ESSKAY
INDUSTRIAL WEIGHING SOLUTIONS AND AUTOMATION

WE ARE THE BEST WEIGHING AUTOMATION SOLUTIONS PROVIDER

Solution Provider for complete range of Industrial Weighing and Automation Solutions including Design, Sales with State of the Art Electronics from reputed multinational from all over the Globe.

WEIGHING AUTOMATION SOLUTIONS MADE SIMPLER AND EASIER

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TRUCK WEIGH BRIDGE

FEATURES:

- Unparalleled Design
- CNC Controlled Production Automation
- High Accuracy Weighing
- Superior Reliability
- High Performance
- Easy and Quick Installation
- Minimum Service and Maintenance Cost
- Minimum Foundation Cost
- SMS Based Report generation
- EssSoft Weighbridge Software
- Camera Interface with Weigh bridge software
- Export reports directly to USB drive

Platform Size
9M X 3M
Rated Capacity: 40T, 50T, 60T, 70T, 80T ||Loadcells: 4 or 6 Nos

Platform Size
12M X 3M
Rated Capacity: 60T, 80T, 100T || Loadcells: 6 Nos

Platform Size
16M X 3M
Rated Capacity: 60T, 80T, 100T || Loadcells: 6 or 8 Nos

Platform Size
18M X 3M
Rated Capacity: 80T, 100T, 120T || Loadcells: 8Nos

Platform Size
22M X 3M
Rated Capacity: 80T, 100T, 120T || Loadcells: 8 or 10 Nos

SS Juction Box

USB Keyboard

GSM MODEM

DOT MATRIX PRINTER

REMOTE DISPLAY

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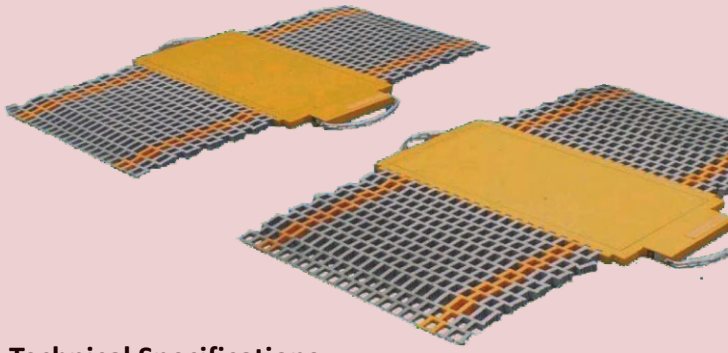
Weigh Pad Systems



Main Feature

A new generation of mobile tablet based user interfaces for simple operations.
Weighing instruments are light weight, easy to handle and easy to carry.
For static, dynamic weighing detection, automatically determine whether the overrun or overloading.
Record unit name, inspection route and test information and soon.
Wireless Bluetooth printer with charging function.
A variety of modes of work like traffic police mode, high-way mode.
It has the function of location and mobile communication and can be stored in real time.
Transmit and receive business data and instructions with systematic expansion ability.

Technical Specifications

Axial Capacity Range:
- 0-40t

Static Accuracy
- ±0.5% of F.S.

Dynamic Accuracy
- ±1.0% of F.S.

Working Temperature
- -30°C to +80°C

Running Speed
- Upto 5Km/h

Relative Humidity
- <90%

Safe Load Limit
- 120%

Ultimate Over Load
- 150%

Balance Plate Size
- 800 x 350 x 22mm

Instrument Size
- 206 x 140 x 21mm

Weight of Weighing Platform
- 27Kg

Wireless Transmission Distance
- More than 25 meters (barrier free)

Hopper
Weighing System

Main Features

EMC design with high anti jam for industrial environment
DC24V power input with reverse polarity protection.
32-bit ARM CPU with 48MHz clock & High arithmetic speed.
6+8 Red LED Digit display.
24-bit ADC with internal resolution 1/1000000.
High sampling frequency 400Hz.
Special Anti-vibration digital filtering algorithm for precise weighing stable display and rapid response.
Auto zero tracking.
Fall value auto correction.
Auto pause for deviation alarm.
Auto re-feed for negative deviation alarm.
3-speed feeding control by Dos or AOs.
Definable AO/COM.
Recipe Number 1

