



iconsoft cc

Catalogue

2024

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# Brief introduction

Iconsoft was established back in 1995. For over two decades, we have been dedicated to improving the world of manufacturing through our innovative automation solutions. Our expertise extends over a wide range of applications, such as software development, factory automation, and the manufacturing of automated concrete batching plants.

No matter the product, precision is at the heart of every industry and it's what we are passionate about. Our expertise promises to bring your manufacturing process into the age of technology, enabling you to focus on what's important: delivering your products and services to the people who need them. Get in touch with us and find out how we can help improve your plant's efficiency.



# Services

## Concrete Batching Plants

Together with our industry partners, we are dedicated to designing and manufacturing state-of-the-art concrete batching plants. Our plants are engineered for efficiency, reliability, and precision, allowing our clients to meet the demands of their projects with ease. From compact mobile plants to large-scale stationary installations, we offer customized solutions tailored to our clients' specific needs.

## Automation Services

Automation lies at the center of everything we do at Iconsoft. We specialize in automating not only concrete batching plants but also a wide range of industrial facilities. Our advanced automation systems enhance productivity, streamline processes, and ensure consistent quality across operations. Whether it is optimizing production schedules, monitoring equipment performance, or implementing smart control systems, we empower our clients with cutting-edge automation solutions.

## Software for PLC Systems

Our team of skilled engineers develop robust software solutions for PLC systems, tailored to the unique requirements of each application. From programming and customization to integration and optimization, we deliver software solutions that maximize the efficiency and performance of industrial automation processes.

## High-Quality Load Cells and Weighbridge Equipment

Iconsoft takes pride in providing high-quality load cells and weighbridge equipment that meet the highest standards of accuracy and reliability. Our precision-engineered products are essential components of batching and weighing systems, ensuring accurate measurement and control of materials in industrial processes.



## Factory Automation

In addition to concrete batching plants, Iconsoft offers comprehensive factory automation services to optimize production processes across various industries. From material handling and storage to assembly line automation and quality control, we leverage our expertise to design and implement efficient and cost-effective automation solutions.

## Calibration Services

Iconsoft is committed to ensuring the accuracy and reliability of weighing systems through our calibration services. Our SANAS (SABS) accredited verification laboratory provides meticulous calibration and verification services for scales ranging from 15kg to 80t. With full certification and compliance with quality assurance and quality control standards, our calibration services are essential for maintaining the integrity of industrial processes and meeting regulatory requirements.





# Products

## Load Cells

### Keli LFSC-A / ULP



**Description:** Compression wheel type load cell in alloy steel including button. (universal low profile)

**Capacity:** 2 t, 5 t, 10 t, 20 t

**Application:** Tanks, Silos, hoppers.

### Keli YBS-A / LS

**Description:** Low profile compression load cell in alloy steel. Compression Load Cell. OIML.

**Capacity:** 2 t, 5 t, 10 t, 20 t

**Application:** Tanks, Silos



### Keli BMLS / QS-A



**Description:** Alloy steel ball and cup with boot, double shear beam load cell. OIML.

**Capacity:** 10 t, 20 t, 30 t, 40 t, 50 t

**Application:** Weighbridges

**Approval no:** I/O SA 1487

### Keli SBA / DEE

**Description:** S beam compression load cell in alloy steel. OIML S type with rod ends.

**Capacity:** 1 t, 2 t, 5 t

**Application:** Hoppers, hanging scales



### Keli BSH / SQBK-A



**Description:** Single ended shear beam load cell in alloy steel, hammer head.

OIML

**Capacity:** 1 t, 2 t, 5 t

**Application:** Tanks

### Keli BSA / SQB

**Description:** Single ended shear beam load cell in alloy steel with feed, 3.0mV/V. OIML

**Capacity:** 250 kg, 500 kg, 1 t, 2 t

**Application:** General purpose





### Keli HBS / HSXF



**Description:** Bellow beam load cell in alloy steel.

**Capacity:** 100 kg, 250 kg

**Application:** Tanks, Belt weighers

### Keli UDA / BCD

**Description:** Single point load cell in aluminum. OIML approved.

**Capacity:** 60 kg, 100 kg, 200 kg

**Application:** Platform



### Zemic HM9B



**Description:** 30t Load Cell from Zemic.

**Capacity:** 30 t

**Application:** truck scales, railway scales

**Keli DSB**

**Description:** Alloy Dual shear beam without accessory.

**Capacity:** 13.6 t

**Application:** Plant, Hopper



## Weighing Indicators

### T-SCALE RWS-M-R with RS232



**Description:** Check weighing indicator. Internal resolution: 1/600000. Large LCD display with back light. Battery powered.

**Application:** Animal scale

### Keli XK3118T4 Indicator

**Description:** Provides precise and reliable weight measurements for industrial applications. Features a high-resolution display, multiple unit conversion options, and built-in calibration function.

