



MPP24 Right-Angle Gearmotor

MobilePower™ Series

Low Voltage - High Torque

MPP24 MobilePower™

RIGHT-ANGLE GEARMOTOR

ElectroCraft's MPP24 integrates a 4-pole Brushless DC motor with a very robust 2-stage right-angle worm gearbox, designed for industrial applications, adding industrial grade cabling plus encoder feedback options to support positioning capability. The MPP24 combines optimum performance with increased efficiency, reduced noise and longer-life.

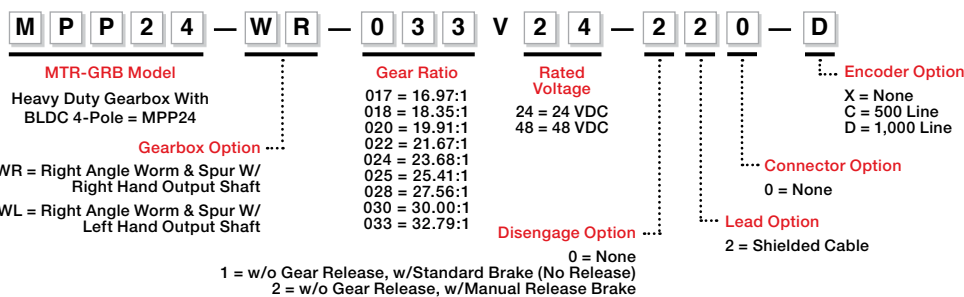
ElectroCraft MobilePower™ gearmotors feature an integrated design that provides increased performance and reliability at an affordable price compared to traditional motor/gearbox combinations. As with all ElectroCraft products, MobilePower™ gearmotors are customizable to meet specific application requirements.

Features:

- Smooth, efficient motion
- Durable and highly reliable integrated worm-gear design
 - Suitable for uneven terrain and curb-climbing
- High starting torque:
 - Peak starting torque up to 153.3Nm
 - 15-minute continuous torque up to 76.9Nm
- Configurable or completely customizable designs
 - Motor, gearbox, brake, encoder, cabling

Typical applications:

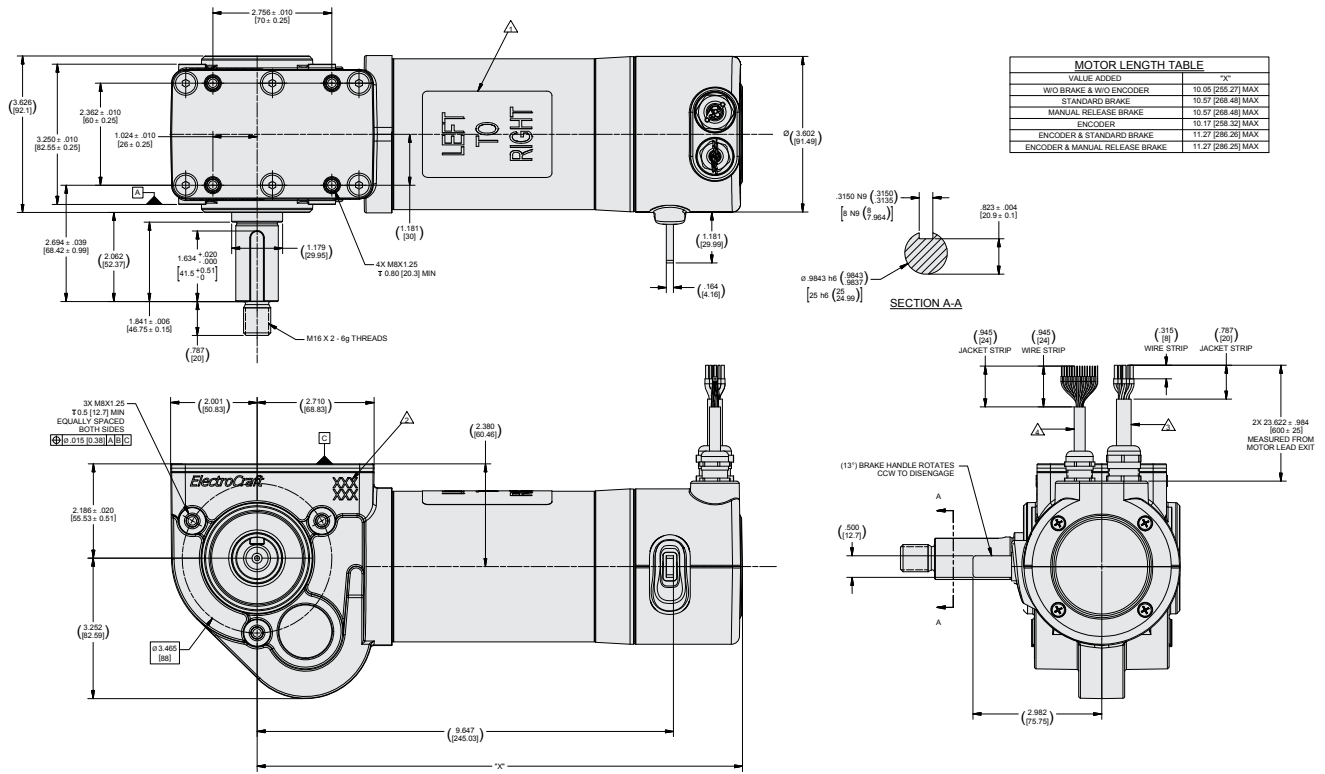
- Industrial traction applications
- Industrial lifts
- Automated Guided Vehicles
- Autonomous Mobile Robots



