



SAFETY EXPERT FOR CRANES

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CCS

ISO

CE



TX

宜昌市传感
物联实验室

ABOUT US



- National high-tech enterprise
- CE authentication enterprise
- ISO9001-2008 quality system certification
- CCS certification enterprises
- 2500T large crane overload limiter production qualification
- 342000 kn. m Super large load moment indicator production qualification
- Hoisting machinery maintenance class A qualification
- Crane load moment indicator explosion-proof certificate
- Crane safety monitoring management system of national recognized qualification
- Yichang sensing united laboratory construction enterprise
- Drafting compang of four national standards

Founded in 2002, Weite Technologies Co.,Ltd is a national hi-tech enterprise located in renowned "Hydro-power Capital" -Yichang City. It is a key enterprise supported by Hubei province and focusing on R&D and OEM manufacturing lifting safety protection devices such as load moment indicator, safe monitoring systems, load cell, anemometers etc. The company continuously concentrate on ensuring lifting equipments run safely as it long-term pursuing goal. Nowadays, products are widely used in marine industry, electrical, chemical, steel, metallurgy, construction, ports and other industries, and have been wide spreaded to over 30 countries and regions.

The company has acquired over 40 patents and numerous significant provincial scientific achievements, together with third ranking of Hubei Science and Technology Award. It regards quality as life by equipped with CE, ISO9001-2008, CCS, UL certificates.

Till now, we have established long-term cooperation with several large-scale enterprises in China by reliable quality and good reputation. Meanwhile, Weite will always stand firmly on ensuring lifting equipment safer and more reliable towards our customers, with the corporate belief oriented by integrity, pragmatism, innovation and specialization.

Specialized in crane safety management for 19 years

Weite specialized in crane safety management for 19 years (2002-2021), Continue to cultivate four major industries. Strive to build a world-class crane safety protection expert.



hydropower



steel and shipyard



marine and offshore



construction



The 900-ton gantry crane which equipped with Weite Technologies's products was greatly praised by President Xi Jinping.



On May 25, 2015, Xi Jinping inspected a shipbuilding enterprise in Zhoushan, Zhejiang, and pointed at a 900-ton gantry crane which independently developed by China and said: "The big crane is really powerful, and it can lift so easily." The safety monitoring system of this gantry crane is designed and manufactured by Weite Technologies! While during the easily operation of this gantry crane, which requires too many sensing devices and automatic control technology.

Participated in the drafting of 3 national standards of the "Safety Regulations for Lifting Machinery"



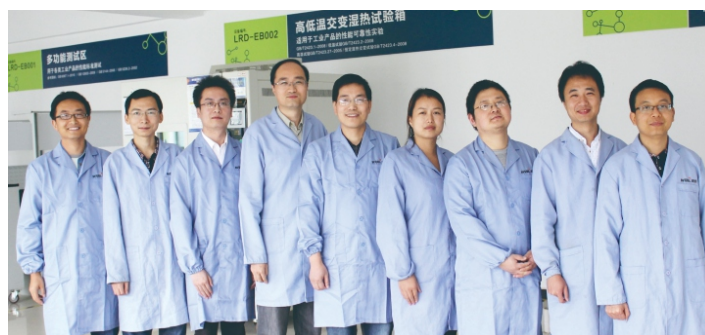
Weite Technologies has been the technical committee member of 3 branches of the National Hoisting Machinery Standardization Technical Committee (Boom Crane Branch, Electrical Working Group Branch, Bridge and Gantry Crane Branch). As of 2017, Weite Technologies has participated in the drafting of 3 national standards. Including: National Standard GB6067 "Safety Regulations for Lifting Machinery Part 5: Bridge and Gantry Cranes"; National Standard GB6067 "Safety Regulations for Lifting Machinery Part 4: Boom Cranes"; National Standard GB/T28264-2012 "Safety Monitoring of Lifting Machinery Management System."

ABILITY TO INNOVATE

Model Worker Innovation R&D Team

CTO Mr.Gao Yumin of Weite, founded the "Gao Yumin Model Worker Innovation Studio" in 2013, and was recognized as the Workers Innovation Studio in Hubei and Model Worker Innovation Studio in Yichang in 2016. The studio is mainly engaged in innovative work such as system design, development and improvement for crane safety monitor parts.

The studio has successfully trained more than 40 young technicians, one of them won the title of Yichang Model Worker and another got the title of High-tech Craftsman in 2016, others got the engineer title. Since 2015, the team has completed more than 200 technical items and projects.



School-Enterprise R&D Center

Weite has maintained long-term technical cooperation with Jiangnan University, Three Gorges University, Central South Survey Design and Research Institute, Zhengzhou Machinery Research Institute and other scientific research institutions. Since 2013, Weite launches the industry-university-research cooperation, patent achievements have sharply risen to more than 50% in the past three years. These cooperation strategies guarantee Weite's technical strength.



194 intellectual property

Independent intellectual property rights By 2020, it has accumulated more than 194 intellectual property rights. Among them, the remote communication and technical support invention patents and remote electrical control patents are the core technologies for Weite to master the "smart hoisting" of the crane Internet of Things. In 2015, the "Hoisting Equipment Intelligent Safety Protection Monitoring System" project was identified as the international advanced level and won the third prize of Hubei Science and Technology Progress.



Note: The above statistics are in May 2020, and more than ten patents are under review.

FINE QUALITIES

In order to ensure the products can guarantee the safe operation of lifting equipment, Weite quality control runs through the entire process from product development, production, on-site service to after-sales. In terms of system construction, it has successively passed ISO9001 certification, CCS classification society certification, CE certification and A-level qualification for special equipment refurbishment.

Implement the ISO quality management system

In accordance with the requirements of the ISO9001 quality management system, each department strictly implements the standardization standard Management and control the product development, raw material procurement, production services, installation and commissioning of the whole process, after continuous improvement over the years, the product quality continues to improve.

Crane Safety Instrumentation Test Center

In order to further improve product quality, Weite build a crane safety device test center. It is the first in the industry to introduce a series of advanced experimental testing equipment such as microcomputer-controlled electronic universal testing machine, lightning surge generator, electrostatic discharge generator, high and low temperature alternating damp heat test box. By simulating the test under extreme conditions that may occur on the customer site, the reliability of the product has been fully ensured to meet the requirements.



