

Engineering Machinery Management Expert 工程机械管理专家

Crane

Excavator

Handler

- 安全监测 Security monitoring
- 效率统计 Efficiency statistics
- 物联平台 Internet of Things

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whats app

Yichang Seezol Technology Co., LTD., founded in 2015, is a technology enterprise focusing on the production of construction machinery safety protection devices. The company is located in the scenic Yichang city of Hubei Province, adjacent to the world famous Three Gorges Dam, with superior geographical location and convenient transportation. As a national high-tech enterprise, we have a professional R & D team and excellent manufacturing capabilities. Our products are involved in many fields, including construction, highway, railway, port, mining, metallurgy, etc., and has passed a number of national quality certification and industry certification, deeply praised and trusted by our customers.

Products and Services

- Excavator Load Moment Indicator
- Material Handling Excavator overload Limit System
- Crane Torque Protection Device
- Industrial IOT System Customization
- Embedded System Development
- Professional Training



2024
OEntering the South African and European markets

2022
Our products cover the entire Southeast Asian market

2020
Excavator Weighing System Developed Successfully

2018
National High-tech Enterprises

2016
Enter the Singapore Market

2025
Loader Safe Load Limiter Developed Successfully

2023
Loader Weighing System Developed Successfully

2021
National Science and Technology Enterprises

2019
Enter the Indonesian Market

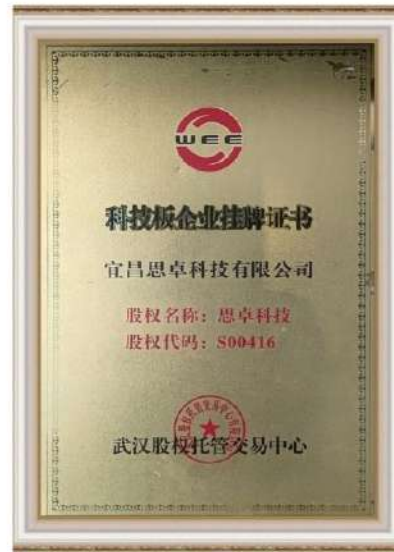
2017
First Material Handling Excavator Load Indicator Launched

2015
Company Establishment



荣誉证书 Credential

Yichang SeeZol Technology Co., Ltd.



挖掘机力矩限制器

Excavator Load Moment Indicator

Function

Data Display

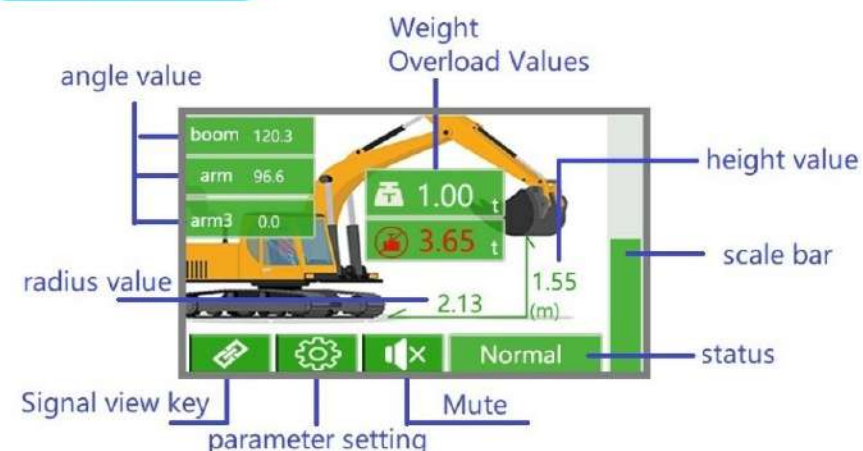
Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks



参数 Parameter

型号(type)	SZ-E02
工作温度(temp)	-20℃~70℃
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	15-85t
防护(IP)	IP65
显示(display)	4.3"