MPP24 ElectroCraft MobilePower™

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MPP24 Mechanical / Winding Data

Gear Ratio	32.79:1	30.00:1	27.56:1	25.41:1	23.68:1	21.67:1	19.91:1	18.35:1	16.97:1
Operating Voltage (VDC)	24								
No Load Speed (RPM)	113	123	134	145	156	170	185	201	217
Peak Torque (Nm)	153.33	140.28	128.87	118.82	110.73	101.33	93.10	85.81	79.35
Peak Current (Amps)	100								
Peak Power (Watts)	651								
S2 Torque (15 min) (Nm)	76.85	70.31	64.59	59.55	55.50	50.79	46.66	43.00	39.77
S2 Current (15 min) (Amps)	30								
S2 Power (15 min) (Watts)	573								
S1 Torque (Continuous) (Nm)	28.23	25.83	23.72	21.87	20.38	18.65	17.14	15.80	14.61
S1 Current (Continuous) (Amps)	12.0								
S1 Power (Continuous) (Watts)	283								
Torque Constant (Nm/A)	0.0585								
Voltage Constant (V/KRPM)	6.12								
Motor Inertia (Armature) (kg.mm ²)	279.158								
Motor Winding Resistance (Ohms)	0.066								
Motor Winding Inductance (μH)	370								
Motor Max Winding Temp (°C)	155								
Motor Poles	4								
Motor Mass (kg)	8.35								

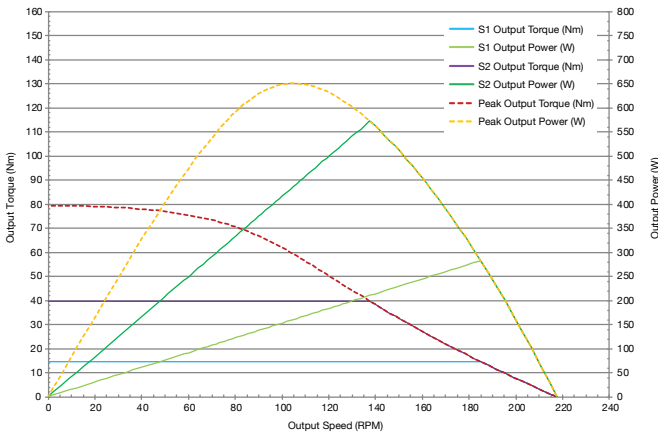
Notes:

Gear Motor specifications (torque, current, power) are reference values based on 25°C operating temperature. Do not apply maximum current for more than 5 seconds or more than twice without 10 minutes between cycles

