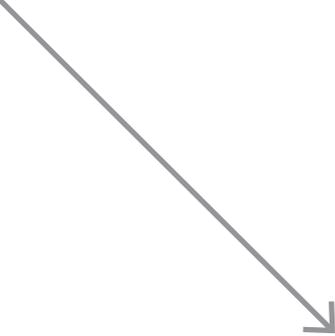


# WEIGHING TECHNOLOGY





# Who we are



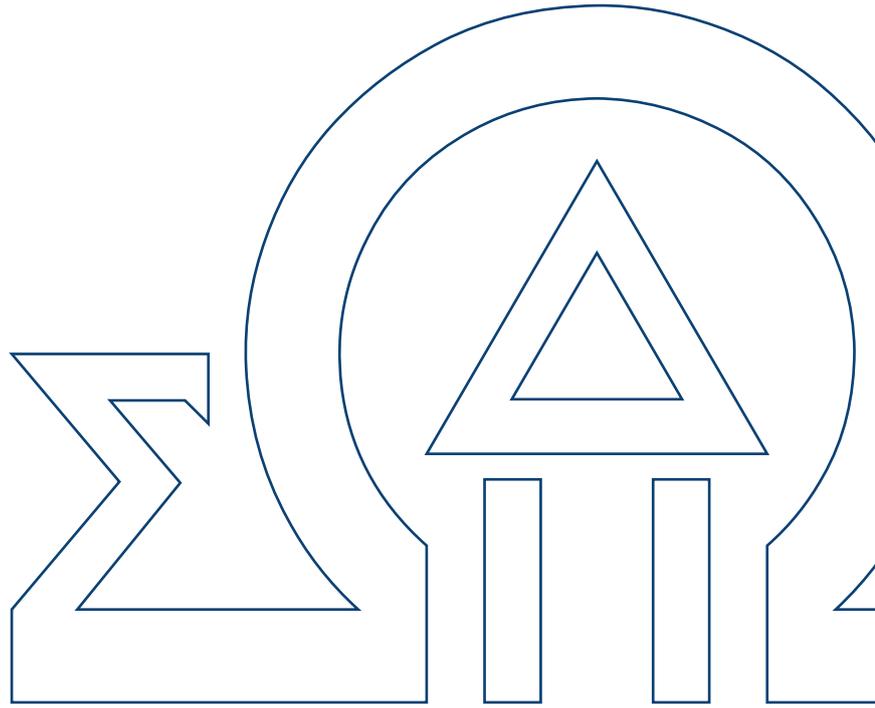
The only thing that you should do for enabling your phone to read barcodes is to download any "QR Code" software to your phone. After downloading the software, your phone will automatically download the PDF version of the catalog when the barcode is read.

# master*of*gravity



KOBASTAR, operating in the sector with the slogan '**Master of Gravity**', is a growing brand in the national and international arena with its strong infrastructure, advanced machinery park and high capacity production. KOBASTAR aims to be an international brand that 'sets the rules' in the sector.

KOBASTAR, which uses high quality steels in its products, produces OIML certified load cells at world standards thanks to its expert engineers. More than half of its production Exporting to Europe, KOBASTAR has proven its quality with customer satisfaction analyses.

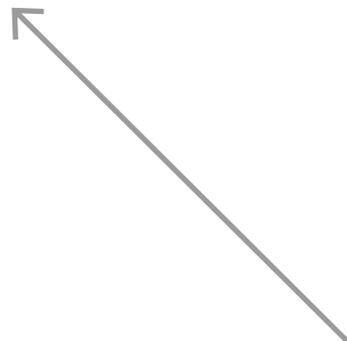
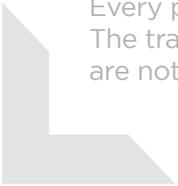


**KOBASTAR<sup>®</sup>**

**THE ART OF  
ENGINEERING**

---

We reflect the team spirit with our own style and we set the rules.  
Every product coming out of our production facilities is a part of this game.  
The traces left by Kobastar in more than 50 countries around the world  
are not a coincidence, but the result of meticulous planning.



## TS1 Golden Series Truck Scales

Legendary reliability and precision with the exclusive TS1 Golden<sup>®</sup> and rugged truck scale design backed by an industry-leading warranty.



# Design Features

## High-strength steel construction

TS1 Golden series truck scale is fully steel platform.

It is mounted on the ground and can be climbed onto the scale easily with reinforced concrete ramps.

TS1 Golden series column truck scale is the classic floor scales called I beam system.

High strength structural steel of IPE type is used on the platform.

Although the top covering sheet varies according to the weighing capacity, it is approximately 10 mm thick.

It is very easy to assemble, and can be easily moved to another area at any time.

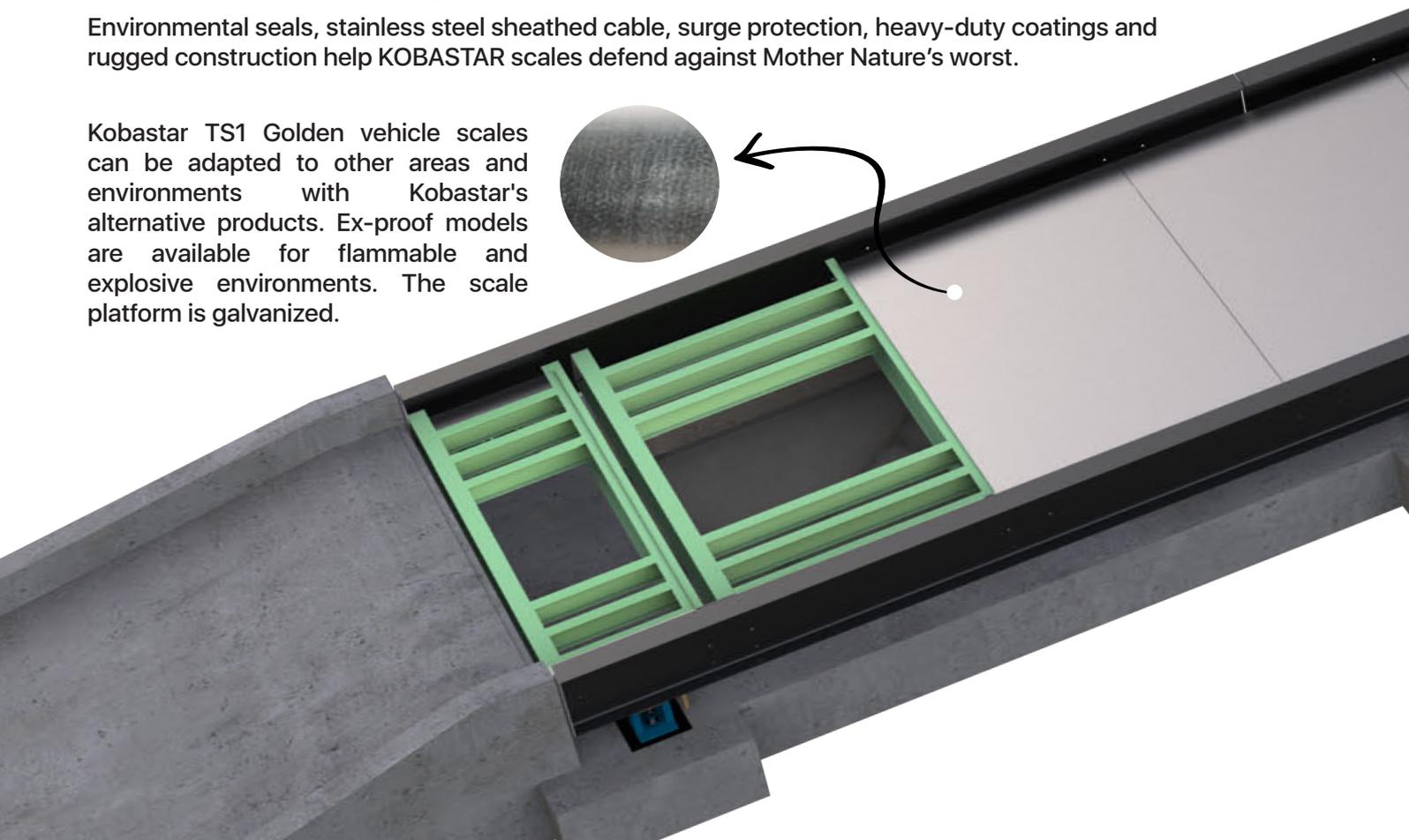
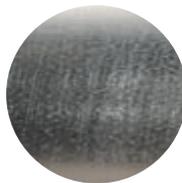
TS1 GOLDEN®'s high cross-sectional beam and traversing platform structures, designed for the movement of vehicles on the scale, guarantee long trouble-free operation of the scale under the most severe operating conditions. The stainless steel multi-load cell structure of the TS1 GOLDEN®, which is unique with its strong structure, durability, minimum service, maintenance and infrastructure costs, contributes to the performance and accurate measurement of the scale. The modular design makes it easy to transport, unload, assemble and service the scale.



## Environmental Shielding

Environmental seals, stainless steel sheathed cable, surge protection, heavy-duty coatings and rugged construction help KOBASTAR scales defend against Mother Nature's worst.

Kobastar TS1 Golden vehicle scales can be adapted to other areas and environments with Kobastar's alternative products. Ex-proof models are available for flammable and explosive environments. The scale platform is galvanized.



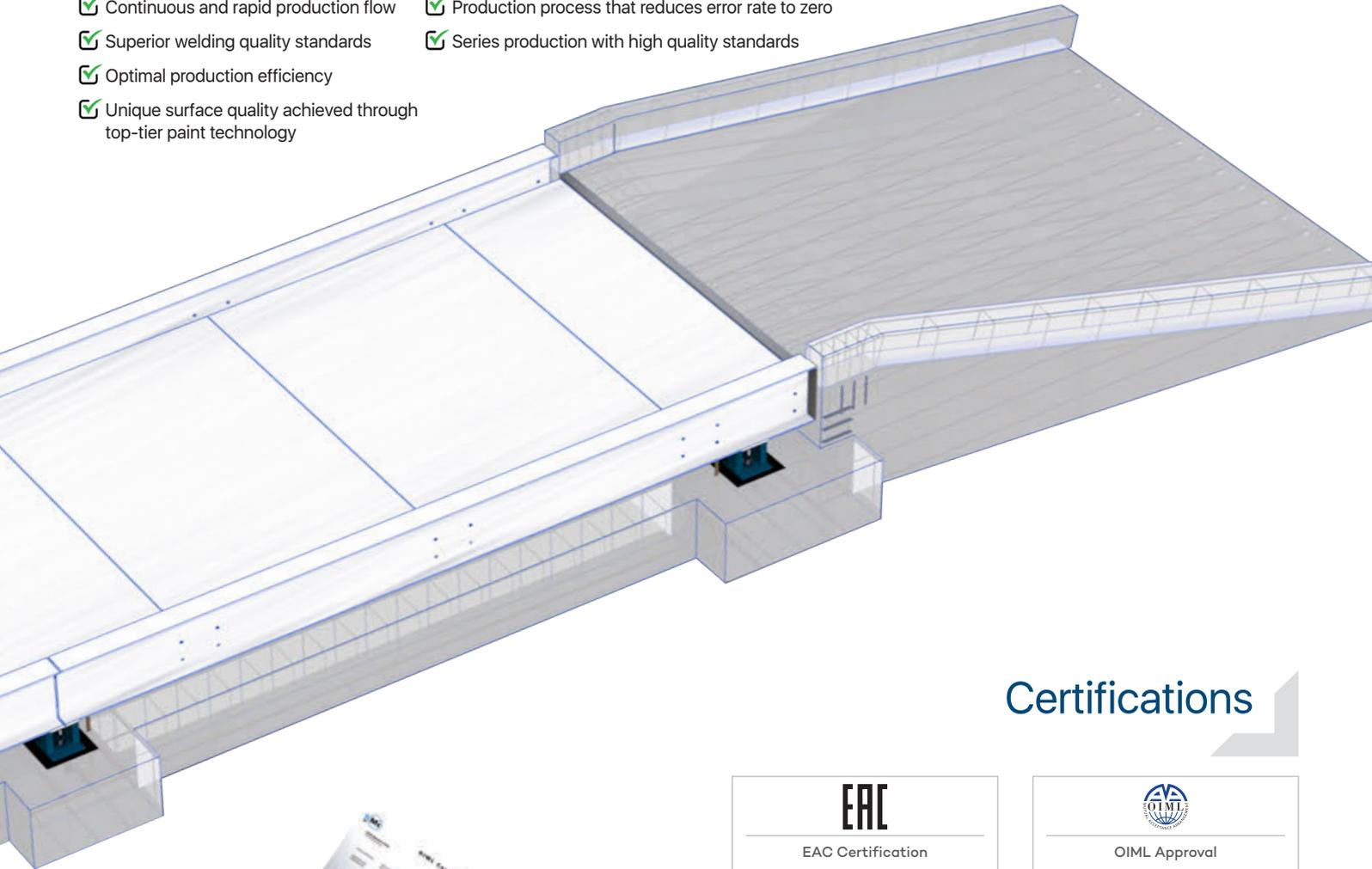
Exclusive design features are what make **KOBASTAR** truck scales #1 in the industry.

## High-strength steel construction

Developed utilizing modern manufacturing technologies, the TS1 GOLDEN® series electronic vehicle scales elevate the standard of "performance and weighing precision" with their innovative design. Static calculations conducted according to international engineering standards underscore the durability and robustness of TS1 GOLDEN®.

One of the most notable features of these scales is their production using automatic machines and jigs. Precision is ensured in all steel construction weighing platform processes, including sheet and profile cutting as well as connection hole drilling. At the end of the production process, welding operations are completed using robotic welding technology in the jigs.

- ✓ Continuous and rapid production flow
- ✓ Superior welding quality standards
- ✓ Optimal production efficiency
- ✓ Unique surface quality achieved through top-tier paint technology
- ✓ Production process that reduces error rate to zero
- ✓ Series production with high quality standards



## Certifications



## Option contents



### Truck recognition system

High-traffic weighing facilities can conduct fast and secure weighing operations without an operator by using an RF transmitter mounted on the vehicle to transmit vehicle information directly to the computer.



### IP Camera

Weighing scales capture vehicle photos for secure record-keeping, accessible for viewing, printing, or on-screen display. Optional license plate recognition for automated database entry.



### Weight indicator for self-service

A card reader at the scale entrance or exit lets drivers transfer vehicle information to the computer without leaving their vehicle, enabling operator-free weighing. One or two units can be used based on needs.



### Barrier

At scale entry and exit, it blocks other vehicles during weighing, ensuring the weighed vehicle can't exit until the process is complete. Controlled by terminal commands, weather-resistant.



### External display

It is used to display the weight of the weighed vehicle to others. It can be mounted in the scale booth or at a visible location outside. It features a 6-digit, easy-to-read red LED display.



### Traffic Lights

In series and high-traffic weighing scales, it regulates vehicle entry and exit traffic based on commands received from the weighing terminal. Mounted in the scale area or booth.



### Message display

Used for visual information and guidance of drivers in automated vehicle scales. Depending on the application, it can be installed in the scale area or booth.