**Application:** Weighbridges, Factories



### Keli KM05 panel mount



**Description:** Two-point(open) relay output, mode of output can be set as separate weight mode and stated value mode: analog output can be set into 4 optional.

**Application:** Panel

## WAM Screw Conveyor Parts



WAM Gearbox 273 mm & 219 mm

WAM 273 mm & 219 mm End Bearings



WAM Gearbox Seals



**Aluminium Center Bearing 273 mm & 219 mm**

**Pipe To Bearing Billets**



**Steel Center Bearing 273 mm & 219 mm**

## From Iconsoft

### ICON 500



- High Precision Measurement.
- 1:10,000 resolution
- Intuitive User Interface
- Large backlit LCD display
- Clear visibility of weight readings under all lighting conditions.
- Its user-friendly interface with instinctive controls.
- RS-232 communication
- Communication with external devices such as printers and computers.
- Approval no: SA 1487 I/O

### ICON Scoreboard



- Ultra-bright LED 7-segment board, offering clear visibility in various lighting conditions.
- RS-232 for integration with a variety of weighing systems.
- Sturdy aluminum extrusion.
- Sealed for protection from dust and moisture.
- Repairable and Locally Manufactured.

## Basic Control Box



- 1.6mm mild steel enclosure, polyester coated
- Waterproof IP-65 Rating
- Pad-lockable isolator.
- 3-phase motor control
- Start, stop, emergency-stop.
- Thermal overload protection
- 220VAC & 12VDC supply

## Fully Automated Control Box



- Offers full automation of batching plant.
- Control conveyors.
- Load material from Silos.
- Enables full control of batching plant through a Windows computer.



# Karoo 30 Mobile Batching Plant



## About the Karoo 30

The Karoo 30 Mobile concrete batching plant stands out for its portability, rapid setup, and high productivity. It's an indispensable tool for contractors tackling diverse projects, from infrastructure developments to building constructions. With its compact design, it caters to the needs of small to medium-sized construction companies, offering flexibility and efficiency in multiple project environments. Whether it's road construction in remote areas, building developments in urban centers, or utility projects requiring sturdy concrete structures, the Karoo 30 ensures a steady and customizable supply of high-quality concrete.

## Specifications

### Output Capacity

- 30 m<sup>3</sup> wet concrete per hour.

### Conveyor

- Pulley centers = 12.4m.
- Belt width = 600mm
- Troughing idlers = 100mm Ø at 20°.
- Belt speed = 1.8 meters per second.
- Capacity = 320 tons per hour.
- Full length weather cover.
- The conveyor joint is fully vulcanized.
- Simple "take up" tension adjustment system.

### Conveyor drive

- 7.5kW 380v electric motor four pole D.O.L.
- Close coupled heavy duty shaft mounted reduction box with reverse stop.

### Optional Extras

- HATZ Z790 diesel engine driven.
- FENNER F13:1 reduction box with three belt pulley drive.
- Centrifugal clutch.

### Axle

- Track width 2260mm.
- Tires = 11.00 x 20.
- Load capacity = 6500kg.

### Special Features

- Specially designed water ring for efficient mixing time.
- Non-bridging & free flow of material from hopper.
- Conveyor belt cleaning bar.
- Towing hitch safety chain.
- Low maintenance



## Overall Dimensions

### In Travelling position

- Total length = 14100mm
- Track width = 2260mm
- Total width = 2300mm
- Total Height = 4050mm

### In operating position.

- Hopper height = 3300mm
- Height under discharge = 3700mm
- Total width = 2300mm
- Total height = 4600mm
- Total length = 1400mm

## Hopper

- Mounted on two solid state beam type electronic load cells with digital indicator and a five digit 7-segment scoreboard.
- Weighing range = 0 to 20000kg.
- Division increments of 5kg on indicator.
- Effective dry volume = 8m<sup>3</sup>.
- Rear mounted cement bag splitter.
- Manual Discharge doors.

### Optional Extras

- Extension sides to increase dry volume to 11m<sup>3</sup>.

## Water meter

- Electronic control with digital display.
- In-line water filter screen.
- 50mm ball valve.
- Range = 0 to 1000.

### Optional Extras

- Mechanical batch water meter with zero lever: Range = 0 to 1000.



### **Electrical Installation**

- Electrical control box with main isolator & overload protection.
- Emergency stop button.
- Start/Stop button for conveyor.

### **General**

- 3000 "Piggyback" Cement Weighing Hopper.
- Cement Screw Conveyors with "A" frame support legs.
- 220v Electric Water Pump self-priming mounted on base frame includes suction hose & non return valve.
- Air operated Hopper & Cement discharge.
- Fully automated electronic control system to your specific requirements.

### **Optional Extras**

- 8 Cube extension plates
- Generator 30kva or 40kva closed on trailer.
- Faw motor
- Diesel 22kw motor