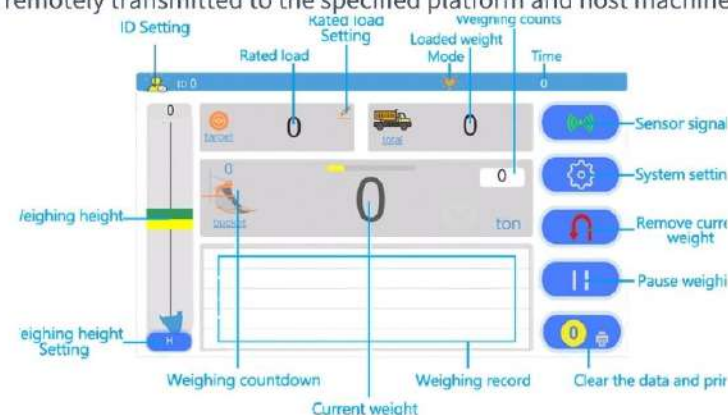
挖掘机称重系统

Excavator Load Indicator (Onboard Weighing System)

Function



- **Automatic Weighing:** when the bucket is lifted to the weight height, it will weigh automatically and will clear automatically after unloaded
- **Cumulative Weighing:** automatic accumulation, showing the total weight, quantity still need to be loaded, alarm tips when overloaded
- **Data recording:** historical record tracing, can record the driver, material type, loading time, etc
- **Remote transmission:** through the dedicated remote module, the data can be remotely transmitted to the specified platform and host machine



参数 Parameter

型号(type)	SZ-E300
工作温度(temp)	-20°C~70°C
系统误差(errors)	3-5%
电源(power)	DC12-36v
范围(range)	10-40t
防护(IP)	IP65



抓料机称重系统

Hydraulic Material Handler Load Indicator

Function

- **Automatic Weighing:** when the bucket is lifted to the weight height, it will weigh automatically and will clear automatically after unloaded
- **Cumulative Weighing:** automatic accumulation, showing the total weight, and difference, alarm tips when beyond the limit
- **Data recording:** historical record tracing, can record the driver, material type, loading time, etc
- **Remote transmission:** through the dedicated remote module, the data can be remotely transmitted to the specified platform and host machine



参数 Parameter

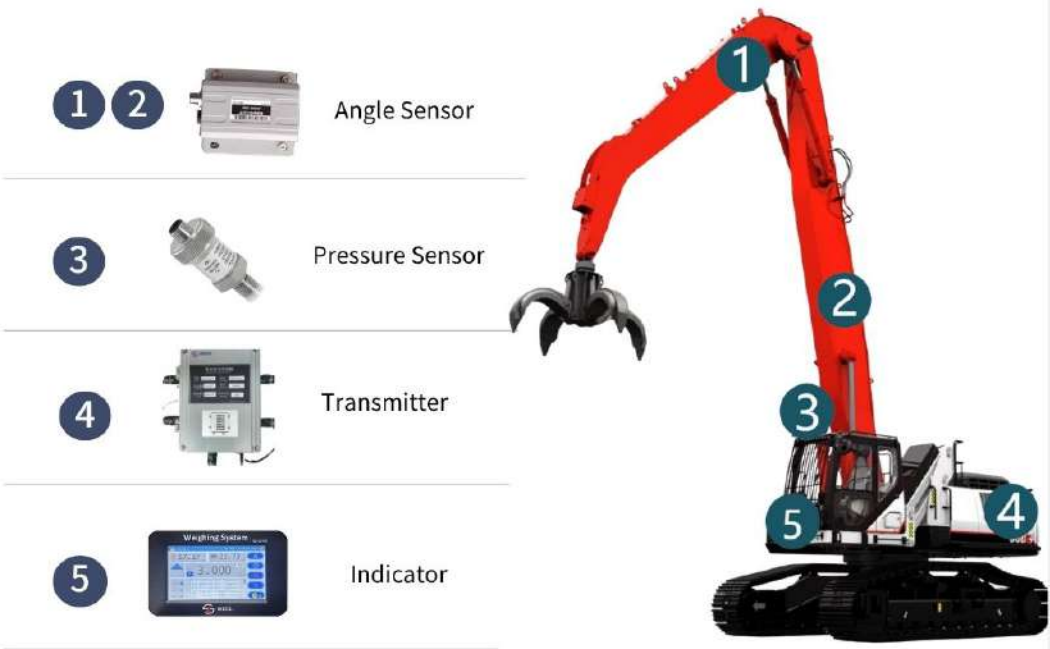
型号(type)	SZ-EM300
工作温度(temp)	-20°C~70°C
系统误差(errors)	3-6%
电源(power)	DC12-36v
范围(range)	10-40t
防护(IP)	IP65



