

Electric Drivetrain Components



JOHN DEERE

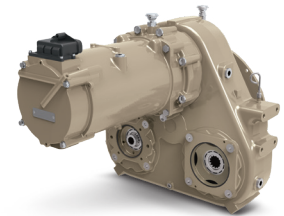
Off-highway electric powertrain experience

John Deere offers modular vehicle electrification solutions that integrate electrical generators and/or motors, power electronics, and mechanical drivetrain interfaces. With more than 1.5 million operating hours of proven performance in the field, John Deere electric drivetrain components are available in multiple configurations to help OEMs implement electric and hybrid drive systems in their off-highway applications.

- Seamless integration with John Deere engines, inverters, and drivetrain equipment
- Rugged components designed for high durability and reliability
- Modular configurations to fit a variety of applications

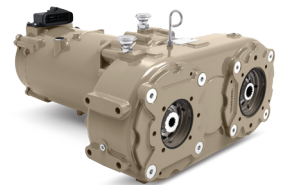
Generator/Hydraulic Pump Drive

| | |
|----------------------------|-----------------------------|
| Power generation rating | 100 – 200 kW (135 – 270 hp) |
| Hydraulic pump pad outputs | Up to 3 |



Electric Pump Drive

| | |
|----------------------------|-----------------------------|
| Power rating | 100 – 200 kW (135 – 270 hp) |
| Hydraulic pump pad outputs | Up to 3 |



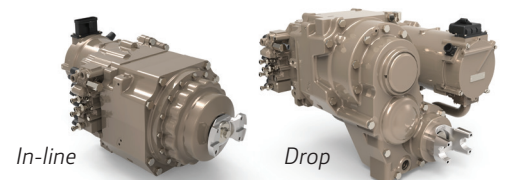
Electric Motor Drive – Single Speed

| | |
|---|----------------------|
| Power rating | 100 kW (135 hp) |
| Max output torque <i>Gear ratio dependent</i> | 4000 Nm (2950 lb-ft) |
| Max output speed <i>Gear ratio dependent</i> | 2400 rpm |



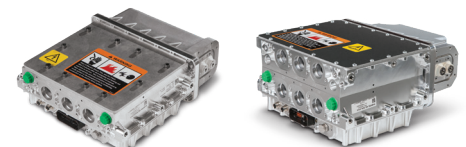
Electric Motor Drive – Three Speed

| | |
|-----------------------|-----------------------------|
| Power rating | 100 – 200 kW (135 – 270 hp) |
| Max output torque | 4200 Nm (3100 lb-ft) |
| Max output speed | 4500 rpm |
| Output configurations | In-line and 4WD drop |

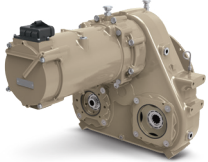







PD400 Power Inverters – Single or Dual Output

| | |
|---------------------------|--|
| Power rating | Configurations up to 450 kVA (750 VDC @ 600 Arms) |
| Continuous current rating | 400 Arms |
| Peak current rating | 600 Arms (duration managed by overload software feature) |
| High voltage bus | 180 – 750 VDC |



Electric drivetrain components family

| Power range | Power generation | Power conversion | | Power electronics |
|--------------------------------|---|---|--|---|
| | Generator/hydraulic pump drives | Electric pump drives | Transmissions | Inverters |
| 100 – 200 kW (135 – 270 hp) |  |  |  |  |
| 100 kW (135 hp) | | |  |  |

Proven off-highway performance

Your equipment deserves nothing less

With John Deere, you get a range of configurations and accessories so you can specify the right engine, drivetrain, and electronic system that best fit your application.

Our continued promise is to provide you with an array of robust designs to meet your demanding OEM needs.

When you choose John Deere power, 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 800-533-6446.

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