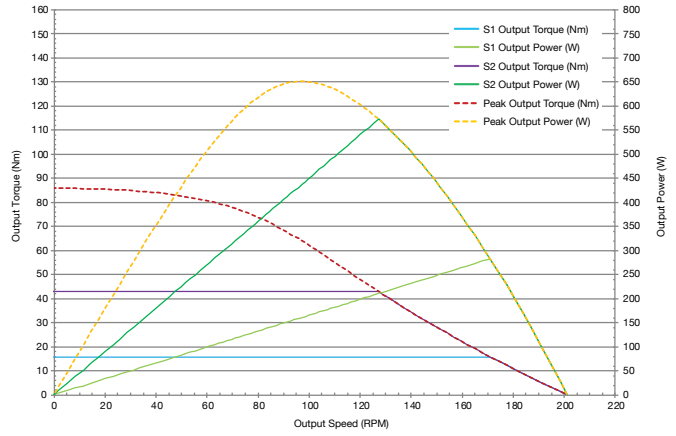


MPP24 Motor Performance

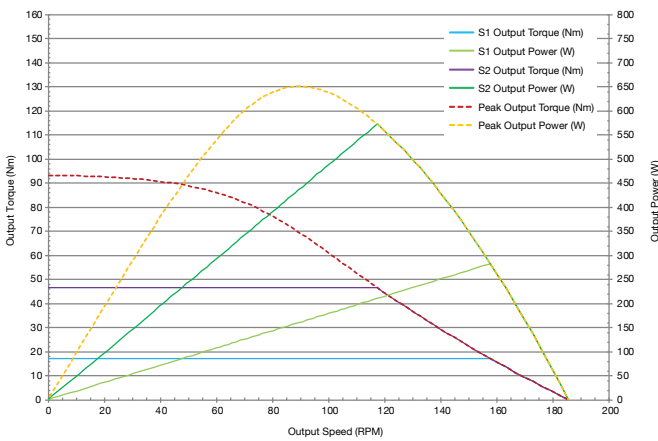
17:1 Ratio



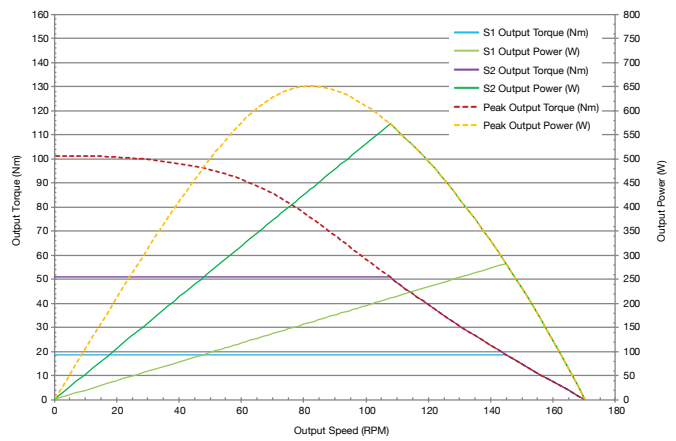
18:1 Ratio



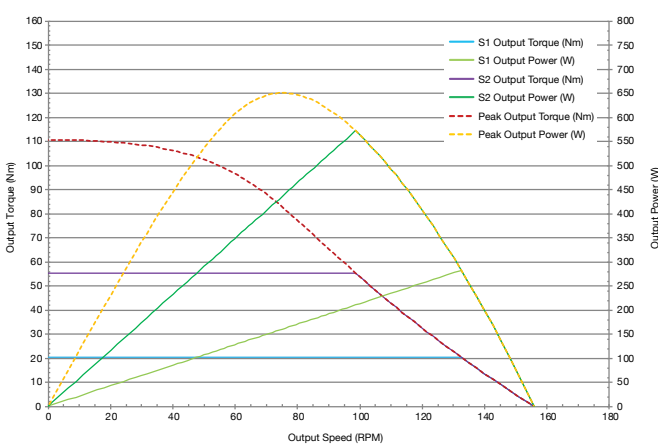
20:1 Ratio



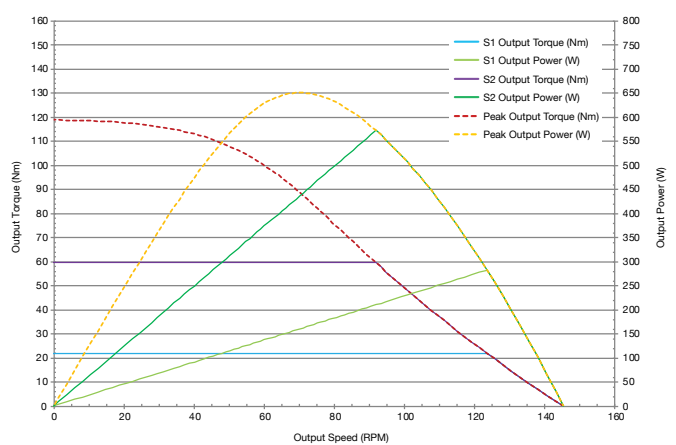
22:1 Ratio



24:1 Ratio



25:1 Ratio



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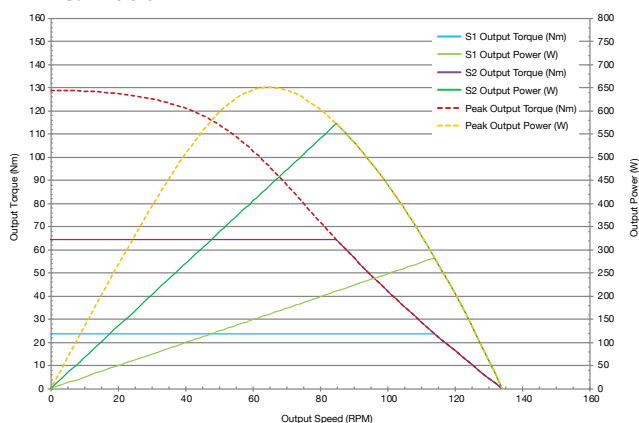