Technical Specifications

Power Supply: DC24V±20%, Max 5W
Loadcell Excitation Voltage/Current: DC9V/120mA.
4 Loadcells [350Ω] connectable.
Weighing Signal Input range: 0-25mA.
6 Normally Open Switch Inputs [DI]
8 Normally Open Transistor Outputs [DO]
1 Analog Signal Output [AO] 4-20mA
COM1: RS232; COM2:RS485
Connect Host IPC[Modbus] & Remote Display
Outline Sie [WxHxD] : 110 x 62 x 150mm
Panel Cutout Size [WxH]: 94 x 47mm
Operating Temperature: -25°C -+45°C
Accuracy Grade III
Verification Accuracy: 0.25%
Static Weighing Accuracy: 0.2%-0.5%
Packing Accuracy” 0.2-0.5%

Applications

Bagging Machine
Loss in Weight Ration Packing Scale
Hopper/ Bin Weighing
Tank/Silo Weighing

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Packing / Bin Weighing System

Main Features

EMC design with high anti jam for industrial environment
32-bit ARM CPU with 72MHz clock & High arithmetic speed.
6+10 Green VFD Digit display.
24-bit ADC with internal resolution 1/1000000.
High sampling frequency 400Hz.
Special Anti-vibration digital filtering algorithm for precise weighing stable display and rapid response.
Auto zero tracking.
Fall value auto correction.
Auto pause for deviation alarm.
Auto re-feed for negative deviation alarm.
3-speed feeding control by Dos or AOs.
Definable AO/COM.
Recipe Number 10

Technical Specifications

Power Supply: AC80-260V, 50/60Hz Max 10W
Loadcell Excitation Voltage/Current: DC10V/250mA.
8 Loadcells [350Ω] connectable.
Weighing Signal Input range: 0-25mA.
7 Normally Open Switch Inputs [DI]
12 Normally Open Transistor Outputs [DO]
1 Analog Signal Output [AO] 4-20mA
COM1: RS232;
COM2:RS485/RS422/Profius-Dp/Ethernet
Connect Host IPC[Modbus] & Remote Display
Outline Sie [WxHxD] : 164 x 82 x 188mm
Panel Cutout Size [WxH]: 153 x 77mm
Operating Temperature: -25°C -+45°C
Accuracy Grade III
Verification Accuracy: 0.25%
Static Weighing Accuracy: 0.2%-0.5%
Packing Accuracy" 0.2-0.5%

Applications

Bagging Machine
Loss in Weight Ration Packing Scale
Hopper/ Bin Weighing
Tank/Silo Weighing

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On Board Loader Scale

Operating Principle

Wheel loader weigher is a dynamic weighing and auto totalizing equipment installed in wheel loader.
When the lift arm of wheel loader lifted to a certain height, the position sensor will trigger the weighing process, and the weighing indicator will collect the oil pressure signal from lower and upper oil chambers of arm lifting oil cylinder. After signal processing and compensating, signal bucket loading weight will be got and totalized to totalized loading weight automatically. The operator can judge if the present single bucket loading weight is valid according to the alarm messages and confirm the last bucket's loading weight according to the negative deviation value.

Technical Specifications

EMC design with high anti jam for industrial environment.
DC24V Power input with reverse polarity protection.
32-bit ARM CPU with 72MHz & higher arithmetic speed.
Dust Proof stainless steel shell with protection level IP65.
640x 480TFT display screen display.
24-bit ADC with internal resolution 1/1000000.
High Sampling frequency 400Hz.
Special Anti-vibration digital filtering algorithm for precise weighing stable display and rapid response.
Special acceleration compensation algorithm.
10000 loading record can be saved.
Each record can contain 50single bucket loading weighing.

System Accuracy

Accuracy Grade III
Verification Accuracy 0.2%
Accuracy of single bucket weight 0.5%-2.0%
Accuracy of totalized loading Weight 1.0%

Applications

1 Weighing indicator with thermal printer
1 Position sensor
2 oil pressure sensor
2 Plate type three way joints
1 Mounting fitting

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TFT Touch Batching Controller

Main Feature

EMC design with high anti jam for industrial environment.
DC24V power input reverse polarity protection.
Cortex A8 CPU with 600MHz clock, 128MB Flash
7” [800 x 480] or 10.2” [1024 x 600} TFT touch panel.
24-bit ADC with internal resolution 1/1000000
High sampling frequency 800Hz
Special anti-vibration digital filtering algorithm for precise weighing stable display and rapid response.
Auto Zero Tracking.
Load calibration and loss calibration.
Fall value auto correction.
Auto Re-Feed for negative deviation alarm.
Target batch count control.
Auto pause for gross weight upper limit & deviation alarm.
Manual Pause operation.
2-Speed [high/low] feeding control by Dos or AOs.
Definable DI/DO/AO/COM
Recipe Number 100

