

## Compu-Spread CS-106-XL Multiple Joystick Control Console

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- ▶ Joystick console series CS-106-XL-3, with three 2 and/or 3 axis joysticks, 12 auxiliary device switches, valve solenoid trim switch and actuator stow mode switch, for the control of multiple functions on plow truck systems.

The Rexroth CS-106-XL joystick console is an ergonomically designed operator interface for the direct control of multiple hydraulic actuators, typically cylinders, on Snow & Ice Control vehicles. The console of single axis paddle or single/multi-axis joysticks can be configured to control up to seven double-acting proportional or on/off solenoid valves. Hydraulic valve nulling and trimming are easily done with the on-board rocker and key switch, facilitated by an integral indicator. The controller permits simple configuration of a “park” or stow mode—useful also as an emergency setting—of the actuators being controlled, triggered by a single console button.

This series is available in double or triple joystick (single, double or triple axis) versions. Up to 12 rocker switches can be fitted, 6 of which could be located under the hinged padded armrest.

The CS-106-XL console is compact, ideal for installation in vehicle cabs which may not have sufficient space for conventional valve operators. Cab perforations are minimized and installation time is greatly reduced—since no “line of sight is required”—thanks to the pre-configured

compact electrical cable harnesses.

The CS-106-XL is ideally matched with the Rexroth family of spreader controllers, designed for spinner, conveyor and liquid regulation as well as multi-function devices.

### CS-106-XL Joystick & Console features

- Low profile Hall effect joysticks (various configurations) require limited movement and low operating force
- Integrated push-button interlock for additional safety
- Many configurable functions e.g. low oil & PTO control
- Illuminated console legends for paddle joystick identification
- New contoured rocker switches feature LED illuminated laser-etched symbols, IP 68, different colors available
- Wiring harnesses have integral molded diagnostic LEDs
- RAM bracket for direct spreader control attachment

# Compu-Spread CS-106-XL Multiple Joystick Control Console

## Technical Data

### General

<b>Enclosure Material</b>	Steel, black powder coated, with black anodized aluminum faceplate	
<b>Mechanical Mounting</b>	1-1/2" Ø post bracket; PEM studs for front or side RAM bracket mount (for spreader control)	
<b>Console Assembly</b>	<b>CS-106-XL-2J</b> (2 joysticks)	<b>CS-106-XL-3J</b> (3 joysticks)
<b>Envelope LxWxH</b> (includes mounting post)	17.4" x 6.1" x 12.1" (440 x 155 x 307 mm)	17.4" x 9.9" x 12.1" (440 x 251 x 307 mm)
<b>Weight</b>		

### Joystick

<b>Mechanical (for X, Y axes)</b>	Break-out force:	1.8N (0.4 lbf)	Expected life:	10 million cycles
	Operating force:	3.5N (0.75 lbf)	Material:	Glass filled nylon
	Maximum applied force:	450 N (100 lbf)	Lever action:	Spring centring
	Mechanical angle of movement	40°		
<b>Mechanical (for Z axis)</b>	Break-out torque:	0.09 Nm (0.80 lbf-in)	Hand mechanical angle:	80° (40° from centre)
	Operating torque:	0.121 Nm (1.07 lbf-in)	Handle action:	spring centring
	Max. allowable torque:	0.150 Nm (1.33 lbf-in)	Expected life:	10 million cycles

### Electrical

<b>Power Supply</b>	8-32 VDC, console fitted with 10 A input fuse
<b>Solenoid Voltage</b>	12 VDC (24 VDC on request)
<b>Auxiliary Switches (6, 9 or 12)</b>	5 A; 2 or 3 position contoured rocker, latched or spring return; illuminated custom legend text
<b>Joystick</b>	Up to 14 x (7 x double acting) proportional outputs 1.8 A max each (3.5 A max. on request, depending on model); full coil suppression on joystick outputs
<b>Electromagnetic Compatibility</b>	100v/m load dump ISO7637-2 (2004) pulse 5
<b>RF Immunity</b>	ISO 11452-2 400-1000 MHz, 80% mod. 1 kHz
<b>Conducted Immunity</b>	ISO 7637-2 (2004) System Pulse 1, 2a, 2b, 3b, 4
<b>RF Emissions</b>	CISPR 25:2002-08 30 MHz-1GHz acc. to 72/245/EC EN 55025
<b>Electrostatic Discharge</b>	EN 6100-4-2 ISO 10605 Contact ± 8kv, air discharge ± 15kv

### Environmental

<b>Operating Temperature</b>	-22° to 185°F; -30° to 85°C
<b>Storage Temperature</b>	-40° to 185°F; -40° to 85°C
<b>UV Resistance</b>	DIN 75220
<b>Media Resistance</b>	ISO 16750-5
<b>Protection Category</b>	IEC 60529 IP63



Multiple joystick console CS-106XL-2J



Multiple joystick console CS-106XL-3J

Bosch Rexroth Canada  
 490 Prince Charles Drive S.  
 Welland, ON L3B 5X7  
 tel. +1 905 735 0510  
 toll free +1 877 COMPU11  
 info@boschrexroth.ca  
 www.boschrexroth.ca/cs

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