抓料机力矩限制器

Hydraulic Material Handler Load Moment Indicator

Function

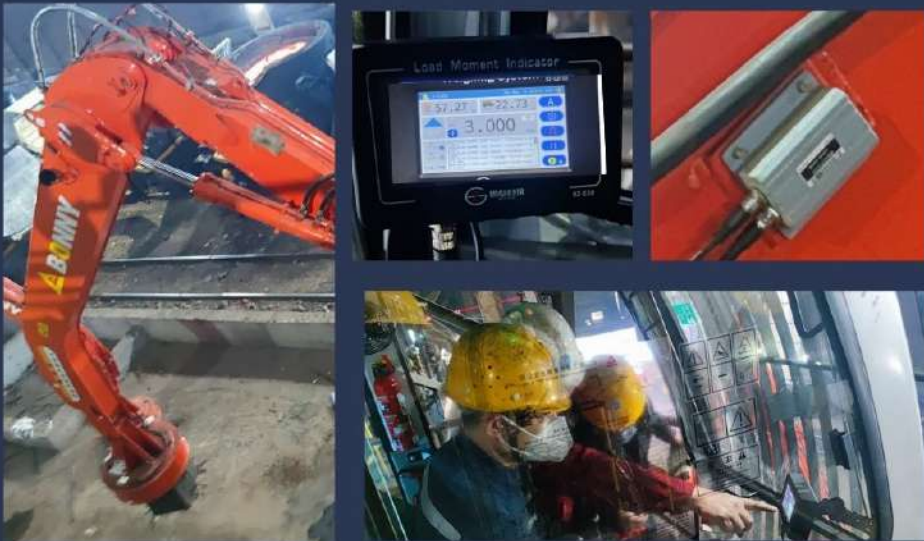


- Data Display Display current weight, height, radius, angle
- Danger Warning Overload and over-range alarm prompts
- overload record Store overload records for two weeks



参数 Parameter

型号(type)	SZ-EM02
工作温度(temp)	-20°C~70°C
系统误差(errors)	3-6%
电源(power)	DC12-36v
范围(range)	10-40t
防护(IP)	IP65



挖掘机效率统计系统

Excavator Efficiency Statistics System

Function

- **Work cycle:** Identify and record one work cycle of the excavator
- **Cumulative times:** Automatically cumulate, record times and timing, etc
- **Data recording:** historical record tracing, can record the driver, material type, loading time, etc
- **Data interaction:** Data communication with customer host machine via RS485 or Can bus



参数 Parameter

型号(type)	SZ-E02L
工作温度(temp)	-20°C~70°C
系统误差(errors)	3-6%
电源(power)	DC12-36v
范围(range)	10-40t
防护(IP)	IP65



正面吊偏载系统

Reachstackers Load Indicator

1



显示器, 打印机, 语音播报,
箱号识别系统 (选装)
Monitor, Printer, Voice
Announcement, Case
Number Identification
System (Optional)

2



重量传感器*4
Weight sensor

3



信号变送器
Signal transmitter



Function

- **Weighing and Print:** display the actual weight, can print out the driver's name, date and time, uneven loading situation and box weight with number
- **Empty container detection:** The system detects whether the container is empty or heavy by accurate weighing and the value range of the empty container
- **Uneven Loading detection:** When the container is off-load, the current center of gravity position is calculated in real time, and the off-load information is displayed through the display screen and an alarm signal will be sent out to remind the driver.
- **Unlocking detection:** Automatically detect whether the container and flat car are unlocked, if not unlocked, system will send an alarm signal and control the vehicle.
- **Data storage:** The main controller built-in memory card and can store the device working weight, uneven loading status overload status and other information in real time for easy access.

