

Multi-Stix™ Series

Proportional plow control systems

Certified Power
SOLUTIONS®

Fully proportional capabilities with precision multi-function joysticks

The Multi-Stix™ series from Certified Power Solutions brings you precision proportional plow control amplified with function and power. Offering multiple joystick options, Multi-Stix helps provide meticulous operations in three configurations with fully proportional capabilities and multi-function control. Multi-Stix configurations additionally provide the ability to individually program the speed of each direction of motion without changing wiring or making hydraulic modifications by utilizing Certified Power Solutions Mako™ software.

Multi-Stix™ Series

- Multi-Stix 216, 320 and 420 models
- Fully proportional, 1 or 2 axis joysticks
- Multi-function control on any joystick
- Selectable safety triggers
- Hoist, wing or blade lock and limits available
- Controls up to 6 devices
- Control up to 20 proportional channels on multiple joysticks
- Easy capability upgrade options with Mako electronics platform
- Configurable for snow and ice patrol, garbage and leaf collection trucks



Multi-Stix 216



Multi-Stix 320



Multi-Stix 420 joystick shown mounted on an Armadillo Arm Unit with SpreadSmart Rx™ controller



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Multi-Stix™ Series

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Product Summary

- Multiple joysticks for proportional control of hydraulic devices (e.g., hoist, plow, wing)
- Utilizes Mako Trim™, a Windows® compatible program to set the speed of each direction of motion individually without wiring or hydraulic modifications

Product Application

- Multiple vehicle types (patrol trucks for snow/ice, garbage, leaf collection)
- Control of each hydraulic function on an individual joystick

Device and Signal Capacity

- MS 216 up to 4 devices; 16 independent PWM channels
- MS 320 up to 6 devices; 20 independent PWM channels
- MS 420 up to 8 devices; 20 independent PWM channels
- Frequency settable from 40–450 Hz

Joystick Button

- IP 68 top switch for safety interlock (hoist) or second mode actuation

Axis and Range of Joystick Motion

- 1 or 2 axes of joystick motion: X & Y
- 27 degrees of motion available in each axis

Joystick Signal

- True Hall effect (magnetic) joystick with no mechanical contacts

Joystick Self Test Diagnostics with CAN Bus

- Mako uses CAN bus for a self test of the joystick during power cycle
- SafeStik™ automatically disables the axis if an axis fails during use
- Joystick diagnostics for each axis of motion is visible on LED
- Channel Safe™ detects and protects against open or short circuits in hydraulic drive channels

Combo-up (Panic) Button

- Momentary button trigger for parking of up to 6 devices

Float Functions

- User settable float controls for plow, wing toe, wing heel and blade

Plow Control Interlocked Features

- Hoist lock, hoist limit, plow, wing and blade lock (requires external sensor, key or switch)

Electronic Backpack

- Mako multiplexed on CAN bus and CPS bus

System Controller

- Mako Trim works on any Windows® 2000 or newer computer, software included
- Field-configurable buttons and function names

System Mounting

- Seat or pedestal mounted

Warning Indicators

- Up to 8 labeled and colored indicators integrated into the joystick housing

Optional Equipment

- Uni-Grip™ control of plow float and Moray™ system

Operating Temperature Range

- Minimum: -20 degrees Celsius
- Maximum: 70 degrees Celsius

Power Requirements

- Min: 11 Volts DC
- Max: 15 Volts DC
- Max: 10 Amps
- Internal fuse rated at 10 Amps

FleetPilot™
BY CERTIFIED POWER



YOUR FLEET, YOUR WAY. FleetPilot by Certified Power combines equipment controls, hydraulics, and telematics in one adaptable platform. Built for precision and growth, it easily scales from one vehicle to a full fleet and supports everything from routine work to critical operations.

Explore your options at fleetpilot.com.

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