### Safety Cabin

Cabins, crafted with high-quality materials, optimize work experience with ergonomic layouts and spacious interiors, enhancing productivity in any work environment.

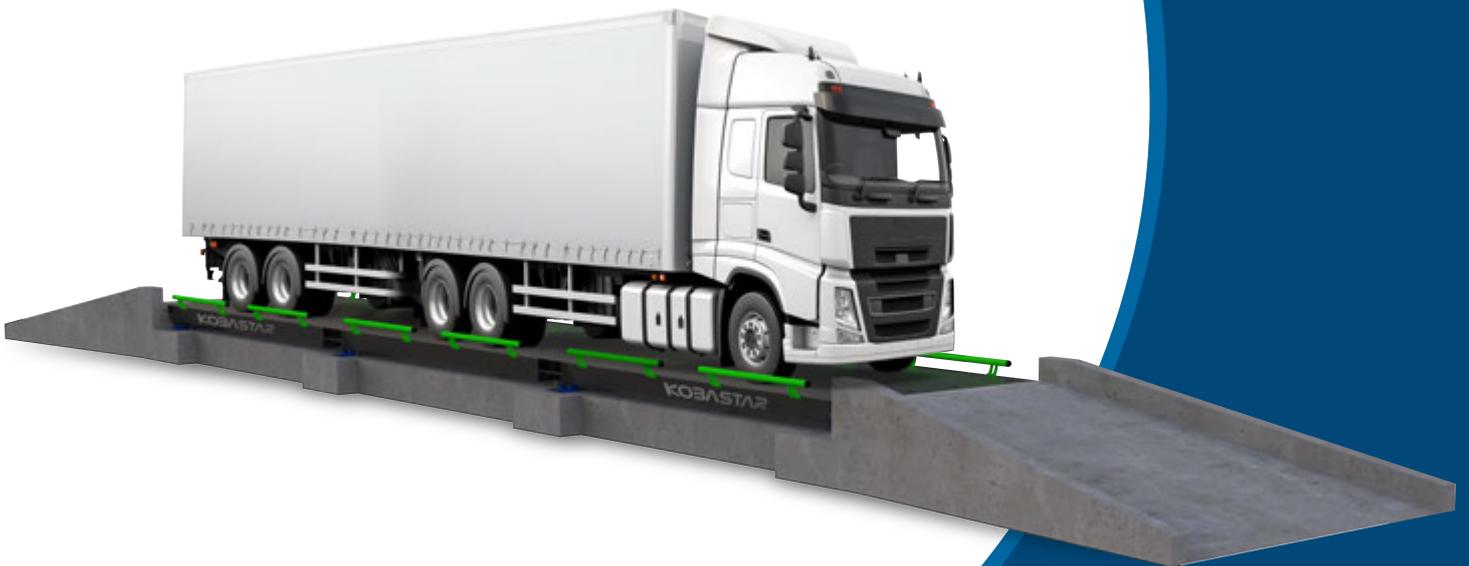
## TS1 Golden Series Capacity and Dimensions



| No | MODEL          | SIZE           | CAPACITY |     |
|----|----------------|----------------|----------|-----|
| 1  | 450.240.160.8  | PITLESS   BEAM | 3x6      | 60  |
| 2  | 450,240.160.8  | PITLESS   BEAM | 3x8      | 60  |
| 3  | 450,240.160.8  | PITLESS   BEAM | 3X9      | 60  |
| 4  | 450,240.160.8  | PITLESS   BEAM | 3X12     | 60  |
| 5  | 450,240.160.8  | PITLESS   BEAM | 3X12     | 80  |
| 6  | 450,240.160.8  | PITLESS   BEAM | 3x14     | 60  |
| 7  | 450,240.160.10 | PITLESS   BEAM | 3x14     | 80  |
| 8  | 450,240.160.8  | PITLESS   BEAM | 3x16     | 60  |
| 9  | 450,240.160.10 | PITLESS   BEAM | 3x16     | 80  |
| 10 | 500.270.180.10 | PITLESS   BEAM | 3x16     | 100 |
| 11 | 450.240.180.8  | PITLESS   BEAM | 3x18     | 60  |
| 12 | 450,240.180.10 | PITLESS   BEAM | 3x18     | 80  |
| 13 | 500.270.180.10 | PITLESS   BEAM | 3x18     | 100 |
| 14 | 500.270.180.10 | PITLESS   BEAM | 3x18     | 120 |
| 15 | 450.270.240.10 | PITLESS   BEAM | 3x20     | 80  |
| 16 | 500.270.240.10 | PITLESS   BEAM | 3x20     | 100 |
| 17 | 500.300.240.10 | PITLESS   BEAM | 3x20     | 120 |
| 18 | 450.270.240.10 | PITLESS   BEAM | 3x22     | 80  |
| 19 | 500.270.240.10 | PITLESS   BEAM | 3x22     | 100 |
| 20 | 500.300.240.10 | PITLESS   BEAM | 3x22     | 120 |
| 21 | 450.270.240.10 | PITLESS   BEAM | 3x24     | 80  |
| 22 | 500.270.240.10 | PITLESS   BEAM | 3x24     | 100 |
| 23 | 500.300.240.10 | PITLESS   BEAM | 3x24     | 120 |

## TS2 Bosphorus Series Truck Scales

The TS2 Bosphorus<sup>®</sup> series truck weighbridge, offering legendary reliability and precision, stands out in the industry with its design and provides an industry-leading 5-year warranty support.



# Design Features

## High-strength steel construction

The TS2 Bosphorus Series® Modular Type Truck and Lorry Weighbridges are the product of our extensive experience and engineering expertise, manufactured by our specialized teams with advanced technology and high-quality standards.

Our expert technical staff has specifically designed these weighbridges for heavy-duty and high-tonnage applications, ensuring maximum durability and quality at minimal cost.

Thanks to the high-section V-Beam system, made entirely of A-Grade steel, our Truck and Lorry Weighbridges are designed to carry 50% more than their nominal capacity, providing reliable performance for many years, even under the most challenging conditions.

With low maintenance costs, long-lasting structure, wide service network, and standard components that avoid spare part issues, the TS2 Bosphorus Series® Modular Type Truck and Lorry Weighbridges offer ease of use with user-friendly menus and fast processing capabilities.

Hands-Free Robotic Welding Technology

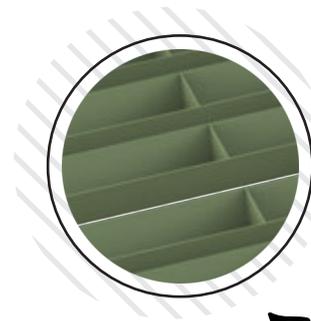
High Weighing Precision

Long-Lasting Durability

Custom-Designed V-Beam System

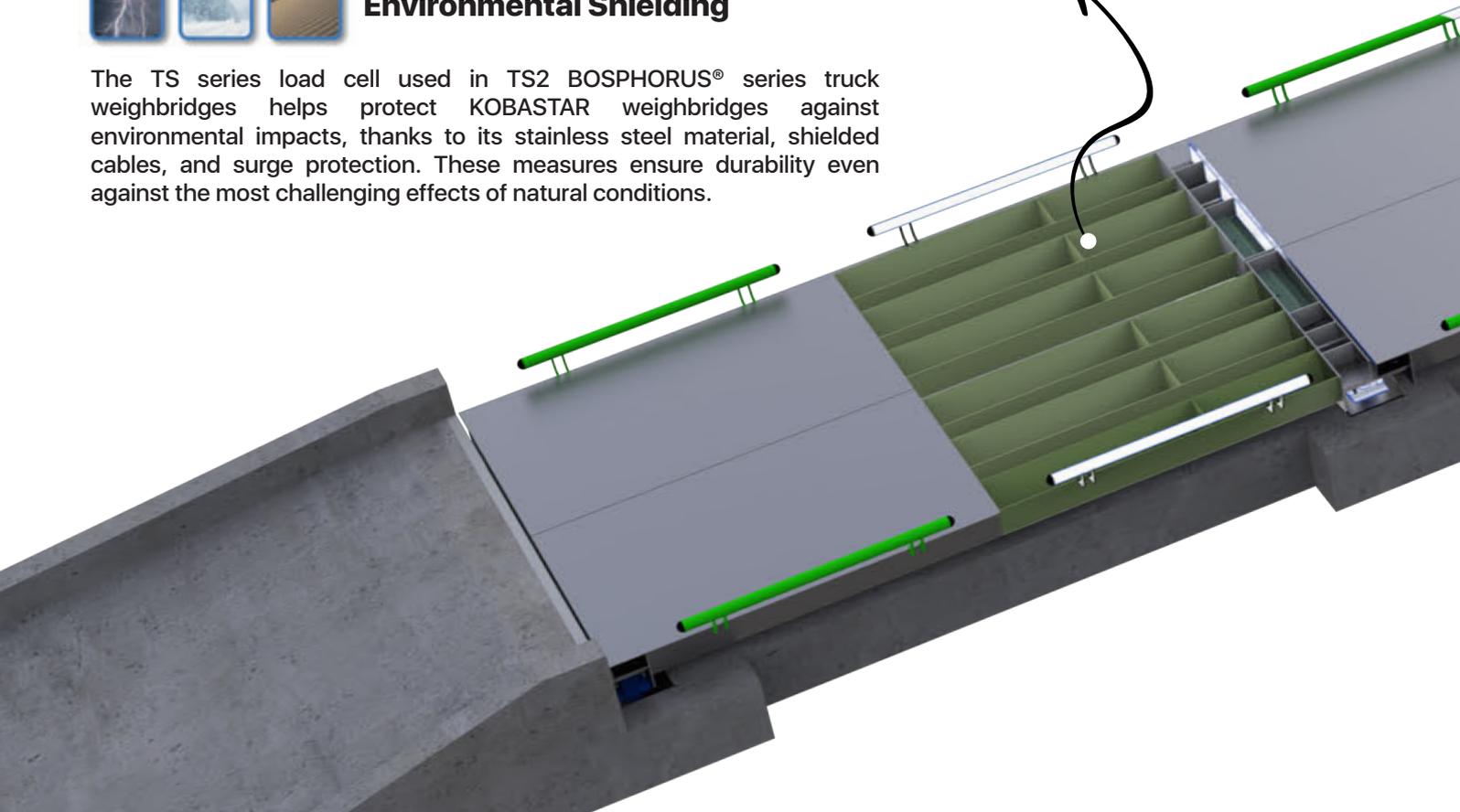
Economical and Reliable Service Maintenance Cost

Quick and Practical Installation



## Environmental Shielding

The TS series load cell used in TS2 BOSPHORUS® series truck weighbridges helps protect KOBASTAR weighbridges against environmental impacts, thanks to its stainless steel material, shielded cables, and surge protection. These measures ensure durability even against the most challenging effects of natural conditions.



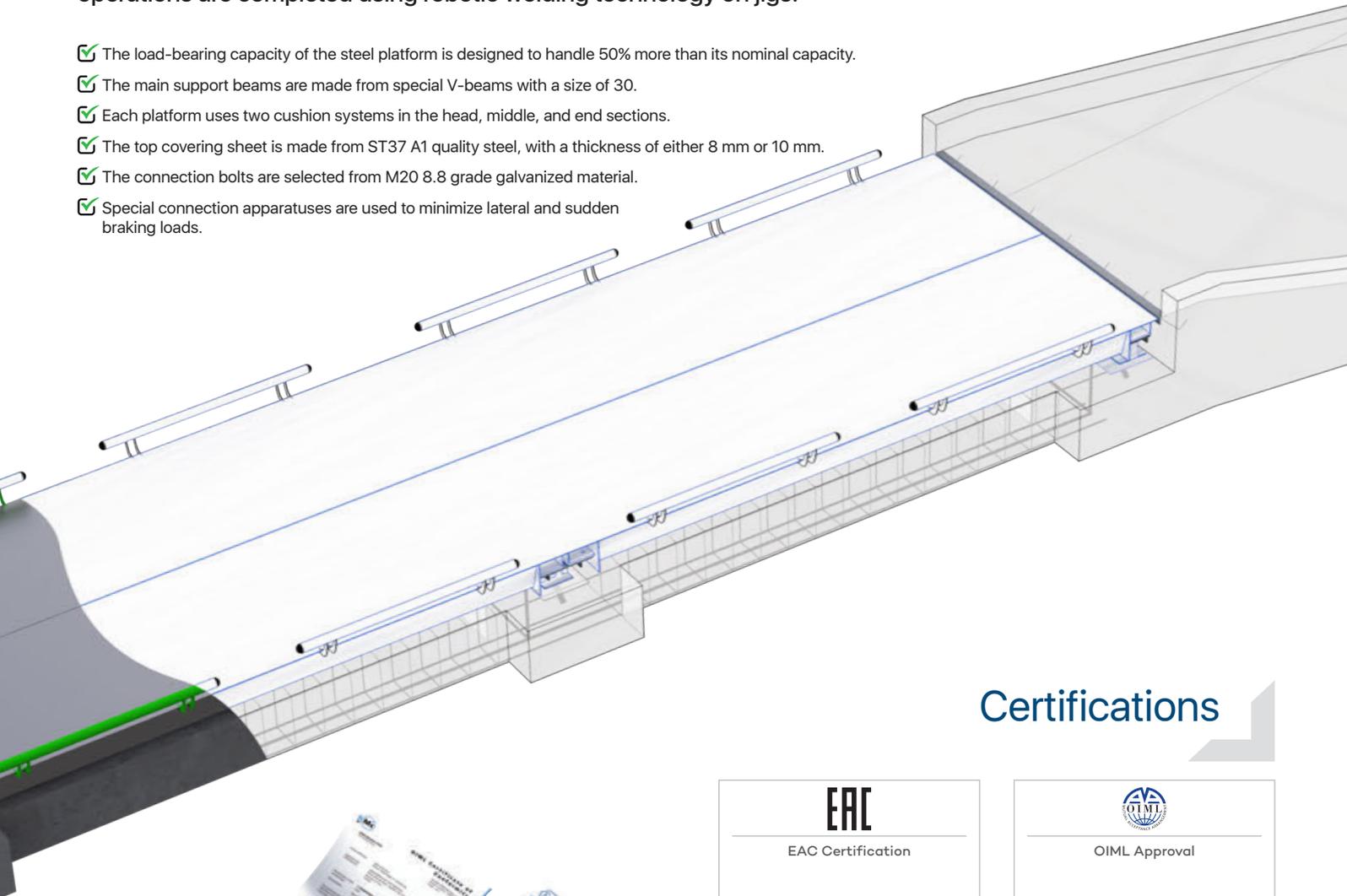
Exclusive design features are what make **KOBASTAR** truck scales #1 in the industry.

## High-strength steel construction

Developed using modern production technologies, the TS2 Bosphorus Series® electronic vehicle weighbridges elevate the standards of "performance and weighing precision" with their innovative designs. The static calculations made according to international engineering standards highlight the durability and robustness of the TS2 Bosphorus Series®.

One of the most important features of these weighbridges is that they are manufactured using automatic machines and jigs. Precision is ensured in all processes of the steel construction weighing platform, including sheet and profile cutting as well as drilling connection holes. At the end of the production process, welding operations are completed using robotic welding technology on jigs.