参数 Parameter

型号(type)	SZ-RS100
工作温度(temp)	-20°C~70°C
系统误差(errors)	0.1-0.5%
电源(power)	DC12-36v
范围(range)	10-60t
防护(IP)	IP65



正面吊称重系统

Reachstackers Load Indicator

Function



- **Weighing and Print:** display the actual weight, can print out the driver's name, date and time, uneven loading situation and box weight with number
- **Empty container detection:** The system detects whether the container is empty or heavy by accurate weighing and the value range of the empty container
- **Uneven Loading detection:** When the container is off-load, the current center of gravity position is calculated in real time, and the off-load information is displayed through the display screen and an alarm signal will be sent out to remind the driver.
- **Unlocking detection:** Automatically detect whether the container and flat car are unlocked, if not unlocked, system will send an alarm signal and control the vehicle.
- **Data storage:** The main controller built-in memory card and can store the device working weight, uneven loading status overload status and other information in real time for easy access.

参数 Parameter

型号(type)	SZ-RS100
工作温度(temp)	-20°C~70°C
系统误差(errors)	0.5-1%
电源(power)	DC12-36v
范围(range)	10-60t
防护(IP)	IP65



正面吊力矩限制器系统

Reachstackers Load Moment Indicator

Function

- 1 indicator
- 2 Pressure Sensor
- 3 Long angle sensor
- 4 Alarm light



- Operational Clarity: A high-definition display keeps your operators informed and in control at every stage of the cycle.
- Active Alarms: Visual and audible alerts trigger immediately if an imbalance is detected, preventing dangerous tip-overs before they happen.
- Real-time Logging: The built-in high-capacity memory card records every lift, every overload event, and every imbalance status.
- Easy Access: Export data seamlessly for safety audits, performance analysis, and incident investigation.
- Reduce Downtime: Prevent mechanical strain and accidents.
- Enhance Compliance: Meet international port safety standards effortlessly.
- Protect Your People: Give your drivers the confidence of a 360-degree safety net.

参数 Parameter

型号(type)	SZ-RS01
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	10-60t
防护(IP)	IP65



装载机称重计量系统

Loader Weighing Metering System

- 1 Monitor
显示器
- 2 Position switch
位置开关
- 3 Pressure Sensor
油缸压力
- 4 Printer
打印机
- 5 Wireless Module (Optional)
无线模块



Function

- **Cumulative weighing:** no need to stop the bucket, automatic weighing during lifting and will not affect the loading efficiency and can prevent overload and underload.
- **Voice broadcasting:** voice reading function can broadcast the current weight, over load weight for last shovel, weight stuck to the bucket, final shovel weight, switch machine which can effectively prevent the driver from misoperation at night.
- **Data printing:** can print loading time, unit name, cargo name, weight, vehicle number and other data.
- **Remote data:** Optional function for users to choose whether want to use the remote data for installation, it can send data to the network platform and it's convenient for users to view data remotely.
- **Historical data:** The main controller built-in memory card and can store the data of the device in real time, which is convenient for statistics and acceptance

参数 Parameter

型号(type)	SZ-LD100
工作温度(temp)	-30°C~70°C
系统误差(errors)	≤1%
电源(power)	DC12-36v
范围(range)	0-25t
防护(IP)	IP67



装载机重量限制器

Loader Safe Load Limiter

1 Monitor
显示器

2 Position switch
位置开关

3 Pressure Sensor
油缸压力

4 Alarm light
报警灯



Function

- **Weighing** : display the current actual weight
- **Overload protection**: to prevent overload operation of the forklift and avoid damage or safety accidents caused by overload.
- **Torque limit monitoring**: limit the torque of the forklift to ensure that the forklift works within a safe range.
- **Warning function**: when overload or torque exceeds the limit, sound and light warning is issued to remind the operator to pay attention.
- **Data storage**: record the load and torque data of the forklift for easy management and analysis.

参数 Parameter

型号(type)	SZ-LD01
工作温度(temp)	-20°C~70°C
系统误差(errors)	1%
电源(power)	DC12-36v
范围(range)	0-100t
防护(IP)	IP65



