

Autonomous Electric Power Steering

Microsteer MGU with Autonomous Control

DCE is the market leader in providing Electric Power Steering, with a range of solutions available. For many applications we can provide our smallest MGU (motor gearbox unit) with an autonomous controller.

- Used on vehicles that still utilize hydraulic power steering and require autonomous & manned control.
- Ideal for 12V DC, very low steering input load vehicles.
- MGU 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 37Nm / 27 ft.lbs 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 EPAS200M19 MGU
- 1x EPAS18A Autonomous ECU
- 1x EPAS19 Wiring Harness
- 1x PNU0097 Steering Angle Sensor

Technical Specification and Contact Details overleaf

Microsteer MGU with Autonomous Control

Technical Specification

Operating Voltage	Nominal 13.8V DC
Maximum current draw	80 Amps
System Weight (MGU & ECU)	4.8kg / 10.58lbs
Maximum Torque Output	37NM / 27 ft.lb.
No Load Rotation Speed	860 degrees per second
IP Rating	IP67
Operating Temperature	-40 to 85°C / -40 to 185°F
Motor Rated Power	220 Watt
Input / Output Spline Pattern	17mm-36 (11/16" x 36)

Optional Accessories

EPAS200SC	Microsteer Straight Coupler
EPAS200UJ	Microsteer Universal Joint



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