- ✔ The load-bearing capacity of the steel platform is designed to handle 50% more than its nominal capacity.
- ✔ The main support beams are made from special V-beams with a size of 30.
- ✔ Each platform uses two cushion systems in the head, middle, and end sections.
- ✔ The top covering sheet is made from ST37 A1 quality steel, with a thickness of either 8 mm or 10 mm.
- ✔ The connection bolts are selected from M20 8.8 grade galvanized material.
- ✔ Special connection apparatuses are used to minimize lateral and sudden braking loads.



## Certifications





## Option contents



### Truck recognition system

High-traffic weighing facilities can conduct fast and secure weighing operations without an operator by using an RF transmitter mounted on the vehicle to transmit vehicle information directly to the computer.



### IP Camera

Weighing scales capture vehicle photos for secure record-keeping, accessible for viewing, printing, or on-screen display. Optional license plate recognition for automated database entry.



### Weight indicator for self-service

A card reader at the scale entrance or exit lets drivers transfer vehicle information to the computer without leaving their vehicle, enabling operator-free weighing. One or two units can be used based on needs.



### Barrier

At scale entry and exit, it blocks other vehicles during weighing, ensuring the weighed vehicle can't exit until the process is complete. Controlled by terminal commands, weather-resistant.



### External display

It is used to display the weight of the weighed vehicle to others. It can be mounted in the scale booth or at a visible location outside. It features a 6-digit, easy-to-read red LED display.



### Traffic Lights

In series and high-traffic weighing scales, it regulates vehicle entry and exit traffic based on commands received from the weighing terminal. Mounted in the scale area or booth.



### Message display

Used for visual information and guidance of drivers in automated vehicle scales. Depending on the application, it can be installed in the scale area or booth.



### Safety Cabin

Cabins, crafted with high-quality materials, optimize work experience with ergonomic layouts and spacious interiors, enhancing productivity in any work environment.

## TS2 Bosphorus Series® Capacity and Dimensions



| DIMENSIONS | MAX. CAPACITY | MIN. CAPACITY | DISTRIBUTION | V-BEAM THIC. | TOP PLATFORM | LOAD CELL |
|------------|---------------|---------------|--------------|--------------|--------------|-----------|
| 3x8 m      | 60 Ton        | 400 kg        | 20 kg        | 4 mm         | 8 mm         | 6         |
| 3x8 m      | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 6         |
| 3x9 m      | 60 Ton        | 400 kg        | 20 kg        | 4 mm         | 8 mm         | 6         |
| 3x9 m      | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 6         |
| 3x12 m     | 60 Ton        | 400 kg        | 20 kg        | 4 mm         | 8 mm         | 6         |
| 3x12 m     | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 6         |
| 3x12 m     | 100 Ton       | 1000 kg       | 50 kg        | 6 mm         | 10 mm        | 6         |
| 3x14 m     | 60 Ton        | 400 kg        | 20 kg        | 4 mm         | 8 mm         | 8         |
| 3x14 m     | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 8         |
| 3x14 m     | 100 Ton       | 1000 kg       | 50 kg        | 6 mm         | 10 mm        | 8         |
| 3x15 m     | 60 Ton        | 400 kg        | 20 kg        | 4 mm         | 8 mm         | 8         |
| 3x15 m     | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 8         |
| 3x15 m     | 100 Ton       | 1000 kg       | 50 kg        | 6 mm         | 10 mm        | 8         |
| 3x16 m     | 60 Ton        | 400 kg        | 20 kg        | 4 mm         | 8 mm         | 8         |
| 3x16 m     | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 8         |
| 3x16 m     | 100 Ton       | 1000 kg       | 50 kg        | 6 mm         | 10 mm        | 8         |
| 3x18 m     | 60 Ton        | 400 kg        | 20 kg        | 4 mm         | 8 mm         | 8         |
| 3x18 m     | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 8         |
| 3x18 m     | 100 Ton       | 1000 kg       | 50 kg        | 6 mm         | 10 mm        | 8         |
| 3x20 m     | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 8         |
| 3x20 m     | 100 Ton       | 1000 kg       | 50 kg        | 6 mm         | 10 mm        | 10        |
| 3x22 m     | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 10        |
| 3x22 m     | 100 Ton       | 1000 kg       | 50 kg        | 6 mm         | 10 mm        | 10        |
| 3x24 m     | 80 Ton        | 1000 kg       | 50 kg        | 5 mm         | 10 mm        | 10        |
| 3x24 m     | 100 Ton       | 1000 kg       | 50 kg        | 6 mm         | 10 mm        | 10        |

## **TS3 Simplon Series Pit-Type Truck Scale**

The TS3 Simplon<sup>®</sup> series truck weighbridge, offering legendary reliability and precision, stands out in the industry with its design and provides an industry-leading 5-year warranty support.



# Design Features

## High-strength steel construction

The TS3 Simplon® Series Pit-Type Truck Weighbridge is the product of our extensive experience and engineering expertise, manufactured with high quality standards and advanced technology.

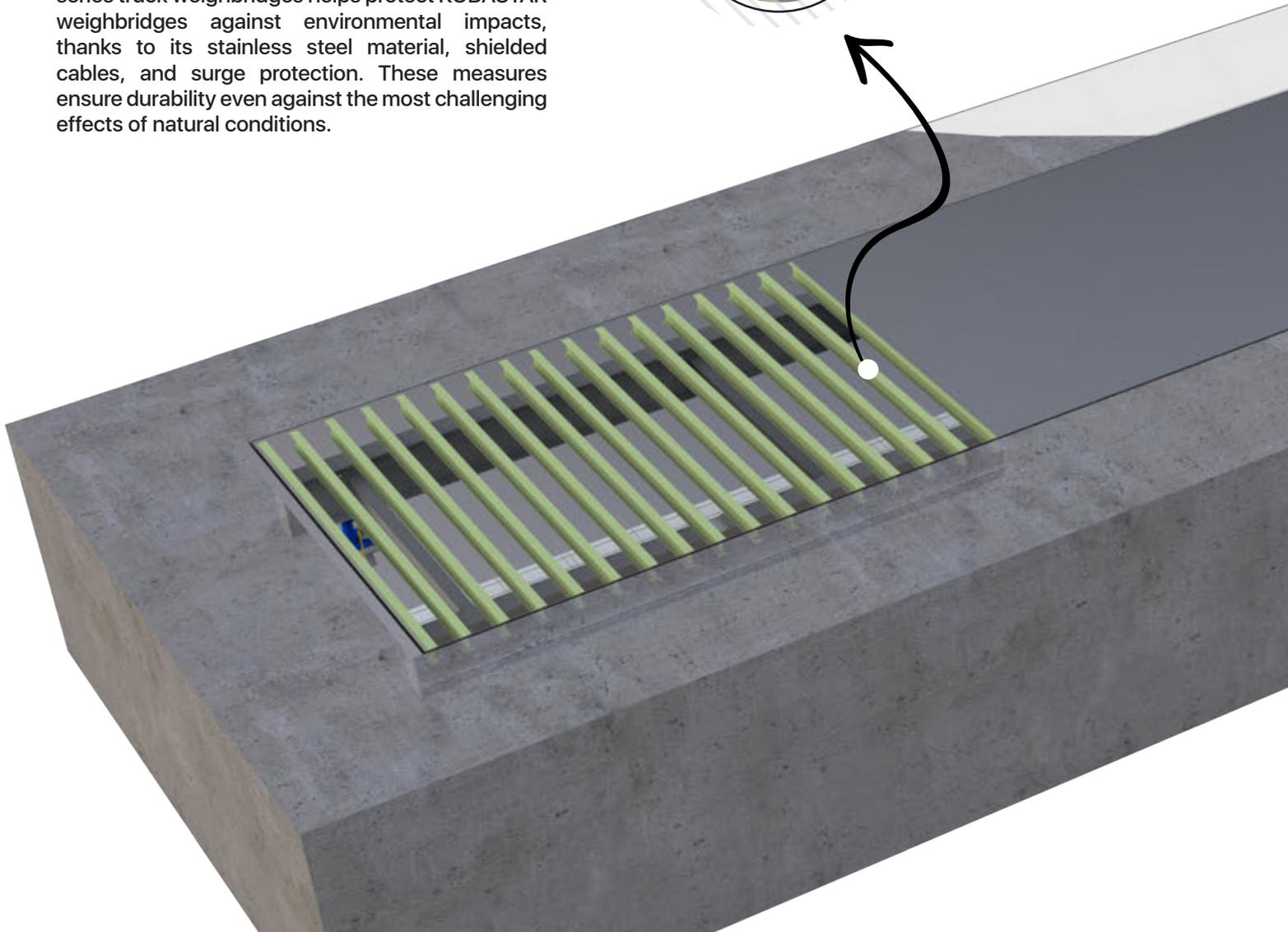
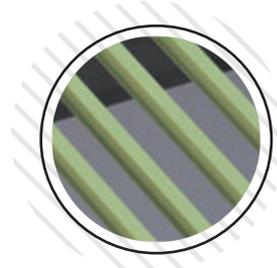
Designed for ease of use and maneuverability in confined spaces, this pit-type weighbridge is installed below ground, saving space in areas such as factory entrances. With its platform made of IPE-type steel and a top covering sheet at least 10 mm thick, it is built to withstand harsh heavy-duty conditions for extended periods.

The TS3 Simplon® Series Pit-Type Truck Weighbridge is an ideal solution for industries requiring heavy-duty performance, such as mining, agriculture, livestock, construction, and steel industries. It offers high durability, low maintenance costs, and long-lasting performance.



## Environmental Shielding

The TS series load cell used in TS3 SIMPLON® series truck weighbridges helps protect KOBASTAR weighbridges against environmental impacts, thanks to its stainless steel material, shielded cables, and surge protection. These measures ensure durability even against the most challenging effects of natural conditions.



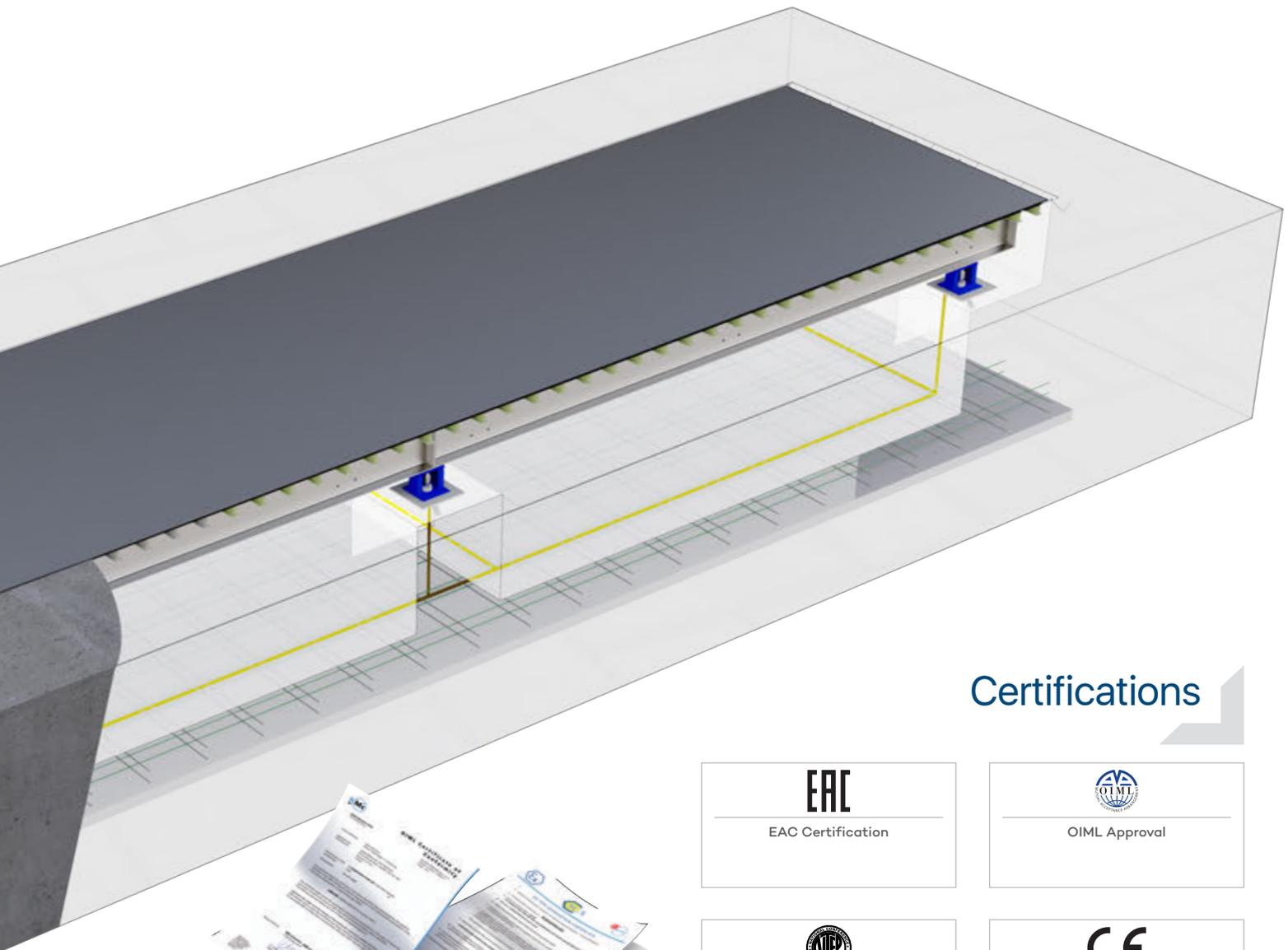
Exclusive design features are what make **KOBASTAR** truck scales #1 in the industry.

### High-strength steel construction

**Carries 50% More Than Nominal Capacity:** Ensures maximum durability under heavy load conditions. Operates smoothly even beyond its designed capacity due to its special design.

**High-Precision Weighing Sensors:** Performs weighing operations quickly and accurately with high precision. Provides reliable results for high-tonnage vehicles.

**Low Maintenance Costs:** Minimizes maintenance costs due to its long-lasting construction and durable materials. Offers easy use with user-friendly menus.



### Certifications



### Option contents



**Truck recognition system**  
High-traffic weighing facilities can conduct fast and secure weighing operations without an operator by using an RF transmitter mounted on the vehicle to transmit vehicle information directly to the computer.



**IP Camera**  
Weighing scales capture vehicle photos for secure record-keeping, accessible for viewing, printing, or on-screen display. Optional license plate recognition for automated database entry.



**Weight indicator for self-service**  
A card reader at the scale entrance or exit lets drivers transfer vehicle information to the computer without leaving their vehicle, enabling operator-free weighing. One or two units can be used based on needs.



**Barrier**  
At scale entry and exit, it blocks other vehicles during weighing, ensuring the weighed vehicle can't exit until the process is complete. Controlled by terminal commands, weather-resistant.



**External display**  
It is used to display the weight of the weighed vehicle to others. It can be mounted in the scale booth or at a visible location outside. It features a 6-digit, easy-to-read red LED display.



**Traffic Lights**  
In series and high-traffic weighing scales, it regulates vehicle entry and exit traffic based on commands received from the weighing terminal. Mounted in the scale area or booth.



