Intelligent Plant Safety

iPS

Intelligent Motion Control
Height & Slew Limiter

Inc. Virtual Wall

iPS supports a nationwide network of fully trained service engineers. Warranty claims, service work, technical information and spare parts are available.

Intelligent Plant Safety Ltd

t. +44 (0)1305 230318

e. sales@intelligentplantsafety.com

BRAND NEW "Voice Active" warning system reducing in-cab sounders and operator fatigue

Features & Functionality

BRAND NEW "Voice Active" warning system reducing In-Cab sounders reducing operator fatigue

Proportional Valves for the motion cut with manual override as **'standard'**

Non OEM Specific, can be installed onto any manufactures piece of plant

Easy to use and intuitive MMi with a clear 4.3" colour In-Cab Display

Full smart Slew Limiting adjustable via the In-Cab Display

Smart Limiting with Gyro compensated Angle Sensors

3D Limitation anywhere within the working envelope

Optional 'Limits Active' output for Magenta Beacon

Optional Minimum Reach Control aiding cab protection

Optional Maximum Reach Control & Cab protection

Supervisor Key Switch as **'standard'**

Optional Blade Monitoring & Control

Optional Corridor setup & Limitations

Data Logging as **'standard'**
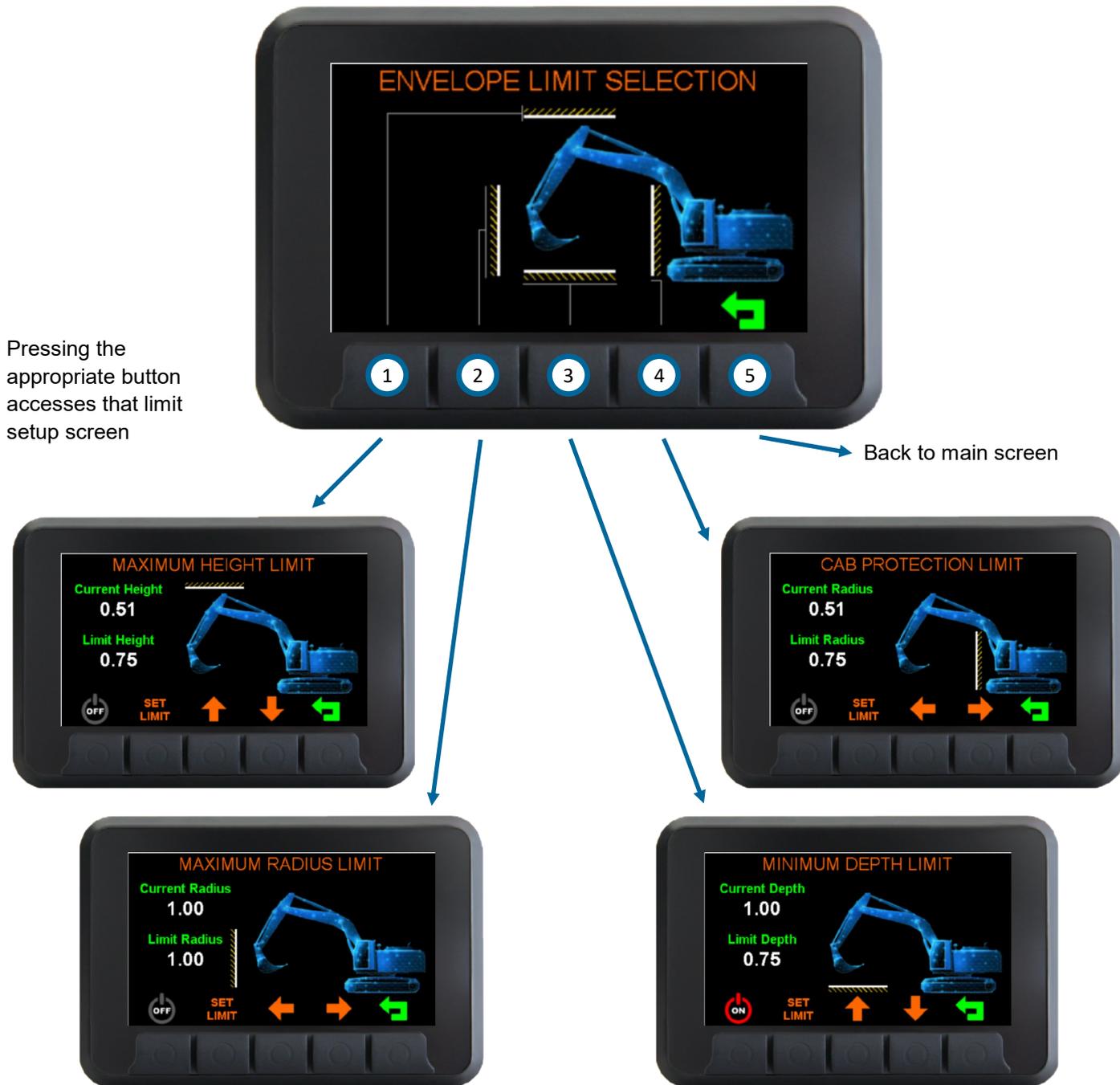
Optional Dig Depth Control

