

Autonomous Electric Power Steering

EPAS500 MGU with Autonomous Control

DCE is the market leader in providing Electric Power Steering, with a range of solutions available. Our EPAS500M19 system is suitable for medium sized vehicles requiring manned or autonomous operation.

- Ideal for small, 12V DC vehicles with no existing power steering system fitted.
- MGU (Motor Gearbox Unit) is fitted anywhere in line between the steering wheel and rack input pinion.
- Input shaft allows manual control as well as autonomous control.
- System can provide up to 90Nm / 66ft.lb of steering column torque.
- CAN Bus control using one of the three following options:
 - Sending a simulated torque sensor signal.
 - Sending a +/- duty cycle demand for direct control of the EPAS motor.
 - Sending heading and gain request for the EPAS motor to steer to.



Parts required include:

- 1x EPAS500M19 MGU
- 1x EPAS18A Autonomous ECU
- 1x EPAS19 Wiring Harness
- 1x PNU0097 Steering Angle Sensor

Technical Specification and Contact Details overleaf

EPAS500 MGU with Autonomous Control

Technical Specification

Operating Voltage	Nominal 13.8V DC
Maximum current draw	80 Amps
System Weight (MGU & ECU)	7.1kg / 15.65lbs
Maximum Torque Output	90NM / 66ft lb.
No Load Rotation Speed	650 degrees per second
IP Rating	IP67
Operating Temperature	-40 to 85°C / -40 to 185°F
Motor Rated Power	400 Watt
MGU Input Spline Pattern	17mm-36 (11/16" x 36)
MGU Output Spline Pattern	21.16mm x 20mm

Optional Accessories

EPAS200SC (Input Only)	Microsteer Straight Coupler
EPAS200UJ (Input Only)	Microsteer Universal Joint
EPAS500SC (Output Only)	Output Straight Coupler
EPAS500UJ (Output Only)	Output Universal Joint



Contact us for more details:

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