**Message display**  
Used for visual information and guidance of drivers in automated vehicle scales. Depending on the application, it can be installed in the scale area or booth.



**Safety Cabin**  
Cabins, crafted with high-quality materials, optimize work experience with ergonomic layouts and spacious interiors, enhancing productivity in any work environment.

### TS3 Simplon Series® Capacity and Dimensions



| MODEL     | DIMENSIONS | MAX. CAPACITY | DISTRIBUTION | LOAD CELL |
|-----------|------------|---------------|--------------|-----------|
| TS-3-364  | 3X6        | 40 Ton        | 10/20 kg     | 4         |
| TS-3-384  | 3X8        | 40-50-60 Ton  | 10/20 kg     | 4         |
| TS-3-3106 | 3X10       | 40-50-60 Ton  | 10/20 kg     | 6         |
| TS-3-3126 | 3X12       | 40-50-60 Ton  | 10/20 kg     | 6         |
| TS-3-3146 | 3X14       | 60-80 Ton     | 20/50 kg     | 6         |
| TS-3-3168 | 3X16       | 60-80-100 Ton | 20/50 kg     | 8         |
| TS-3-3188 | 3X18       | 60-80-100 Ton | 20/50 kg     | 8         |
| TS-3-3208 | 3X20       | 60-80-100 Ton | 20/50 kg     | 10        |
| TS-3-3228 | 3X22       | 60-80-100 Ton | 20/50 kg     | 10        |

## TS5 Carcassa Series Truck Scales

The TS5 Carcassa<sup>®</sup> series truck weighbridge, offering legendary reliability and precision, stands out in the industry with its design and provides an industry-leading 5-year warranty support.



# Design Features

## High-strength C50 quality concrete

The TS5 Carcassa® Series Truck Weighbridge, developed by Kobastar, offers top-level performance and durability for heavy load and industrial weighing needs. This weighbridge system is reinforced with high-strength C50 quality concrete and pre-stressed steel reinforcements, effectively transforming bridge and viaduct construction systems into weighing bridges. This design ensures superior durability even under the most challenging conditions.

The TS5 Carcassa® Series features a modular structure, providing both quick installation and easy transportability. With its ramps, the weighbridge can be mechanically installed in just 1 hour when mounted on the ground. Additionally, it can be easily relocated to different areas if needed, offering flexible usage and minimizing infrastructure requirements.

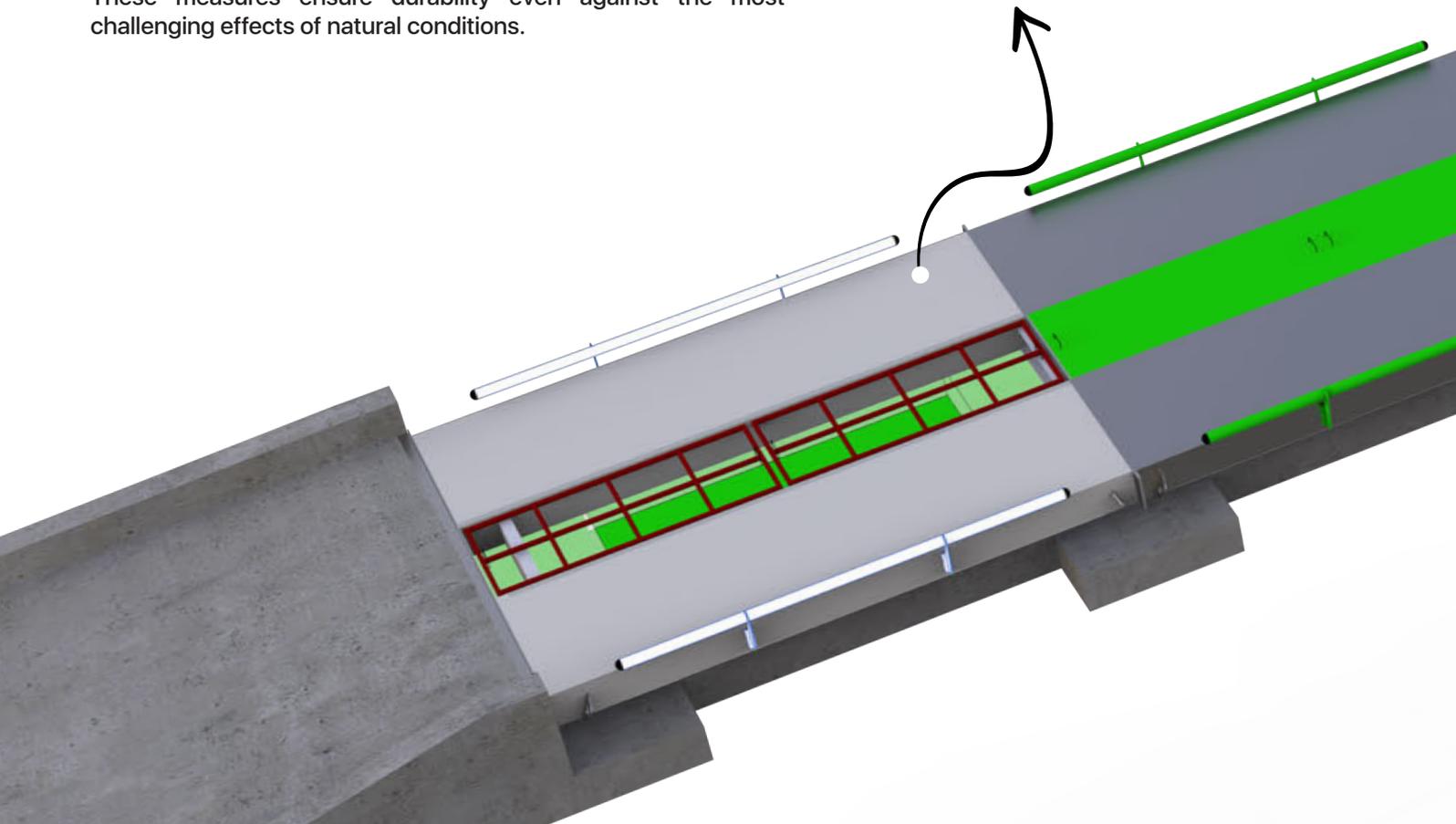
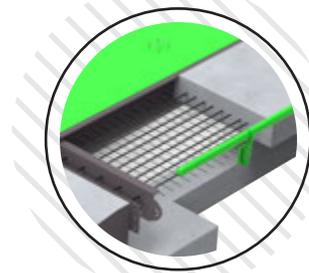
The weighbridge uses OIML R60 C4 certified load cells with a 30-ton capacity, delivering reliable results even in harsh environmental conditions. These load cells, made of stainless steel with an IP68 protection class, offer high durability against adverse weather conditions and corrosion. Mounting kits that protect against lateral loads prevent incorrect weighings, ensuring long-term, accurate operation of the system.



## Environmental Shielding

The TS series load cell used in TS5 CARCASSA® series truck weighbridges helps protect KOBASTAR weighbridges against environmental impacts, thanks to its stainless steel material, shielded cables, and surge protection.

These measures ensure durability even against the most challenging effects of natural conditions.



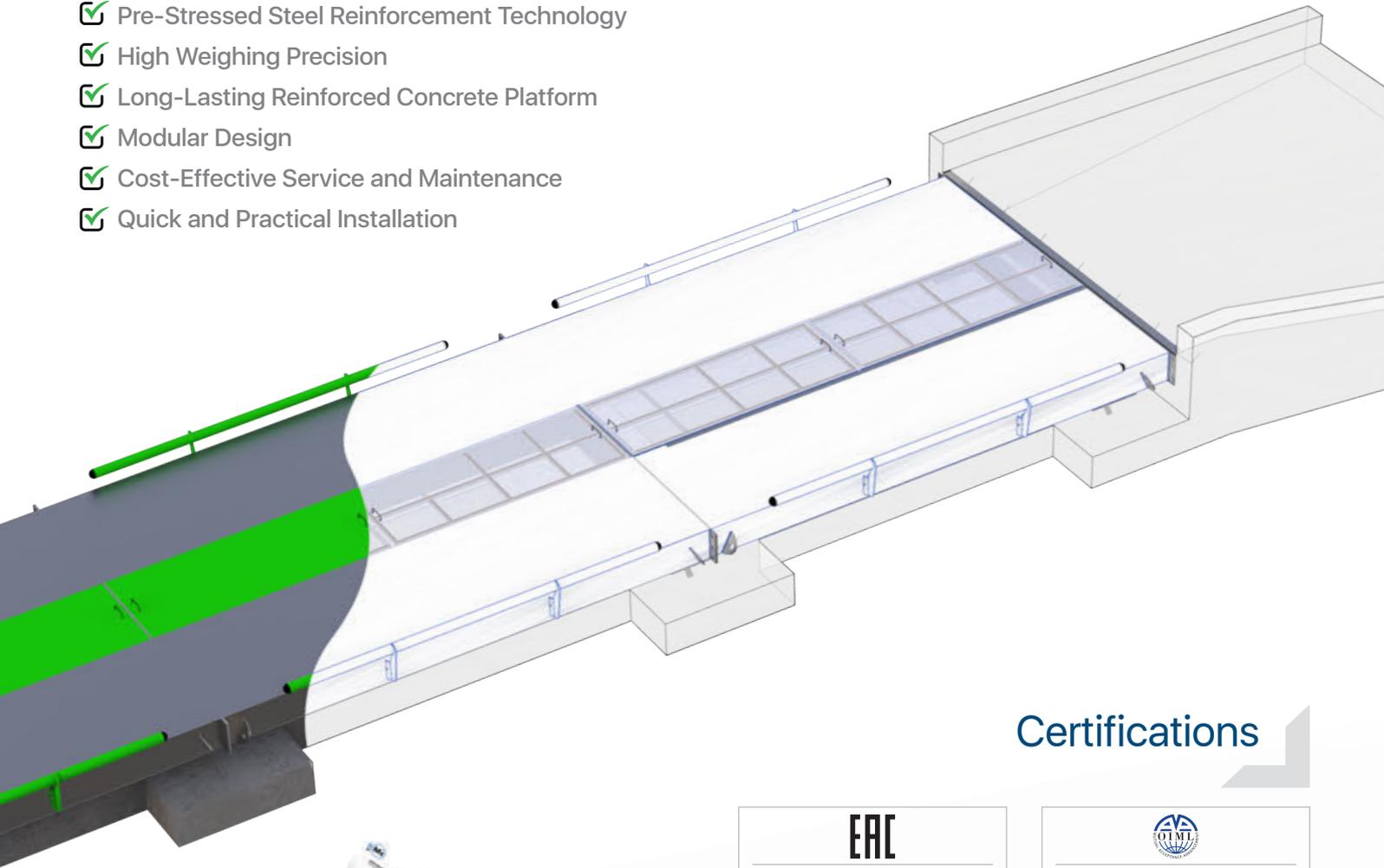
Exclusive design features are what make **KOBASTAR** truck scales #1 in the industry.

## High-strength C50 quality concrete

The TS5 Carcassa® Series provides easy management of weighing operations thanks to its advanced weighing software. Data can be exported in various formats, including XML, PDF, and Excel. Additionally, it supports full integration with additional features such as license plate reading and light management systems, enhancing operational efficiency and delivering maximum benefits to users.

This innovative solution from Kobastar adds value to your business with its high performance and operational flexibility.

- ✓ Pre-Stressed Steel Reinforcement Technology
- ✓ High Weighing Precision
- ✓ Long-Lasting Reinforced Concrete Platform
- ✓ Modular Design
- ✓ Cost-Effective Service and Maintenance
- ✓ Quick and Practical Installation



## Certifications



## Option contents



### Truck recognition system

High-traffic weighing facilities can conduct fast and secure weighing operations without an operator by using an RF transmitter mounted on the vehicle to transmit vehicle information directly to the computer.



### IP Camera

Weighing scales capture vehicle photos for secure record-keeping, accessible for viewing, printing, or on-screen display. Optional license plate recognition for automated database entry.



### Weight indicator for self-service

A card reader at the scale entrance or exit lets drivers transfer vehicle information to the computer without leaving their vehicle, enabling operator-free weighing. One or two units can be used based on needs.



### Barrier

At scale entry and exit, it blocks other vehicles during weighing, ensuring the weighed vehicle can't exit until the process is complete. Controlled by terminal commands, weather-resistant.



### External display

It is used to display the weight of the weighed vehicle to others. It can be mounted in the scale booth or at a visible location outside. It features a 6-digit, easy-to-read red LED display.



### Traffic Lights

In series and high-traffic weighing scales, it regulates vehicle entry and exit traffic based on commands received from the weighing terminal. Mounted in the scale area or booth.



### Message display

Used for visual information and guidance of drivers in automated vehicle scales. Depending on the application, it can be installed in the scale area or booth.



### Safety Cabin

Cabins, crafted with high-quality materials, optimize work experience with ergonomic layouts and spacious interiors, enhancing productivity in any work environment.

## TS5 Carcassa Series® Capacity and Dimensions



| MODEL       | DIMENSIONS | MAX. CAPACITY | DISTRIBUTION        | LOAD CELL |
|-------------|------------|---------------|---------------------|-----------|
| TS-5-386    | 3X8        | 60 - 80 Ton   | 10/20 kg - 20/50 kg | 6         |
| TS-5 -3128  | 3X12       | 60 - 80 Ton   | 10/20 kg - 20/50 kg | 8         |
| TS-5 -31610 | 3X16       | 60 - 80 Ton   | 10/20 kg - 20/50 kg | 10        |
| TS-5 -32012 | 3X20       | 60 - 80 Ton   | 10/20 kg - 20/50 kg | 12        |



# TS Compression Type Load Cell



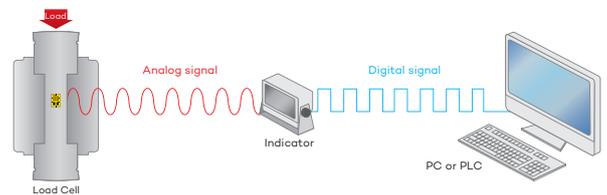
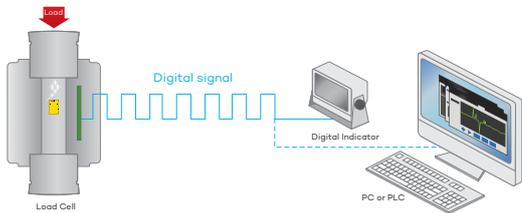
TS is a high precision compression type load cell manufactured in various capacities from 10 tonnes to 50 tonnes.

With nickel plated alloy or stainless steel body and hermetic sealing, it can be used in harsh industrial applications. provides reliable accuracy in applications.

It can be used in a wide range of industrial weighing applications with mounting kits developed for TS.

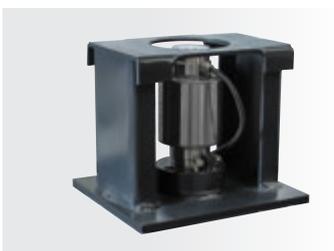
The analog data from the load cell can be utilized in microcontrollers or digital systems. ADCs (Analog-to-Digital Converters) convert the analog signal into digital format and transfer it to microcontrollers or other digital devices.