Technical Specifications

Power Supply DC24V ±20%, Max 10W
Loadcell excitation voltage/current DC5V/250mA
16 Loadcells[350Ω] connectable.
Weighing Signal Input Range: 0-12.5mV
7 Normally Open Switch Inputs [DI]
18 Normally Open Transistor Outputs [DO] DC24V, 500mA
4 Analog Signal Outputs [AO] 0-10V, Max: 50mA
COM1: RS232; COM2:RS485
USB1: Connect Mouse, software download, data backup.
LAN: Optional Ethernet.
Outline size [W x H x D]
- 7” 226.5 x 163 x 36 mm
- 10.2” 274 x 193 x 40 mm

Panel Cut-out Size [W x H x D]
- 7” 215 x 152 mm
- 10.2” 261 x 180 mm

Operating Temperature: -25°C to +45°C
Protection Level of Front Panel IP65
Accuracy Grade III
Verification Accuracy 0.25%
Static Weighing Accuracy 0.2% -0.5%
Batching Accuracy 0.2% - 0.5%

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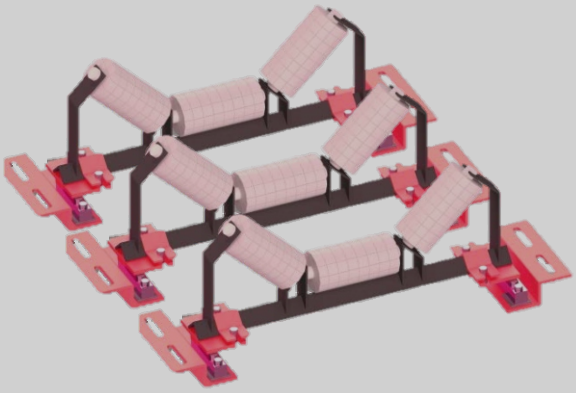
Belt Scale

Main Feature

EMC design with high anti jam for industrial environment.
32-bit ARM CPU with 72MHz clock & high arithmetic speed.
128.64 LCD display screen with 7 background colors.
24-bit ADC with internal resolution 1/1000000.
High sampling frequency 400Hz.
Special Anti Vibration digital filtering algorithm for precise weighing, stable display and rapid response.
Zero Calibration & Auto Zero Tracking.
Span Calibration & Segmenting Correction.
Speed Calibration & Belt Length Calibration.
The feeder & Belt weigher can be controlled by DI/DO.
Quick and steady PID ration feeding control.
Queryable records per shift/day/month of a year.
Definable DI/DO/AO/COM

Technical Specifications

Power Supply: AC 220V±15%. 50/60Hz, Max 15W.
Loadcell Excitation Voltage/Current: DC10V/250mA.
8 Loadcells [350Ω] connectable.
Weighing Signal Input Range: 0-25mV
Speed Sensor Excitation Voltage/Current: DC12V/100mA.
Speed Signal Input Range : 0.5-3000Hz.
3 Normally Open Switch Inputs [DI].
4 Normally Open Relay Outputs [DO]: AC250V/DC24V, 1A.
1 Totalized Weight Pulse Output [PO]: DC5-24V, 100mA.
2 PID Control Analog Output [AO]: 4-20mA, 0.05%FS.
1 Flow Set Analog Input[AI]: 4-20mA, 0.05%FS.
COM1: Optional RS232/RS485/RS422/Prifibus-DP/Ethernet.
COM2: RS232
Connect Host IPC, Remote Display, Printer & Wireless Module.
Outline Size [WxHxD]: 164x86x193mm
Panel Cutout Size [W x H]: 153 x 77mm
Operating Temperature: -25°C - +45°C
Protection Level of front panel IP65
Accuracy Grade 0.5
Accuracy of flow control 0.5%-1.0%