Implement the ISO quality management system

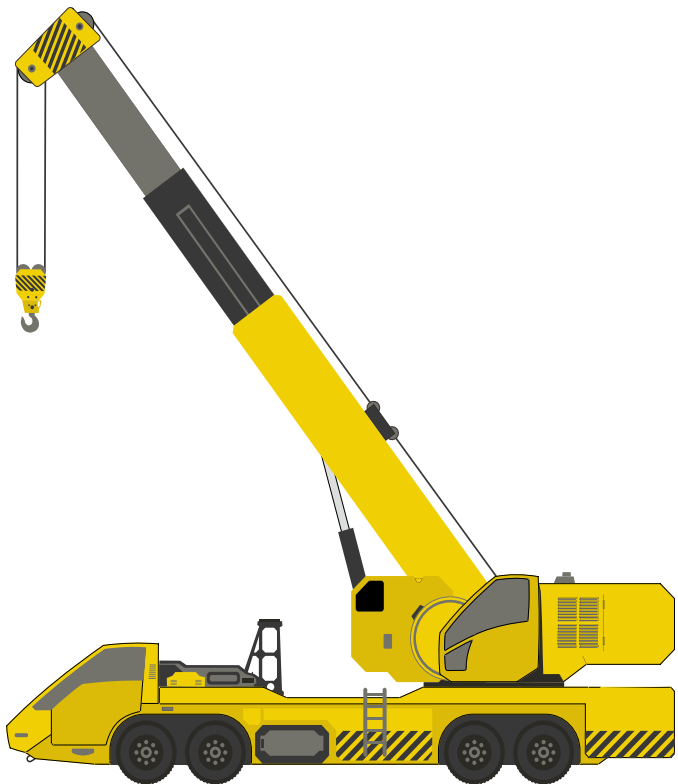
Implement a rigorous project management system to make the plan design, procurement inspection, personnel training, production and assembly, quality inspection, on-site debugging and other aspects clear and orderly. The company has successfully implemented many projects and introduced advanced project management methods to provide customers with the most worry-free guarantee services.

Crane Safety Instrumentation Test Center

Weite provides thoughtful on-site services, providing installation guidance, calibration and debugging, inspection and maintenance, and use training. Solving various problems for customers in time through telephone guidance or on-site dispatch to ensure long-term effective and safe operation of customer equipment.



MOBILE CRANE



01



Limit switch

02



Heavy hammer

03



Load sensor:SHL

04



Length/Angle sensor:WTC/J

05



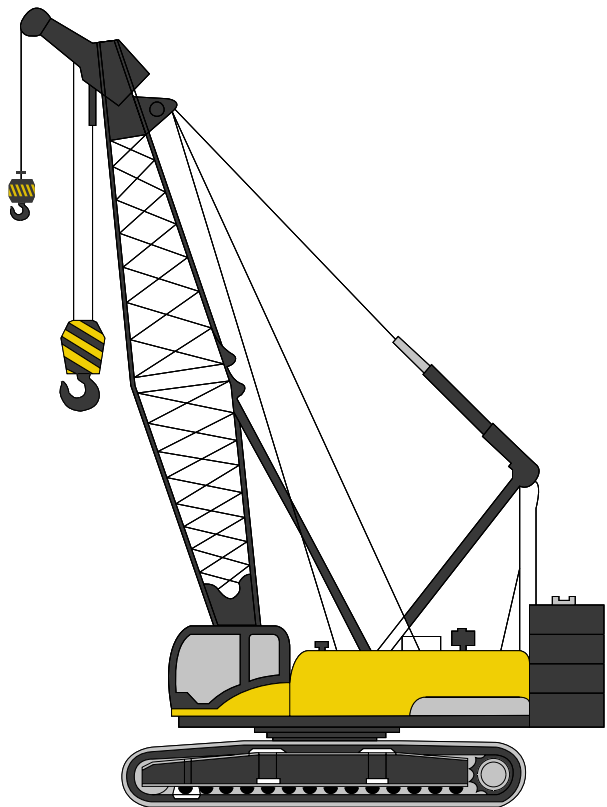
Data control box

06



Display

CRAWLER CRANE



01



Limit switch

02



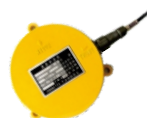
Heavy hammer

03



Load sensor:SHL

04



Angle sensor

05



Data control box

06



Display

SPECIFICATION & APPLICATION

Model No.	A700
Display	8inch LCD
Operating temperature	-20°C~70°C
Operating humidity	95% (25°C)
Signal input	≤6 channels
Control output	≤6 channels
System composition error	≤5% (F.S)
Power consumption	<30W
Alarm volume	>60db
IP grade	Ip65
Power supply	AC220V/DC24V

