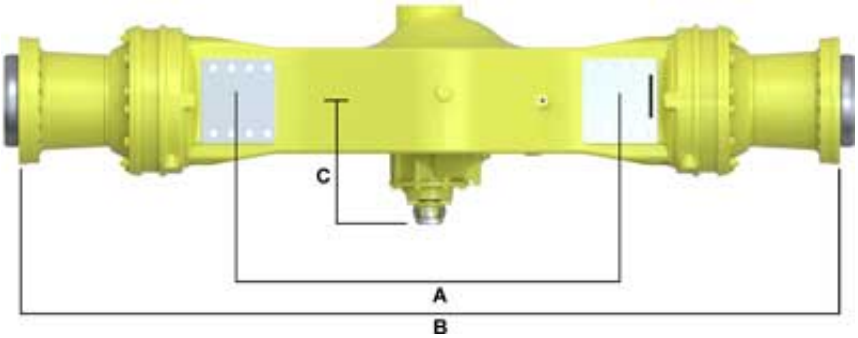
AxleTech International is the former Rockwell® Off Highway and European Specialty Products Group.

SPECIFICATIONS

AXLE CAPACITY(1) Pounds (kg)	AVAILABLE DIFFERENTIALS	DIFFERENTIAL RING GEAR DIAMETER Inches (mm)	AVAILABLE OVERALL RATIOS
Forestry Skidder 44,000 lbs. (20,000) Forestry Feller Buncher 44,000 lbs. (20,000) Agriculture Vehicle 50,000 lbs. (22,700) Construction Loader 50,000 lbs. (22,700) Mining Vehicle** 50,000 lbs. (22,700)	Standard, Limited Slip Differential, NoSPIN®, Hydraulic Differential Lock (HDL), or Driver Controlled Differential Lock (DCDL)	RS145 Series LH and RH 15.31" (388.9)	17.57 – 41.00

A AXLE MOUNTING CENTERS Inches (mm)	B HUB FLANGE TO FLANGE Inches (mm)	MIN RIM SIZE Inches (mm)	BRAKES Inches (mm)	PLANETARY WHEEL END RATIO
45.2" (1,148)	98.1" (2493)	20" (508)	14.17" W3H (360)	6.00:1.0

** Subject to application review of vehicle data and duty cycle.
(1) Approval required on all applications.



A) Axle Mounting Centers
B) Hub Flange to Flange
C) Carrier Yoke Standout 85W Yoke 14.88 (378), 72N Yoke 14.56 (370)

FEATURES & BENEFITS

FEATURES	BENEFITS
Wet-disc brakes with optional internal actuation brake lines. Sump cooling or optional forced-cooling ports available	Completely sealed brake system and simplified vehicle brake plumbing. Cooling ports to serve heavy duty brake cycle requirements
High-capacity hypoid gearing	Greater torque capability than spiral bevel gearing
Wide axle ratio range	Match customer vocation requirements
Thrust screw in carrier standard	Provides ring gear support in high torque loadings
Optional supplemental axle magnets in axle housing	Reduced metallic contamination between lubrication change intervals
Multiple differential options available (Vocation Dependent)	Meeting the demands of on-highway and off-road conditions in order to improve mobility
Optional 1270 Spring Activated Disc carrier input mounted park brake	Provides OEM with optional park brake location
O-ring sealing in most joints	Reliable sealing
Optional RH gearing carrier (depends on carrier ratio)	Optimizes driveline angle or manages input rotations
Unitized input pinion seal standard	Minimizes potential for oil leaks and improved axle sealing protection
Extra Heavy Duty Housing	Allows use of dual tires and wider tracks

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