侧臂载荷力矩限制器

Side boom load moment indicator

1



显示器
Indicator

2



角度传感器
Angle sensor

3



重量传感器
Weight sensor

4

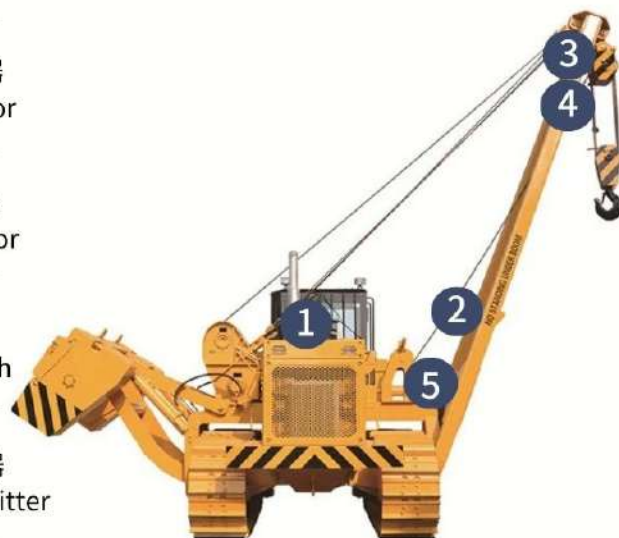


限位开关
Limit switch

5



信号变送器
Signal transmitter



Function

- **Weighing and Print:** display the actual weight, can print out the driver's name, date and time, box weight with number
- **Overload protection:** The limiter can monitor the load torque of the side arm of the crane in real time, and when the load exceeds the set limit value, it will issue an alarm or automatically stop the operation of the crane to prevent damage or accidents caused by overload number.
- **Torque limit monitoring:** it can set a reasonable torque limit value according to the rated torque and working conditions of the crane. During the lifting process, the limiter will monitor the torque of the side arm to ensure that the crane works within a safe torque range and prevent excessive force on the side arm.
- **Amplitude limit monitoring:** In addition to torque limits, the limiter can also monitor and limit the amplitude of the side arm of the crane. By setting the upper and lower limits of the amplitude, excessive or insufficient extension of the side arm can be avoided to ensure the safety and accuracy of the lifting operation.
- **Data storage:** The main controller built-in memory card and can store the device working weight, overload status and other information in real time for easy access. Automatically save data when power is off.

参数 Parameter

型号(type)	SZ-SDB01
工作温度(temp)	-20°C~70°C
系统误差(errors)	1-3%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65



叉车重量限制器

Forklift Safe Load Indicator

1 显示器
Indicator

2 重量传感器
Weight sensor

3 角度传感器
Angle sensor
(Optional)



Function

- **Weighing**: display the current actual weight
- **Overload protection**: to prevent overload operation of the forklift and avoid damage or safety accidents caused by overload.
- **Torque limit monitoring**: limit the torque of the forklift to ensure that the forklift works within a safe range.
- **Warning function**: when overload or torque exceeds the limit, sound and light warning is issued to remind the operator to pay attention.
- **Data storage**: record the load and torque data of the forklift for easy management and analysis.

