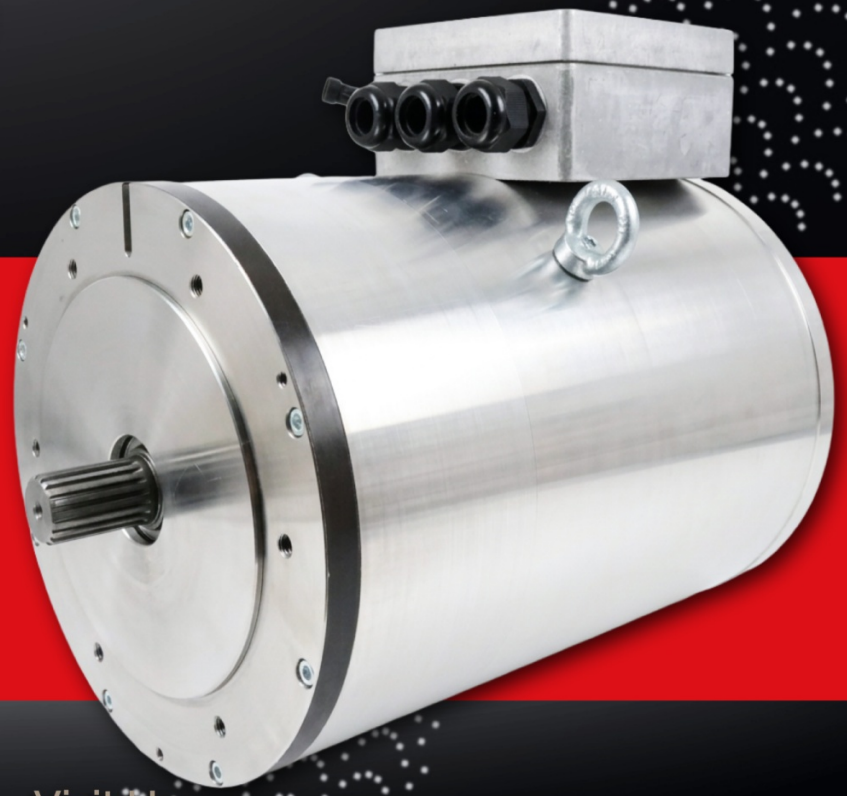
NetGain Motors, Inc.

HyPer 13™

Specifications

Performance & Dimensions



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HyPer 13™

NetGain Motors, Inc.

The HyPer 13™ is NetGain Motors' highest-torque motor, built for heavy applications requiring the strongest pulling power. It is made for hauling loads and quick acceleration in work trucks. This motor is also ideal for non-planing (displacement) vessels, and off-highway equipment, often without the need for a multi-speed gearbox.

Operating on a low-voltage battery pack, it avoids the cost and safety requirements of high-voltage systems. Its air-cooled design also eliminates pumps, hoses, and radiators for a straightforward installation.



POWER

- Voltage: **80-144V Nominal**
- Current: **370-700 Arms**
- Peak Efficiency: **95%**
- S2-1min Power: **88 kW**
- S2-60min Power: **55 kW**
- Max Speed: **6,000 RPM**
- Torque Peak: **515 lbs.-ft.**

SIZE

- Motor Diameter: **12.83 in**
- Motor Length: **17.16 in**
- Motor Weight: **400 lbs.**
- Shaft: **DIN 5482 38mm 19T**
- DE Mounting:
  - **6x M12 265mm BC**
- EE Mounting:
  - **4x M12 300mm BC**

FEATURES

- Type: **SRIPM**
- Insulation: **Class H**
- Position Sensor:
  - **Magnetic Sin/Cos**
- Recommended Software:
  - **SmartView**
- Protection: **IP66**
- Delivery: **From Stock**

LIGHT TRUCK

Stop-and-go delivery vehicles, service trucks, and 4x4 trail crawlers that require instant pulling power on steep grades.



MARINE

Similar to traditional marine diesels engines with its low-speed thrust and immediate reversing ability without a reduction gearbox.



