**Funk™ Series 1200 Axle**

**Industrial Drivetrain Specifications**

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### General data

- **Peak vertical load**: 240,000 N (54,000 lb)
- **Peak axle torque**: 35,000 Nm (310,000 in-lb)
- **Oil capacity**: 19 L (20 qt)
- **Flange to flange narrow**: 1300 mm (51.18 in)
- **Flange to flange offset**: 1500 mm (59.10 in)
- **Flange to flange standard**: 1700 mm (66.93 in)
- **Flange to flange wide**: 1953 mm (76.89 in)
- **Approximate dry weight**: 726 kg (1600 lb)

### Axle reduction ratios

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<th>Spiral bevel reduction</th>
<th>Final drive reduction</th>
<th>Total reduction</th>
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### Differential options

- **Standard**
- **No-spin DIF-LOK**
- **Hydraulic DIF-LOK**

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Specifications and design subject to change without notice. Ratings may vary depending on application and service. Application and installation are subject to review by John Deere.

Photographs may show non-standard equipment.
Performance data

Features and benefits

Custom features
- Inboard planetary final drive design
- Increases tire size flexibility since the planetary does not compete for wheel space
- Enables a wider variety of acceptable track widths than outboard designs
- One integral oiling and cooling system
- Reduces heat transfer to tires
- Independent or dual-service brake actuation
- Spiral bevel gear set design allows bidirectional operation
- Input housings designed for use with oscillation hardware
- Spring-applied hydraulic release or manually applied parking brakes on fixed mounted axles
- Inboard wet brakes increase reliability and provide spark-free operation for regulatory compliance in hazardous environments
- One oil supply for all planetary, brake, and differential components for better cooling

Cost-effectiveness
John Deere can custom build an axle to your specific torque and load requirements. Our building-block design consists of 12 modules of varying sizes, load capacities, ratios, and specifications. The best torque and load carrying capacity will be selected based on your application.
- Three axle families to better match your requirements
- Gray or ductile iron axle housings for improved load-matching
- Standard or heavy-duty wheel bearings
- Standard or extra-wide planetaries for better torque, shock, and reverse load-matching

Long axle life
- Final drives, spiral bevel gear set, and structural components designed for extreme applications
- Planetaries not packaged into the wheel, allowing for larger size, making torque and forward-reverse transitions reliable
- Sliding tooth contact spiral bevel gear set is minimized for longer life
- Large oil sump ensures cool operation, prolonging life of the spiral bevel gear set, final drives, differential bearings, and pinion bearings
- Inboard wet disc brakes protected from contaminants and last up to four times longer than dry disc brakes
- Inboard wet disc brakes operate cooler and last longer due to large sump
- No brake lines at the wheel end that require protection
- Inboard wet brakes provide spark-free operation for regulatory compliance in hazardous environments

Reliability
- Application engineers ensure axle specifications meet your vehicle torque, load, and operating performance requirements

John Deere Power Systems
3801 W. Ridgeway Ave.
PO Box 5100
Waterloo, IA 50704-5100
Phone: 800.553.6446
Fax: 319.292.5075

All values at rated speed and power with standard options unless otherwise noted.
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