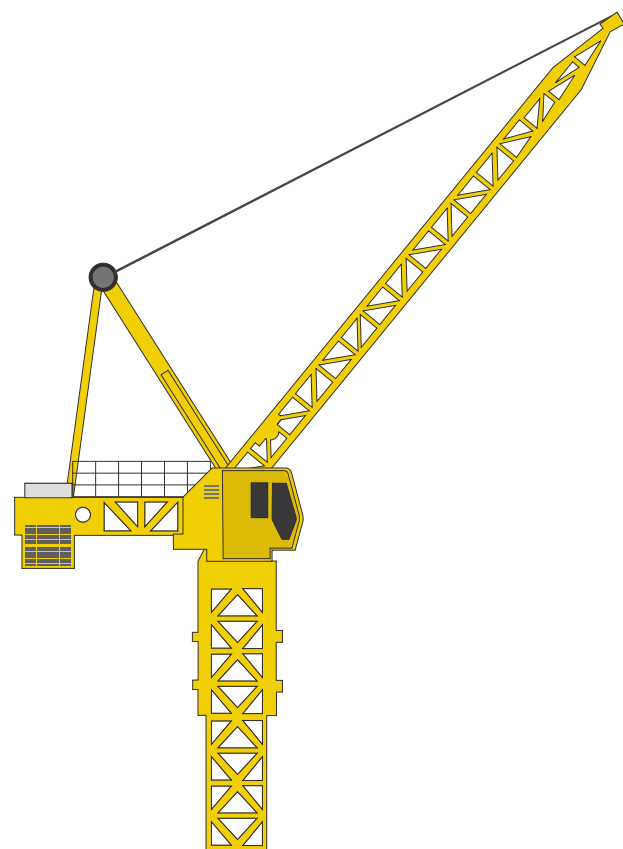






SPECIFICATION & APPLICATION

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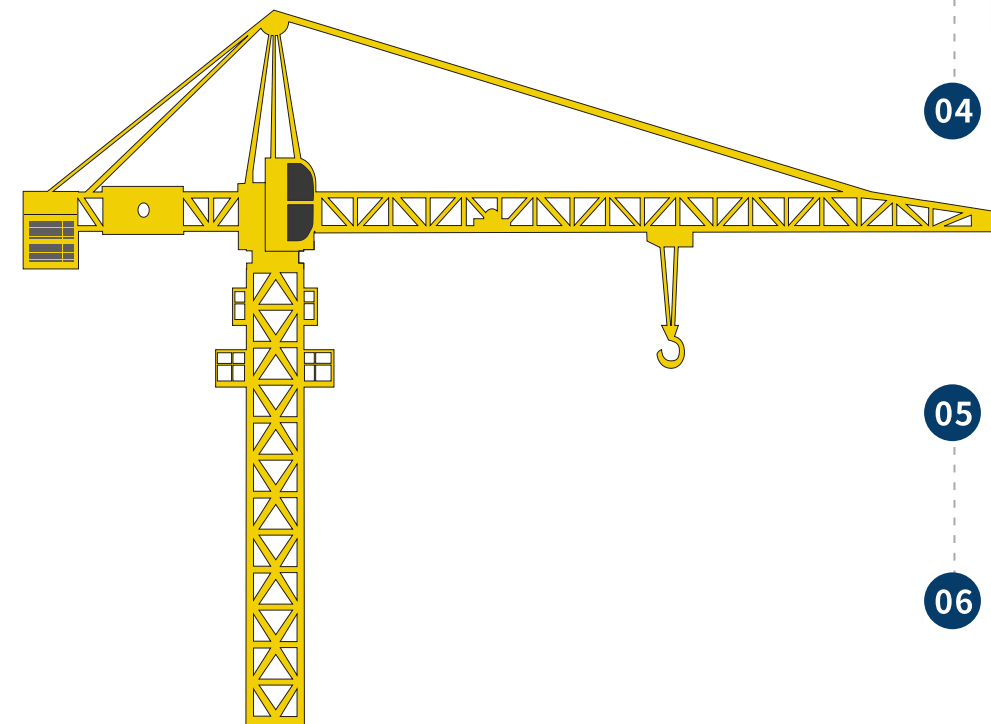








LUFFING BOOM TOWER CRANE



- 01  Display:WTL-A200
- 02  Angle sensor:
JD-180
- 03  Load sensor:SHL
- 04  Wind speed
sensor

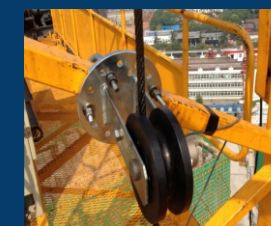
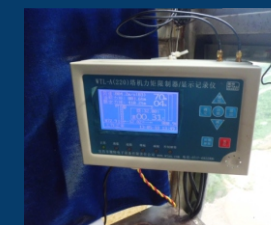
FLAT BOOM TOWER CRANE



- 01  Wind speed
sensor
- 02  Height sensor:
DXZ
- 03  Azimuth sensor
- 04  Trolley
sensor :DXZ
- 05  Load sensor
- 06  Display:
WTL-A220

SPECIFICATION & APPLICATION




Model No.	A200
Display	8inch LCD
Operating temperature	-20°C~60°C
Operating humidity	95% (25°C)
Signal input	≤5 channels
Control output	Switching value
	4~20mA RS485
System composition error	≤5% (F.S)
Power consumption	<35W
Alarm volume	>60db
IP grade	Ip64
Power supply	AC220V±10%

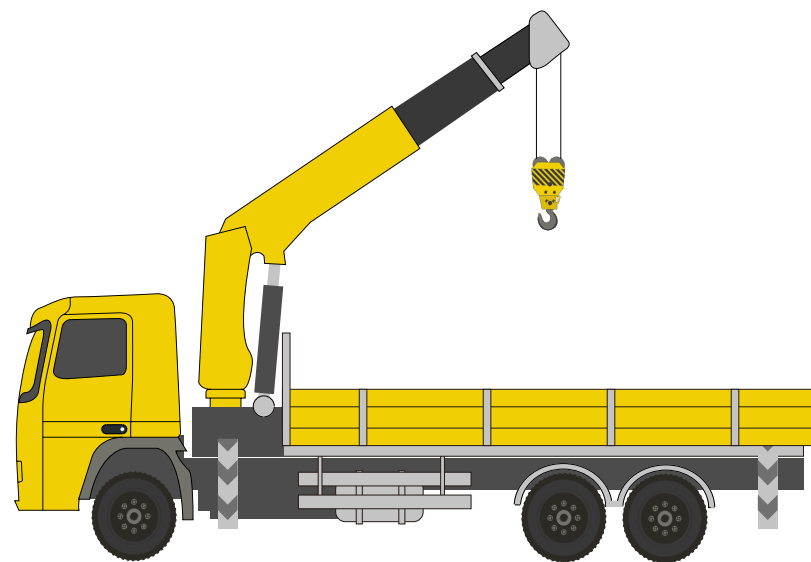


SPECIFICATION & APPLICATION

Model No.	A220
Display	8inch LCD
Operating temperature	-20°C~70°C
Operating humidity	95% (25°C)
Signal input	≤6 channels
Control output	≤6 channels
System composition error	≤5% (F.S)
Power consumption	<30W
Alarm volume	>60db
IP grade	Ip65
Power supply	AC220V/DC24V

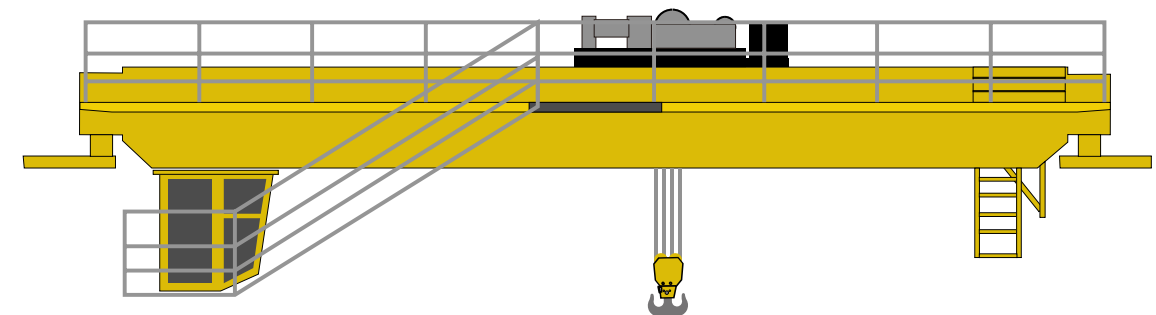
TRUCK MOUNTED CRANE

- 01  Display: WTL-A200
- 02  Load sensor: SHL
- 03  Length/Angle sensor: WTC/J



OVERHEAD CRANE

- 01  HD recorder
- 02  Display
- 03  Hoisting height sensor (encoder)
- 04  Monitor
- 05  Load sensor
- 06  Limit switch
- 07  Angle sensor
- 08  Camera



