



# SERIES 2 LOAD, HEIGHT AND SLEW LIMITERS

The Series 2 range is designed to maximise safety and productivity during lifting operations.

## FLEXIBLE, ADAPTABLE RCI SYSTEM

The Series 2 LHS and Series 2 LHS+ are versatile, adaptable systems designed for the construction sector. For use on sites where height, slew and load need to be monitored and controlled to keep people safe, protect machines and other infrastructure.





## SERIES 2

### SAFETY FOCUSED INNOVATION

GKD has been a leading supplier of Rated Capacity Indicators to the construction and rail industry for over twenty years. The Series 2 LHS and Series 2 LHS+ are specifically developed systems for the construction industry, drawing on our experience of delivering robust, intuitive systems for this ever evolving market.

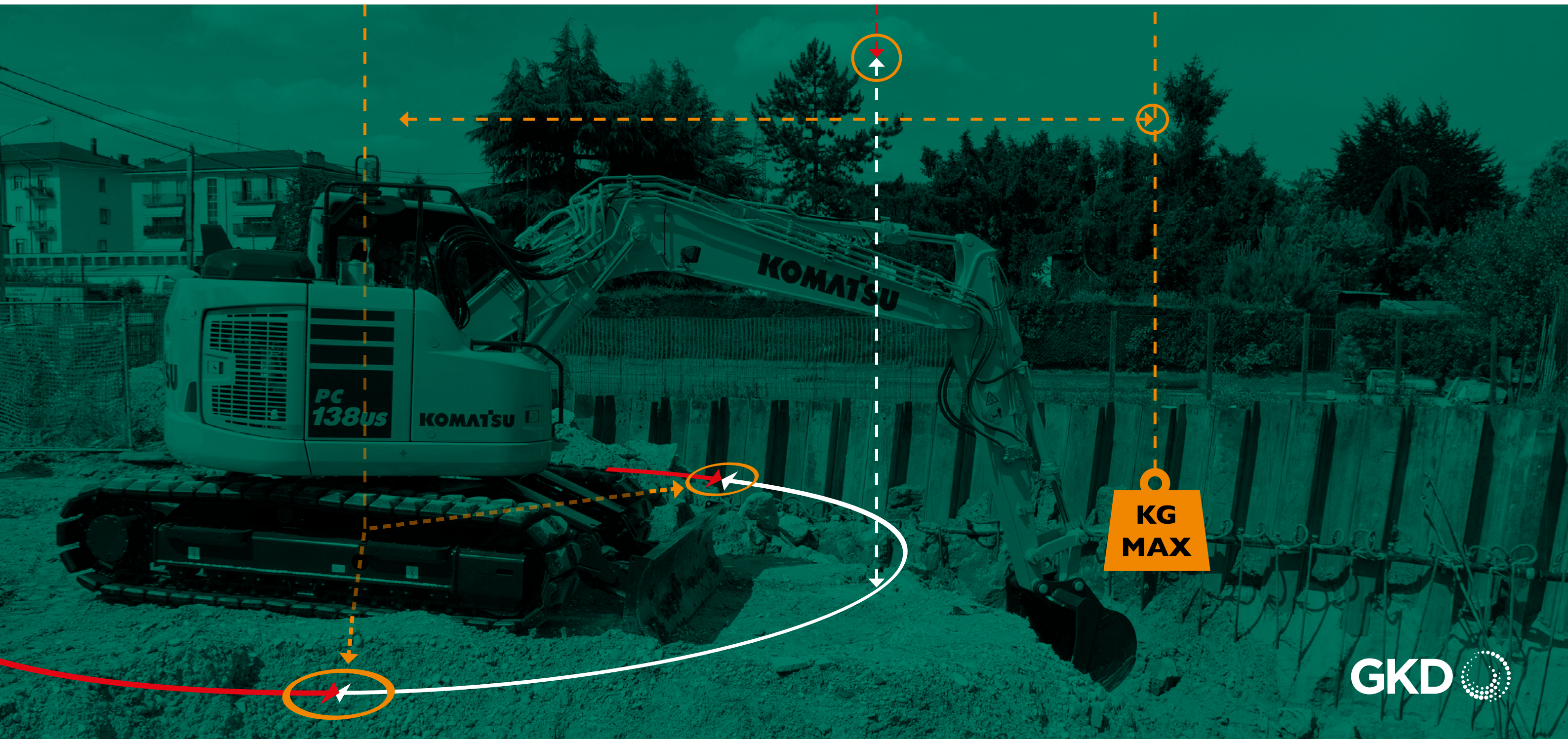
### A COMPLETE SAFETY SOLUTION

The GKD Series 2 range of Rated Capacity Indicators offer a practical and effective way of monitoring and controlling the working height, rotation and load capacity of machinery. They enable machine

operator or site manager to set safe working limits for machinery, ensuring site hazards or risks are avoided and that the machine productivity is maximised.

