

Features

- 12 axis control with up to 24 proportional outputs
- All outputs can be individually set using min/max buttons
- 16 high power relayed and fused outputs, rated at 10 amps each
- Full transient suppression on all outputs
- Configurable with up to 2 joystick modules per console
- Capacity for up to 9 switches in the armrest
- 4 and 6 switch modules available in addition to the armrest mounted switches
- 2, 4 and 6 button joysticks available, all with deadman interlocks
- Remote status display for the multi-function joystick
- Valve cables are reverse compatible with previous designs for quick and easy installation
- Modular build and mounting configurations
- Remotely located valve driver and microcontroller for a compact design
- Microcontroller conforms to electrical and environmental test standards

Advanced Functions

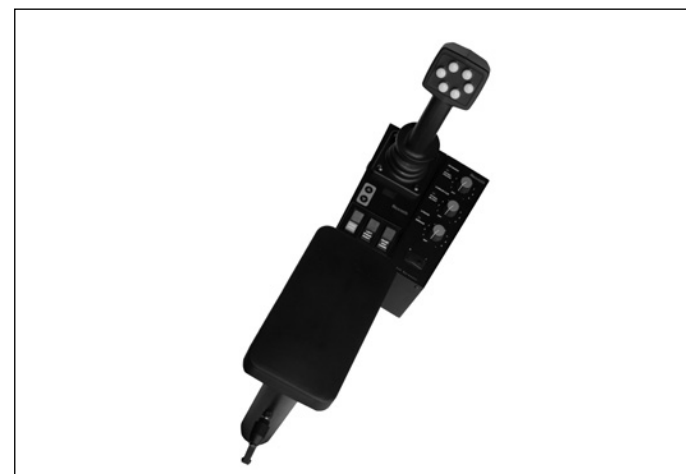
- Multi-function 3-axis joystick allows several function controls on one stick
- Up to 4 modes of operation on one multi-function joystick
- Programming key lock-out for calibration set points
- Emergency raise function
- Remote mounting arm for auxiliary equipment (optional)
- Reconfigurable joystick functions
- 6 separate function indicators on a remote status display
- Configurable with the CS 440 spreader controller
- Diagnostic indicators for easy troubleshooting
- Field software upgradeable via PC link

Hardware:



Rexroth CS 140 Programmable Hydraulic Control Consoles

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**Modular electronic joystick consoles with
integral armrest mounted switch functions**

The latest in electronic programmable joystick consoles, the CS 140 is a compact modular control system incorporating an integral arm rest/power switch housing built around a remote mounted microcontroller valve and power distribution center (PD).

Custom configurable in a number of ways, each to suit limited space or specific functional needs, the CS 140 offers significant technical advantages through advanced engineering and ergonomic design. The CS 140 console supports up to 12 proportional axis, has 16 high powered relayed and fused outputs each rated at 10 amps, and can accommodate numerous independent switch functions. Coil nulling is accessible through a locking key switch and front face tactile buttons. This allows individual nulling and saving of each outputs individual min/max set points.

All truck hydraulic systems are fully supported including power float and low oil override. All switches are illuminated and legend inscribed. The system has an independent power switch allowing the entire console to be powered down for safety.

The modular system allows up to two individual joystick modules to be banked onto one console. There is also the option of a single multi function joystick with a remote mounted status / function indicator display. Independent 6 and 9 function switch modules can be added to the console along side the joystick modules in addition to the 6 built in switches located in the arm rest. The power distribution center which houses the microcontroller and power distribution is mounted remotely from the operator console for space savings, this allows easy access to all electronic systems for easy error detection and diagnostics, via LED indicators.

The CS 140 can also be configured to incorporate the CS 440 spreader control, and allows the three spreader functions (spinner, conveyor, and pre wet) to be conveniently mounted along side the joystick modules. The CS 440 operator screen can be separately mounted in clear view of the driver.

The CS 140 hydraulic control console is an innovative system designed specifically for the snow and ice market, incorporating the latest technology in a compact modular design.

Microcontroller (RC-6/9) Electrical and Environmental Specifications

| | | |
|------------------------------|---|--|
| Spurious interference | (Motor vehicle directive 95/54/EG) | 100 v/m |
| Load Dump | | max. 70 v |
| Temperature Housing | Operating | -40...80 °C |
| | Storage | -40...105 °C |
| Vibration Resistance | Sinusoidal (IEC 60086-2-6) | 10 g / 57...2000 Hz |
| | Random (IEC 60086-2-36) | 0.05 g ² / Hz; 30 min per axis |
| Shock Resistance | Transport (IEC 60068-2-27) | 15g / 11ms; 3 x in each direction/axis (pos./neg.) |
| | Continuous (IEC 60068-2-29) | 25 g / 6 ms; 1000 x in each direction/axis (pos./neg.) |
| Resistance | To moisture | 95 % (+25 to +55 °C) |
| | To salt spray (IEC 60068-2-11) | 72 h, 35 °C, 5 % NaCl |
| Type of protection | (DIN / EN 60529) fitted with mating connector | IP 65 |

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