

XW Series | Movement Restriction System for Construction Plant Machinery

## XW4 Series Height & Slew Limitation

### Suitable for

- Excavators
- Backhoe loaders
- Special purpose machines



The XW4 can be configured to work on a variety of articulated hydraulic plant. Height and slew limitation is controlled using proportional soft-stop hydraulic valves providing accurate and repeatable performance without detriment to the machine.

**XWATCH**  
SAFETY SOLUTIONS

# XW4 Height & Slew Limitation

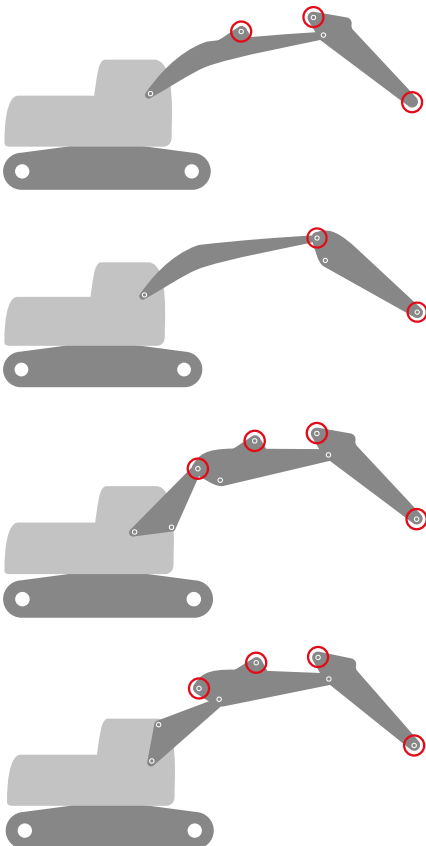


## Height Limitation

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.

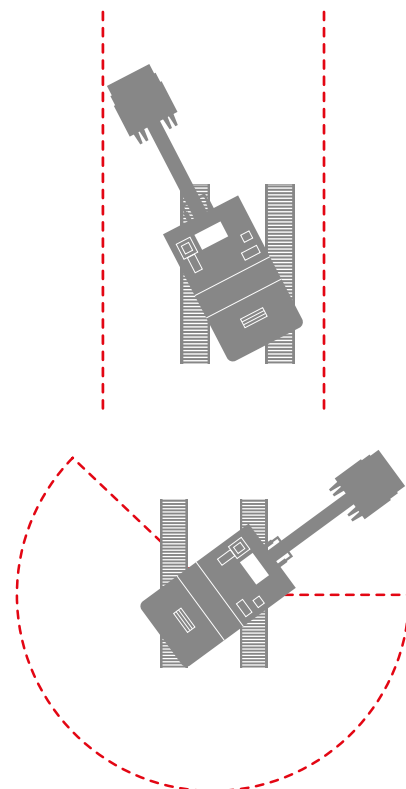
Motions are controlled with ramped slow down on approach and soft-stop. There is no machine 'bounce', overshoot, or undershoot. An optional chassis sensor can be installed to correct for terrain slope.



## 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.



# XW4 Height & Slew Limitation

## 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.

### 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.

### Hydraulics

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

## Options

<b>Access key switch</b>	Prevents/allows setting changes
<b>Beacon</b>	RCI is active indication
<b>Reeling drum</b>	Monitors telescopic arm extension (single proximity switch detection also available)
<b>Offset boom sensor</b>	Monitors offset boom position for slew control (single proximity switch detection also available)
<b>Platform sensor</b>	Monitors chassis pitch and roll angles
<b>Data Logger</b>	CAN bus mounted event recorder with SD card
<b>12VDC Valve coils</b>	No cost option for smaller machines

# Choose your XW Series

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