Weigh Feeder

Main Feature

EMC design with high anti jam for industrial environment.
32-bit ARM CPU with 72MHz clock & high arithmetic speed.
128.64 LCD display screen with 7 background colors.
24-bit ADC with internal resolution 1/1000000.
High sampling frequency 400Hz.
Special Anti Vibration digital filtering algorithm for precise weighing, stable display and rapid response.
Zero Calibration & Auto Zero Tracking.
Span Calibration & Segmenting Correction.
Speed Calibration & Belt Length Calibration.
The feeder & Belt weigher can be controlled by DI/DO.
Quick and steady PID ration feeding control.
Queryable records per shift/day/month of a year.
Definable DI/DO/AO/COM

Technical Specifications

Power Supply: AC 220V±15%. 50/60Hz, Max 15W.
Loadcell Excitation Voltage/Current: DC10V/250mA.
8 Loadcells [350Ω] connectable.
Weighing Signal Input Range: 0-25mV
Speed Sensor Excitation Voltage/Current: DC12V/100mA.
Speed Signal Input Range : 0.5-3000Hz.
3 Normally Open Switch Inputs [DI].
4 Normally Open Relay Outputs [DO]: AC250V/DC24V, 1A.
1 Totalized Weight Pulse Output [PO]: DC5-24V, 100mA.
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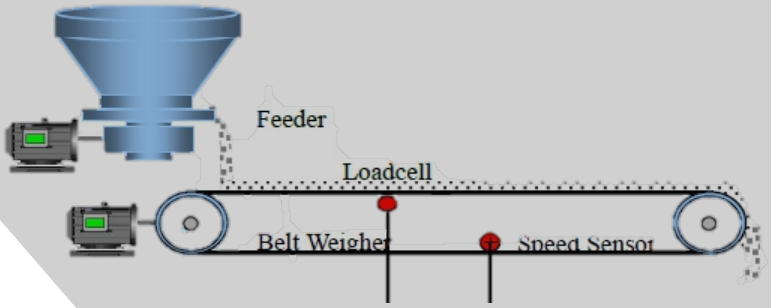
1 Flow Set Analog Input[AI]: 4-20mA, 0.05%FS.
COM1: Optional RS232/RS485/RS422/Prifibus-DP/Ethernet.
COM2: RS232
Connect Host IPC, Remote Display, Printer & Wireless Module.
Outline Size [WxHxD]: 164x86x193mm
Panel Cutout Size [W x H]: 153 x 77mm
Operating Temperature: -25°C - +45°C
Protection Level of front panel IP65
Accuracy Grade 0.5
Accuracy of flow control 0.5%-1.0%



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Bench / Table Top Scales

Main Feature

AC/DC Power Supply Standard chargeable battery.
7-bits 0.8inch LED Display, 3 Level Battery indicators.
Able to setup zero tracking range, zero range.
With 2-point calibration correction function, 2 Compensation calibration methods.
Able to save 1001 weighing records, 1000 truck records consisting of truck ID and corresponding tare weight 201 records of goods.
Able to print across and upright weighing bill.
Able to print different statistical reports.
Standard RS232 communications interface
Standard Score board interface with current loop.
Standard parallel print interface.
Able to connect assigned thermal printer.

Technical Specifications

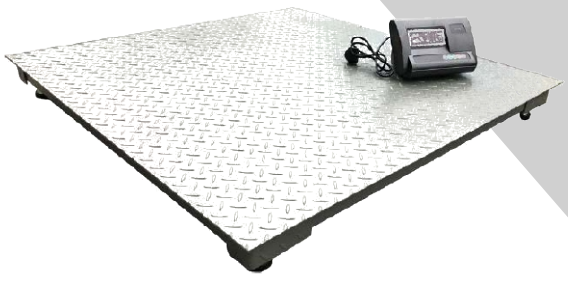
A/D Conversion method Σ-Δ.
Input signal range : -16mV to 18mV.
A/D Conversion speed: 10times/sec
A/D Conversion ode: 1million code.
Loadcell excitation DC 5V.
Max connection number of load cell: 8at 350Ω/16 at 700Ω
Loadcell connection mode: 6 wire auto compensation for long distance.
Division: 1/2/5/10/20/50/100 Optional
Clock: real clock without effect when power off.
Transmission: Current loop/RS232 signal.
Baud Rate: 600
Transmission distance <30meters
Serial communication interface.
Transmission method RS232/RS422/RS485
Baud Rate: 600/1200/2400/4800/9600
Standard parallel output interface.
Power Supply AC220V or DC6V, 10Ah External rechargeable battery.
Platform Size: 1m x 1m, 2m x 2m, 3m x 3m
Capacity: 1t, 2t, 3t, 5t, 10t