Developed over the last 15-years the Series 2 range is designed to prevent incidents with overhead dangers and those around the machine, protecting the machine and any personnel on site, as well as ensuring the machine is working within its safe lifting parameters.

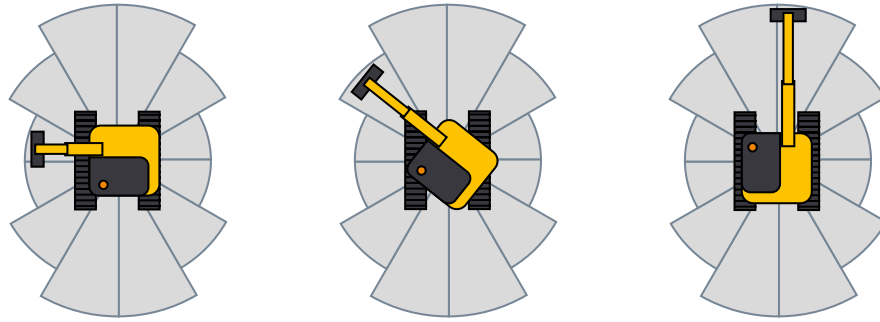
Using dedicated, high accuracy sensors and GKD's proven, safety focussed software and with an easy-to-use interface, the system provides visual and audible warnings when limits are approached. The system is designed to pre-empt movement, ensuring that limits are anticipated, and motion cuts are implemented so that the pre-set limits are not breached.





**SERIES 2 RATED CAPACITY INDICATOR**

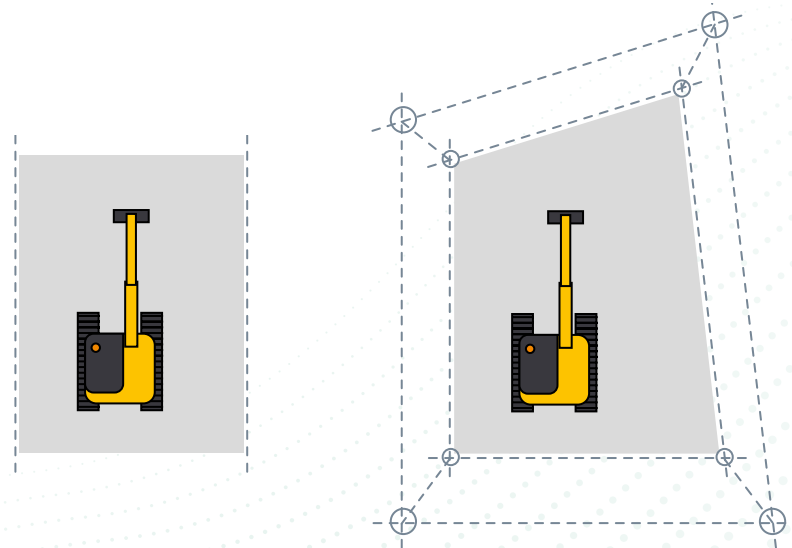
- 10 lifting zones defined within the slew rotation.
- Ensures the maximum safe load can be lifted at any boom extension and slew position.
- Will only allow movement of the machine into a safe operating position when limits are reached.



**ENVELOPE CONTROL**

The Series 2 range offers the unique flexibility of parallel or multipoint virtual walls:

- Ideal for working in confined surroundings or close to open traffic lanes and when combined with height limits for working under overhead obstructions.
- GKD technology ensures rotation and height limits are anticipated and not exceeded.



**SUITABLE FOR:**

Tracked or wheeled excavators, backhoe loaders and other articulated boom machines.

Multiple boom configurations, including multi-section, swing, and offset.

**DIG MODE AND DIG DEPTH INDICATION**

With simple switching between Lifting and Digging modes, the Series 2 offers the additional advantage of monitoring and setting dig depth limits, supporting efficient, accurate digging.

