

XW5 Series **Rated Capacity Indicator with** **Height & Slew Limitation**

Suitable for

- Excavators
- Special purpose machines



The XW5 can be configured to work on any type of hydraulic excavator. Overload, height, and slew limitation are controlled using proportional soft-stop hydraulic valves providing accurate and repeatable performance without detriment to the machine. A basic dig depth monitor is available when the RCI is not required. If hazards arise, XW5 will automatically flip to the relevant display page. Tracked machines have automatic sectorised lifting duties for over the front/rear operation and over the side. Load charts are ISO10567 compliant.

XW5 Rated Capacity Indicator with Height & Slew Limitation

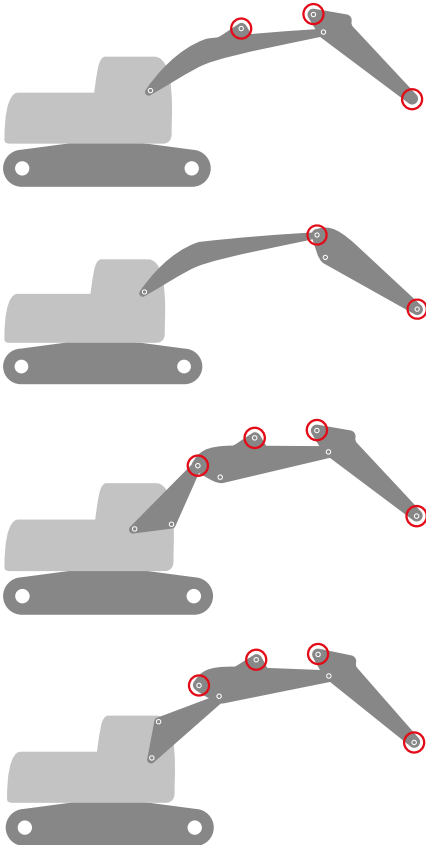


Height Limitation

Operation is fail safe and fully automatic with function selection never more than two key presses away.

All potential machine high points are monitored and appropriate motions controlled. Full power is always available to move away from a limit.

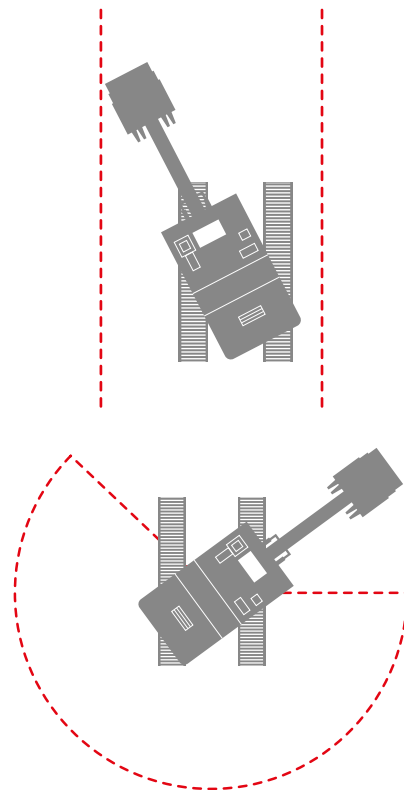
Motions are controlled with ramped slow down on approach and soft-stop. There is no machine 'bounce', overshoot, or undershoot. An optional chassis sensor can be installed to correct for terrain slope.



Slew Limitation

Single/dual parallel wall or angular limitation are available. When walls are in use, the front end equipment is also monitored and controlled for limit breach.

Limits can be either manually keyed in or set by positioning the machine. If both limits are active, the system will automatically flip to the appropriate display should a hazard approach occur. Set up is simple, quick, and can be protected with an optional access key switch. All settings are retained and will be active on start-up.



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Base system

Major components carry a **five year** guarantee excluding mis-use and physical damage.

IO Controller

Solid state, fully potted IP67, mounted in pump or engine bay. 4 x analogue inputs. 8 x digital inputs. 12 x output. All with full electrical protection and diagnostics, 2 x CAN bus. 11 - 30VDC. Manual key override for motion control valves. <10mS program cycle time for accurate response.

Display

Solid state, IP65, RAM mount to window or dash. 4.3" or 2.8" backlit colour LCD. 7 x backlit, tactile keys. 1 x CAN bus. 11 - 30VDC.

Cabling

Industry standard multi-core screened with M12 connectors.

Options

Angle sensors

Compact solid state 3 axis accelerometer with gyro compensation. Stainless steel, IP67. CAN J1939. Steel mounting bracket. Can be mounted anywhere on the front end equipment in any orientation. Direct drive performance.

Up to three articulations can be monitored with the addition of chassis attitude.

Slew sensing by inductive proximity switches or incremental rotary encoder.

Pressure sensors

400 bar 4-20mA. Stainless steel, IP67. Connected to both piston and annular sides of the boom lift cylinders.

Hydraulics

Hydraulics Custom made super compact aluminium PWM proportional sandwich valve available in 2, 4, and 6 valve manifolds, other hydraulic options are available.

Access key switch	Prevents/allows setting changes
Track lock	Inhibits travel when a height limitation is active
Beacon	RCI is active indication
Offset boom sensor	Monitors offset boom angle (single proximity switch detection also available)
Reeling drum	Monitors telescopic arm extension (single proximity switch detection also available)
Platform sensor	Monitors chassis pitch and roll angles
Auto duty switching	Proximity switch detection for up to four lifting duties
Data Logger	CAN bus mounted event recorder with SD card

Choose your XW Series

	XW1	XW2	XW3	XW4	XW5
Height Control	✓	✓	✗	✓	✓
Slew Control	✗	✗	✓	✓	✓
Rated Capacity Indicator (RCI)	✗	✓	✗	✗	✓

