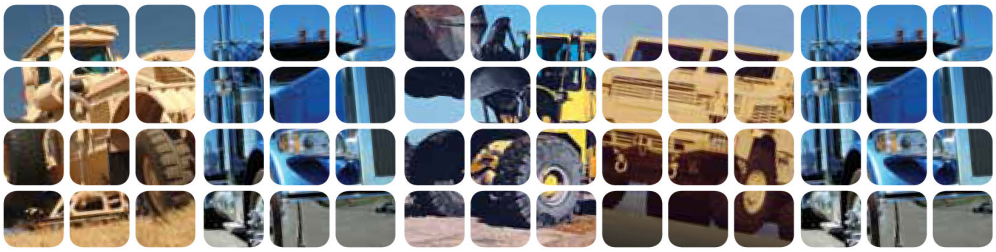


AxleTech International
A GENERAL DYNAMICS COMPANY

Planetary Steer Axles

PSC822 (25K lbs / 11.4 t)

OVERVIEW

The AxleTech PSC822 series planetary steer axle is engineered to meet the increasing powerful demands of the heavy duty Rough Terrain Crane, Excavator, and various other off-highway vocations. With an axle capacity range up to 26,000 lbs. (11,800 kg.) this axle covers a broad range of demanding vocational applications including Agricultural Spreader and Trencher among other common usages.

The PSC822 planetary steer axle series offer a wide selection of overall gear reduction options; load capacities, brakes and multiple tracks that can be tailored to your specific needs.

Engineered for compatibility with demanding traction conditions, the PSC822 meets the trend of increased driveline torque, tire sizes, and loading requirements that provide an extra ruggedness for prolonged life. A limited slip differential with a 2.0 bias ratio and NoSPIN® differential options are also available for improved traction vocational requirements.

The PSC822 design helps reduce OEM/end-user maintenance costs. A standard input pinion unitized seal reduces the likelihood of oil leaks. Permanently lubricated steering axle shafts are standard; eliminating this maintenance requirement. Extra axle housing magnets are optional to help reduce any metallic contamination between scheduled lubricant change intervals.

Brake options include: wheel mounted Hydraulic Dry Disks or Hydraulic Drum brakes. Carrier input pinion mounted park brake options are also available.

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

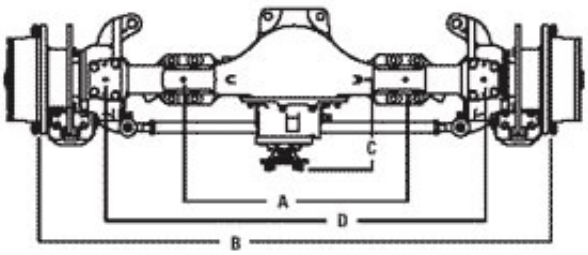
AxleTech International is the former Rockwell® Off Highway and European Specialty Products Group.

SPECIFICATIONS

AXLE CAPACITY(1) Pounds (kg)	AVAILABLE DIFFERENTIALS	DIFFERENTIAL RING GEAR DIAMETER AND FACE WIDTH Inches (mm)	AVAILABLE OVERALL RATIOS
26,000 (11,800)	Standard, Limited Slip Differential, or NoSPIN®	RS120 Series 13.25" (336.6) 1.81" (46.0)	11.9 - 25.8

A AXLE MOUNTING CENTERS Inches (mm)	B HUB FLANGE TO FLANGE(2) Inches (mm)	TIRE SIZE Inches (mm)	BRAKES Inches (mm)	PLANETARY WHEEL-END RATIO	D KING PIN INTERSECTION Inches (mm)
37.25" (946)	83.5" (2,121) 84.86" (2,155)	24" (610) 25" (635)	17" x 4" DLH (432 x 102) 18.5" x .63" HDB (470 x 16)	3.60	63" (1,600)

(1) Approval required on all applications.
(2) Other dimensions available.



EXAMPLE: TYPICAL AXLE WEIGHT
PSC822 with 84.86" (2,155 mm) hub flange to flange and HDB Brakes = 1,700 lbs. (772 kg)

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

A) Axle Mounting Centers
B) Hub Flange to Flange
C) Carrier Standout with 62N Input Yoke 13.45" (341.6 mm)
D) King Pin Intersection

FEATURES & BENEFITS

FEATURES	BENEFITS
Unitized input pinion seal standard	Minimizes potential for oil leaks and improved axle sealing protection
Sealed steer king pins optional	Reduces required axle maintenance
Wide axle ratio range	Match customer vocation requirements

Thrust screw in carrier	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	Provides for improved traction in severe vocations
Optional input mounted park brakes available 12" x 4" DCM (305 x 102 mm)	Provides optional vehicle parking on axle
Straight tie rod standard	Provides additional protection from external damage

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