

Powershift Transmissions

Funk Drivetrain Components



JOHN DEERE

Shift to reliable power over any terrain



The shifting is smooth, the service is exceptional



Reliable powershift transmissions

Your customers trust you to provide reliable, high-performance equipment with the most up-to-date components. We produce powershift transmissions that help you meet that need – and we do it with personal, attentive service, no matter what size your operation.

Our powershift transmissions are available in both torque-converter and direct-drive options, covering applications in ag, construction, forestry, mining, aircraft ground support, railroad maintenance, and other industries. Mounting options include engine, midship, and remote.

Funk™ powershift transmissions are built in one of the most advanced power transmission manufacturing facilities in the world. Our leading-edge technology means your OEM machines have smoother shifting, along with fingertip speed and directional

control. This enables the operator to get more production out of the machine, more quickly and with less effort.

Best of all, we still believe in personal service, so when you have a specialty order or other unique need, we respond. Our application engineering group will work closely with you, providing a detailed concept performance analysis of your vehicle. Knowing your vehicle’s expected performance beforehand will eliminate risks, such as costly and time-consuming redevelopment.

All models in the Funk powershift transmission line feature a high degree of parts interchangeability, minimizing your parts inventory.

Electronic or mechanical controls to fit your applications

Our 2000 powershift transmission series features mechanical/ electric controls, while our DF series employs an electronic control unit (ECU). The DF series can communicate with other parts of your equipment — including the engine — and includes neutral start protection, inching/clutch control, automatic or operator selective shifting, and more.



Powershift transmission specifications

Model	Input power	Max input no load speed	Max input torque	Mounting options	Gearings	Pump drive	Options
DF150	112 kW (150 hp)	3000 rpm	1288 Nm (950 lb-ft)	Engine, midship, or remote	Constant mesh, in-line, high-contact ratio ground gears; 8 forward, 4 reverse speeds	Full range of SAE mounting options	<ul style="list-style-type: none"> – Magnetic pulse generator for speedometer – Internal engine-side axle disconnect – Caliper and disc or integral spring-applied, pressure-released parking brake – Torque converter or direct drive
DF250	186 kW (250 hp)	2600 rpm	1898 Nm (1400 lb-ft)	Engine, midship, or remote	Constant mesh, in-line, high-contact ratio ground gears; 11 forward, 4 reverse speeds	Full range of SAE mounting options	<ul style="list-style-type: none"> – Magnetic pulse generator for speedometer – Internal engine-side axle disconnect – Caliper and disc or integral spring-applied, pressure-released parking brake – Torque converter or direct drive
2000 Series	168 kW (225 hp)	3000 rpm	1627 Nm (1200 lb-ft)	Engine, midship, or remote	Constant mesh, in-line, high-quality spur gears	Full range of SAE mounting options	<ul style="list-style-type: none"> – Single-lever operator controller (includes neutral start and reverse warning alarm switch) – Magnetic pulse generator for speedometer – Integral engine side axle disconnect – Integral no-spin differential – Disc parking brake – Converter lock-up

All specifications are subject to change.

DFR engine-mounted PTO

The front housing of our DF150 and DF250 products is our DFR engine-mounted PTO, which can also be purchased as a stand-alone product. The DFR mounts to the engine and can be used to power the transmission, as well as a variety of external equipment.

Ratings

- Max input power: 224 kW (300 hp)
- Max input no load speed: 3000 rpm

Engine housing

- SAE 2 or 3

Options

- Direct-drive or converter
- Dual pump drive pads with a variety of yoke and flange outputs



DF series powershift transmissions

The DF series brings the latest in electronic powershift technology to the off-road market

Electronic controls enable the transmission to recognize the operator's intentions, and to control the appropriate hydraulic valves, based on the customized software programmed into the controller. Choose from the DF150, DF250, and 2000 series, depending on your horsepower needs.

Proven off-highway performance

Your equipment deserves nothing less

Staying true to the John Deere commitment, Funk drivetrain components incorporate over 150 years of off-highway vehicle experience. Our continued promise is to provide you with an array of robust designs to meet your demanding OEM needs. When you choose a Funk powershift transmission, you know you are getting the best combination of performance, reliability, and durability.