## Digital & Analog Load Cell



|                                    |                             |                                   |   |
|------------------------------------|-----------------------------|-----------------------------------|---|
| Capacity                           | 10, 20, 25, 30, 40, 50 Tons | Insulation Resistance             | ≤ 5000 MΩ [100VDC]                          |
| Accuracy Class                     | C4                          | Compensated Operating Temperature | -10 ~ + 40 °C                               |
| Minimum Load                       | 0 kg                        | Operating Temperature Range       | -30 ~ + 70 °C                               |
| Maximum Number of Partitions (nLC) | 4000                        | Recommended Excitation Voltage    | 10 VDC                                      |
| Minimum Measurement Range          | 15000                       | Maximum Excitation Voltage (Umax) | 15 VDC                                      |
| Total Error                        | ±0.018 %FS                  | Overload Capacity                 | 150 % FS                                    |
| Output Gain (FS)                   | 2.00 ± 0.005mV/V            | Fracture Load                     | 300 % FS                                    |
| Zero Balance                       | ± 1 %FS                     | Protection Class (EN60529)        | IP 68                                       |
| Input Resistance                   | 700 Ω ± 15 Ω                | Load Cell Material                | Alloy Steel / Stainless Steel               |
| Output Resistance                  | 700 Ω ± 5 Ω                 | Cable                             | 4x0.22mm <sup>2</sup> - 15M. [10Ton : 10M.] |

## Truck Scales Mounting Kit



TS Mounting kits are used to protect truck scales, platform scales and industrial applications from the lateral loads.

Minimize weighing errors resulting from deformation of weighing platform



# K1 Weighing Indicator



The K1 Weighing Indicator is suitable for use in various fields and is certified with OIML R76 and European type approval certificates.

It features a high-precision A/D conversion rate (1/30000), adjustable zero tracking range, and a low battery indicator.

The indicator also includes automatic shutdown and power protection features, as well as the capability for live animal weighing.

Information sharing is supported through its RS232 communication feature.



Optional  
**ID 511 Weighing Indicator**



## Benefits



Our product comes with various options with the possibility of personalisation.

### Thermal Receipt Printer



### OEM PC



### External Indicator



### Weighing Software



### Wireless Connection



## Load Cell and Data Cables

All cables in the TS1 GOLDEN® series vehicle scales are protected with steel cable guards against rodents and external impacts.

## JBS-4/6/8 Load Cell Junction Box



JBS Stainless steel collection boxes enable the cables coming from the load cells to be collected in a single box in weighing systems where more than one load cell is used.

The connection is made easily with the terminals on it and the signals coming from the load cells are synchronized with each other with the adjustable terminal blocks.

In this way, the weight value is equal in every corner of the weighing system.

Kobastar JBS series collection boxes provide accurate measurement by adjusting the signal cables of the load cells.



# ID 511 Weighing Indicator



- 7-bit LED display
- Supports 1 analog scale input, with a maximum of 12 load cells
- Metrological approval (CPA) 6000e certified accuracy, OIML: 6000e.
- **Have got OIML & CE certificates**
- Standard with serial ports x 2 RS232+RS232/485 or serial ports x 2 RS232+RS485 with one LAN port
- Standard supports MODBUS-RTU, MODBUS-TCP (only supported by the ethernet version)
- Optional PLC communication interface
  - PROFIBUS-DP (Siemens PLC)
  - PROFINET (dual LAN ports, built-in switch, Siemens PLC)
  - EtherNet/IP (dual LAN ports, built-in switch, Rockwell PLC, Delta PLC)
  - CC-Link (Mitsubishi PLC)
  - Scale x 1 4-20mA (16-bit precision DAC)
  - Scales x 2 4-20mA (16-bit precision DAC)
- I/O (input/output options)
  - In x 8 / OC Out x 12
  - In x 8 / Relay Out x 12
- Multiple calibration modes
  - Supports up to 5-point calibration
  - Calibration without weights
  - Remote calibration through PLC communication interface
  - Lower/upper limit material level detection
- The working power supports AC 85-264VAC or DC 24VDC, and the maximum power consumption of the complete machine is less than 6W;



## Benefits

Our product comes with various options with the possibility of personalisation.

### Thermal Receipt Printer



### OEM PC



### External Indicator



### Weighing Software



### Wireless Connection



## Load Cell and Data Cables

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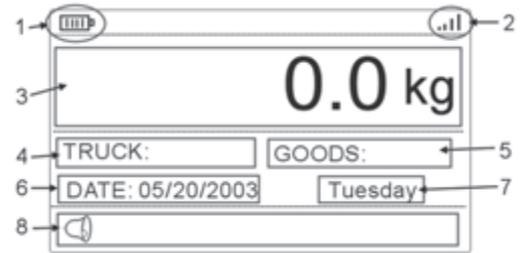
The connection is made easily with the terminals on it and the signals coming from the load cells are synchronized with each other with the adjustable terminal blocks.

In this way, the weight value is equal in every corner of the weighing system.

Kobastar JBS series collection boxes provide accurate measurement by adjusting the signal cables of the load cells.



## AXLE SCALE



### DESCRIPTION

Portable Axle Scales Truck, Truck, Tractor, Airplane, Train etc. It is made of light alloy aluminum material to weigh the axle weights of the vehicles and can be carried easily.

It is compact with load cells specially produced for axle scales.

Thanks to the built-in rubber ramps, vehicles can easily climb onto the scale, the height is only 38 mm.

Platform dimensions are standard 500x700x38 mm.

There are wired and wireless indicator options.

Provides perfect accuracy with 1/3000 partition accuracy.

Weighing indicator with special bag is easily connected to Axle scales wirelessly, it displays the weights and total weight of the axles weighed separately on the screen.

It prints the weights, total weight, date and time of the axles weighed with the thermal printer.

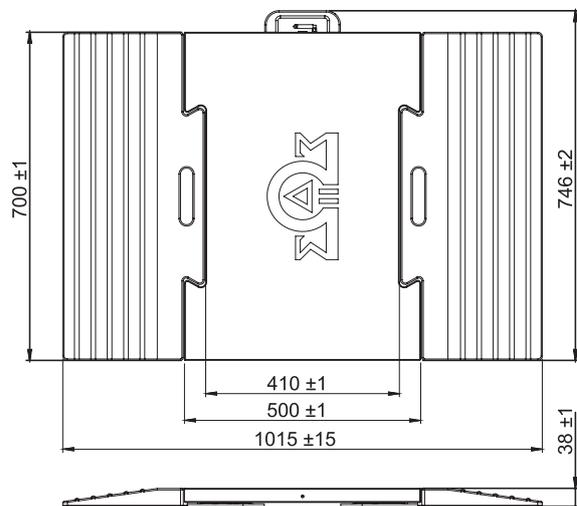
With the carrying handle, it can be easily moved to the desired location, it is light.

### APPLICATIONS

Weight control for lorries, trucks and other land and air vehicles

### TECHNICAL SPECIFICATIONS

|                       |                                |
|-----------------------|--------------------------------|
| MODEL                 | AXLE                           |
| CAPACITY              | 2x5 - 2x10 - 2x20 TON          |
| DIVISION              | 5 - 10 KG                      |
| SIZES                 | 700x500x38                     |
| PLATFORM MATERIAL     | Aluminium                      |
| RAMP MATERIAL         | Rubber                         |
| PROTECTION CLASS      | IP66                           |
| OPERATION TEMPERATURE | -10c° - 40C°                   |
| ABOUT WEIGHT          | 32 KG                          |
| WIRELESS FREQUENCY    | 430 / 470 MHZ                  |
| WIRELESS RANGE        | 60 Meters                      |
| A/D CONVERSION        | $\Sigma$ - $\Delta$ 24bit      |
| EXCITATION VOLTAGE    | 7.4V / 5Ah / 8.4V / 1A charger |
| BATTERY WORKING TIME  | 50 Hours                       |
| DISPLAY               | 240*128 Dot, 6 Digit           |
| WEIGHT UNITS          | Kg, Ton, Lb, kN                |
| PRINTER               | 50mm Receipt Printer           |
| SIZES                 | 280x250x100mm                  |





## BS SINGLE POINT PLATFORM SCALE



### DESCRIPTION

BS Electronic scale is a robust and reliable single load cell full electronic scale suitable for industrial and commercial use. It is a European type approval certified, commercially approved CE certificate.

### APPLICATIONS

Production  
Storage  
Cargo / Shipping  
Quality Control  
Commercial weighing applications

### TECHNICAL SPECIFICATIONS

2 Stage Weighing  
Single load cell double chassis platform  
Electrostatic oven painted  
Overload resistant  
LCD and LED indicator options  
Suitable for industrial weighing applications  
High precision 24 bit Delta-Sigma Analog / Digital converter  
Automatic power saving and automatic shutdown

Zero tracking on opening, manual reset  
Working with Built-in rechargeable battery and 220V AC  
Kg/Lb/Lt unit change and part counting  
Manual input tare, Auto Tare and Tare  
Weighing control HI-OK-LO Buzzer  
RS 232 communication, receipt and tag output, PC connection  
Widespread service network, 2 years warranty  
Production opportunity in desired dimensions and capacities

| MODEL | CAPACITY                | SIZES (cm)            |
|-------|-------------------------|-----------------------|
| BS    | 30/60 kg x 10/20 g      | 35x40 , 40x50         |
| BS    | 60/150 kg x 20/50 g     | 35x40 , 40x50 , 50x60 |
| BS    | 150/300 kg x 50/100 g   | 50x60,60x80,70x80     |
| BS    | 300/600 kg x 100/200 g  | 60x80,70x80,80x90     |
| BS    | 600/1000 kg x 200/500 g | 90x110,120x120        |
| BS    | 600/1500 kg x 200/500 g | 90x110,120x120        |



**DESCRIPTION**

U type Platform Scales is a scale designed for easy weighing of pallets carried by forklift and pallet truck. 4 OIML R60 certified C4 class load cells are used in U form solid steel platform. It is easily portable and lightweight with 2 wheels on the front of the scale and carrying handle on the other side. There are also complete stainless versions of U scale which is produced as electrostatic painted as standard. It is a European type approval certified, commercially approved CE certificate.

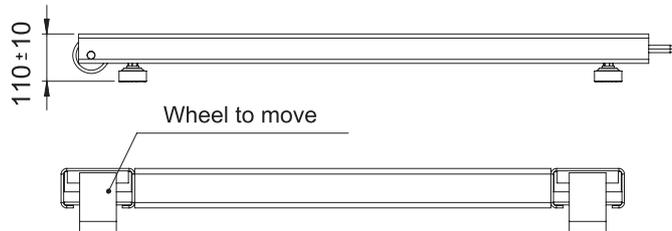
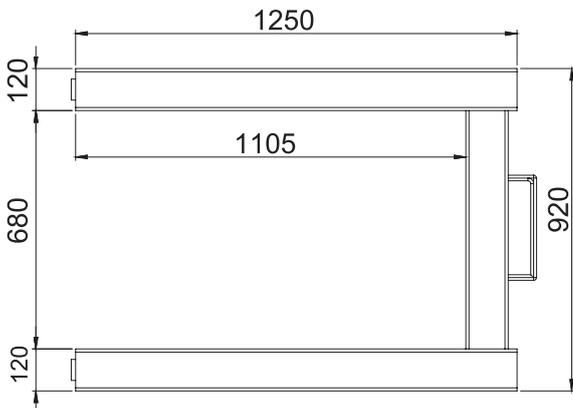
**APPLICATIONS**

Production / Storage / Cargo / Shipping / Quality Control / Commercial weighing applications

**TECHNICAL SPECIFICATIONS**

2 Stage Weighing  
 4 load cell U chassis platform  
 Electrostatic oven painted (Stainless AISI304)  
 Overload resistant  
 LCD and LED indicator options  
 Suitable for industrial weighing applications  
 High precision 24 bit Delta-Sigma Analog / Digital converter  
 Automatic power saving and automatic shutdown

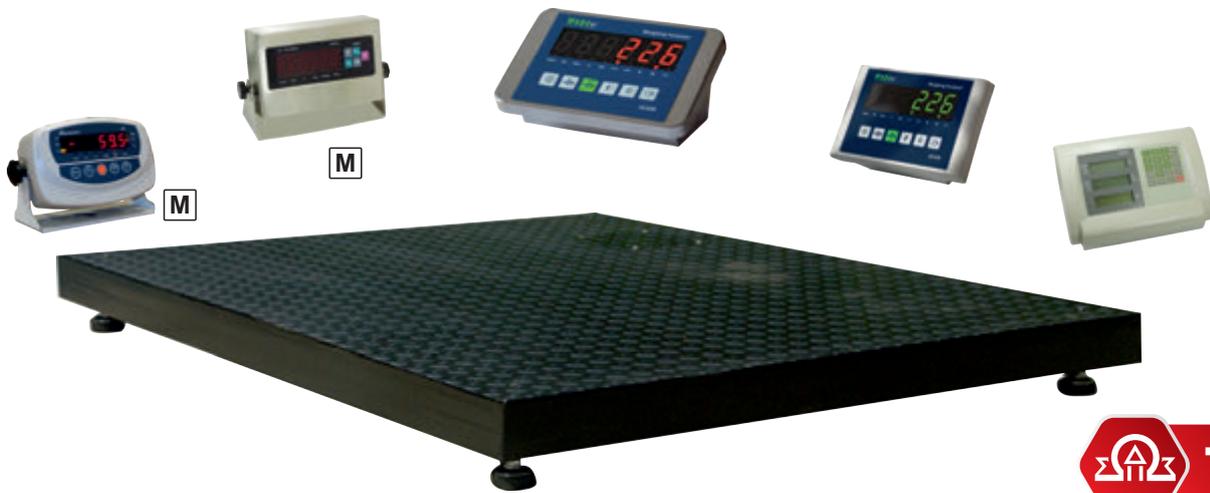
Zero tracking on opening, manual reset  
 Working with Built-in rechargeable battery and 220V AC  
 Kg/Lb/Lt unit change and part counting  
 Manual input tare, Auto Tare and Tare  
 Weighing control HI-OK-LO Buzzer  
 RS 232 communication, receipt and tag output, PC connection  
 Widespread service network, 2 years warranty  
 Production opportunity in desired dimensions and capacities



| MODEL | CAPACITY                 | SIZES (mm)   |
|-------|--------------------------|--------------|
| U+4LC | 300/600 kg x 0.1/0.2 Kg  | 1250X920,100 |
| U+4LC | 600/1500 kg x 0.2/0.5 Kg | 1250X920,100 |
| U+4LC | 1500/3000 kg x 0.5/1 Kg  | 1250X920,100 |



## TP PLATFORM TYPE FLOOR SCALE



### DESCRIPTION

The TP Platform floor scales are industrial and commercially available scales equipped with a solid steel platform designed to operate in heavy industrial conditions and 4 CIM class load cells with OIML R60 certification.

Pallet truck-like transport trolleys can be removed by ramping on both sides of the scale, which is about 10cm high from the ground.

It is a European type approval certified, commercially approved CE certificate.