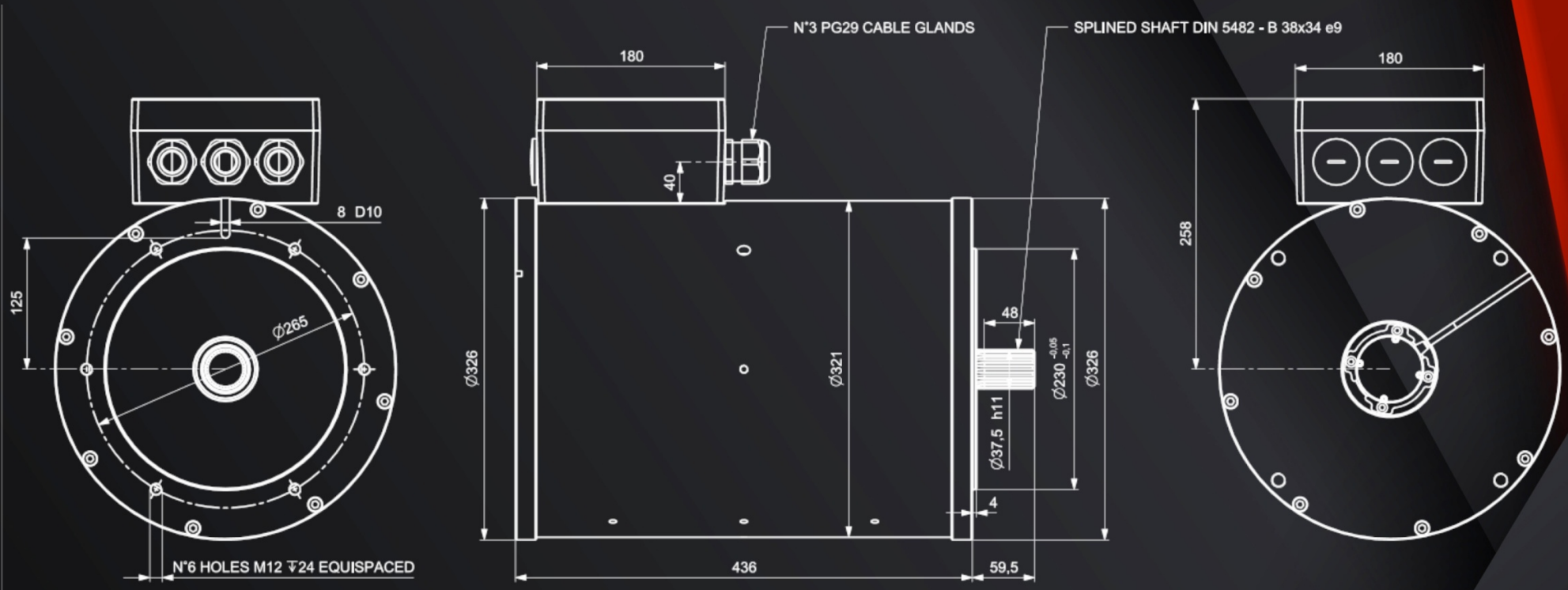
EQUIPMENT

Skid steers, orchard tractors, mining carts, and aircraft tugs demanding extreme low-speed tractive force and shaft durability.



HyPer 13™ OUTLINE

NetGain Motors, Inc.



DIN 5482 SPLINE DATA - 38x34											
PROFILE	HUB MAJOR DIA (d1)	HUB MINOR DIA (d2)	SHAFT MAJOR DIA (d3)	SHAFT MINOR DIA (d4)	PITCH DIA (d5)	TEETH (z)	MODULE (M)	TOOTH / SPACE WIDTH (lw - sw)	HUB ROOT RADIUS (r1)	SHAFT ROOT RADIUS (r2)	CHAMFER (k)
38x34	38 MM	34 MM	37.5 MM	33.5 MM	36.1 MM	19	1.9 MM	2.985 MM	0.15 MM	0.25 MM	0.3 MM