Capacity:

- 3kg & 5kg / 1g
- 15kg & 30kg / 5g
- 60kg & 100kg / 10g
- 150kg & 200kg / 50g
- 300kg & 400kg / 100g
- 500kg & 3000kg / 200g

Pan Size:

- 190 x 275mm
- 300 x 340mm
- 310 x 410mm
- 410 x 510mm
- 1000 x 1000mm
- 3000 x 3000mm



Hook Scale

Main Feature

- Zero / Tare Function
- Display Hold
- Voltage Display
- Overload Warning
- Auto power OFF
- Unit Switch
- Resolution Switch
- Die Casting aluminum case.
- High accuracy alloy steel load cell
- LED display Module
- Fixed shackle and American standard eye hook.
- Rechargeable battery
- Infrared remote control(optional)

Technical Specifications

Capacity:

- 1t, 2t, 5t, 10t, 20t, 50t,

Tare Range: 100% FS
Zero Range: 4% FS
Safety Load 120% FS
Ultimate Load 400% FS
Overload Warning 100% FS
Battery 6V, 4Ah
Adapter DC 7.2V
Battery Life 80h
Temperature Range 10°C to 40°C

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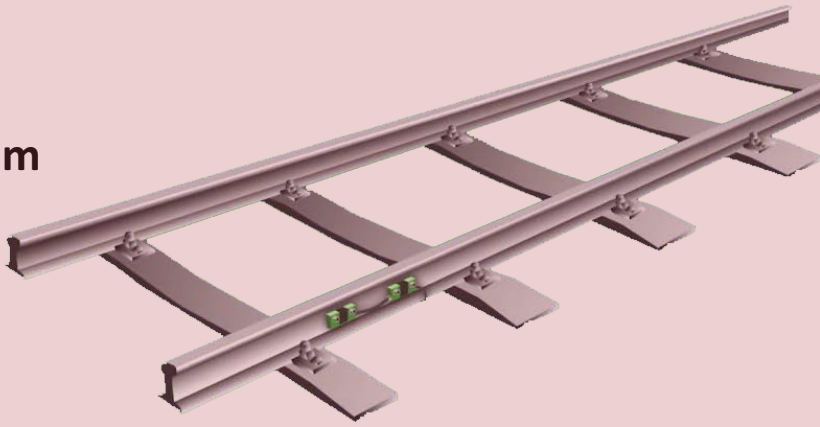
Rail Weighing System



Main Feature

Best suites into variety of rail tracks.
No restrictions on wagon length or axle pitch distance.
Cost & time saving installation.
Less Civil modifications.
Perfect for freight transit.
Static and in-motion possibilities.
Pitless type of design made maintenance easy.

Technical Specifications

Capacity Range:
- 0-1500T

Static Accuracy
- ±0.5% of F.S.

Dynamic Accuracy
- ±1.0% of F.S.

Working Temperature
- -30°C to +250°C

Running Speed
- Upto 5Km/h

Relative Humidity
- <90%

Safe Load Limit
- 120%

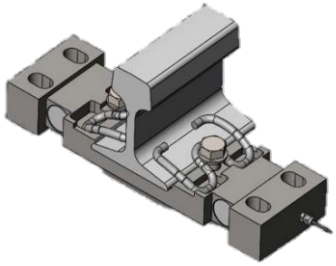
Ultimate Over Load
- 150%

Weigh Zone
- User Defined

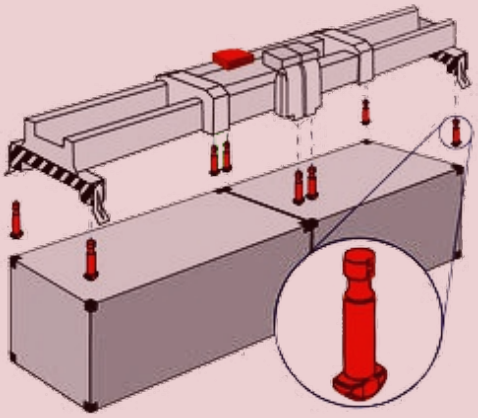
Application
- Static
- Dynamic

Safe Overload Limit
- 150%

Communication
- RS232/RS485/MODBUS/Ethernet



Container Weighing System



Main Feature

- Weighs in real-time as part of normal lifting operations
- Fast and simple installation
- Accurate and reliable
- Can be easily retrofitted to all existing container lifting equipment
- Utilizes proven strain gauge technology
- Identifies eccentrically loaded and overloaded containers
- Data output in various analogue/digital formats
- Pre-wired cable assemblies
- Linearization facility
- Non-intrusive method of load measurement

