



JOHN DEERE



FUNK MANUFACTURING

A John Deere Company



POWERFUL
DIRECTIONS

TECHBUD



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Funk products

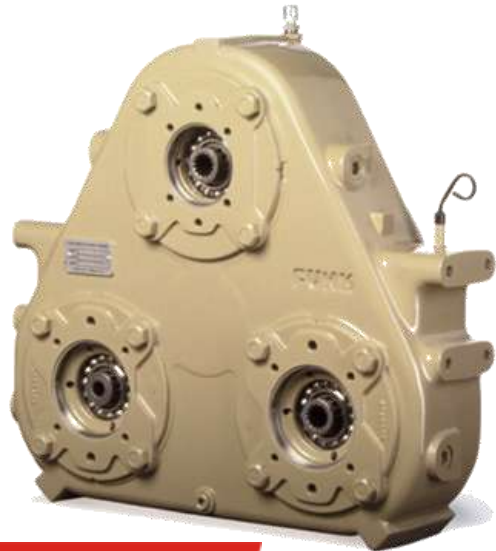


Axle

Powershift



Hydraulic Motor Driven



Pump Drive

Planetary



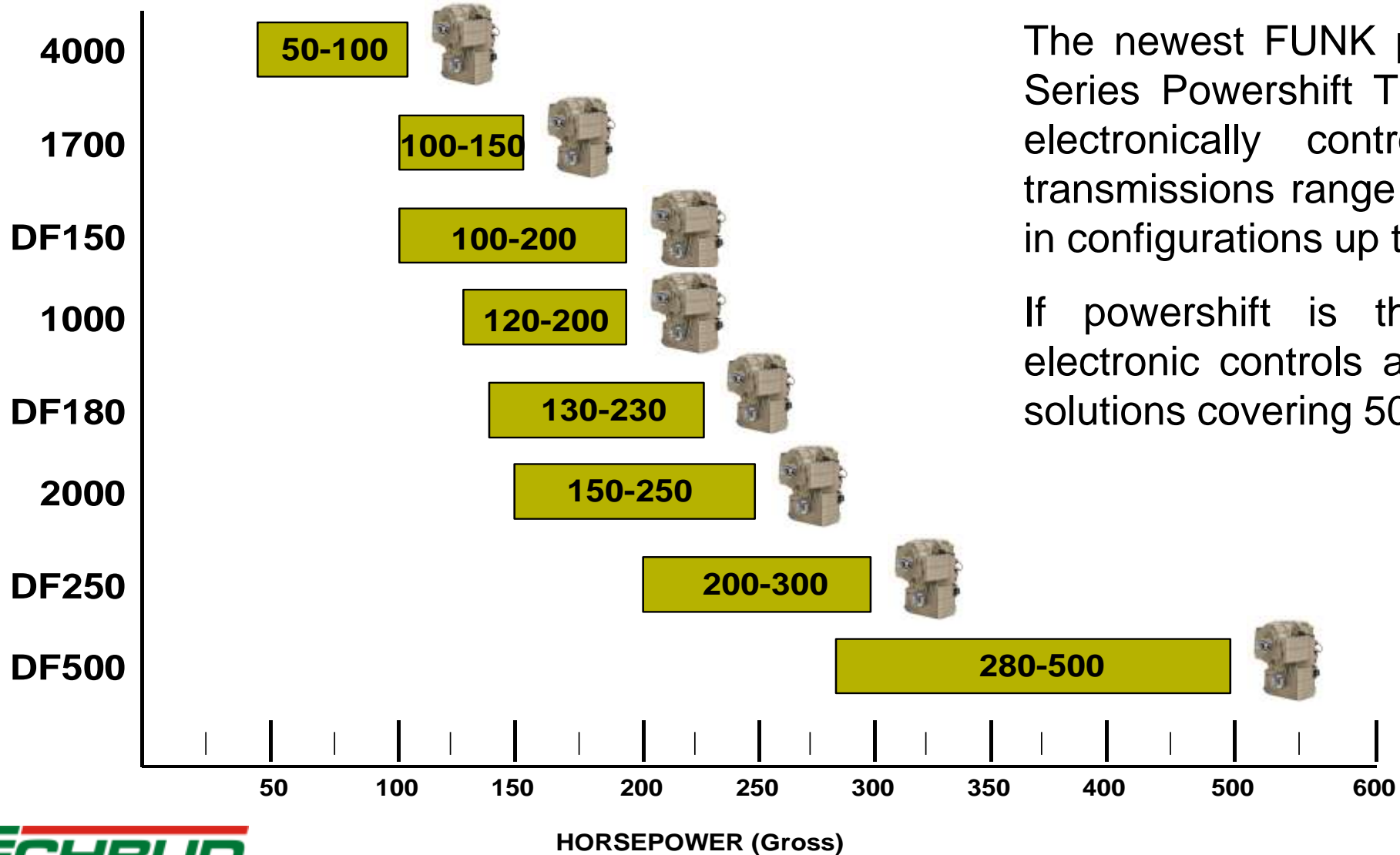
Advanced designs for shift speed and ease of directional control

The FUNK line of powershift transmissions allows power on shifts under load and fingertip ease of speed and directional control. This allows the operator and the machine to work faster, with less effort and increases vehicle productivity. A high degree of parts interchangeability is designed into all models throughout the line to help minimize the user parts inventory.