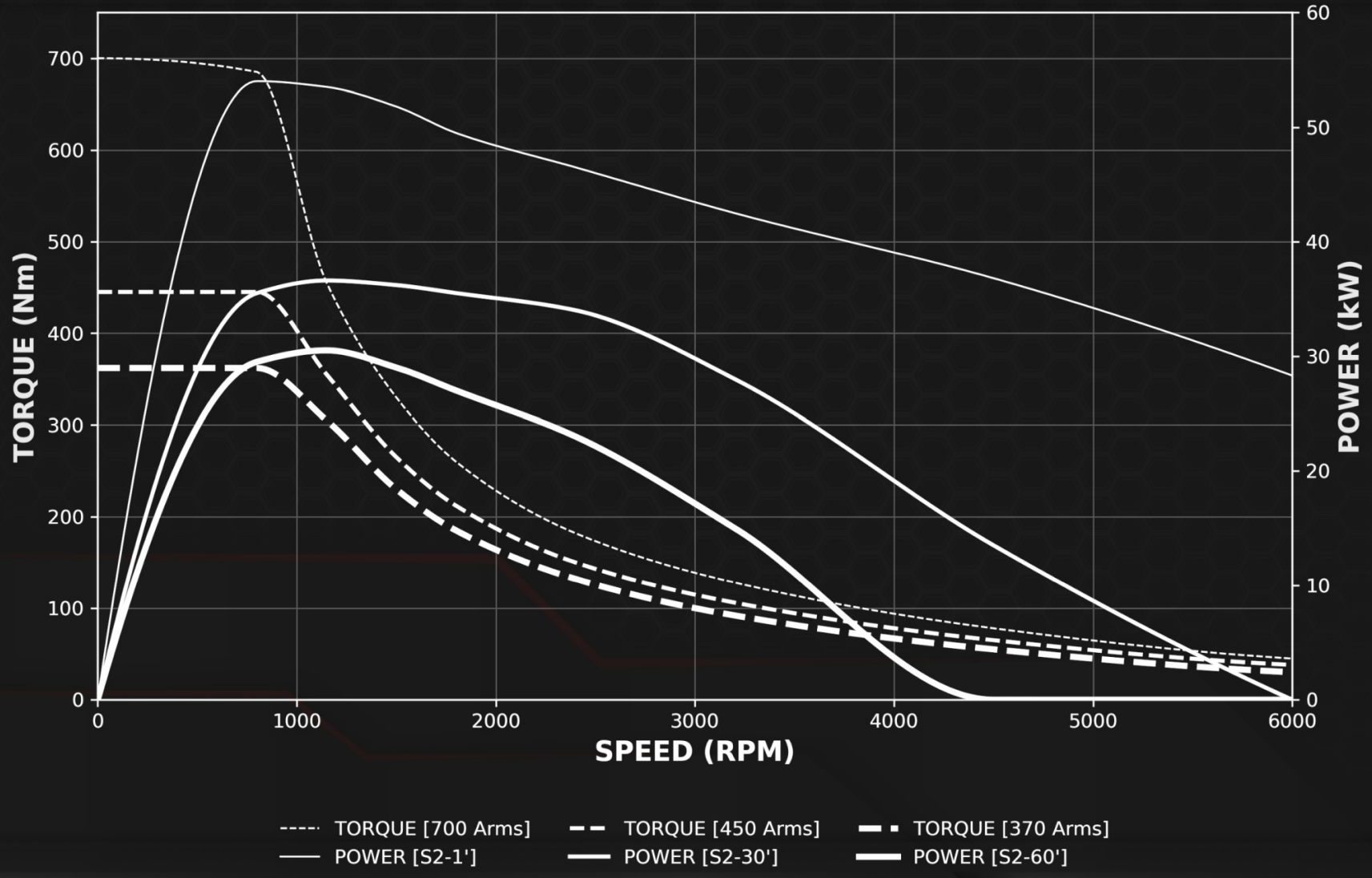
PERFORMANCE CURVES

80V

NetGain Motors, Inc.