Supporting a dig once, move once approach, GKD's Series 2 Rated Capacity Indicators can also be used to provide dig grade control.



**STRAIGHTFORWARD OPERATION**

- Easy to read graphical information display.
- Ability to dial in or manually set height and slew limits.
- Interactive menu screens for easy selection and setting of features.

**FULLY INTEGRATED REAL TIME DATA-LOGGING**

- Records system and limit settings, operation and events.
- Providing detailed management information for improving safety and performance.

**INTEGRATED DIAGNOSTICS**

- Ensuring safety at all times.
- Advanced diagnostics ensure optimised operational availability.
- Diagnostic fault codes are displayed on the screen.

**DISPLAY FEATURES**

Full colour, graphical touch screen display, providing information on:

- Current tool height and radius.
- Load on hook (weight being lifted).
- Slew position in degrees.
- Available lift capacity.
- Height and slew limits set.
- Approach to max safe working load.
- Motion cuts applied.



**SERIES 2 LHS+**

Advanced Envelope Control and Rated Capacity Indicator, the Series 2 LHS+ provides extra benefits for users:

**IMPROVED SCREEN**

- Large, easy to read and operate in all light conditions and in open or closed cabs.

**PRECISION CONTROL**

- Stepped proportional control available for a smoother approach to slew or height limits.
- Optional add-on full proportional control system where precision and finite control are required.

**TRACK-SIDE WORKING**

- Dual process verification for Adjacent Line Open (ALO) working, so that the machine can work alongside open rail lines or roads, and for working when higher performance is required under overhead obstructions or wires.

**ALWAYS IN CONTROL**

- Integrated supervisor key switch enables limits to be set and not overridden.
- Disable key switch allows the system to be switched off when not required.

**EVEN MORE ADAPTABLE**

- Suitable for a full range of potential machines, including pilot and electro hydraulic control systems.



**SERIES 2 LHS VS SERIES 2 LHS+ COMPARISON TABLE**

	Series 2 LHS	Series 2 LHS+
<b>Advanced RCI system</b>		
Designed as RCI for Civil Applications	✓	✓
ALO Compliant		✓
<b>Optimised, intuitive user interface</b>		
Robust IP67 Display		✓
IP54 Display	✓	
TFT colour touch screen user interface	✓	✓
Real time system monitoring	✓	✓
Real Time information	✓	✓
Fast start system and screen refresh		✓
<b>Optimised for performance &amp; safety</b>		
360 degree lifting capacity	✓	✓
Full intelligent motion cut of boom & Slew on overload	✓	✓
Pre-emptive stopping algorithms	✓	✓
Slow down zones before Height & Slew limits	✓	✓
Envelope control	✓	✓
Integrated supervisor key switch		✓
Suitable for machine Pilot or Electro hydraulic control systems		✓
<b>Ease of install</b>		
Gravity Sensors with gyro-based stabilisation	✓	✓
Integrated highly accurate slew encoder	✓	✓
Boom Auto Centre of Gravity		✓
I/O Mapping		✓
Faster & Simpler sensor calibration		✓

**SERVICE AND SUPPORT**

GKD has a proven track record of delivering high quality products and customer centric services. We listen, understand and support our customers whilst letting our products and approach do the talking. Core to all of our products is a philosophy that puts the customers requirements and needs first and foremost; this includes supporting our products in the field.



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## SYSTEM - TECHNICAL DESCRIPTION - SERIES 2

Parameter Specification	Specification
Display - Series 2 LHS+	14.5cm LCD touch screen display - IP67 rated
Display Series 2 LHS	11cm LCD touch screen display - IP54 rated
Slew Sensor	Gravity angle sensors - IP67 rated Proximity based slew sensors Pressure transducer - IP67 rated
Control Modules	IP67 rated
Motion Cut	Compatible with 12 or 24v coils

## 2-LHS CONFIGURATIONS

	Load*	Height*	Slew*
Full LHS System	✓	✓	✓
Load and Height	✓	✓	
Load and Slew	✓		✓
Load Only	✓		

\*Available as monitoring and with full optional motion cut facility

To find out more about the Series 2 products, contact your local GKD Dealer or visit: [www.gkdtechnologies.com](http://www.gkdtechnologies.com)

Series 2 Dealer:



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