

# Compu-Spread CS-150RC

## Standalone Single 3-Axis Joystick Controller

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- ▶ **Single 3-axis multi-mode joystick console for manual control of multiple hydraulic actuators, as are used in Snow and Ice Control**

The Rexroth CS-150 RC joystick console is an ergonomically designed operator interface for the control of multiple hydraulic actuators, typically cylinders, on Snow and Ice Control vehicles. The full CANbus architecture facilitates connection of the console to the robust Rexroth BODAS controller, which in turn drives the system hydraulic valves and other devices.

Using the selector push buttons up to 4 control modes are possible, multiplying the number of controllable channels of the heavy duty 3-axis joystick (up/down, left/right, twist L/R). Inadvertent actuator movement is prevented by virtue of the integral dead-man switch.

The joystick is fitted into a slim profile console for easy installation in tight cab spaces. The console allows installation of up to 12 auxiliary rocker switches for lighting, warning and other valve functions.



- ▶ **CS-150 RC nulling pendant**

Hydraulic valve nulling and trimming are easily done with the joysticks and a console switch, or with the optional nulling pendant.

### CS-150 Joystick & console features

- Hall effect joystick with integrated CANbus output
- Standard Scraper Auto-raise function when vehicle transmission goes into reverse
- Low Oil and Hoist Limit override are selectable
- All functions are configurable
- Remote Pause/Blast/Spinner reverse possible
- 2 power float functions are supported
- Valve trimming and nulling can also be done with a separate control box (optional), which is then set aside
- Joystick handle fitted with 6 momentary snap-action selector switches and 1 index switch (dead-man)
- Fitted with function label to indicate button names
- Light-up joystick buttons indicate function/mode selected
- Wiring harnesses have integral moulded diagnostic LEDs

## Technical Data

Joystick				
<b>Mechanical (for X, Y axes)</b>	<b>Break-out force:</b>	7.7 N (1.7 lbf)	Expected life:	10 million cycles
	<b>Operating force:</b>	14 N (3.1 lbf)	Material:	Glass filled nylon
	<b>Maximum applied force:</b>	1000 N (225 lbf)	Lever action:	Spring centring
	<b>Mechanical angle of movement</b>	38°		
<b>Mechanical (for Z axis)</b>	<b>Break-out torque:</b>	0.6 Nm (5.31 lbf-in)	Hand mechanical angle:	42°
	<b>Operating torque:</b>	1.1 Nm (9.74 lbf-in)	Handle action:	spring centring
	<b>Max. allowable torque:</b>	24.5 Nm (216.8 lbf-in)	Expected life:	10 million cycles
<b>Sealing (IP)</b>		IP 65		
<b>EMC Immunity Level (V/M)</b>		IEC 61000-4-8: 2009		
<b>EMC Emissions Level</b>		IEC 61000-4-3: 2006		
<b>ESD</b>		IEC 61000-4-2: 2008		

## CS-150RC System Electrical & Environmental Specifications

<b>Supply Voltage</b>		9-32 VDC
<b>Outputs</b>	<b>Proportional outputs</b>	12 channels
	<b>Digital Outputs</b>	4 channels
<b>Inputs (All inputs protected and filtered)</b>	<b>Switched Inputs</b>	6 channels
	<b>Analogue Voltage Inputs</b>	20 channels
	<b>Analogue Current Inputs</b>	4 channels
<b>Interfaces</b>	<b>1 CAN port, CAN 2.0B</b>	
<b>Operating Temperature</b>	<b>-30°C to 85°C</b>	-22°F to 185°F
<b>Storage Temperature</b>	<b>-40°C to 85°C</b>	-40°F to 185°F

## Compliant Standards RC Controller (for more BODAS Controller series 20 details refer to Rexroth data sheet RE 95 200)

<b>Electromagnetic Compatibility</b>	100v/m, load dump ISO 7637-2 (2004) pulse 5	
<b>Immunity</b>	<b>RF Immunity:</b>	ISO 11452-2, 400-1000 MHz, 80% mod.1kHz 1 GHz–2 GHz, 80% mod. 1 kHz 25v/m (Level 1 Severity)
	<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–1 GHz, according to 72/245/EC EN 55025	
<b>Electrostatic Discharge</b>	EN 61000-4-2 ISO 10605, Contact +/- 8kV, air discharge +/- 15kV	
<b>Vibration</b>	ISO 16750-3, 10-2000Hz @ 58 m/s	
<b>Shock</b>	IEC 60068-2-72, 40G for 11 ms	
<b>Moisture</b>	DIN IEC 68, part 2, Hum=95% 25 to –55°C	
<b>Salt Spray</b>	DIN 50021-SS, 72h 35°C 5% NaCl	
<b>Media Resistance</b>	ISO 16750-5, cola, coffee, paint thinner	
<b>Enclosure Protection</b>	IEC 60529 IP56	

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