HyPer 13™ - 80Vdc Power Curves*

*Curves are simulated considering stand-alone motor (no coupling flange), natural convection cooling and ambient temperature = 40°C

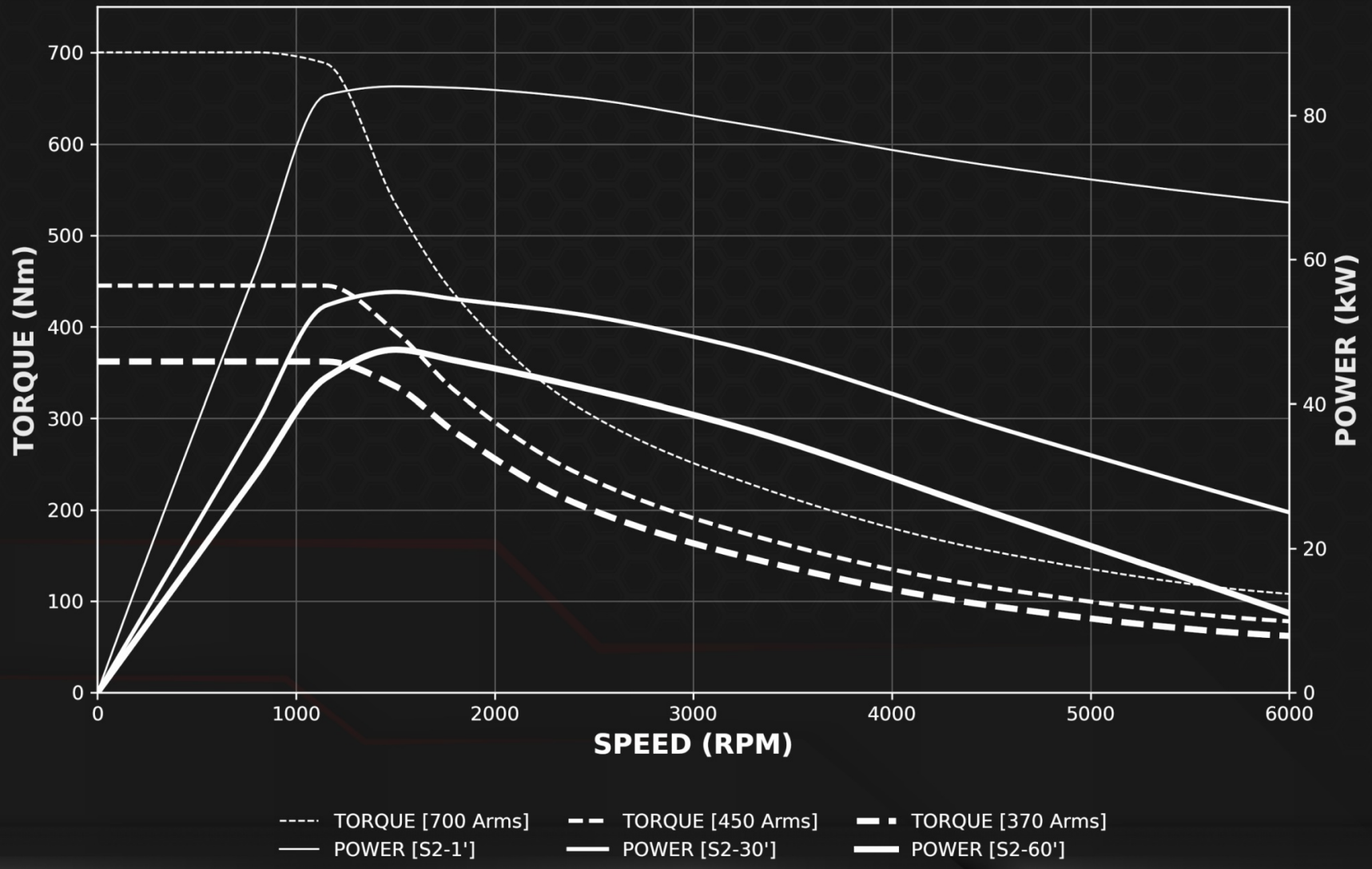


120V

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HyPer 13™ - 120Vdc Power Curves*

*Curves are simulated considering stand-alone motor (no coupling flange), natural convection cooling and ambient temperature = 40°C



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HyPer 13™



FOR MAXIMUM TORQUE