SPECIFICATION & APPLICATION

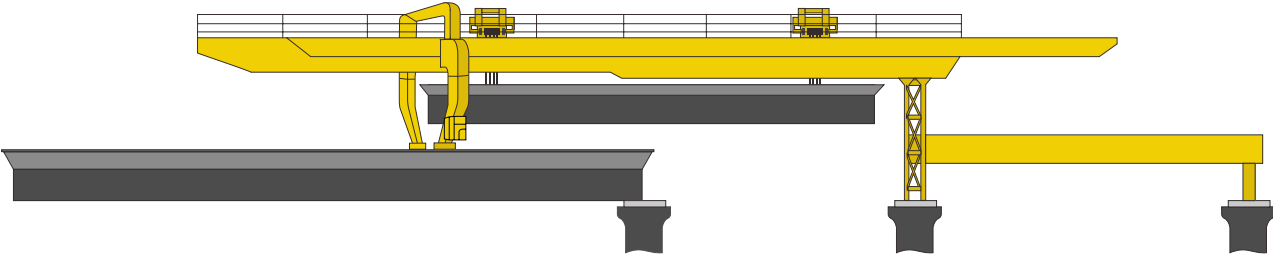
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Signal input	≤5 channels
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Power consumption	<35W
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IP grade	Ip64
Power supply	AC220V±10%



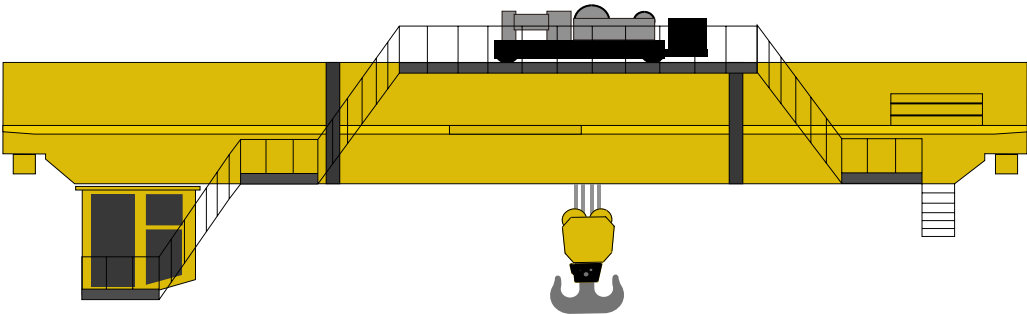
SPECIFICATION & APPLICATION

Model No.	A700
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LAUNCHING MACHINE

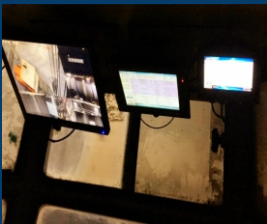


METALLURY CRANE



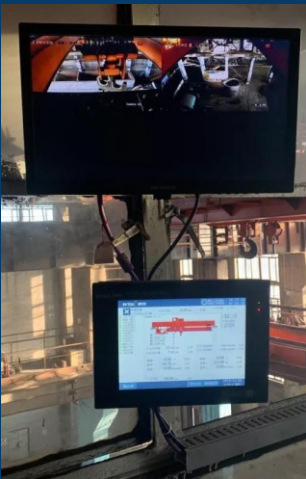
SPECIFICATION & APPLICATION

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Power supply	AC220V/DC24V

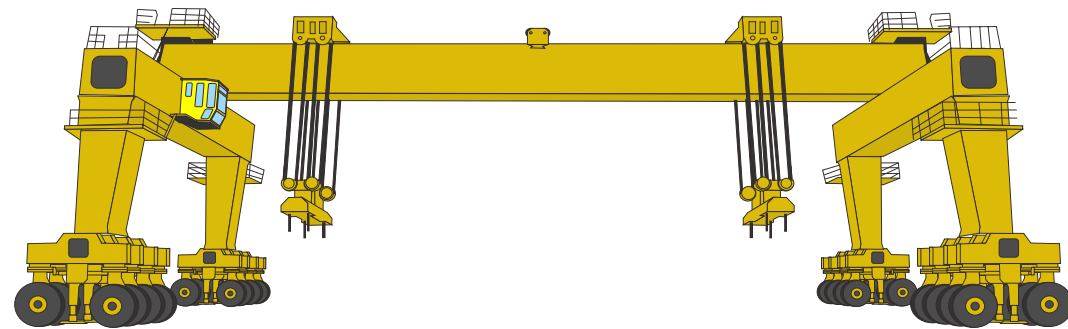
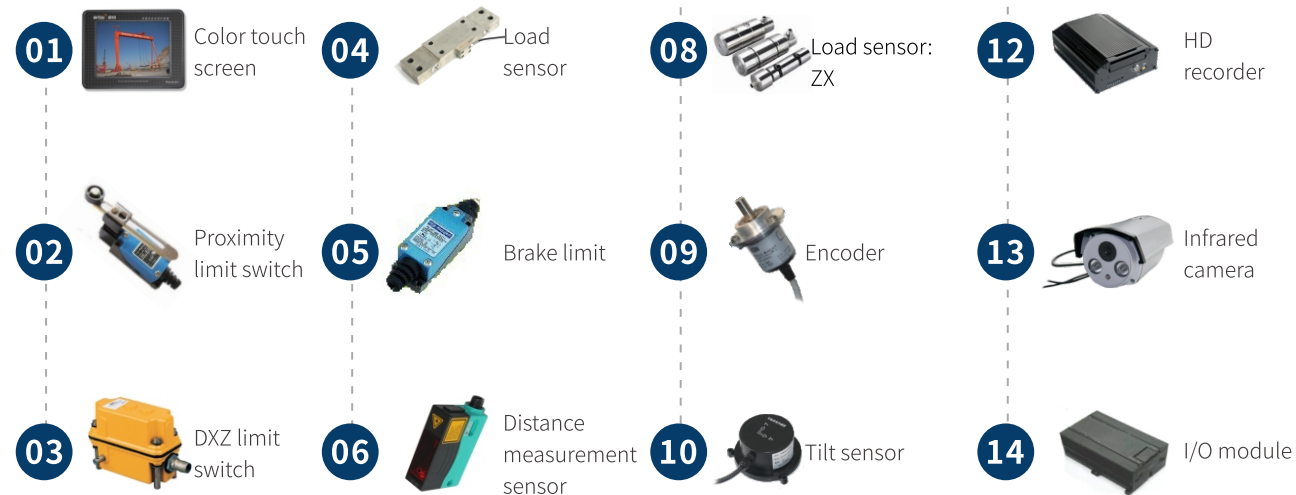


