

01 NEW CHINESE TYPE CRANE (GREEN,MODULARMAINTENANCE-FREE)



New Chinese Type Overhead Crane with Hook

Lifting capacity : 5t~1.000t
(can be customized)
Span: 10.5m~40m
Work duty : A3, A5, A6, A7
Lifting height: 6m ~ 24m



New Chinese Type Gantry Crane

Lifting capacity : 5t~1200t
Span: 6m~40m
Work duty : A3, A5, A6, A7
Lifting height: 6m~24m



New Chinese Type Double Trolley Overhead Crane with Hook

Lifting capacity : 12~1200t
(can be customized)
Span: 10.5~50m
Work duty : A5, A6, A7
Lifting height: 10~40m



New Chinese Type Double Girder Overhead Crane with Hoist

Lifting capacity : 5~80t
Span: 17.5m ~ 31.5m
Work duty : M4~M5
Lifting height: 6m~18m



New Chinese Type Wire Rope Electric Hoist

Lifting capacity : 0.5t~80t
Work duty : M4~M5
Work duty: M5m~45m
Lifting height: 3m~24m



02 GENERAL PURPOSE CRANE



Double Girder Overhead Crane with Hoist

Lifting capacity: 5t~32t
Span: 7.5m~31.5m
Work duty: M4~M5
Lifting height: 6m~18m



Electric Single Girder Crane

Lifting capacity: 1t~20t
Span: 7.5m~31.5m
Work duty: M4~M5
Lifting height: 3m~45m



Single Girder Crane with Grab

Lifting capacity: 1t~10t
Span: 7.5m~31.5m
Work duty: M4
Lifting height: 3m~35m



New Chinese Type Double Girder Overhead Crane with Hoist

Lifting capacity: 5t~80t
Span: 17.5m~31.5m
Work duty: M4~M5
Lifting height: 6m~18m



Double Girder Overhead Crane with Hook

Lifting capacity: 5~500t (can be customized according to customer demand)
Span: 10.5m~40m
Work duty: A3, A5, A6, A7, A8
Lifting height: 6m~24m



Double Girder Overhead Crane with Grab

Lifting capacity: 5t~32t
Span: 10.5m~40m
Work duty: A5, A6, A7, A8
Lifting height: 6m~34m



Double Girder Overhead Crane with Electromagnet

Lifting capacity: 5t - 32t
Span: 10.5m~40m
Work duty: A6, A7, A8
Lifting height: 6m~34m



Double Trolley Overhead Crane with Hook

Lifting capacity: 5t - 1000t (can be customized according to user requirements)
Span: 10.5m~50m
Work duty: A5, A6, A7
Lifting height: 10m~40m



A Type Double Girder Gantry Crane

Lifting capacity: 5t~800t
Span: 6m~50m
Work duty: A5, A6, A7



L Type Single Girder Gantry Crane

Lifting capacity: 5t~50t
Span: 6m~24m
Work duty: A5



Lattice Type Gantry Crane

Lifting capacity: 5t~200t
Span: 6m~50m
Work duty: A3, A4, A5



Semi-gantry Crane

Lifting capacity: 5t~320t
Span: 6m~24m
Work duty: A5, A6, A7



Hoist Gantry Crane with Hoist

Lifting capacity: 3t~32t
Span: 7.5m~31.5m
Work duty: M4~M5
Lifting height: 3m~12m



Double Girder Casting Crane

Lifting capacity: 5t-320t
Span: 10.5m~40m
Work duty: A7, A8
Lifting height: 12m~26m



Four Girder Casting Crane

Lifting capacity: 80t-500t
Span: 10.5m~40m
Work duty: A7, A8
Lifting height: 18m~36m



Forging Crane

Lifting capacity: 100t- 300t
Span: 10.5m~40m
Work duty: A7, A8
Lifting height: 18m~36m



Quenching Crane

Lifting capacity: 20t- 320t
Span: 10.5m~40m
Work duty: A6, A7, A8
Lifting height: 10m~24m



Crane with Suspended Beam Vertical to Main Girder

Lifting capacity: 10t~ 100t
Span: 10.5m- 40m
Work duty: A6, A7, A8
Lifting height: 10m~24m