### APPLICATIONS

Production  
Storage  
Cargo / Shipping  
Quality Control  
Commercial weighing applications

### TECHNICAL SPECIFICATIONS

2 Stage Weighing  
4 load cell single chassis platform  
Electrostatic oven painted (Stainless AISI304)  
Overload resistant  
LCD and LED indicator options  
Suitable for industrial weighing applications  
High precision 24 bit Delta-Sigma Analog / Digital converter  
Automatic power saving and automatic shutdown

Zero tracking on opening, manual reset  
Working with Built-in rechargeable battery and 220V AC  
Kg/Lb/Lt unit change and part counting  
Manual input tare, Auto Tare and Tare  
Weighing control HI-OK-LO Buzzer  
RS 232 communication, receipt and tag output, PC connection  
Widespread service network, 2 years warranty  
Production opportunity in desired dimensions and capacities

| MODEL  | CAPACITY                 | SIZES (cm)                      |
|--------|--------------------------|---------------------------------|
| TP+4LC | 300/600 kg x 0.1/0.2 Kg  | 100X100,120x120                 |
| TP+4LC | 600/1000 kg x 0.2/0.5 Kg | 100X100,120x120,120X150         |
| TP+4LC | 600/1500 kg x 0.2/0.5 Kg | 120x120,120X150,150X150         |
| TP+4LC | 1500/3000 kg x 0.5/1 Kg  | 120x120,120X150,150X150         |
| TP+4LC | 3000/6000 kg x 1/2 Kg    | 120X150,150X150,150X200,200X200 |
| TP+4LC | 6000/10000 kg x 2/5 Kg   | 150X150,150X200,200X200,200X300 |



## CP PLATFORM TYPE GROUND SCALE



### DESCRIPTION

The CP Platform Type Floor Scales are industrial and commercially available scales equipped with double chassis solid steel platform and 4 IP68 protected OIML R60 certified C4 class load cells designed to work in heavy industrial conditions. It is a European type approval certified, commercially approved CE certificate.

### APPLICATIONS

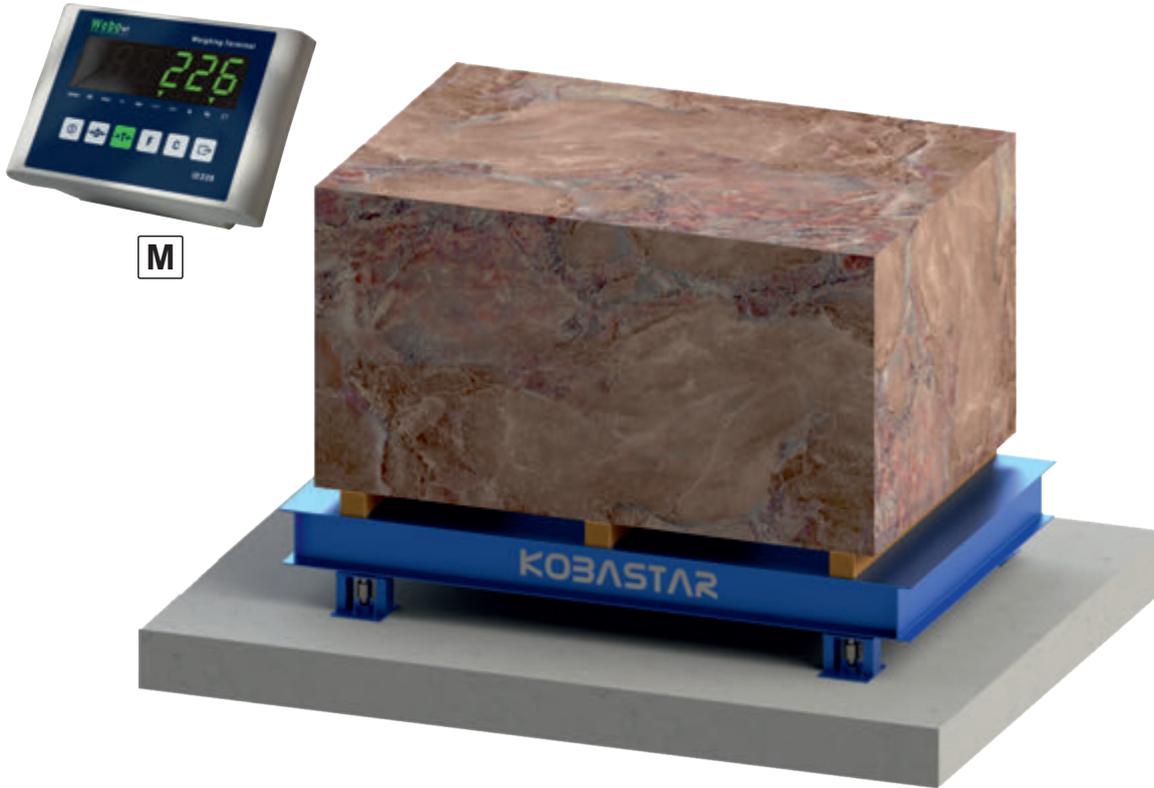
Production / Storage / Cargo / Shipping / Quality Control / Commercial weighing applications

### TECHNICAL SPECIFICATIONS

2 Stage Weighing  
4 load cell single chassis platform  
Electrostatic oven painted (Stainless AISI304)  
Overload resistant  
LCD and LED indicator options  
Suitable for industrial weighing applications  
High precision 24 bit Delta-Sigma Analog / Digital converter  
Automatic power saving and automatic shutdown

Zero tracking on opening, manual reset  
Working with Built-in rechargeable battery and 220V AC  
Kg/Lb/Lt unit change and part counting  
Manual input tare, Auto Tare and Tare  
Weighing control HI-OK-LO Buzzer  
RS 232 communication, receipt and tag output, PC connection  
Widespread service network, 2 years warranty  
Production opportunity in desired dimensions and capacities

| MODEL  | CAPACITY                 | SIZES (cm)                      |
|--------|--------------------------|---------------------------------|
| CP+4LC | 300/600 kg x 0.1/0.2 Kg  | 100X100,120x120                 |
| CP+4LC | 600/1000 kg x 0.2/0.5 Kg | 100X100,120x120,120X150         |
| CP+4LC | 600/1500 kg x 0.2/0.5 Kg | 120x120,120X150,150X150         |
| CP+4LC | 1500/3000 kg x 0.5/1 Kg  | 120x120,120X150,150X150         |
| CP+4LC | 3000/6000 kg x 1/2 Kg    | 120X150,150X150,150X200,200X200 |
| CP+4LC | 6000/10000 kg x 2/5 Kg   | 150X150,150X200,200X200,200X300 |



## DESCRIPTION

Marble Scale It is used for weighing marble blocks in mines.

MK series scales can be produced in desired capacities and sizes.

As standard, a 30 ton capacity print type OIML R60 Certified TS Model domestic production steel load cell is used.

It is designed without sacrificing quality to provide years of trouble-free service under difficult conditions such as marble scales, solid steel platform and mines.

It is a European type approval and certified, commercially approved CE certificate.

## APPLICATIONS

Marble quarries

Quarries

Mining

## TECHNICAL SPECIFICATIONS

Domestic production suitable for industrial use

Single chassis steel platform

4 high capacity pressure type steel load cells

Overload and impact resistant platform

Easy-to-read LED or LCD display

High precision 24 bit Delta-Sigma Analog / Digital converter

Automatic power protection feature

Use with internal rechargeable battery and 220 Ac

Overlapping feature

Auto reset, Tare

RS 232 communication, receipt and label output, PC connection

Extensive service network, 2 years warranty

Production opportunity in desired dimensions and capacities

| MODEL | CAPACITY         | SIZES (cm)           |
|-------|------------------|----------------------|
| MK    | M30000 kg x 10Kg | 200x300x50cm (l-w-h) |



## DB BLACKSMITH SCALE



### DESCRIPTION

Blacksmith Scale is produced for iron and steel rolling mills, wholesale and retail businesses selling iron, steel and sheet metal. In the manufacture of blacksmith scales, 4 or 8 OIML R60 certified Turkish load cells are used depending on the size and capacity of the scale.

The materials used in the scale are designed and manufactured to be strong enough to attract at least 200% of its capacity. It is a European type approval certified, commercially approved CE certificate.

### APPLICATIONS

Iron & Steel rolling mills / Flat plate rolling mills / Iron & steel & sheet trade

### TECHNICAL SPECIFICATIONS

Two-stage weighing  
4 - 6 - 8 load cell double chassis platform  
Industrial painted  
Overload resistant  
Easy-to-read LED or LCD display  
Suitable for industrial weighing applications  
High precision 24 bit Delta-Sigma Analog / Digital converter  
Automatic power saving and automatic shutdown

Zero tracking on opening, manual reset  
Working with internal rechargeable battery and 220V AC  
Kg / Lb unit replacement and part counting  
Manual tare, Automatic tare and Tare  
Checkweighing HI-OK-LO Buzzer  
RS 232 communication, receipt and label output, PC connection  
Extensive service network, 2 years warranty  
Production opportunity in desired dimensions and capacities

| MODEL | CAPACITY         | SIZES   |
|-------|------------------|---|
| DB    | 1500 kg x 0.2 kg | 120×120 cm - 120×150 cm                           |
| DB    | 3000 kg x 0.5 kg | 120×150 cm - 120×180 cm - 120×200 cm - 120×240 cm |
| DB    | 6000 kg x 1 kg   | 120×180 cm - 120×200 cm - 120×240 cm - 150×300 cm |
| DB    | 10000 kg x 2 kg  | 120×240 cm - 150×300 cm - 150×400 cm - 150×600 cm |
| DB    | 15000 kg x 2 kg  | 120×240 cm - 150×300 cm - 150×400 cm - 150×600 cm |



## BBH / KBH LIVE ANIMAL SCALE



### DESCRIPTION

Low profile we developed for Livestock Weigher animal weighing It provides great ease in animal weighing with its design. Height above ground is only 80 mm, to bury the floor or external There is no need to ramp. Scales platform is electrostatic oven painted, suitable for farm conditions. Load cells with full protection against water (IP68) (loadcell) corrosion thanks to its durable structure under difficult conditions it can work for years without any problem. It can be produced in optional mobile mobile structure.

### APPLICATIONS

Livestock fattening farms / Veterinarians

### TECHNICAL SPECIFICATIONS

Screen fixing feature (HOLD)  
4 load cell platform  
Electro static oven painted  
Overload resistant  
Easy-to-read LED or LCD display  
Suitable for industrial weighing applications  
High precision 24 bit Delta-Sigma Analog / Digital converter  
Automatic power saving and automatic shutdown  
Zero tracking on opening, manual reset  
Working with internal rechargeable battery and 220V AC  
Kg / Lb unit change  
Manual tare, automatic tare and tare  
Checkweighing HI-OK-LO Buzzer  
RS 232 communication, receipt and label output, PC connection  
Extensive service network, 2 years warranty  
Production opportunity in desired dimensions and capacities



| MODEL | CAPACITY         | SIZES          |
|-------|------------------|----------------|
| BBH   | 1500 Kg x 0.5 Kg | 100x200x180 cm |
| BBH   | 2000 Kg x 1 Kg   | 100x200x180 cm |
| BBH   | 3000 Kg x 1 Kg   | 100x200x180 cm |



### DESCRIPTION

Sheep, Animal Scales, sheep, goats etc. sheep made for weighing animals, both sides of the scale are closed There are entrance and exit gates on the other two sides. Scales platform painted electrostatic furnace, farm complies with the requirements. Thanks to the wheels on both sides, can be moved.

### TECHNICAL SPECIFICATIONS

Screen fixing feature (HOLD)  
1 or 4 load cell platform  
Electro static oven painted  
Overload resistant  
Easy-to-read LED or LCD display  
Suitable for industrial weighing applications  
High precision 24 bit Delta-Sigma Analog / Digital converter  
Automatic power saving and automatic shutdown  
Zero tracking on opening, manual reset  
Working with internal rechargeable battery and 220V AC  
Kg / Lb unit change  
Manual tare, automatic tare and tare  
Checkweighing HI-OK-LO Buzzer  
RS 232 communication, receipt and label output, PC connection  
Extensive service network, 2 years warranty  
Production opportunity in desired dimensions and capacities

| MODEL | CAPACITY                 | SIZES             |
|-------|--------------------------|-------------------|
| KBH 1 | 300 /600 Kg x 0.1/0.2 Kg | 50x90 - 60x100 cm |
| KBH 4 | 300 /600 Kg x 0.1/0.2 Kg | 50x90 - 60x100 cm |



### DESCRIPTION

Crane Scales are electronic scales used to weigh products lifted by hook on ceiling cranes or mobile cranes. It is preferred in places where platform scales cannot be used such as narrow factory areas and warehouses. Sturdy and durable aluminum body with load cell, indicator and internal battery, integrated structure and easy to carry.

### APPLICATIONS

Ceiling Cranes  
Mobile Cranes  
Lifting Equipment

### TECHNICAL SPECIFICATIONS

Easy to read remotely with 30mm high LED display  
40 hours of use with built-in rechargeable battery  
With external charging unit and spare battery, your work will not be lost.  
Filtered ADC reading with advanced antivibration software  
200% safe load cell from maximum weighing capacity  
Ergonomic patented design  
Fixing the weight on the screen with weighing with Hold feature  
Reset, tare, and close the scale with remote control  
Extensive service network, 2 years warranty



# DMA II Dynamometer



DMA Dynamometers are load cells designed by Kobastar for force measurement with an internal display, operating in the pulling direction. They are manufactured from specially alloyed high-strength aluminum materials commonly used in the aviation industry. The body surface is coated with a hard anodized layer to enhance resistance against challenging environmental conditions.