SPECIFICATION & APPLICATION

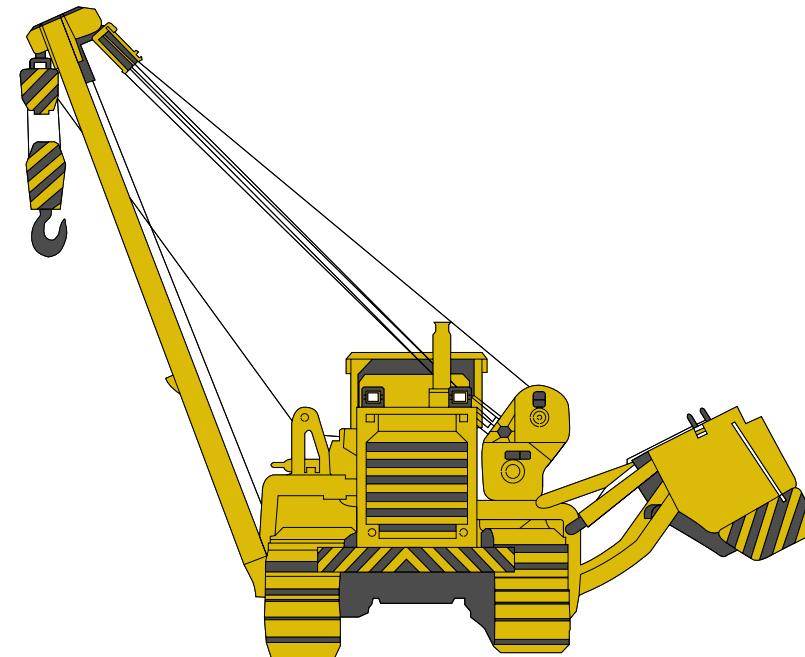
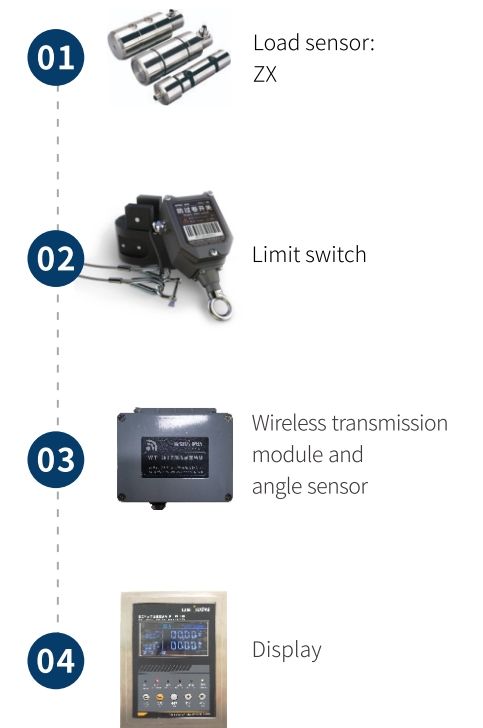
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IP grade	Ip65
Power supply	AC220V/DC24V



BEAM CARRIERS



PIPE LAYER WIRELESS LMI SYSTEM



1.This system can meet the requirements of national standards 《GB/T28264-2012》for safety monitoring of portal cranes, and can independently record and view classification parameters in real time.

2.It has common communication interface, passive switch signal interface, 4-20mA analog signal interface, pulse signal interface, independent and expandable I/O function. The data of the whole machine adopts Modbus or Profibus communication.

3.Historical operation records can be viewed in real time, and the correctness of operations can be analyzed and judged in the background. Various operating information of the equipment can be uploaded and recorded in the server.

4.The real-time GPS location of the device can be viewed remotely.

5.Early warning, alarm and control of common faults, and save fault information, can improve the safety and reliability of equipment operation.



SPECIFICATION & APPLICATION

Model No.	WT-W330V
Operating temperature	20°C~+60°C
Operating humidity	≤95%(25°C)
System composition error	±5% (F.S.)
Dimensions (L*W*H)	230*150*74mm
IP	P66
Power supply	AC220V/DC24V

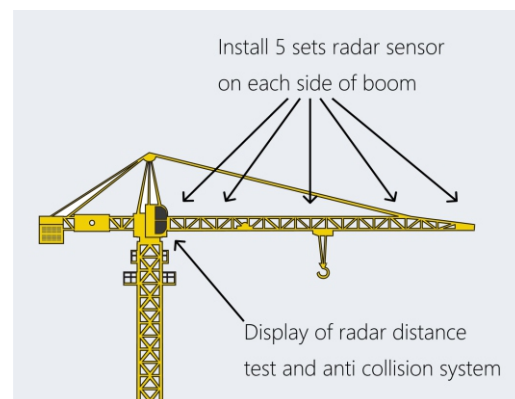
TOWER CRANE ANTI-COLLISION SYSTEM

The WTAU tower anti-collision system is a safety and/or driver assistance device for the management of the tower cranes operations on construction sites with two or more cranes. It helps the crane operator to anticipate the risk of collision between the moving parts of his crane and those of the neighboring crane.



The new system of tower crane equipments' zone protection anti-collision system, adopted with the most advanced millimeter wave radar sensor design, it is the active detection of obstacles entering the detection area, sending alarm information to the cabin, ensure the operators reaction in time to avoid accidents Or provide control signals to command the hoisting equipment directly. The data is connected by CAN signal and the data connection is stable. Detect horizontal obstacles and use data feedback to detect obstacles on both sides of the boom horizontally to prevent collisions with buildings and other lifting equipment.

After fixed the millimeter wave radar sensor on the boom with a U-shaped card, and fixed the sensor on the boom, connect and set all the data, choose the suitable relative distance, then the system can work. The millimeter wave radar sensor has flexible installation position and is suitable for various anti-collision application platforms. Six or more modules can be installed according to the application requirements, and low-power electromagnetic beams are transmitted to the surroundings, and the echo signals are captured to calculate the distance, speed, and angle of the obstacles; through the calculation of the monitor, Alarm warning is provided to prevent collisions from occurring.



Usually, the working range of the tower crane is limited to the boundary of the construction site.

If the crane boom hits the obstacle, also resulting heavy losses sometime stalls the project and even fatal accidents are being happened..

The anti collision system can limit the operating range of the tower crane and provide alarming in advance to avoid the above risks.