Key Benefits

- Port operations can continue without any delays/holdups
- Minimal downtime and reduced installation costs
- Meets the requirements of SOLAS and designed for use in dockside environments
- Highly adaptable solution suitable for both large and small ports
- Tried and tested method of load measurement offers ‘peace of mind’
- Provides twistlock damage warning and improves safety
- Can be integrated directly with TOS, or supplied as a stand alone system
- No system wiring required during installation (de-skilling commissioning)
- Can calibrate the system once installed to give best possible accuracy
- No modifications required, reducing costs

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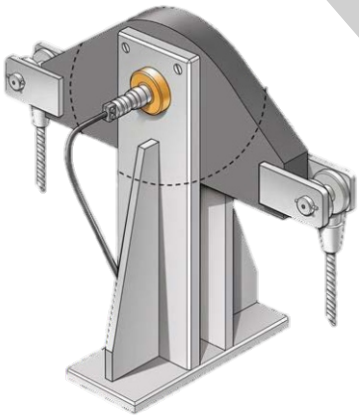
Crane Weighing Systems

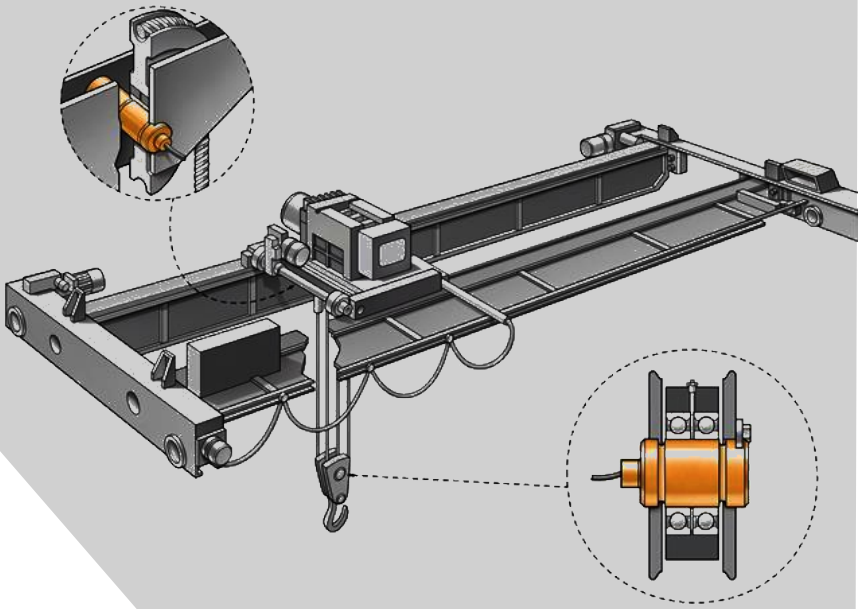
Main Feature

Strain gauge load cells available in Compression / Double ended shear Beam/S Type
MOC of Load cells are Stainless steel & Nickel plated Alloy steel with IP68/IP67 protection having 6 wire technique available in E & C3 accuracy class with OIML approval
Weight Indicator with 24 Bit internal resolution.
Retransmission of weight to master by way of RS232, 4-20mA, RS485 with MODBUS Protocol through wireless device
High intensity Large figure Display of 100/200mm is provided for better visibility

Key Benefits

Low Deflection
Stainless Steel/ Alloy Steel / Aluminum alloy Construction
High accuracy
High Linearity
High overload Limit
Alarm
Emergency Stop
Payload Weight display
Overload protection
As per need design and feature availability
Crane movement control
Digital display
Data logging and recording
Wire or Wireless communication
RS232/RS485 MoDBUS , Ethernet Protocols.
Cloud Data gathering.