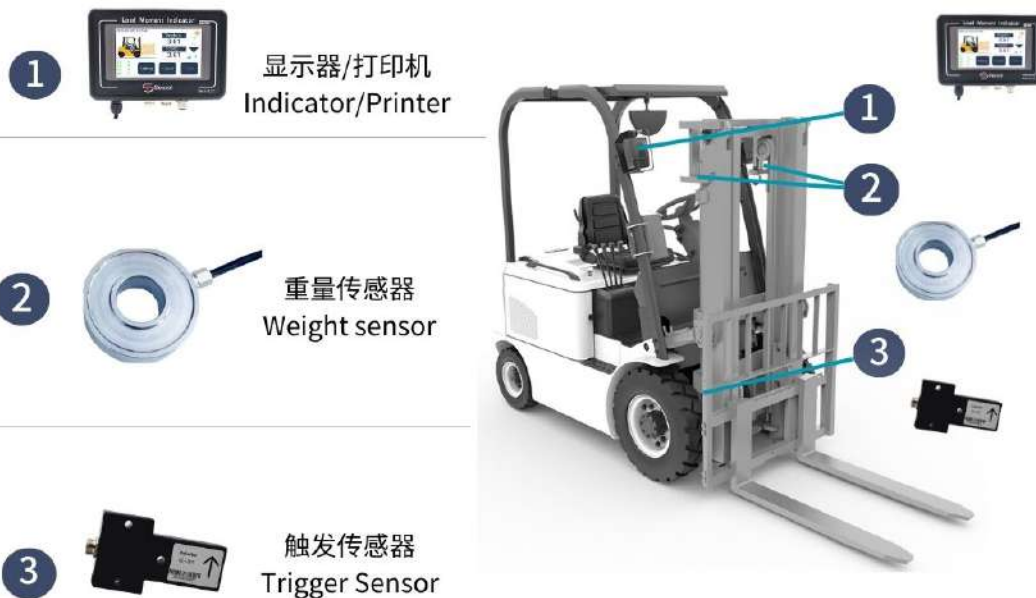
参数 Parameter

型号(type)	SZ-SF01
工作温度(temp)	-20°C~70°C
系统误差(errors)	3%
电源(power)	DC12-36v
范围(range)	0-20t
防护(IP)	IP65



叉车称重系统

Forklift Weighing System



Function

- **Automatic Weighing:** when the bucket is lifted to the weight height, it will weigh automatically and will clear automatically after unloaded
- **Cumulative Weighing:** automatic accumulation, showing the total weight, quantity still need to be loaded , alarm tips when overloaded
- **Data recording:** historical record tracing, can record the driver, material type, loading time, etc
- **Remote transmission:** through the dedicated remote module, the data can be remotely transmitted to the specified platform and host machine

参数 Parameter

型号(type)	SZ-FW01
工作温度(temp)	-20°C~70°C
系统误差(errors)	1%
电源(power)	DC12-36v
范围(range)	0-10t(单次)
防护(IP)	IP65



Telehandler Forklift Load Moment Indicator

伸缩臂叉车力矩限制器

Function

1



显示器
Indicator

2



压力传感器
pressure sensor

3



长角度传感器
Long angle sensor



Data Display

Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks

wireless

Customizable wireless transmission,
remote security monitoring

参数 Parameter

型号(type)	SZ-TF100
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65



Spider Crane Load Moment Indicator

蜘蛛起重力矩限制器

Function

1 显示器
Indicator

2 压力传感器
pressure sensor

3 长角度传感器
Long angle sensor

4 限位器
Limit Switch



Data Display Display current weight, height, radius, angle

Danger Warning Overload and over-range alarm prompts

overload record Store overload records for two weeks

wireless Customizable wireless transmission,
remote security monitoring

参数 Parameter

型号(type)	SZ-SC01
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-20t
防护(IP)	IP65



Articulated Boom Crane Load Moment Indicator

折臂吊车力矩限制器

Function

- 1  显示器
Indicator
- 2  压力传感器
pressure sensor
- 3  角度传感器
Angle sensor
- 4  长角度传感器
Long angle sensor



