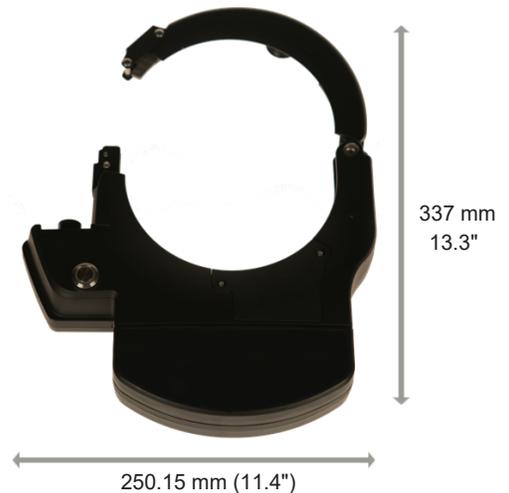




FLEXIBLE MECHANICAL DRIVE UNIT™

FLEXIBLE, DUST AND WATER RESISTANT Autosteering solution for most vehicles in the market

The AgJunction Flexible Mechanical Drive Unit™ - Gen 5 (MDU-G5 FLEX™) is a high-precision and cost-effective autosteering system designed to be easily moved between vehicles.



✓ EASY TO INTEGRATE

- Vehicle kits to reduce time to market
- Simple setup

✓ COMPATIBILITY

- Compatible with a wide selection of brands in the market
- In combination with ECU-S1:
 - Autosteering controls
 - NMEA 0183 compliance
 - CAPI interface – terminal applications support
 - CAN support

✓ RUGGED DESIGN

- Designed for agricultural use, dust and water resistant - IP67 rated

✓ RELIABLE PERFORMANCE

- The MDU-G5 FLEX™ design allows for flexibility of use in multiple vehicles (easy to move around)
- Delivers great performance and precision for most vehicles in the market

AGJUNCTION FLEXIBLE MECHANICAL DRIVE UNIT™ - GEN 5

MDU-G5 FLEX™ MAIN SYSTEM COMPONENTS	
Chassis	
Link Plug-in	
Main Harness	
Power Harness	
Switch Kit	
ECU-S1 with cable harness	
Vehicle Fit Kit	

ELECTRICAL	
Supply Voltage	9 to 16V
Certification Mark	EN60950 x, FCC, Industry Canada, RoHS, C-Tick, CE
Over-Voltage Protection	Yes, 19.5 V trip
Reverse Polarity Protection	Yes, function built-in
Short Circuit Protection	Yes, function built-in
Cranking / Load Dump Protect.	Yes, function built-in
Power Interruption	Yes, function built-in
ESD Protection	Yes, function built-in
Radiated Emissions / Conducted Emissions	FCC Part 15 Class A, EN55022 Class A
RF Immunity	EN61000-6-2, FCC Part 15 Class A

MECHANICAL	
Operating Temp	-20°C to 65°C (-4°F to 149°F)
Storage Temp	-40°C to 85°C (-40°F to 185°F)
Dust/Water Rating	IP67- Suitable for cabless vehicles

INPUTS/OUTPUTS	
Communication	ISO11898 - compliant (CAN) connectivity
Inputs	Designed for use with ECU-S1

PHYSICAL	
Housing	Die cast aluminum and polymer case with UV protection
Connector	Amphenol RTS712 Series
LEDs	Power status and error LEDs integrated in power switch
Switches	Push-button power switch integrated in chassis
Weight	7.0 lbs / 3.17 kg
Dimensions	250.15 mm x 337 mm x 103 mm (11.4" x 13.3" x 4.06")
Max Power	45 Watts
Idle Power	3.0 Watts
Stall Torque	20 lbs-in / 2.27 N-m
Max Vehicle Speed	32 Kph / 20 mph - Using AgJunction's ECU-S1 Controller

VEHICLE SUPPORT & COMPONENT REQUIREMENTS	
Vehicle Support	The MDU-G5 Flex currently supports MFWD Tractors. AgJunction continuously expands its platform compatibility. Contact us for special platform development requests
ECU	AgJunction ECU-S1 Controller
Vehicle Kit	Specific Vehicle Fit Kit
GNSS Signal Compatibility	10HZ, NMEA 0183
Terminal Compatibility	CAPI and QT CAPI Integration

FIELD APPLICATIONS	
Suggested Field Applications When Using "Sub-Meter" Correction Signal	Tillage, Broad-acre chemical/fertilizer application (broadcast fertilizer spreading and spraying)
Suggested Field Applications When Using "Decimeter" Correction Signal	Tillage, Planting, Fertilizer Side Dressing, Post-Emerge Spraying, Broad-acre Chemical/Fertilizer Application, and Harvest
Suggested Field Applications When Using "Centimeter" Correction Signal	Strip Till, Sugar Cane Strip Till, Planting, Row-Crop Planting, Fertilizer Side dressing, Post-Emerge Spraying, Repeatable Section Control, Drip Tape Irrigation, Controlled Traffic, and Harvest

WHY AGJUNCTION?

AgJunction is a leading provider for intelligent automated solutions in the off-road vehicle market. AgJunction was founded in 1990 to pioneer precision guidance and autosteering. We hold over 200 patents and patents pending in the US, Canada, Europe, South America and Australia. Our technologies are critical components to some of the world's leading precision Ag manufacturers and suppliers. Our flexible solutions provide the ability to integrate seamlessly with customer functionality.

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