Crane with Suspended Beam Parallel to Main Girder

Lifting capacity: 10t-100t
Span: 10.5m-40m
Work duty: A6, A7, A8
Lifting height: 10m~24m



Upper Rotary Crane with Suspended Beam

Lifting capacity: 10t~100t
Span: 10.5m-40m
Work duty: A6, A7, A8
Lifting height: 10m~24m



Lower Rotary Crane with Suspended Beam

Lifting capacity: 10t- 100t
Span: 10.5m~40m
Work duty: A6, A7, A8
Lifting height: 10m~24m



Crane with Clamp

Lifting capacity: 20t~100t
Span: 10.5m~40m
Work duty: A6, A7, A8
Lifting height: 12m~30m



Metallurgical Gantry crane

Lifting capacity: 32t~320t
Span: 6m~24m
Work duty: A6, A7



Electrolytic aluminum Multifunctional Crane

Lifting capacity: 20t~40t
Function: Functions: breaking shell, feeding, replacing anode, dredging slag, aluminum out, lifting anode bus, electrolytic aluminum overhaul and so on



Electrolytic Copper Multifunctional Crane

Lifting capacity: 32t
Span: 25.5m~31.5m

04 **PORT AND CONTAINER HANDLING CRANE**



Rail Mounted Container Gantry Crane

Lifting capacity: 35t, 41t, 70t
Span: 30m, 35m, 40m
Work duty: A6, A7, A8



Rubber Tyred Container Gantry Crane

Lifting capacity: 35t, 41t, 70t
Span: 23.47m, 26m
Work duty: A6, A7, A8



Portal Crane

Lifting capacity: 5t~500t
Span: 8m~60m
Work duty: A6, A7, A8



Quayside Container Crane

Front outreach: $\leq 75m$
Rear outreach: $\leq 30m$
Height: Above the rail $\leq 55m$, below the rail $\leq 25m$
Work duty: A6, A7, A8



Ship Unloader with Grab

Unloading capacity: $\leq 2500t/h$
Front outreach: $\leq 65m$
Rear extension: $\leq 30m$
Work duty: A6, A7, A8

Container Straddle Carrier

Lifting capacity: 40t
Lifting height: 11.8m

Stacker and Reclaimer

Stacking capacity: 15000t/h
Feed-taking capacity: 10000t/h
Cantilever length: $\leq 50m$

Belt Conveyor

Belt width: $\leq 2.2m$
Belt speed: ≤ 6
Conveying capacity: 13000t/h

05 POWER INDUSTRY CRANE



Crane in Main Building of Power Plant

Lifting capacity: 75t~650t
Span: 16.5m~56m
Work duty: A3, A4, A5
Lifting height: 20m~34m



Pumped Storage Main Building Crane

Lifting capacity: 200t~400t
Span: 22m~27m
Work duty: A3, A5



Nuclear Turbine House Crane

Lifting capacity: 75t~550t
Span: 10.5m~70m
Work duty: A3, A4, A5



Nuclear Waste CNC Crane

Lifting capacity: 5t
Span: 10.5m~31.5m
Work duty: A3, A4, A5



Rail Crossing Crane

Lifting capacity: 5+5t~20+20t
Span: 3m~5m
Work duty: M3
Lifting height: 3m~12m

06 CRANE IN GREEN AND ENVIRONMENTAL PROTECTION INDUSTRY



Garbage Incineration Crane

Lifting capacity: 5~25t
Span: 22~36.5m
Work duty: A8



Ash Handling Crane

Lifting capacity: 5t, 8t, 10t, 12t
Span: 3.5m~10.5m
Work duty: A7, A8



Turbine House New Chinese Crane

Lifting capacity: 16t~50t
Span: 13.5m~25.5m
Work duty: A3, A5



SPECIAL CRANE FOR BREWING

Lifting capacity: 3, 5, 10t
Span: 13.5~22.5m
Work duty: A5, A6, A7



SPECIAL CRANE FOR BREWING



SPECIAL CRANE FOR BREWING



SPECIAL CRANE FOR BREWING



SPECIAL CRANE FOR BREWING

08 INTELLIGENT CRANE



Automatic Bulk Material Handling Crane

Lifting capacity: 5t~32t
Span: 10.5m~40m
Work duty: A5, A6, A7, A8
Lifting height: 6m~34m