In addition to wired models with analog and digital outputs, there are versions with an integrated display and an external handheld terminal capable of wireless communication. The wireless model can be controlled from the handheld terminal. With its robust and rigid structure, it operates continuously for 80 hours with an internal rechargeable battery, offering a precision rate of 0.1%.

| LOAD CELL TECHNICAL DETAILS       |                              | Operating Temperature Range       |                      |
|-----------------------------------|------------------------------|-----------------------------------|----------------------|
| Total Error                       | ±0.1 %FS                     | Recommended Excitation Voltage    | 10 VDC               |
| Output Gain (FS)                  | 1.2 mV/V (4-20mA, RS485)Ops. | Maximum Excitation Voltage (Umax) | 15 VDC               |
| Zero Balance                      | ± 1 %FS                      | Overload Capacity                 | 150 % FS             |
| Input Resistance                  | 750 Ω ± 20 Ω                 | Fracture Load                     | 300 % FS             |
| Output Resistance                 | 702 Ω ± 5 Ω                  | Protection Class (EN60529)        | IP 65                |
| Insulation Resistance             | ≤ 5000 MΩ (100VDC)           | Load Cell Material                | Aluminum             |
| Compensated Operating Temperature | -10 ~ + 40 °C (Option)       | Cable                             | 4x022mm <sup>2</sup> |

| WEI INDICATOR TECHNICAL DETAILS |   | Communication         |   |
|---------------------------------|---|-----------------------|---|
| Screen                          | 128x64 Dot matrix LCD                                       | Wireless Distance     | Wireless interface,430MHZ-470MHZ            |
| Status Indicators               | Balance, Zero, Peak Hold, Unit, Battery, Signal, Date, Time | Energy Source         | 200 Meters (Open field)                     |
| Keypad                          | 13 Function Membrane button                                 | Operating Temperature | Battery 7V4/2500mA - 8V4/1A Charger Adapter |
| Filtering                       | 5-Step Digital  | Communication         | -10C ~ 45C, 95%RH                           |
|                                 |   |                       | Rs232 (Baudrate 9600)                       |

## Application



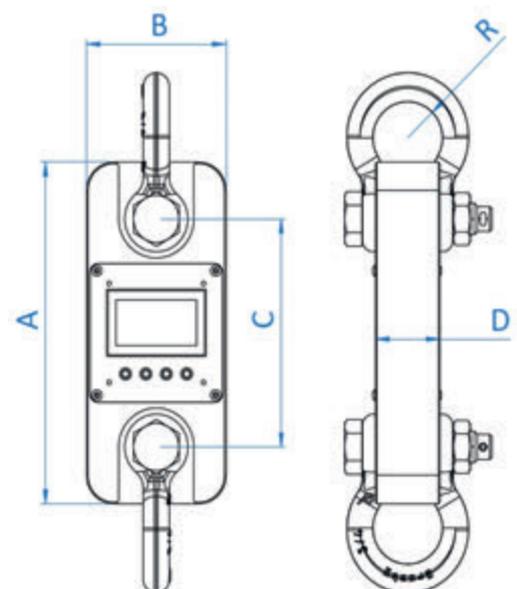
Strain tests / Tensile tests / Force tests / Mining Transportation / Logistics / Shipyards / Construction / Port

## Dimensions (mm)



The Company reserves the right to make changes to the technical data, drawings and images without notice.

| CAPACITY | A    | B   | C   | D   | R     |
|----------|------|-----|-----|-----|-------|
| 3 Ton    | 240  | 102 | 160 | 47  | 25.4  |
| 6,5 Ton  | 250  | 102 | 170 | 47  | 29    |
| 12,5 Ton | 300  | 118 | 192 | 47  | 41    |
| 25 Ton   | 340  | 135 | 216 | 60  | 63.4  |
| 35 Ton   | 386  | 140 | 230 | 75  | 73    |
| 55 Ton   | 440  | 180 | 240 | 75  | 92    |
| 75 Ton   | 480  | 200 | 260 | 100 | 100   |
| 100 Ton  | 550  | 235 | 300 | 120 | 114.3 |
| 120 Ton  | 550  | 235 | 300 | 120 | 127   |
| 150 Ton  | 620  | 280 | 320 | 130 | 127   |
| 200 Ton  | 730  | 340 | 370 | 150 | 139.5 |
| 250 Ton  | 800  | 360 | 400 | 155 | 164   |
| 300 Ton  | 850  | 425 | 410 | 160 | 165   |
| 400 Ton  | 1000 | 425 | 500 | 200 | 187.4 |
| 500 Ton  | 1000 | 520 | 480 | 230 | 225   |





DMA Dynamometers are load cells designed by Kobastar for force measurement with an internal display, operating in the pulling direction. They are manufactured from specially alloyed high-strength aluminum materials commonly used in the aviation industry. The body surface is coated with a hard anodized layer to enhance resistance against challenging environmental conditions.

In addition to wired models with analog and digital outputs, there are versions with an integrated display and an external handheld terminal capable of wireless communication. The wireless model can be controlled from the handheld terminal. With its robust and rigid structure, it operates continuously for 80 hours with an internal rechargeable battery, offering a precision rate of 0.1%.

| LOAD CELL TECHNICAL DETAILS       |   | Operating Temperature Range       |   |
|-----------------------------------|---|-----------------------------------|---|
| Total Error                       | ±0.1 %FS  | Recommended Excitation Voltage    | -30 ~ + 70 °C                               |
| Output Gain (FS)                  | 1.2 mV/V (4-20Ma, RS485)0ps.                                | Maximum Excitation Voltage (Umax) | 10 VDC                                      |
| Zero Balance                      | ± 1 %FS   | Overload Capacity                 | 15 VDC                                      |
| Input Resistance                  | 750 Ω ± 20 Ω  | Fracture Load                     | 150 % FS                                    |
| Output Resistance                 | 702 Ω ± 5 Ω   | Protection Class (EN60529)        | 300 % FS                                    |
| Insulation Resistance             | ≤ 5000 MΩ (100VDC)  | Load Cell Material                | IP 65                                       |
| Compensated Operating Temperature | -10 ~ + 40 °C (Option)                                      | Cable                             | Aluminum                                    |
|                                   |   |                                   | 4x022mm <sup>2</sup>                        |
| WEI INDICATOR TECHNICAL DETAILS   |   | Communication                     |   |
| Screen                            | 128x64 Dot matrix LCD                                       | Wireless Distance                 | Wireless interface,430MHZ-470MHZ            |
| Status Indicators                 | Balance, Zero, Peak Hold, Unit, Battery, Signal, Date, Time | Energy Source                     | 200 Meters (Open field)                     |
| Keypad                            | 13 Function Membrane button                                 | Operating Temperature             | Battery 7V4/2500mA - 8V4/1A Charger Adapter |
| Filtering                         | 5-Step Digital  | Communication                     | -10C ~ 45C, 95%RH                           |
|                                   |   |                                   | Rs232 (Baudrate 9600)                       |

## Application



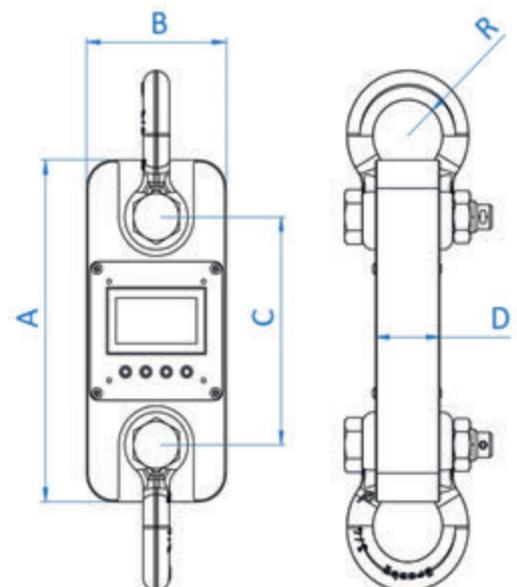
Strain tests / Tensile tests / Force tests / Mining Transportation / Logistics / Shipyards / Construction / Port

## Dimensions (mm)



The Company reserves the right to make changes to the technical data, drawings and images without notice.

| CAPACITY | A    | B   | C   | D   | R     |
|----------|------|-----|-----|-----|-------|
| 3 Ton    | 240  | 102 | 160 | 47  | 25.4  |
| 6,5 Ton  | 250  | 102 | 170 | 47  | 29    |
| 12,5 Ton | 300  | 118 | 192 | 47  | 41    |
| 25 Ton   | 340  | 135 | 216 | 60  | 63.4  |
| 35 Ton   | 386  | 140 | 230 | 75  | 73    |
| 55 Ton   | 440  | 180 | 240 | 75  | 92    |
| 75 Ton   | 480  | 200 | 260 | 100 | 100   |
| 100 Ton  | 550  | 235 | 300 | 120 | 114.3 |
| 120 Ton  | 550  | 235 | 300 | 120 | 127   |
| 150 Ton  | 620  | 280 | 320 | 130 | 127   |
| 200 Ton  | 730  | 340 | 370 | 150 | 139.5 |
| 250 Ton  | 800  | 360 | 400 | 155 | 164   |
| 300 Ton  | 850  | 425 | 410 | 160 | 165   |
| 400 Ton  | 1000 | 425 | 500 | 200 | 187.4 |
| 500 Ton  | 1000 | 520 | 480 | 230 | 225   |





SPW Load Shackle Pins are specially produced for ship and harbor cranes. SPW Load shackle pins are manufactured with high strength alloy steels and also 17-4PH quality stainless steel upon request. can also be produced from steel.

SPW Load Shackle capacity range starts from 3 tons and goes up to 1000 tons.

SPW Load Shackle can communicate with the wireless handheld indicator up to a distance of 100 meters. Indicator with 192 \* 64 dot matrix LCD display showing the weight information coming from 16 separate load pins separately and the total indicator has a built-in rechargeable battery inside the load shackle and inside the hand indicator.

| LOAD CELL TECHNICAL DETAILS       |                        |              | Operating Temperature Range       |                               |
|-----------------------------------|------------------------|--------------|-----------------------------------|-------------------------------|
| Total Error                       | ±0.5 %FS               |              | -30 ~ + 70 °C                     |                               |
| Output Gain (FS)                  | 1.2 ± 0.2mV/V          |              | Recommended Excitation Voltage    | 10 VDC                        |
| Zero Balance                      | ± 1 %FS                |              | Maximum Excitation Voltage (Umax) | 15 VDC                        |
| Input Resistance                  | 380 Ω ± 20 Ω           | 720 Ω ± 20 Ω | Overload Capacity                 | 150 % FS                      |
| Output Resistance                 | 350 Ω ± 5 Ω            | 702 Ω ± 5 Ω  | Fracture Load                     | 300 % FS                      |
| Insulation Resistance             | ≤ 5000 MΩ (100VDC)     |              | Protection Class [EN60529]        | IP 66                         |
| Compensated Operating Temperature | -10 ~ + 40 °C (Option) |              | Load Cell Material                | Alloy steel / Stainless steel |
|                                   |                        |              | Cable                             | 4x0.22mm <sup>2</sup>         |

| WEI INDICATOR TECHNICAL DETAILS |   | Communication                    |   |
|---------------------------------|---|----------------------------------|---|
| Screen                          | 128x64 Dot matrix LCD                                       | Wireless interface,430MHZ-470MHZ |   |
| Status Indicators               | Balance, Zero, Peak Hold, Unit, Battery, Signal, Date, Time | Wireless Distance                | 200 Meters (Open field)                     |
| Keypad                          | 13 Function Membrane button                                 | Energy Source                    | Battery 7V4/2500mA - 8V4/1A Charger Adapter |
| Filtering                       | 5-Step Digital  | Operating Temperature            | -10C ~ 45C, 95%RH                           |
|                                 |   | Communication                    | Rs232 (Baudrate 9600)                       |

## Application



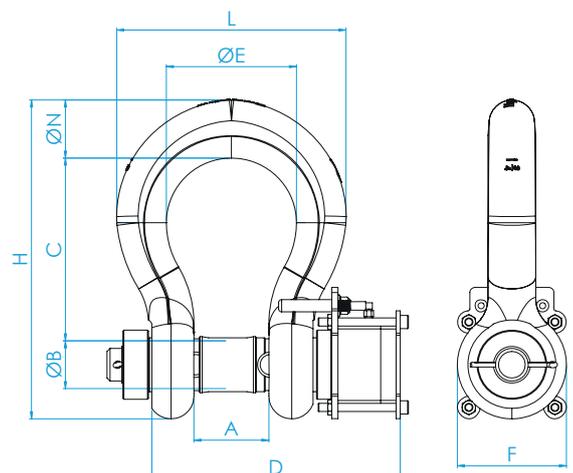
Strain tests / Tensile tests / Force tests / Mining Transportation / Logistics / Shipyards / Construction / Port

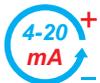
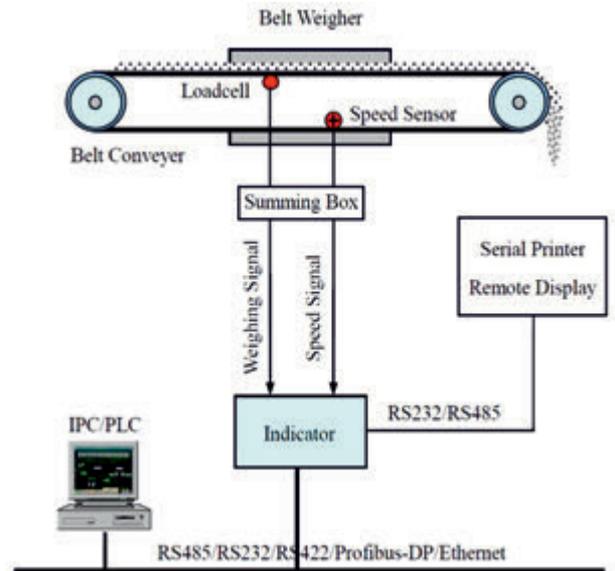
## Dimensions (mm)



The Company reserves the right to make changes to the technical data, drawings and images without notice.

| CAPACITY | A    | ØB  | C   | ØD   | ØE  | ØF  | H   | L   | ØN   | WEIGHT | DIV.KG |
|----------|------|-----|-----|------|-----|-----|-----|-----|------|--------|--------|
| 3 Ton    | 36,5 | 25  | 76  | 22,4 | 55  | 50  | 148 | 102 | 22,4 | 2      | 1      |
| 6 Ton    | 36,5 | 25  | 76  | 22,4 | 55  | 50  | 148 | 102 | 22,4 | 2      | 2      |
| 12 Ton   | 51,5 | 35  | 108 | 33   | 78  | 70  | 210 | 146 | 33   | 6      | 5      |
| 17 Ton   | 60   | 42  | 139 | 41   | 94  | 84  | 254 | 175 | 41   | 10     | 10     |
| 25 Ton   | 74   | 51  | 168 | 48   | 119 | 100 | 313 | 225 | 48   | 17     | 10     |
| 35 Ton   | 83   | 60  | 202 | 54   | 146 | 122 | 348 | 253 | 54   | 23     | 20     |
| 55 Ton   | 105  | 70  | 267 | 70   | 185 | 150 | 453 | 327 | 70   | 47     | 20     |
| 80 Ton   | 130  | 90  | 330 | 80   | 200 | 170 | 546 | 365 | 80   | 80     | 50     |
| 120 Ton  | 140  | 110 | 360 | 95   | 230 | 210 | 626 | 419 | 95   | 135    | 100    |
| 150 Ton  | 150  | 125 | 380 | 108  | 260 | 240 | 653 | 468 | 108  | 165    | 100    |





Modbus-RTU

CAN bus



**BK**

## DESCRIPTION

BK Series belt scale is a system that determines the transport rate and total weight amount of materials carried in bulk on an endless conveyor belt according to the speed of the belt.

It prevents the weighing of materials carried on the tape and wasting time.

By continuously recording the materials coming from the mine or the production line, it continuously reports on shifts, days, months and years and keeps the production efficiency under control.

The amount of weighed material can be monitored in t / h, kg / h, kg / m, kg, mt / sec and%.

The BK series belt scale consists of load cells, speed sensor and control indicator.

can be easily adapted to the existing conveyor belt.

32 bit ARM CPU suitable for industrial environment, with 72MHz and higher arithmetic speed.

High precision  $\Delta$ - $\Sigma$  A / D conversion technology, 160 × 32 dot matrix LCD screen.

Digital adjustment and calibration functions automatic zero tracking, speed calibration and band length calibration.

Corrosion-resistant, waterproof and dustproof shockproof body suitable for wall mounting.

## APPLICATIONS

It is used for weighing, recording, and controlling the instantaneous flow and total amount of bulk material of the bulk material such as dust, granules, especially in the Mining, Chemical, Food, Energy sectors.