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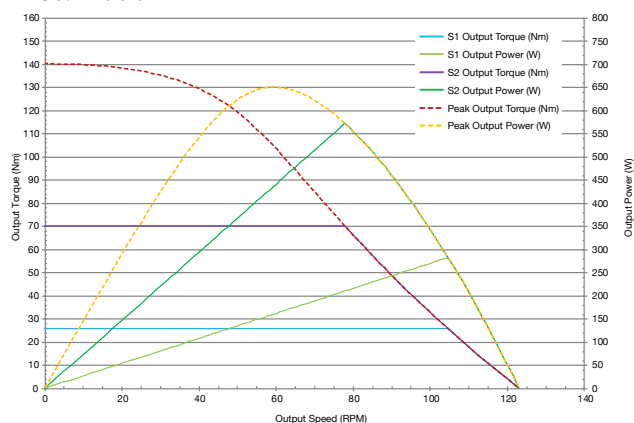
Email: sales@electrocrafter.com
www.electrocrafter.com

MPP24 Motor Performance Cont.

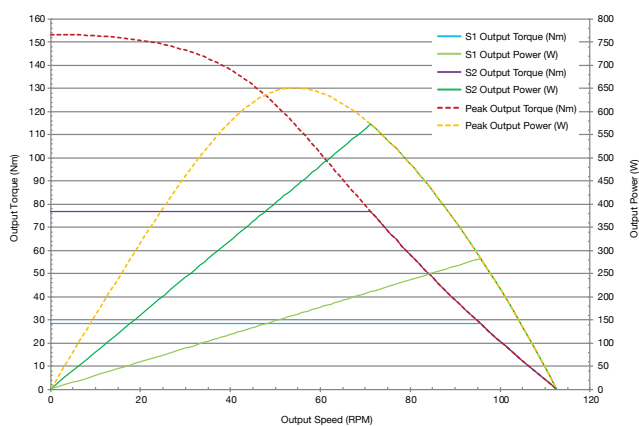
28:1 Ratio



30:1 Ratio



33:1 Ratio



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