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Weighing Controllers

BELT WAY INTEGRATOR

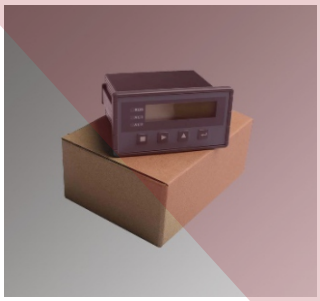
ESS011

ESS102

ESSM10

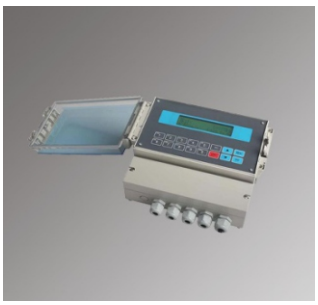
ESS211

ESS221



ESSB60

ESSM60



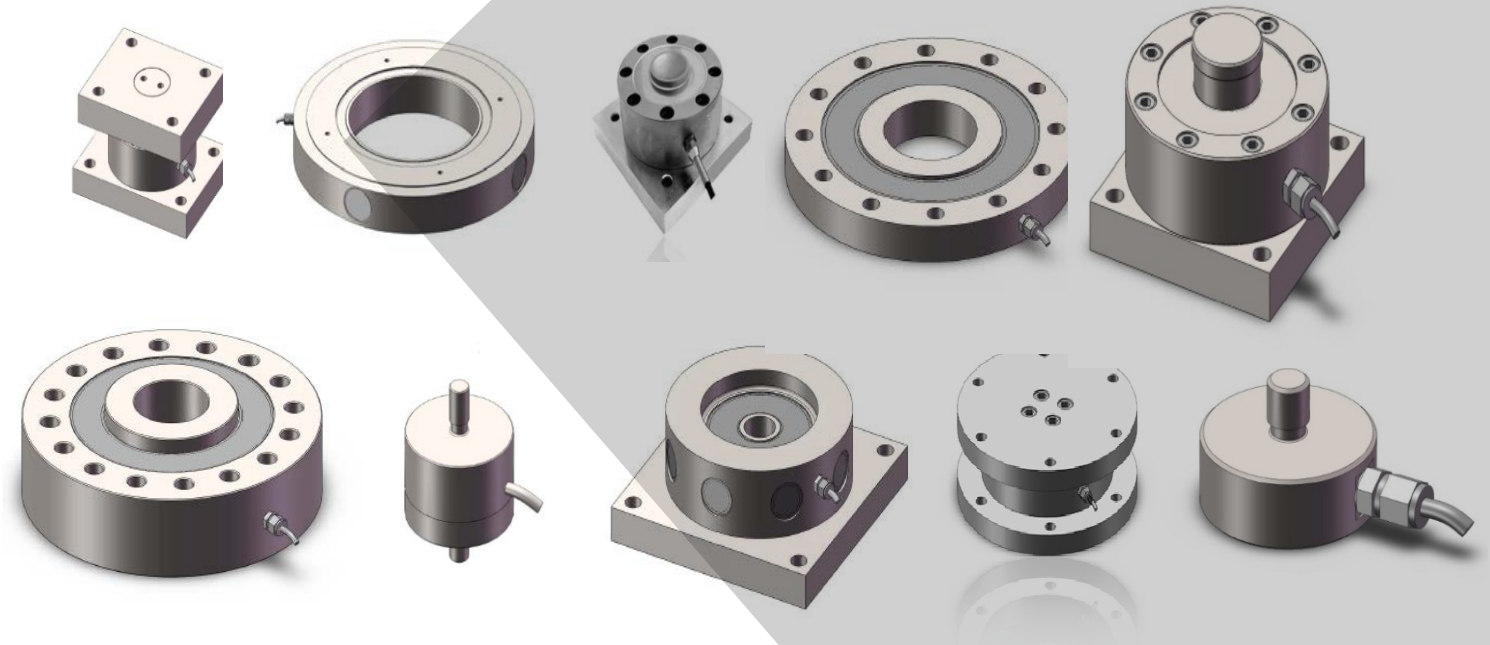
ESS052

ESS059

ESS060

REMOTE DISPLAY

Loadcells



About US

Our mission is to produce and continually develop quality products at a competitive price while fostering a climate where technology can drive machinery handling.

To build the best services in the industry, use the business to inspire and implement solutions to the logistics segment

1000/A, Nagasandra Main Road
5th Block HMT Layout
SBI Bank Colony
Nagasandra
Bengaluru
Karnataka
560073

CONTACT WITH US :

+91 9148570851 / 49

080 4606 5206

www.esskaysystems.com

sales@esskaysystems.com