



**AxleTech**<sup>®</sup>  
**International**  
A GENERAL DYNAMICS COMPANY

## Planetary Rigid Tandem Axles SPRC4806 (180K lbs / 81.7 t)

### OVERVIEW

The AxleTech International SPRC4806 series tandem planetary rigid axles are engineered to meet the extra toughness demanded by the OEM's in today's demanding environment. When you couple rough terrain with heavy loads and adverse weather conditions, you need the strength and support of AxleTech International's planetary tandem axles. The SPRC4806 has the capability to meet the most severe vocational duty cycles and provide productivity uptime that converts directly to the end-user productivity.

Log haulers, truck cranes, dump trucks, heavy equipment transporters, and special purpose vehicles work in some of the most grueling environments in the world. Axle Tech tandem planetary axles are designed with these conditions in mind. The SPRC4806 has capability of up to 1,000,000 lbs. (453,600 kg.) in gross combination weights (GCW) dependant upon specific vocational duty cycle requirements. A balanced gearing design puts more power at the wheel ends. This reduces torque and stress on axle shafts and carrier/differential gearing, directly contributing to longer component life and reduced maintenance costs.

The SPRC4806 has a wide selection of features, both standard and optional, available to provide the heavy-duty tandem that is able to be optimized for your specific vocational requirements and makes this tandem the product of choice. A listing of standard features include high capacity hypoid gearing, crowned planet gears, wheel end planet gears mounted on tapered bearings and rugged high strength steel axle housings. Optional features that include high capacity cam brakes, carrier differential options, inter-axle differential with a pressurized oil lubrication system, single or dual style wheel hub mountings, and a wide range of overall axle ratios are available to be allow you to optimize the SPRC4806 to your specific vocational requirements.

In addition, extra axle housing magnets provide for reduced metallic contamination between oil lubrication intervals. An upgraded spindle nut retention mechanism is also provided by AxleTech for rugged operations.

AxleTech's special axle shaft manufacturing process produces high strength and shock resistant axle shafts to withstand the torsional stress requirements of large engines and transmission low gear operations.

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

[www.axletech.com](http://www.axletech.com)

## SPECIFICATIONS

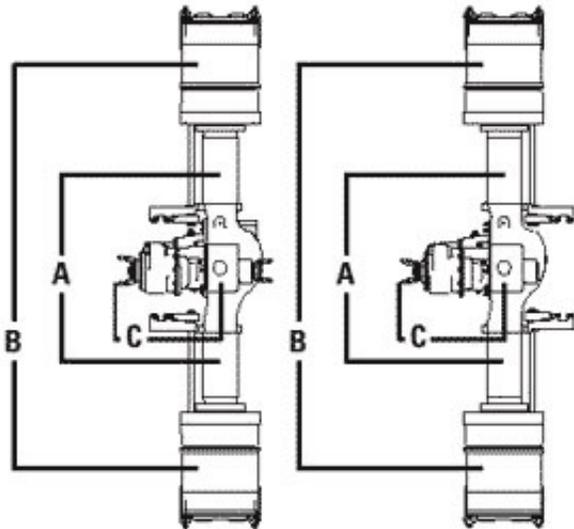
AXLE CAPACITY <sup>(1)</sup> Pounds (kg)	AVAILABLE DIFFERENTIALS	DIFFERENTIAL RING GEAR DIAMETER AND FACE WIDTH Inches (mm)	AVAILABLE OVERALL RATIOS
Special Purpose 150,000 (68,000)	Standard or NoSPIN®	RT380 Series 19.62" (498) 3.22" (82)	RT380 Series 12.9 -37.3:1.0
Truck Crane 180,000 (81,650)			
6x6 Off Road Dump Truck 138,000 (62,600)			
Heavy Haul 180,000 (81,650)			

A BEAM HANGER CENTERS Inches (mm)	B TRACK <sup>(2)*</sup> Inches (mm)	TIRE SIZE Inches (mm)	BRAKES Inches (mm)	PLANETARY WHEEL-END RATIO
45.3" (1,151) 52.0" (1,321)	105.5" (2,680)	25" (635)	20.25" x 7.0" "P" (514 x 178)	4.59:1.0 5.20:1.0

\* Other Dimensions Available

(1) Approval required on all applications.

(2) NoSPIN® is a registered trademark of Tractech, Inc.



### EXAMPLE: TYPICAL TANDEM AXLE WEIGHT

SPRC4806 with 105.5" (2,680 mm) Track

With 20.25" x 7.0" "P" (514 x 178 mm) brakes =

10,260 lbs. (4,654 kg.)

**OIL CAPACITY: (Estimated)**

Carrier 72 pints (34 liters)

Wheel End 32 pints (15.1 liters)

A) Beam Hanger Centers

B) Track

C) Forward Carrier Standout with 1810 input yoke = 27.29" (693 mm) Rear Carrier Standout with 1710 yoke = 27.79" (706 mm)

**FEATURES & BENEFITS**

FEATURES	BENEFITS
Heavy Duty AxleTech cam Brakes	Provides high braking torque capacity and dependability
Rectangular shaped cast steel axle housings	Provides high tandem axle load capacity
Wide range of overall axle ratios available	Provides OEM flexibility to select optimum axle ratio for intended vocational usage
Differential options available	Available for heavy-duty traction requirements
Front mounted SPR-570 series carriers	Provides ease of service
High capacity hypoid gearing	Greater torque capability than spiral bevel gearing
Crowned planet gears	Ensures uniform gear contact under severe low gear requirements
Planet gears on taper bearings	Provides for strong wheel end design
Inter-axle differential and pressurized oil lubrication system available in the SPR-570 carrier. Also available with oil filter on both carriers	Virtually eliminates potential spin out in forward/reverse directions. Oil filter to assist in removing metallic contamination
Additional axle housing magnets standard	Assists in metallic contamination removal between lubrication intervals
Dual and single tire hubs options available	Provides flexibility to OEM vehicle configurations

**AxleTech International**  
 1400 Rochester Road  
 Troy, Michigan 48083 USA  
 1-877-877-9717  
 Fax: 1-248-435-1990

**AxleTech International SAS**  
 4, Rue Jean Servanton  
 Boite Postale 656  
 42042 Saint Etienne Cedex 1  
 FRANCE  
 +33 477-92-88-00  
 Fax: +33 477-92-88-93

**AxleTech do Brasil Sistemas Automotivos Ltda.**  
 Av. Marechal Rondon, 840  
 Osasco - SP - 06093-010  
 BRASIL  
 +55 11 3653-1420  
 Fax: +55 11 3653-1424

**AxleTech Troy Distribution Center**  
 1400 Rochester Road  
 Troy, Michigan 48083 USA  
 1-877-877-9717  
 Fax: 1-248-435-1990

[www.axletech.com](http://www.axletech.com)