

XW Series | Movement Restriction System for Construction Plant Machinery

MK2 - XW4 Series Height & Slew Limitation

Suitable for

- Excavators
- Backhoe loaders
- Special purpose machines

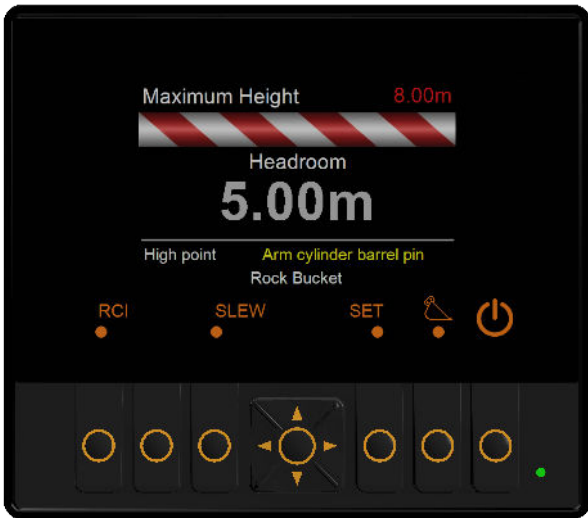


The XW4 can be configured to work on a variety of articulated hydraulic plant. Height and slew limitation is controlled using proportional soft-stop hydraulic valves providing accurate and repeatable performance without detriment to the machine.

XWATCH
SAFETY SOLUTIONS

part of Hexagon

MK2 - XW4 Height & Slew Limitation

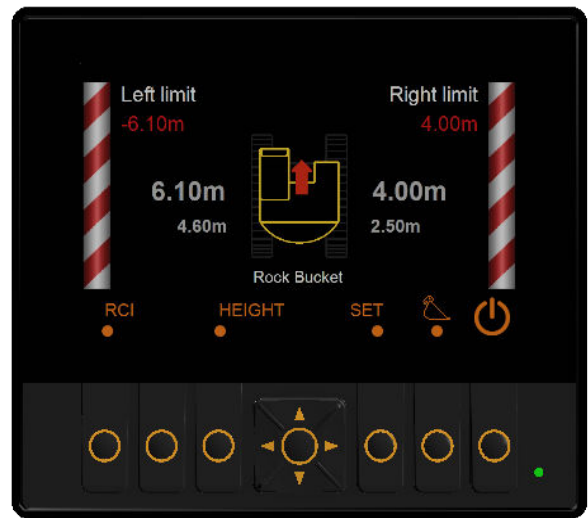
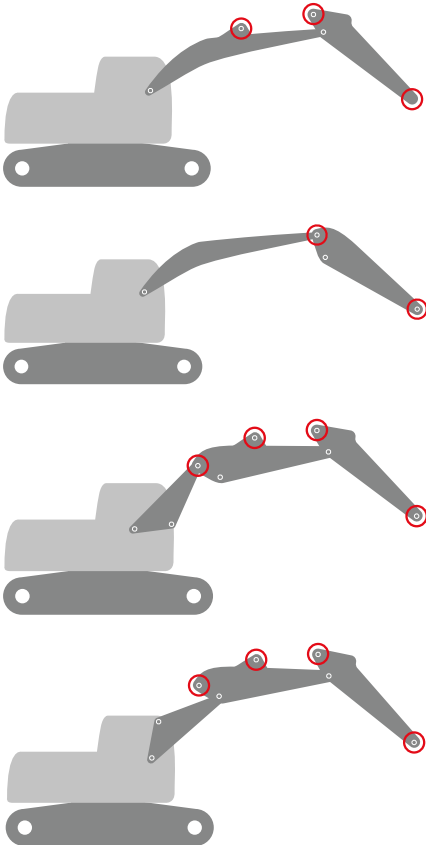


Height Limitation

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.

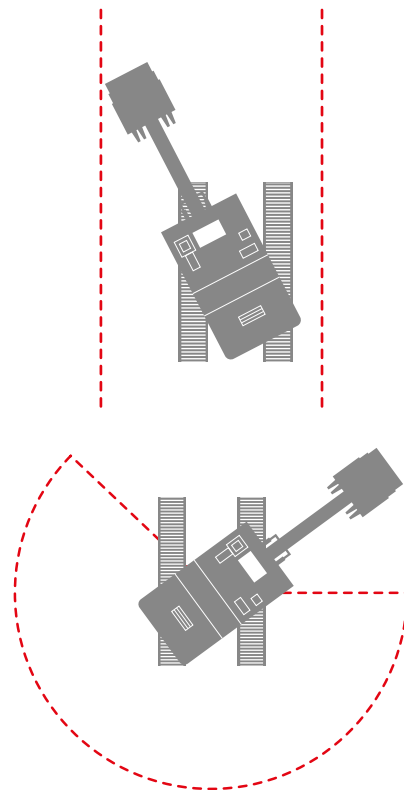
Motions are controlled with ramped slow down on approach and soft stop. There is no machine 'bounce', overshoot or undershoot. An optional chassis sensor can be installed to correct for terrain slope. Provides safe machine recovery mode as a standard feature.



Slew Limitation

Single/dual parallel wall or angular limitation is 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

<p>Benefits:</p> <ul style="list-style-type: none"> • Single safety ECU. • Unparalleled reliability with sophisticated on-board diagnostics. • Maximises machines lifting capacity. • Simplified installation. • Reduced component and connection count. • All valves and assemblies supplied. • Easy to use context aware user interface with dedicated tactile buttons. • Simple set-up and calibration. • Plug and play component replacement – reduced downtime for fault conditions. 	<p>Options:</p> <ul style="list-style-type: none"> • Expandable output control for track/wheel lock*. • Compatible with electronic hydraulic control systems**. • Integration to 3D machine positioning systems***. • Integration to hazard detection systems***. • Cab elevation monitoring for material handlers. • Telescopic moving parts monitoring and control. • Compatible with OEM slew position monitoring systems***.
<p>Key Features:</p> <ul style="list-style-type: none"> • Height and virtual wall limits. • Full envelope reach limits. • Dig depth assist limits. • Smooth stopping at movement limits. • Soft stop and soft start, controlled lifting. • Advanced on-board diagnostics OBD. • Simplified service / set-up and calibration application. • Hydraulic limit protection. • Backwards instability protection. • Alternative lifting points. • Safe machine recovery mode. • Operator adjustable screen brightness. • Multiple languages supported. • User access control. 	<p>Technical Specifications:</p> <ul style="list-style-type: none"> • Compatible with 12v and 24v systems. • ECU -40°C to 85°C temperature range. • IP55 controller sealed enclosure. • SIL2 safety hardware architecture. • 16 safe inputs. • 16 safe outputs. • Can Interface SAE J1939 at 250 Kbits/s. • EN ISO 13849:2015 performance level D. • 4.3” 800 x 480 high contrast display. • High Brightness 1000C d/m2 display.

*Requires Xwatch ‘XPander’ module.
 **Requires Xwatch ‘Electronic Valve Controller’ module.
 ***Requires Xwatch ‘Safety Gateway’ module.

Choose your XW Series

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



Want to know more?

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Operation Guide

