



JOHN DEERE

Funk™ Drivetrain Components Selection Guide



Axles



Series 1200

- Peak vertical load – 240,000 N (54,000 lb) per axle
- Track width – 1300 mm (51.18 in), 1500 mm (59.10 in), 1700 mm (66.93 in), 1953 mm (76.89 in)
- Ratio range – 4.333 – 33.429:1
- Peak output torque – 35,000 Nm (310,000 in-lb) per axle shaft

Series 1400

- Peak vertical load – 300,000 N (67,000 lb) per axle
- Track width – 1700 mm (66.93 in), 1953 mm (76.89 in)
- Ratio range – 16.208 – 32.914:1
- Peak output torque – 47,400 Nm (420,000 in-lb) per axle shaft

Series 1400 SWEDA™

- Peak vertical load – 300,000 N (67,000 lb) per axle
- Track width – 2540 mm (100.0 in)
- Ratio range – 27.927 – 32.914:1
- Peak output torque – 47,400 Nm (420,000 in-lb) per axle shaft

Series 1600

- Peak vertical load – 395,000 N (88,000 lb) per axle
- Track width – 1994 mm (78.50 in), 2094 mm (82.40 in), 2198 mm (86.54 in)
- Ratio range – 16.208 – 29.922:1
- Peak output torque – 67,700 Nm (600,000 in-lb) per axle shaft

HMD transmissions



18000 HMD

- Speeds – 2
- Input power – 149 kW (200 hp)
- Max input speed – 4000 rpm
- Input torque – 949 Nm (700 lb-ft)
- Motor adapters – SAE C, D

12700 HMD

- Speeds – 4
- Input power – 104 kW (140 hp)
- Max input speed – 2500 rpm
- Input torque – 407 Nm (300 lb-ft)
- Motor adapters – SAE C, D

33000 HMD

- Speeds – 4
- Input power – 101 kW (135 hp)
- Max input speed – 2400 rpm
- Input torque – 407 Nm (300 lb-ft)
- Motor adapters – SAE C, D

23000 HMD

- Speeds – 3, 4
- Input power – 75 kW (100 hp)
- Max input speed – 3000 rpm
- Input torque – 271 Nm (200 lb-ft)
- Motor adapters – SAE C, D

All specifications are subject to change.

Powershift transmissions



DF150

- Input power – 112 kW (150 hp)
- Max input no load speed – 3000 rpm
- Max turbine torque – 1288 Nm (950 lb-ft)
- 500 mm (19.68 in) drop
- Converter or direct drive
- Engine, midship, or remote
- Up to 8 forward/4 reverse speeds

DF250

- Input power – 186 kW (250 hp)
- Max input no load speed – 2600 rpm
- Max turbine torque – 1898 Nm (1400 lb-ft)
- 550 mm (21.65 in) drop
- Converter or direct drive
- Engine, midship, or remote
- Up to 11 forward/4 reverse speeds

2000 series

- Input power – 168 kW (225 hp)
- Max input no load speed – 3000 rpm
- Max turbine torque – 1627 Nm (1200 lb-ft)
- 244.6 mm (9.63 in) short drop,
473.2 mm (18.63 in) long drop
- Engine, midship, or remote
- Up to 6 forward/3 reverse speeds

Modular pump drives



28000 direct pump drive

- Input power – 268 kW (360 hp)
- Input torque – 881 Nm (650 lb-ft)
- Pump adaptation – SAE B, BB, C, D

28000 single, double pump drives

- Input power – 242 kW (325 hp)
- Input torque – 780 Nm (575 lb-ft)
- Gear centers – 127 mm (5 in)
- Pump adaptation – SAE A, B, BB, C, D

28000 double, triple pump drives

- Input power – 268 kW (360 hp)
- Input torque – 1017 Nm (750 lb-ft)
- Gear centers – 152 mm (6 in)
- Pump adaptation – SAE A, B, C, D

59000 double, triple, four pump drives

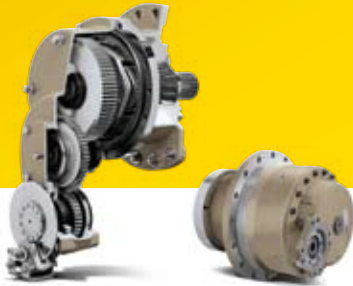
- Input power – 522 kW (700 hp)
- Input torque – 1695 Nm (1250 lb-ft)
- Gear centers – 203 mm (8 in), 308 mm (12.1 in)
- Pump centers 4 wide – 308 mm (12.1 in)
- Pump adaptation – SAE A, B, C, D

56000 and 57000 pump drives

- Max input power – 708 kW (950 hp)
- Max input torque – 2712 Nm (2000 lb-ft)
- Pump centers – 254 mm (10 in), 356 mm (14 in), 407 mm (16 in)
- Pump adaptation – SAE C, D, E, 2, 3, 4, 5 pump pad configurations
- Wide centers for larger hydraulic pumps

All specifications are subject to change.

Planetary gear drives



Drive type	Series model	Output torque Nm (lb-ft)		Max input speed, rpm continuous	Max input power	
		Intermittent	Continuous		kW	hp
Speed reducer	F9R	12,880 (9500)	8135 (6000)	2800	27	36
	F12R	16,948 (12,500)	10,168 (7500)	2800	35	48
	F25R	33,895 (25,000)	18,710 (13,800)	2800	71	95
Track	P65T	88,127 (65,000)	56,944 (42,000)	4000	138	185
	P120T	162,696 (120,000)	88,127 (65,000)	4000	168	225

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Customer support

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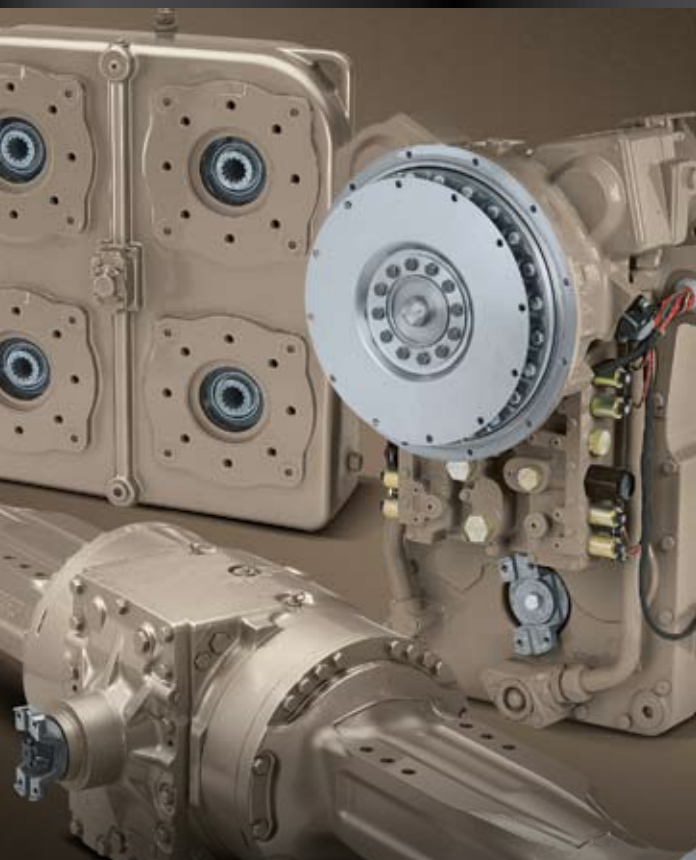
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