The Main interface of the Monitor:

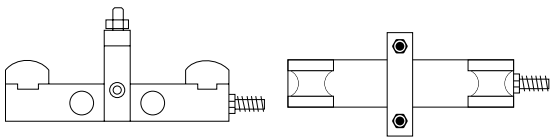


The main parameters:

1. Input 4 to 12 CAN signals;
2. 7 inch industrial grade LCD screen
3. Working environment temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$
4. Working environment humidity: 95% (25°C)
5. Working methods: continuous
6. The detection distance covers 0.75M-30M;
7. Vibration: Acceleration $\leq 5g$ (g is gravitational acceleration)
8. System comprehensive error: $\leq 5\%$ (F.S)
9. Machine power consumption: less than 30W
10. Alarm volume: greater than 60db
11. Motion error: $\leq \pm 3\%$ (F.S)
12. IP Grade: IP55
13. Working voltage: AC220V or DC24V

- ◆ Real-time monitoring: Real-time monitoring and acquisition of obstacle data on both sides of the boom. Feedback to the display interface through the host in time.
- ◆ 7-inch LCD touch screen: 7-inch industrial-grade color LCD screen, stable performance; 800 * 480 graphics dot matrix.
- ◆ Graphic display: Hanxian LCD screen, the interface displays the current actual working parameters in real time with numerical values, texts, graphics, etc., and more intuitively know the working state around the crane boom.
- ◆ Dynamic simulation: full-color graphical interface, which can dynamically simulate the working status of the current lifting equipment, the interface is more realistic and more intuitive.
- ◆ Sound and light alarm: When the actual working condition parameter reaches the preset limit value, the meter will give an audible and visual alarm prompt. When the preset limit value is reached, the safety control signal will be output at the same time to ensure the construction safety.
- ◆ Password protection: Multi-level password protection function, which can be set to modify the permissions and prevent arbitrary modification by unrelated personnel.
- ◆ Anti-interference: Adopt CAN communication data connection, hardware and software have strong anti-interference ability to external electromagnetic waves.
- ◆ Worry-free operation: During parameter setting and debugging, each corresponding setting interface has operating instructions to facilitate user's easy use.
- ◆ Good versatility: easy to install and debug, able to meet the mechanical requirements of various types of cranes, and can meet the requirements of stepless alarms in various working conditions.
- ◆ Control release: Specially set the "control release" button. In this state, the meter does not control output, which meets the user's special working conditions.
- ◆ Jitter delay: The anti-shake delay function greatly enhances the adaptability of the instrument input data.
- ◆ Power-down protection: Data will not be lost when power is suddenly turned off. Can work continuously for a long time.
- ◆ Sino-British interface: Built-in Chinese and English interface, switch through the drop-down menu in the page.
- ◆ Strong versatility: It can meet the needs of various types of crane machinery and meet the requirements of stepless alarms in various working conditions. Widely suitable for various equipments. Configuration software design, more stable and convenient to select operating system by device.

LOAD SENSOR CLAMP TYPE
MODEL : PY

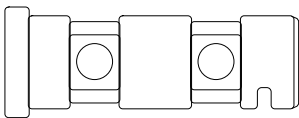


tension (t)	H	B1	B2	L	diameter of wire rope (mm)
1	95.5	40	60	180	Φ6-14
2					Φ10-18
3					Φ12-20
5	136.5	40	75	200	Φ16-26
10	174	60	110	260	Φ24-36

Notice : over 10T capacity load cell offering designed customized load sensor different type and product have different parameter

Specified load: 10, 15, 20, 25, 30, 40, 50t	Temperature Effect On Output: ±0.02%F.S/10°C	Max overload: 250%F.S
Sensitivity: 1.0±0.005mV/V	Input impedance: 750±20Ω	Driving voltage: 10~12V DC
Synthetic errors: ±0.02%F.S; ±0.03%F.S	Output impedance: 703±3Ω	Max driving voltage: 15V DC
Creepage(30 min): ±0.02%F.S	Insulation resistance: ≥5000MΩ	Sealed IP: IP68
Null balance: ±1%F.S	Working temperature range:-30~+70°C	Material: Alloy steel
Null temperature influence: ±0.02%F.S/10°C	Safe overload: 150%F.S	Cable: Φ5mm

LOAD SENSOR PIN TYPE
MODEL : ZX



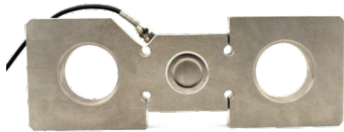
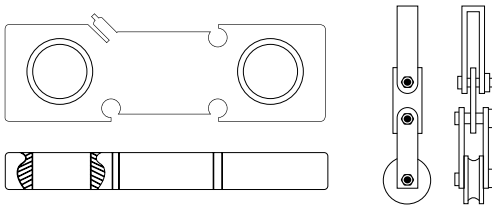
It is suitable for lock shackles, movable and fixed pulley marine riggings, connecting forks, hoisting rings replacing the original shaft function, and also capable of weighing and measuring force.

capacity(t) size(mm)	ΦD	Φd	L	L1	L2	L3	a	b	M
L1	50	40	150	128	102	50	6	5	M8
L2	70	60	210	176	130	74	8	9	M10×1
B1	70	60	210	176	130	74	8	9	M10×1
H	105	90	250	212	156	96	10	13	M10×1
Φ	105	90	250	212	156	96	10	13	M10×1

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Null balance: ±1%F.S	Working temperature range:-30~+70°C	Material: Alloy steel
Null temperature influence: ±0.02%F.S/10°C	Safe overload: 150%F.S	Cable: Φ5mm

LOAD SENSOR PLATE RING TYPE
MODEL : BH

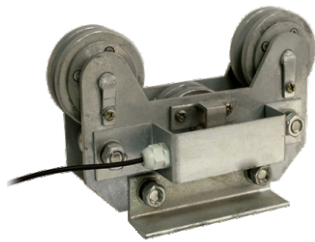
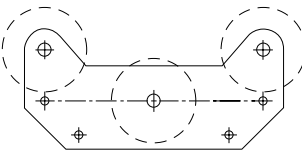


capacity(t) size(mm)	0.5T	1T	1.5T	2T	3T	4T	5T	6T	8T	10T	12T	15T	20T	25T	30T
L1	156	195	218	235	280	300	320	340	340						
L2	110	135	140	150	180	195	210	210	210						
B1	38	60	64	68	85	92	96	120	120						
H	11	13	16	20	23	28	30	30	34	34	50				
Φ	14	22	27	27	34	38	50	58	60	60	60				

Notice : over 30T capacity load cell offering designed customized load sensor different type and product have different parameter

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Synthetic errors: ±0.02%F.S; ±0.03%F.S	Output impedance: 703±3Ω	Max driving voltage: 15V DC
Creepage(30 min): ±0.02%F.S	Insulation resistance: ≥5000MΩ	Sealed IP: IP68
Null balance: ±1%F.S	Working temperature range:-30~+70°C	Material: Alloy steel
Null temperature influence: ±0.02%F.S/10°C	Safe overload: 150%F.S	Cable: Φ5mm