Our application engineers are ready to assist you in selecting the options that best fit your needs. We also offer dedicated OEM service and long-term aftermarket support. To see the value we can add to your equipment, call us today at 1-800-533-6446.

The power of a worldwide support network

With John Deere, you never have far to go to find expert assistance and advice. The more than 4,000 service locations throughout the world give you peace of mind that you can get service when and where you need it.

Worldwide locations

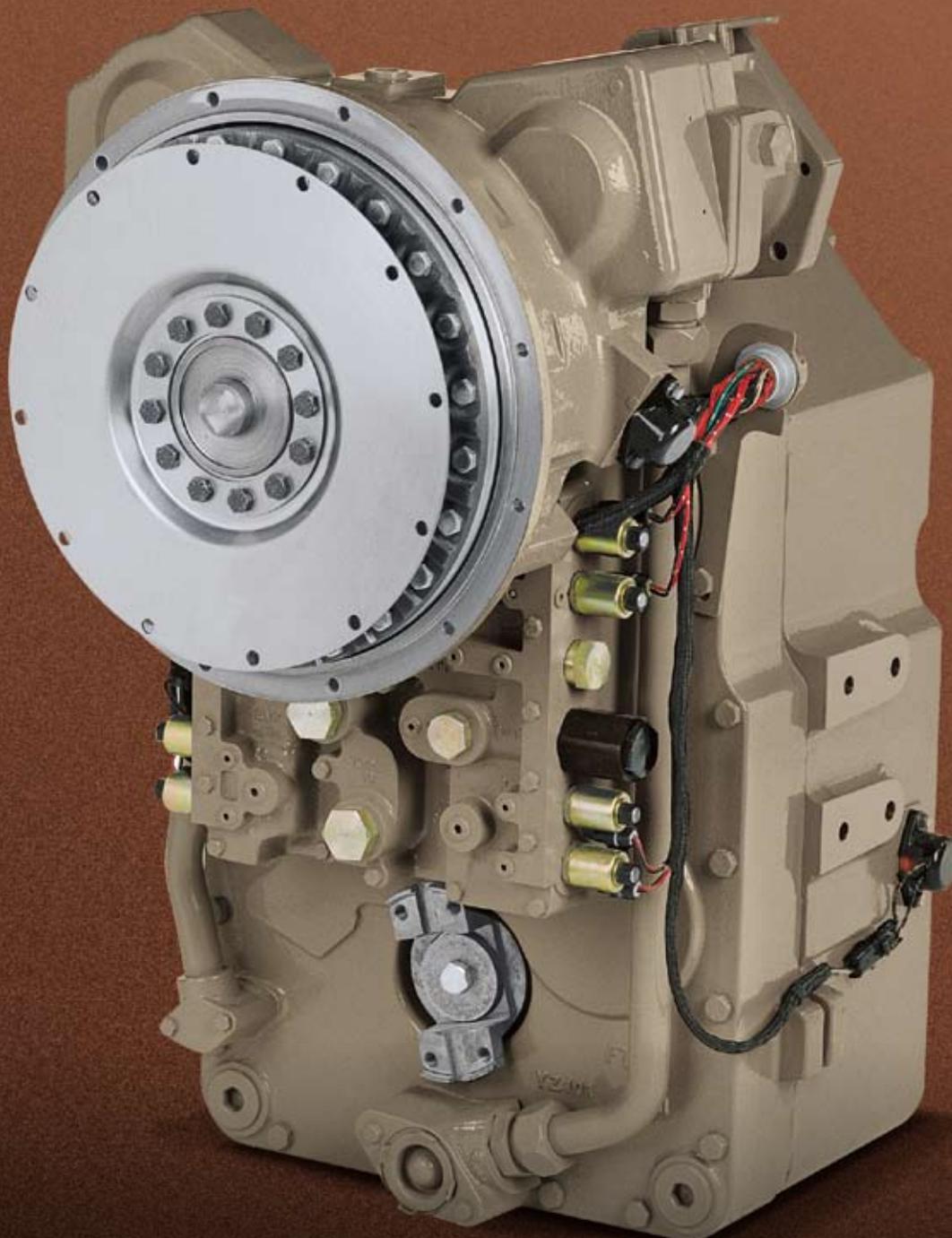
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