Data Display

Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks

wireless

Customizable wireless transmission,
remote security monitoring

参数 Parameter

型号(type)	SZ - AB100
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65



Truck Crane Load Moment Indicator

随车起重力矩限制器

Function

1



显示器
Indicator

2



长角度传感器
Long angle sensor

3



限位器
Limit Switch

4



重量传感器
Weight sensor



Data Display

Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks

wireless

Customizable wireless transmission,
remote security monitoring

参数 Parameter

型号(type)	SZ - TC01
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65



Truck Crane Load Moment Indicator

随车起重力矩限制器

Function

1



显示器
Indicator

2



长角度传感器
Long angle sensor

3



限位器
Limit Switch

4



压力传感器
WPressure sensor



Data Display

Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks

wireless

Customizable wireless transmission,
remote security monitoring

参数 Parameter

型号(type)	SZ - TC01
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65



Truck Crane Load Moment Indicator

随车起重力矩限制器

Function

1



显示器
Indicator

2



长角度传感器
Long angle sensor

3



限位器
Limit Switch

4



三滑轮
Three Bully Sensor



Data Display

Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks

wireless

Customizable wireless transmission,
remote security monitoring

参数 Parameter

型号(type)	SZ - TC01
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65



Mobile Crane Load Moment Indicator

汽车吊力矩限制器

Function

1



显示器
Indicator

2



限位器
Limit Switch

3

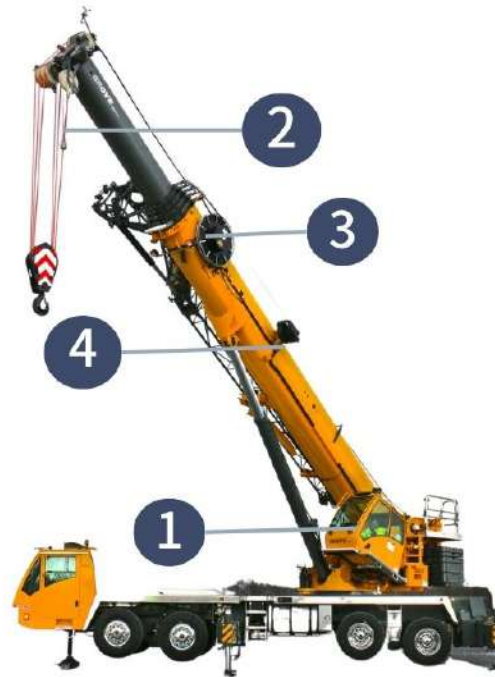


三滑轮
Three Pulley
Sensor

4



长角度传感器
Long angle sensor



Data Display

Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks

wireless

Customizable wireless transmission,
remote security monitoring

参数 Parameter

型号(type)	SZ - M100
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65



Mobile Crane Load Moment Indicator

汽车吊力矩限制器

Function

1



显示器
Indicator

2



限位器
Limit Switch

3



油压传感器
Pressure Sensor

4



长角度传感器
Long angle sensor



Data Display

Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks

wireless

Customizable wireless transmission,
remote security monitoring

参数 Parameter

型号(type)	SZ - M100
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65



Crawler Crane Load Moment Indicator

履带吊力矩限制器

Function

1



显示器
Indicator

2



限位器
Limit Switch

3



三滑轮
Three Pulley Sensor

4

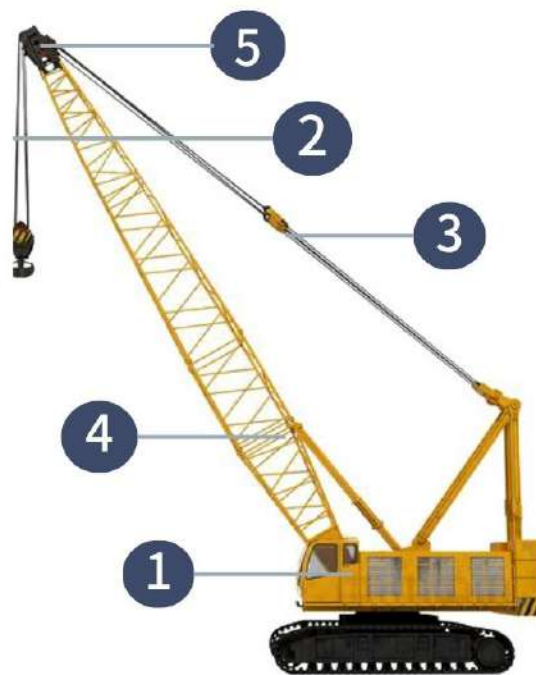


角度传感器
Angle sensor

5



风速传感器
Anemometer



Data Display

Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks

wireless

Customizable wireless transmission,
remote security monitoring

参数 Parameter

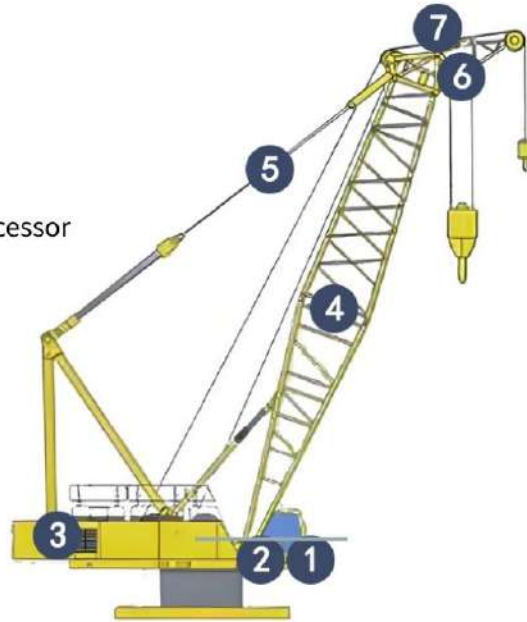
型号(type)	SZ - C100
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65