FUNK has always been a leader in powershift technology and rugged design. Stay ahead of the competition with the powershift that sets the standard for both.



Powershift Horsepower Coverage



The newest FUNK products are the DF Series Powershift Transmissions. These electronically controlled full-powershift transmissions range from 150 to 500 hp, in configurations up to 11 speeds.

If powershift is the requirement but electronic controls are not, FUNK offers solutions covering 50 to 250 hp.

Model DF150

- Input Power (max.) – 142 kW (190 hp)
- Input no load speed (max.) – 3000 rpm
- Turbine torque (max.) – 1288 Nm

Model DF250

- Input Power (max.) – 224 kW (300 hp)
- Input no load speed (max.) – 3000 rpm
- Turbine torque (maxi) – 1898 Nm

Model DF500

- Input Power (max.) – 336 kW (450 hp)
- Input no load speed (max.) – 2350 rpm
- Turbine torque (max.) – 2304 Nm



Model DF500

4000 Series

- Input power (max.) – 75 kW (100 hp)

1700 Series

- Input power (max.) – 93 kW (125 hp)

1000 Series

- Input power (max.) – 119 kW (160 hp)

2000 Series

- Input power (max.) – 168 kW (225 hp)

F20 Series

- Input power (max.) – 168 kW (225 hp)



Model DF150

TeamMate™ II, so named as the ideal axle choice

TeamMate™ II inboard planetary axles are available in a wide range of configurations for the off-highway market. These axles may be teamed with a John Deere engine and a FUNK transmission for a complete Deere Power System.



1200 Series

- Peak vertical load – 24 000 kg
- Peak axle torque – 35 000 Nm
- Overall reduction ratio – 16.095 to 33.429

1400 Series

- Peak vertical load – 30 000 kg
- Peak axle torque – 47 400 Nm
- Overall reduction ratio – 16.208 to 32.914

1600 Series

- Peak vertical load – 40 000 kg
- Peak axle torque – 67 700 Nm
- Overall reduction ratio – 16.208 to 29.922



1400 Series SWEDA

Modular Design and an extensive history of versatility

For more than 30 years, off-highway equipment designers have found many uses for these versatile drives. Besides powering hydraulic pumps, they can be used as power splitters or to change powertrain center lines. A complete selection of input and output options and gear ratios are available.

- Single Pump Direct Drive to Five Pump Gear Driven
- Applications...Mobile and Stationary Off Highway
- Hydraulic Drive Equipment





Series 61000

- Input torque (max.) – 481 Nm
- Input power (max.) – 100 kW (135 hp)
- 2 and 3 pump drives

Series 28000

- Input torque (max.) – 880 Nm
- Input power (max.) – 268 kW (360 hp)
- 1, 2 or 3 pump drives

Series 59000

- Input torque (max.) – 1693 Nm
- Input power (max.) – 522 kW (700 hp)
- 2, 3 or 4 pump drives



Series 59000

Series 56000

- Input torque (max.) – 2710 Nm
- Input or output speed (max.) – 2500 rpm
- Input power (max.) – 708 kW (950 hp)
- 2, 3, 4 or 5 pump drives

Series 57000

- Input torque (max.) – 2710 Nm
- Input or output speed (max.) – 2500 rpm
- Input power (max.) – 708 kW (950 hp)
- 4 pump pads



Series 57000

Affordably designed for increased durability and horsepower

- Five Models 2, 3 or 4 Speeds Forward and Reverse
- Power Range 100 HP to 200 HP
- 2 Wheel Drive and 4 Wheel Drive Versions



HMD 23000

- Input power (max.) – 75 kW (100 hp)

HMD 33000

- Input power (max.) – 101 kW (135 hp)

HMD 12700

- Input power (max.) – 104 kW (140 hp)

HS 17000

- Input power (max.) – 93 kW (125 hp)

HMD 18000

- Input power (max.) – 149 kW (200 hp)



HMD 18000

Broad selection ranges offering maximum application variety

FUNK offers eight basic models of planetary gear drives. Each series provides unique benefits that have been developed through years of design research and practical applications. Typical applications of FUNK planetary drives include conveyors, cranes, crawlers, excavators, road rollers, track vehicles, and winches in the agricultural, construction, industrial, marine, mining, and petroleum industries.



Planetary Gear Drives

- 8 models available
- Maximum input: Up to 325 hp (242 kW)
- Output torque intermittent: Up to 200,000 lb/ft (271160 Nm)
- Output torque continuous: Up to 105,000 lb/ft (142359 Nm)
- Ratio range: Starting at 3.27 to 117:1, Up to 158 to 309:1
- Available as radial mount, swing mount and track drive.



Models	F9	F12	F25	P25	P40	P65	P120	P200
Input HP	36	48	95	130	165	185	225	325



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Generalny przedstawiciel John Deere

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