LOAD SENSOR PULLEY TYPE
MODEL : SHL



capacity(t) size(mm)	0.5T	1T	1.5T	2T	3T	4T	5T	6T	8T	10T	12T	15T	20T	25T	30T
L1	156	195	218	235	280	300	320	340	340						
L2	110	135	140	150	180	195	210	210	210						
B1	38	60	64	68	85	92	96	120	120						
H	11	13	16	20	23	28	30	30	34	34	50				
Φ	14	22	27	27	34	38	50	58	60	60	60				

Notice : over 10T capacity load cell offering designed customized load sensor different type and product have different parameter

Specified load:start from500KG	Temperature Effect On Output: ±0.02%F.S/10°C	Max overload: 250%F.S
Sensitivity: 1.0±0.005mV/V	Input impedance: 750±20Ω	Driving voltage: 10~12V DC
Synthetic errors: ±0.02%F.S; ±0.03%F.S	Output impedance: 703±3Ω	Max driving voltage: 15V DC
Creepage(30 min): ±0.02%F.S	Insulation resistance: ≥5000MΩ	Sealed IP: IP67
Null balance: ±1%F.S	Working temperature range:-30~+70°C	Material: stainless steel
Null temperature influence: ±0.02%F.S/10°C	Safe overload: 150%F.S	Cable: Φ 5mm

ANGLE SENSOR

MODEL :JD-180



Model: JD180-L (Left Mounted) JD180-R (Right Mounted)	Linearity:0.1、0.5、1%
Components: conductive plastic potentiometer (CPP)	Impact Resistance: 20g15~20ms
Measuring Range: -10°~+110°	Waterproof type: Ip67
Rated Output: DC3~6.9V/0 ~ 90°	Working Humidity: 10~95%
Working Voltage: DC15V	Working Temperature: -20~+60°C

EXTERNAL DISPLAY

MODEL : DPM



Display characters: 6-digit LED with a character height of 125mm;
Power supply: AC 187~242V; 49~51Hz;
Communication interface: RS232 mode/current loop mode;
Operating temperature: 0~40°C;
Operating humidity: ≤85%RH;

LENGTH/ANGLE SENSOR

MODEL : WTC/J



Model	Relay Signal	Length measurement range	Angle measurement range	Signal Output	Length nonlinearity	Angle nonlinearity
WTC/J-25L/R	3 cores (Power,com,signal)	0~25m	-10°~90°	0~10V	≤0.2%	≤0.15°
WTC/J-35L/R	3 cores (Power,com,signal)	0~35m	-10°~90°	0~10V	≤0.2%	≤0.15°
WTC/J-45L/R	3 cores (Power,com,signal)	0~45m	-10°~90°	0~10V	≤0.2%	≤0.15°

ANEMOMETERS

Anemometer is designed as the intelligent wind speed sensing devices.The system has high stability,strong anti-interference ability,high detection,wind cup is made of the special material,high mechanical strength,strong wind resistance ability,easy to install and use.All the electric interfaces are in line with the international standards,it can be used on different working conditions without installation debugging.

WIND SPEED SENSOR

MODEL : WFS



Signal Output Method	0~5V 4~20mA Rs485
Signal Output	36/circle
Working Voltage	DC 12V/DC 24V
Working Condition	-30°C~+60°C
Measurements Error	± (0.5+0.05V) V:wind speed measurements
Measuring Range	0~60 m/s
Wind Cup Height	283 mm

WIND DIRECTION SENSOR

MODEL : SC/FX



Range	16 directions (360 degree)
Measurement AccuracyInput	±5%
Voltage	24DC
Output Signal	current signal
Cables	three core wire

WIND DISPLAY : WTF-B500

MODEL : WTF-B500



WTF-B series digital wind speed and direction sensor is used to measure instantaneous wind speed and average wind speed,with automatic monitoring,real-time display,over-limit alarm and control functions.

Measurement Range	0~60 m/s
Resolution	0.1 m/s
Accuracy	±5%
History Records	50000
Voltage Range	24V±20% /220V±20%/380V±20%
Outpu	≤2 road,RS485/4-20mA
IP Grass	IP65

LIMIT SWITCH

MODEL : DXZ



No	1	2	3	4	5	6	7	8
Ratio	1:13	1:17	1:46	1:60	1:78	1:210	1:274	1:960

- 1.Model DXZ multifunction limit switch consist of big high precision transmission ratio reducer,a mechanical memory control system with its output shaft and sensor.
- 2.Model DXZ multifunction limit switch and displacement signal of control system connect with it 's output shaft via variable speed external wheel.
- 3.The memory cam and micro switch of corresponding Model DXZ multifunction limit switch adjustment axle:1Z1T1W;2Z2T2WK;3Z3T3WK;4Z4T4WK.
- 4.Connecting flange will be equipped as request.

ANTI TWO BLOCK SWITCH

MODEL : GJ-1



GJ-1 A2B limit switch is an electrical automatic protection switch for lifting wire rope anti-volume limit.it is matched with the hammer which uses the hook movement up and down to hold up,disconnect or turn-on switch to achieve the purpose of automatically cut off the hoist power supply connected braking system and to reach the limit rope over volume & the hook up and down within a certain height.