Ship Crane Load Moment Indicator

船用起重力矩限制器

- 1  显示器
Indicator
- 2  主机
Main Control Host
- 3  信号采集处理器
Signal acquisition processor
- 4  角度传感器
Angle sensor
- 5  三滑轮
Three Pulley Sensor
- 6  限位器
Limit Switch
- 7  风速传感器
Anemometer

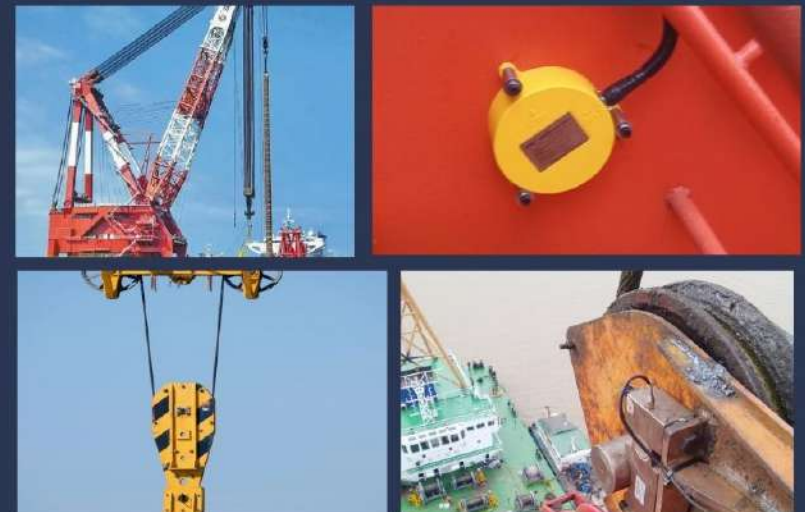


Function

- Data Display** Display current weight, height, radius, angle
- Danger Warning** Overload and over-range alarm prompts
- overload record** Store overload records for two weeks
- wireless** Customizable wireless transmission, remote security monitoring

参数 Parameter

型号(type)	SZ - SC100
工作温度(temp)	-20°C~70°C
系统误差(errors)	5%
电源(power)	DC12-36v
范围(range)	1-60t
防护(IP)	IP65

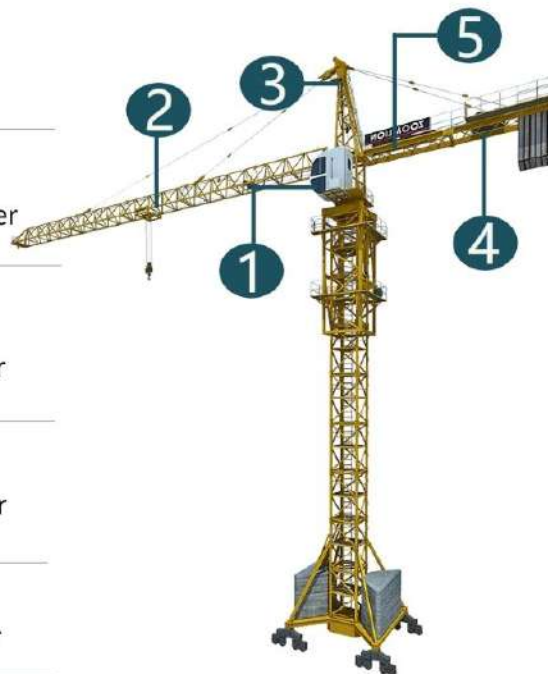


Tower Crane Load Moment Indicator

塔吊力矩限制器

Function

- 1  显示器
Indicator
- 2  量程编码器
Range encoder
- 3  风速传感器
Anemometer
- 4  量程编码器
Range encoder
- 5  重量传感器
Weight Sensor



Data Display

Display current weight, height, radius, angle

Danger Warning

Overload and over-range alarm prompts

overload record

Store overload records for two weeks

wireless

Customizable wireless transmission, remote security monitoring

参数 Parameter

型号(type)	SZ - T090
工作温度(temp)	-20°C~80°C
系统误差(errors)	3%-5%
电源(power)	DC12-36v
范围(range)	10-80t
防护(IP)	IP65

