EMD-100-1

# Electric Motor Drive

## Off-highway electric powertrain experience

John Deere electric drivetrain components have more than one million hours of proven performance in the field. This new family of series-electric generator pump drives and traction drives offer a flexible, balanced, and scalable approach for electric drivetrain solutions.

- 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

### Single Speed Inline Gearbox

| | |
|---|---|
| Max output torque<br>Gear ratio dependent | 4000 Nm (2950 lb-ft) |
| Max output speed<br>Gear ratio dependent | 2400 rpm |
| Output flange | 7C yoke |
| Tow disconnect | Included |
| Approximate weight | 110 kg (243 lb) |
| Overall dimensions | 533 x 302 x 302 mm (21 x 12 x 12 in) |

### Interior Permanent Magnet (IPM) Motor

| | |
|---|---|
| Power Rating<br>@ 700 VDC | 100 kW (135 hp) |
| Lubrication flow required | 15 lpm (4 gpm) |
| Power electronics | John Deere PD400 Inverter (WEG cooled) |

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.

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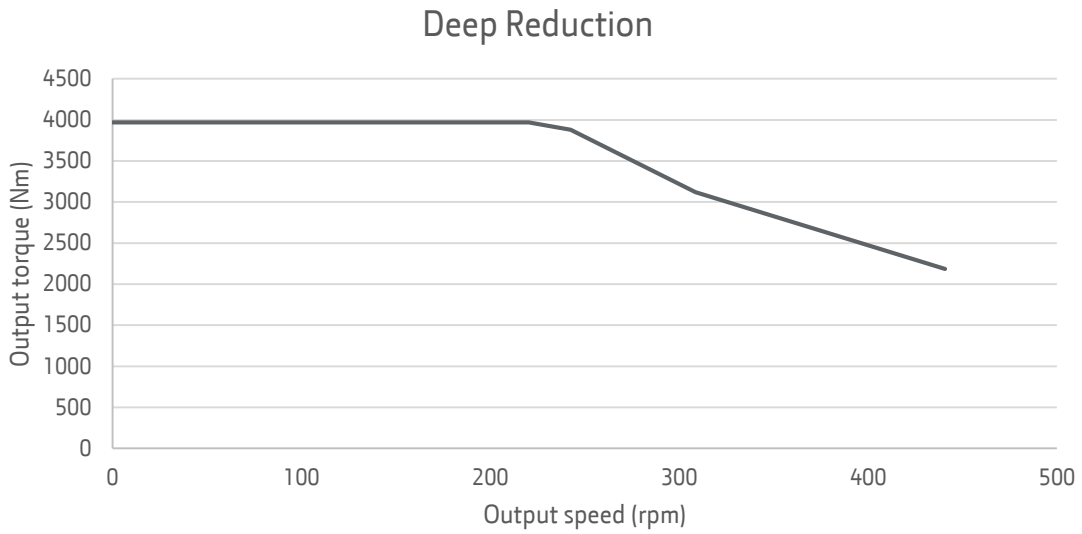
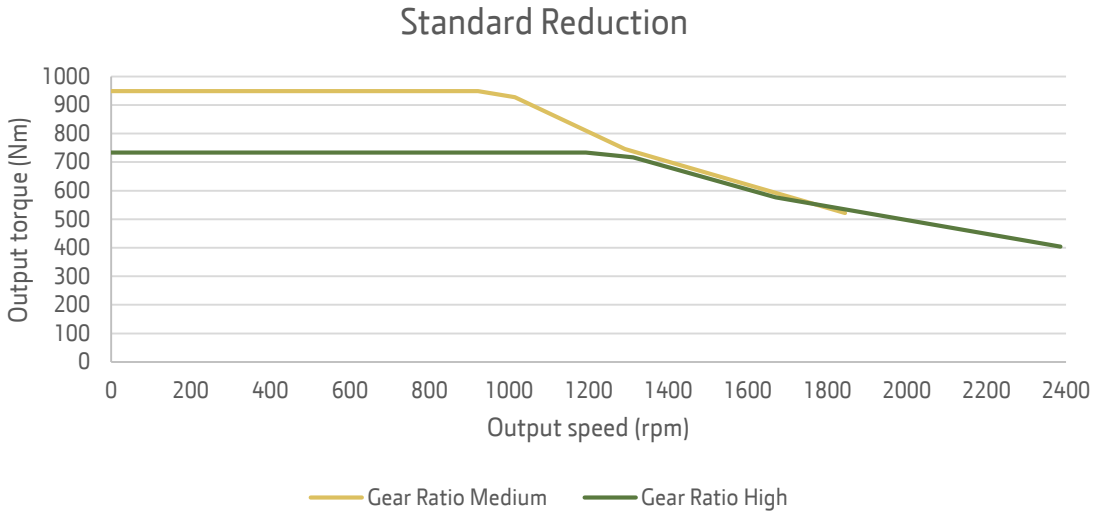
## Output performance

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