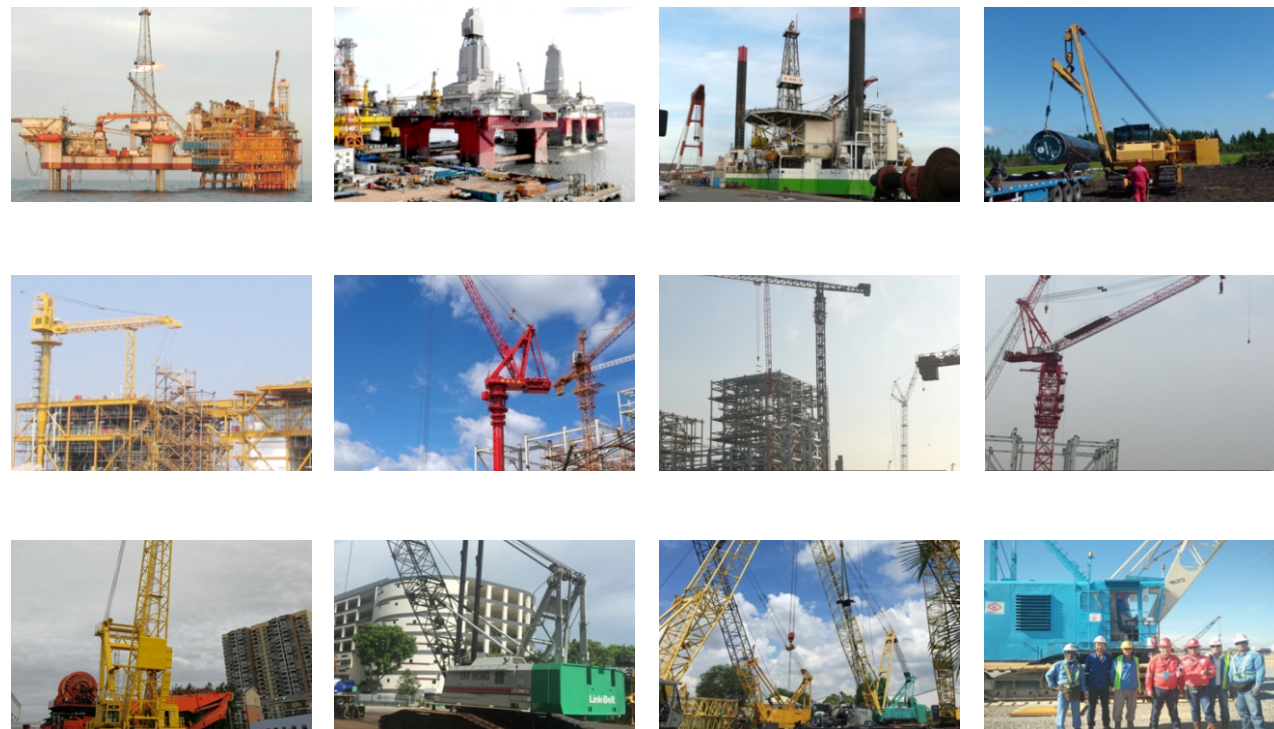
- Professional design
- Advanced performance
- Safe and reliable
- Strong water proofing
- Easy installing

Working Voltage	12v~280v
Rated Current	5A
Supporting The Extemal Hammer Weight	≥1.7 kg
The Wire Rope For Hammer	≤Φ32
Rated Working Current	10A

GJ-1 : To reach the peak normally open (hook across the boom,loop disconnect).
GJ-3 : To reach the peak normally closed (hook met crane,closed loop).

CLIENTS AND PARTNERS

Weite is being recognized by more and more industry top users and countries, and has become the preferred service provider for many top users



Vietnam SANY SCC1500



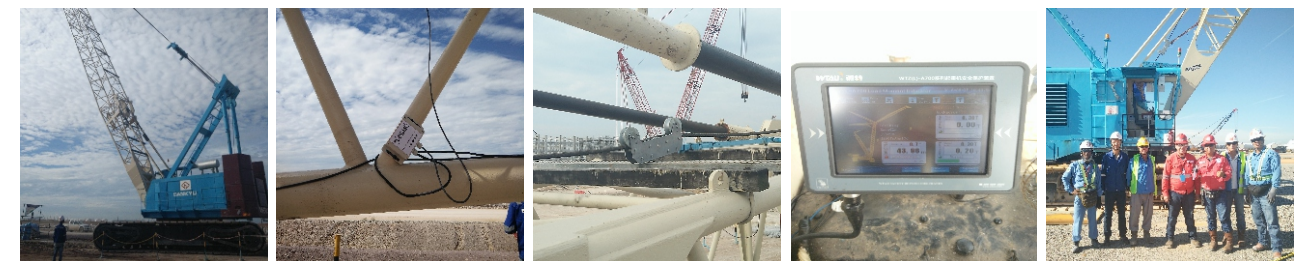
Malaysia Hitachi Model: PP-PMA7367



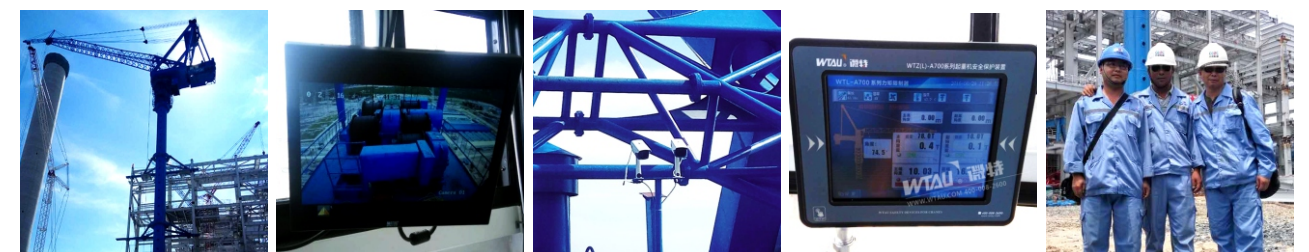
Saudi Arabia Liebherr 120 ton mobile crane



Malaysia Sankyu 450 ton crawler crane



Vietnam Tower Crane monitoring system



China SANY Industrial Zone Portal Crane



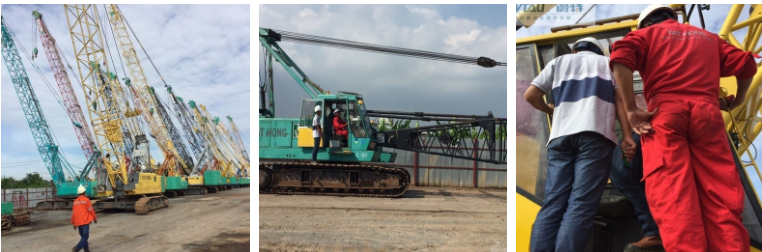
Vietnam Kobelco 300T



China Floating Crane 3600T



Thailand Sumitomo 50T



Singapore Terex Demag 650T



Indonesia Tadano 25T



Brunei Kato 45T



Philippines XCMG Crane



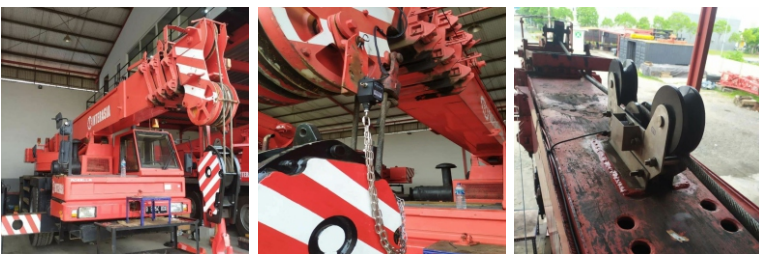
United Arab Emirates_Fushun_150T



Papua New Guinea_Terex Demag_160T



Malaysia_PPM_ATT400_40T



Sri Lanka_Kato_50T



Bangladesh_TADANO_25T



Myanmar_Tadano_35T



Nigeria_Lorain_LRT445_45T



Nicaragua_PH_14T