Optional Virtual Walls

Envelope limit selection

ENVELOPE LIMIT SELECTION

Pressing the appropriate button accesses that limit setup screen

Back to main screen

MAXIMUM HEIGHT LIMIT

Current Height
0.51

Limit Height
0.75

SET LIMIT

CAB PROTECTION LIMIT

Current Radius
0.51

Limit Radius
0.75

SET LIMIT

MAXIMUM RADIUS LIMIT

Current Radius
1.00

Limit Radius
1.00

SET LIMIT

MINIMUM DEPTH LIMIT

Current Depth
1.00

Limit Depth
0.75

SET LIMIT

|	
Button 1	Turns the limit ON or OFF. If turned on here the system uses last saved Limit
Button 2	Sets the limit at its current measured position. Move the equipment to the required limit. Pressing this button automatically turns the limit ON and the ON/OFF icon 'button 1' will turn red/ON.
Button 3 & 4	Adjusts the limit to be set. Pressing either of these buttons will automatically activate the limit. This limit can then be manually turn OFF at any time.
Button 5	Exit back to main screen

iMC Intelligent Motion Control

Height & Slew Limiter Inc. Virtual Wall

www.intelligentplantsafety.com/imc-height-and-slew-limiter

Slew Type selection
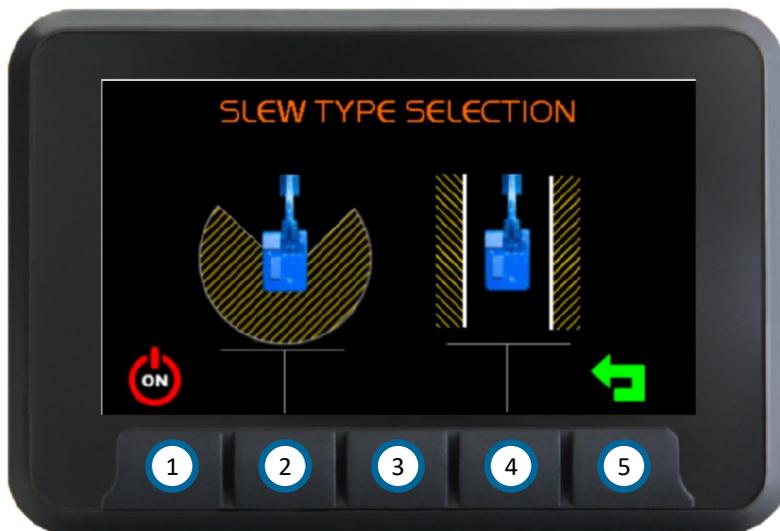
Turns the Slew Limit ON or OFF. If turned ON here it uses the last saved Limits

Back to main screen

Angular Slew

Follow the clear and easy to understand instructions to set Angular Slew Limits.

Virtual Walls

Each wall can be individually set by adjusting the distance using the directional arrows. A virtual corridor is set by turning both walls ON.

Wall Limits are parallel to the machine tracks at 0°

Limit Icons

Maximum Height limit set

Maximum radius limit set

Minimum radius limit set

Dig Depth limit set

All envelope limits set

Envelope Limits

When in approach zone and then limit, the limit bar changes colour and the arrows show what direction the slow down is. Icons and arrows work this way for all directions.

Angular Slew Limit set

Virtual Wall Limit set

Slew Limits

When in approach zone a message appears and the corresponding arrow turns yellow.

These change to a red "limit reached" message and the arrow turns red when the limit has been reached.

Virtual wall icons show the limit distance in metres from slew centre.

Left or Right Virtual wall limit

iMC Major Components

4.3" Intuitive In-cab MMI with intelligent and easy to understand graphics reducing operator fatigue
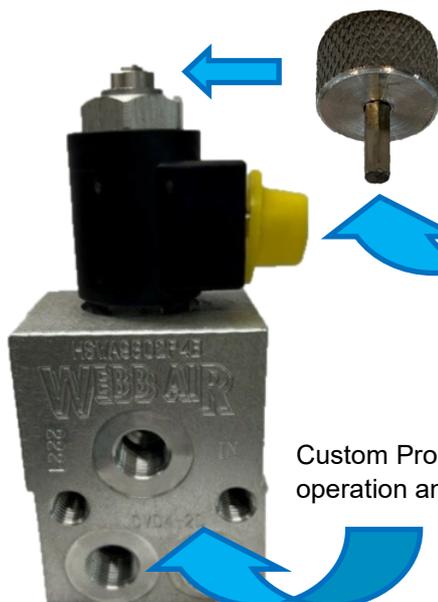
Smart Height Limiting with Gyro compensated Angle Sensors
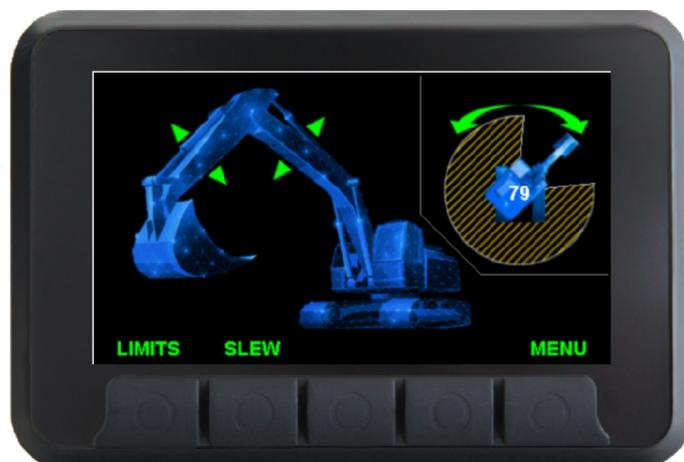
Built in Supervisor Key Switch to remove cab clutter

Integrated I/O Module

Manual Override tool held with the Supervisor key

POSITION	FUNCTION
1	Slew Index
2	Slew Channel A/B
3	CAN S
4	CAN D
5	Override Key Switch
6	Boom Motion Cut
7	Arm Motion Cut
8	Power Connections
9	Slew Motion Cut
10	Lamp/Blade

Custom Proportional Control for smooth machine operation and to reduce operator fatigue