## TECHNICAL SPECIFICATIONS

| MODEL                  | BK-1000     | BK-2000     | BK-6000     |
|------------------------|-------------|-------------|-------------|
| ACCURACY               | 0.5 %       | 0.5 %       | 0.5 %       |
| FLOW (MAX)             | 1000 T/H    | 2000 T/H    | 6000 T/H    |
| BAND SPEED (MAX)       | 3 m/s       | 3 m/s       | 3 m/s       |
| CAPACITY               | 10-100 Kg/m | 10-200 Kg/m | 10-550 Kg/m |
| CONVEYOR ANGLE(MAX)    | 18°         | 18°         | 18°         |
| BAND WIDTH (MAX)       | 800mm       | 1000mm      | 2000mm      |
| DISTANCE BETWEEN ROLLS | 500-1000mm  | 500-1500mm  | 1500-2500mm |



## DESCRIPTION

Bucket Scale (Wheel Loader Scale) is a dynamic scale and automatic collection equipment mounted on the wheel loader. When the lifting arm of the wheel loader is lifted to a certain height, the position sensor triggers the weighing process and the weighing indicator collects the oil pressure signal from the lower and upper oil chambers of the arm lift oil cylinder. After signal processing and compensation, Single bucket loading weight will be taken automatically and summed up as Total Loading Weight.

The operator evaluates whether the current Single bucket loading weight is valid according to the alarm messages and can verify the loading weight of the last bucket according to the negative deviation value.

### Generally Features

EMC design that can be used in industrial areas with its high anti jamming feature.

DC24V power input with reverse polarity protection.

32-bit ARM CPU with 72MHz and higher arithmetic speed.

Dustproof stainless steel box with IP65 protection level.

640 × 480 TFT screen.

24-bit  $\Sigma$ - $\Delta$  ADC with 1 / 1.000.000 Resolution.

High sampling frequency 400Hz.

Special Acceleration compensation algorithm developed for anti-vibration filtering software specially developed for fast, precise and stable weighing.

Ability to save 10000 pieces of weighing and store them in memory.

50 Single bucket weighing records in each record.

### System Accuracy

Accuracy class: III

Verified sensitivity for the weighing indicator: 0.02%.

Accuracy of single bucket weighing: 0.5% ~ 1.0%.

Total weighing accuracy: 1.0%.

### System Configuration

Weighing indicator with 1 internal thermal printer

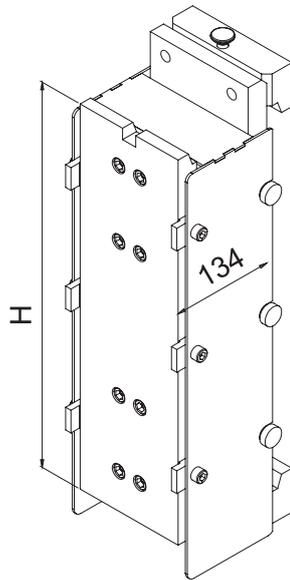
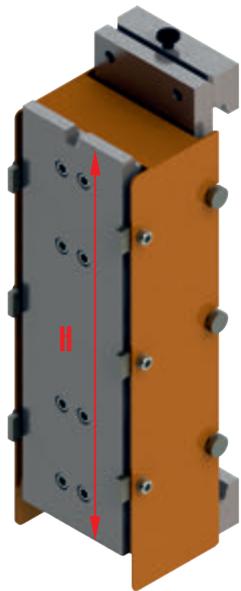
1 position sensor

2 Hydraulic oil pressure sensors

2 pieces 3-way connection plates

1 Mounting mechanism





## DESCRIPTION

The FLS Forklift weighing system consists of 2 weighing modules and 1 weighing indicator that can be easily mounted on your existing machine.

Installation is done within 1-2 hours without any mechanical modification on the truck.

Weigh modules are mounted between the forks and the carrier mirror.

It is suitable for all brands and models of forklifts. (Class A / B II, III, IV).

Produced in 2, 4 and 6 tons capacities as standard, FLS can be produced up to 16 tons capacity.

It displays the load lifted with the forklift instantly on the screen with 0.2% accuracy.

It can be viewed wirelessly from computers, tablets or mobile phones and can be printed out. (Option)

Load cells used in scales are used for weighing.

It is 10 times more sensitive and safe than applications made with hydraulic pressure sensor.

## APPLICATIONS

All kinds of forklift weighing applications

Chemistry, Metal, Paint, Coating, Casting, Logistics etc.

## TECHNICAL SPECIFICATIONS

LCD and LED indicator options

Suitable for industrial weighing applications

High precision 24 bit Delta-Sigma Analog / Digital converter

Automatic power saving and automatic shutdown

Zero tracking on opening, manual reset

Working from the Forklift battery

Kg / Lb unit replacement and part counting

Tare by hand

Automatic and manual tare

Checkweighing HI-OK-LO Buzzer

RS 232 and wireless communication

Printer and PC connection

Extensive service network 2-year warranty

Production opportunity in desired dimensions and capacities



| MODEL  | ISO STANDARD | CARRIAGE (H) | CAPACITY     |
|--------|--------------|--------------|--------------|
| FLS-41 | CLASS II     | 407 mm       | 2 Ton x 1Kg  |
| FLS-51 | CLASS III    | 508 mm       | 4 Ton x 2 Kg |
| FLS-63 | CLASS IV     | 635 mm       | 6 Ton x 5Kg  |



# TPS / BL WEIGHING TRANSPALLET

## DESCRIPTION

The TPS Series pallet truck weighers also save time and space by weighing the goods during pallet transport. It has a stronger mechanical structure compared to ordinary pallet trucks. The wheels with polyurethane coating and roller bearings are suitable for working on uneven ground. Approximately 100 hours of battery life. Lift, weigh, load.

## APPLICATIONS

Logistics, Storage, Production.

## TECHNICAL SPECIFICATIONS

LCD and LED indicator options  
 Suitable for industrial weighing applications  
 High precision 24 bit Delta-Sigma Analog / Digital converter  
 Automatic power saving and automatic shutdown  
 Zero tracking on opening, manual reset  
 Internal rechargeable battery (100 Hours)  
 Kg / Lb unit replacement and part counting  
 Manual tare, automatic tare and tare  
 RS 232 and wireless communication, printer and PC connection  
 Extensive service network, 2 years warranty



| MODEL | CAPACITY     | SIZES         |
|-------|--------------|---------------|
| TPS   | 2 Ton x 1 Kg | 1150x550x85mm |



## DESCRIPTION

BL Series Barrel transport scales also save time and space by weighing the barrels during transportation. It has a stronger mechanical structure compared to ordinary barrel transport vehicles. The wheels with polyurethane coating and roller bearings are suitable for working on uneven ground. Approximately 100 hours of battery life. Lift, weigh, load.

## APPLICATIONS

Logistics, Storage, Production.

## TECHNICAL SPECIFICATIONS

LCD and LED indicator options  
 Suitable for industrial weighing applications  
 High precision 24 bit Delta-Sigma Analog / Digital converter  
 Automatic power saving and automatic shutdown  
 Zero tracking on opening, manual reset  
 Internal rechargeable battery (100 Hours)  
 Kg / Lb unit replacement and part counting  
 Manual tare, automatic tare and tare  
 RS 232 and wireless communication, printer and PC connection  
 Extensive service network, 2 years warranty

| MODEL | CAPACITY        | SIZES           |
|-------|-----------------|-----------------|
| BL    | 300 kg x 0.1 Kg | 1075x1215x975mm |



## MRS MONORAIL SCALE



### DESCRIPTION

MRS Series Monorail weighing systems are especially used in slaughterhouses, etc. It enables the carcasses coming to the end of the processing line to be weighed on the rails. The existing Monorail is integrated into the system. It is produced from stainless or hot dipped galvanized materials. 2 lama type load cells are used in the system.

### APPLICATIONS

Slaughterhouses, Meat processing plants.

### TECHNICAL SPECIFICATIONS

- LCD and LED indicator options
- Suitable for industrial weighing applications
- High precision 24 bit Delta-Sigma Analog / Digital converter
- Automatic power saving and automatic shutdown
- Zero tracking on opening, manual reset
- Internal rechargeable battery (100 Hours)
- Kg / Lb unit replacement and part counting
- Manual tare, automatic tare and tare
- RS 232 and wireless communication, printer and PC connection
- Extensive service network, 2 years warranty





## DESCRIPTION

Big Bag Filling machines are machines that provide automatic filling of powder or granular materials into big bags. It makes an average of 15 to 30 big bags per hour depending on the product features, usage patterns and operators' operation. Feeding methods such as free fall, belt conveyor, screw conveyor are preferred according to the fluidity of the product to be filled. A vibratory feeding mechanism can be made to ensure the continuous and consistent flow of the product. The operator attaches the bag to the filling nozzle, hangs the bag handles on the hooks and starts the machine. When the bag filled with fast feeding approaches the set value, it automatically switches to slow precision feeding mode. When the set value is reached, filling feeding stops and the hooks are automatically released. After the filling process is completed, the bag is carried by roller conveyor or forklift and directed to the next process. A vibratory platform can also be used to fully fit the material inside the filled bag.

## APPLICATIONS

Agriculture: Seeds, cereals, cattle feed, pet foods, premixes...  
Food: Flour, semolina, legumes, sugar...  
Petrochemical: Fertilizers, plastic granules...  
Structure and mining: Sands, pebbles, perlite...

## TECHNICAL SPECIFICATIONS

Touch panel, making prescriptions  
Automatic tare and weighing error correction process  
Total weight and total number of bags monitoring  
Ability to buy any number of bags  
Waiting and warning if the weight is out of acceptable tolerance  
Turkish and English menu warning messages  
Capacity: 15 - 30 Ton / h



## DESCRIPTION

LF Series Liquid filling systems can be used especially in food and chemical plants such as cans, drums, barrels, etc. It ensures that containers are automatically filled with precision weighing. It can make high-speed, 2-stage fast and slow filling. There are ExProof options for hazardous material filling. It can fill Net or Gross.

## APPLICATIONS

Food and Chemistry production facilities

## TECHNICAL SPECIFICATIONS

The following information is provided for the sample machine, it can be configured at the desired capacity.

Max. Capacity: 30kg

Sensitivity: 10g

Filling Capacity: 10 ~ 30kg

Filling Accuracy: 0.1 0.1%

Filling Speed: 120 ~ 240 Bucket / hour

Up / Down Range: 0-50mm (H)

Platform: 400X400mm

Bucket Dimensions:  $\leq \phi 400 \times h 500$ mm

Air Pressure: 0.4 ~ 0.8Mpa

Filling Valve: Material: AISI 304/316

Power: AC 110V / 220V, 50 / 60Hz, 10A

Operating Temperature: -10 ° C to 40 ° C

Extensive service network, 2 years warranty



## DESCRIPTION

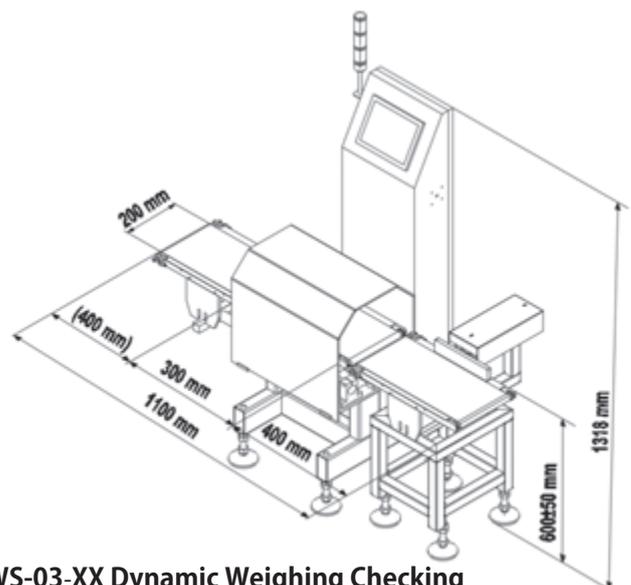
Checkweigher is used in a wide variety of applications in the food and other industries to verify product weight. Kobastar offers a wide range of control scales, each of which can be configured to suit your own needs. The CW series, which can operate with high speed and maximum accuracy, speeds up your production line with control scales. In addition to presenting the packaged foods to the consumer completely, it protects the consumer and your brand by controlling foreign matter with metal detectors that can be integrated into the system.

## APPLICATIONS

Packaged foods, Medicines etc.

## TECHNICAL SPECIFICATIONS

- 10.1 " Color touch HMI panel.
- Package name, configuration, target weight, upper tolerance
- 100 formulas including weight and low tolerance weight
- Total package, Correct package, Over package, Missing package, Average
- Three levels of user management: Administrator / Manager / Operator
- Max. Support up to 20 users
- Direct reporting to USB or computers.
- Dynamic weighing with powerful vibration filtering
- Stainless and PU materials suitable for food production
- Hygienic chassis / body design
- Extensive service network, 2 years warranty



**DWS-03-XX Dynamic Weighing Checking**



## DESCRIPTION

Checkweigher is used in a wide variety of applications in the food and other industries to verify product weight. Kobastar offers a wide range of control scales, each of which can be configured to suit your own needs. MCW series control scales that can work with high speed and maximum accuracy speed up your production line. It protects the consumer and your brand by ensuring that the packaged products consisting of multiple parts are presented to the consumer completely.

## APPLICATIONS

Packaged products consisting of more than one piece, White goods, Small hand tools etc.

## TECHNICAL SPECIFICATIONS

- 7 " Color touch HMI panel.
- Package name, configuration, target weight, upper tolerance
- 100 formulas including weight and low tolerance weight
- Total package, Correct package, Over package, Missing package, Average
- Three levels of user management: Administrator / Manager / Operator
- Max. Support up to 20 users
- Direct reporting to USB or computers.
- Powerful vibration filtering
- Stainless and PU materials suitable for food manufacturing (Option)
- Hygienic chassis / body design (Option)
- Extensive service network, 2 years warranty





### DOX MATRIX PRINTER

#### DESCRIPTION

- The 9-pin, 80-column Epson LX-350 has an average of up to 10,000 hours of downtime and is ideal for front and back office applications that receive continuous paper or multi-document printing.

### THERMAL PLUG PRINTER

#### DESCRIPTION

- Direct Thermal printing possibility
- Max. 72 mm print width
- Max. 250mm / second print speed
- RS-232, USB, Ethernet Connection
- ESC / POS language support



### THERMAL BARCODE PRINTER

#### DESCRIPTION

- 203 DPI Print Resolution
- Direct Thermal / Thermal Transfer Printing
- Max. 108 mm Printing Width
- Max. 1727 mm Print Length
- Max. 102mm / Second Print Speed
- 16 MB DRAM, 8 MB Flash Memory
- Serial Port and USB connection
- EZPL, GEPL and GZPL Barcode Writing Language Support
- Windows, Mac and Linux Driver Support



### THERMAL PLUG PRINTER

#### DESCRIPTION

- 57 mm wide plug with thermal printer
- Company name, product name, product code number, number of pieces, total information can be seen on the illuminated LCD, which can display 2 × 16 characters and can be printed out.
- Company name, product name, product code, receipt number and barcode information can be printed on the receipt as well as weight information.
- Add the weight and the number of pieces by product and report on the receipt output.
- The weight information from the weighing device can be seen on the printer display.



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