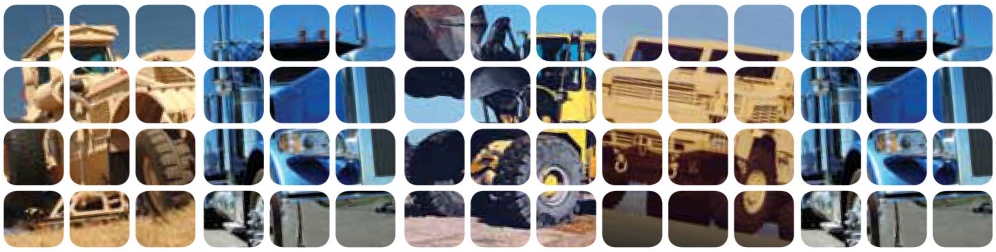


AxleTech International
A GENERAL DYNAMICS COMPANY

Planetary Rigid Tandem Axles

SPRC2197 (140K lbs / 63.5 t)

OVERVIEW

The AxleTech SPRC2197 Tandem features heavy duty cast steel housings along with heavy duty four pinion planetary wheel ends. They 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 SPRC2197 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 SPRC2197 has capability of up to 760,000 lbs. (344,750 kg.) in gross combination weights (GCW) dependent 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 SPRC2197 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, and rugged high strength steel axle housings. Optional planetary wheel end configuration is a multiple taper bearing design under planetary pinion gears with "coverless" planetary spider design. 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 SPRC2197 to your specific vocational requirements.

In addition, extra axle housing magnets provide for reduced metallic contamination between oil lubrication intervals.

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.

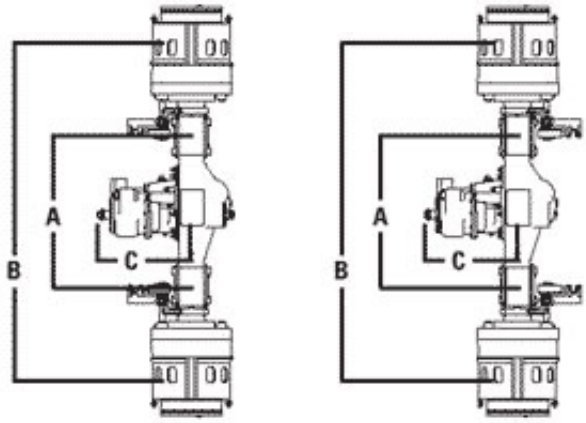
www.axletech.com

SPECIFICATIONS

AXLE CAPACITY(1) Pounds (kg)	AVAILABLE DIFFERENTIALS(2)	DIFFERENTIAL RING GEAR DIAMETER AND FACE WIDTH Inches (mm)	AVAILABLE OVERALL RATIOS
Articulated Hauler 115,000 (52,150) Truck Crane 120,000 (54,400) Log Hauler 110,000 (50,000)	Standard or NoSPIN®	SR170 Series 18.88" (479) 2.88" (73) RT160 Series 18.0" (457) 2.75" (70)	SR170 Carrier 9.6 -32.6:1.0 RT160 Carrier 10.5 -31.5:1.0

A AXLE MOUNTING CENTERS Inches (mm)	B HUB FLANGE TO FLANGE Inches (mm)	TIRE SIZE Inches (mm)	BRAKES Inches (mm)	INPUT BOX RATIO
41" (1,041) 55" (1,392)	90" (2,286) 100" (2,540) 105" (2,667)	24" (610) 25" (635)	20.25" x 7" "P" (514 x 178) 17.0" (432) W4H	3.43:1.0, 4.4:1

* Other Dimensions Available
(1) Approval required on all applications.
(1) NoSPIN ® is a registered trademark of Tractech, Inc.



EXAMPLE: TYPICAL TANDEM AXLE WEIGHT
SPRC2197 with 90" (2,286 mm) Hub Flange to Flange
with a 20.25" x 7.0" "P" (514 x 178 mm) brakes = 7,250 lbs. (3,283 kg.)

SPRC1927 with 105" (2,667 mm) Hub Flange to Flange
with a 17"(432 mm) W4H brakes = 8,660 lbs. (3,928 kg.)

OIL CAPACITY: (Estimated)
(With SR170 Carrier)
Carrier 68 pints (32.1 liters)
Wheel End 16 pints (7.6 liters)
(With RT160 Carrier)
Carrier 58 pints (27.4 liters)
Wheel End 14 pints (6.6 liters)

A) Beam Hanger Centers
B) Hub Flange to Flange
C) Forward/Rear Carrier Standout with 92N Yoke = 25.79" (655 mm)

FEATURES & BENEFITS

FEATURES	BENEFITS
Heavy Duty AxleTech cam Brakes Optional 17" (432mm) wet disc brakes	Provides high braking torque capacity and dependability
Extra Heavy Duty 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 SR170 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
Heavy duty four planet planetary gears on taper bearings	Provides for strong wheel end design
Inter-axle differential and pressurized oil lubrication system available in the SR170 carrier	Virtually eliminates potential spin out in forward/reverse directions
Additional axle housing magnets optional	Assists in metallic contamination removal between lubrication intervals
Dual and single tire hubs options available	Provides flexibility to OEM vehicle configurations

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