Automatic Steel Coil Handling Crane

Lifting capacity: 32~50t
Span: 22.5~41.5m
Work duty: A7, A8



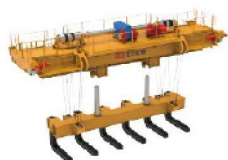
Automatic plate Handling Crane

customized product



Cast Pipe Maintenance Crane

Lifting capacity: 16~25t
Span: 10.5m~16.5m
Work duty: A7, A8



Heat Treatment Automatic Handling Crane

customized product



Automatic Stacking Crane

customized product



Machining Automatic Handling Crane

customized product



Upper Rotating Spreader Crane

Lifting capacity: 10t~100t
Span: 10.5m~40m
Work duty: A6, A7, A8
Lifting height: 10m~24m



Lower Rotating Spreader Crane

Lifting capacity: 10t~100t
Span: 10.5m~40m
Work duty: A6, A7, A8
Lifting height: 10m~24m



PT. PRIMA KATROL INDO

Surabaya : Jl. Margomulyo Indah No. 25 Surabaya, Jawa timur, Telp : 031 749 2635
 Sidoarjo : Jl. Pondok Jati Blok F No 16 Desa Jati, Kab. Sidoarjo, Jawa timur.
 Jakarta : Ruko CBD. Kav. B-9, Jl. Niaga Raya Blok Aa3, Pasirsari, Cikarang Selatan,



09 DIVERSIFIED CUSTOMIZED PRODUCTS



Yacht Handling Crane

Lifting capacity: 32t~800t
 Span: 7.5m~20m
 Work duty: M3
 Lifting height: 3m~15m



Wall Travelling Jib Crane

Lifting capacity: 0.5t~10t
 Lifting height: 3m~12m
 Work duty: M4~M5
 Effective cantilever: 2m~12m



Shipbuilding Overhead Crane

Lifting capacity: 120t~1200t
 Span: 31.5m~70m
 Work duty: A5, A6



Shipbuilding Gantry Crane

Lifting capacity: 600t~3200t
 Span: 40m~180m
 Work duty: A5, A6



Hydraulic tipping trolley

customized product



Pouring Steel Trolley

customized product



Metallurgical Charging Crane

customized product



Carbon Electrode Handling Crane

customized product

10 CRANES FOR WATER CONSERVANCY, ROAD AND BRIDGE ENGINEERING



Girder Lifting Crane

Lifting capacity: 80t~200t
 Span: 6m~50m



Shield Tunneling Gantry Crane

Lifting capacity: 30.5t~65t
 Span: 23.47m, 26m
 Work duty: A6, A7, A8



Gate Hoist

Lifting capacity: 5t~500t
 Span: 8m~60m
 Work duty: A6, A7, A8

11 EXPLOSION-PROOF AND INSULATED CRANE



Explosion-proof Overhead Crane

Lifting capacity: 5t~320t
 Span: 10.5m~37.5m
 Work duty: A3, A4, A5
 Lifting height: 10m~24m



Double Girder Crane with Explosion-proof Hoist

Lifting capacity: 1t~32t
 Span: 7.5m~31.5m
 Work duty: A3, A4, A5
 Lifting height: 6m~18m



Electric Explosion-proof Single Girder Crane

Lifting capacity: 0.5t~32t
 Span: 7.5m~31.5m
 Work duty: A3, A4, A5
 Lifting height: 3m~45m



Electric Explosion-proof Suspended Single Girder Crane

Lifting capacity: 1t~10t
 Span: 7.5m~31.5m
 Work duty: A3, A4, A5
 Lifting height: 3m~45m



Insulated Overhead Crane

Lifting capacity: 5t~320t
 Span: 10.5m~40m
 Work duty: A6, A7, A8
 Lifting height: 10m~24m



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12 LIGHT DUTY LIFTING EQUIPMENT



General Purpose Wire Rope Electric Hoist

Lifting capacity: 0.5t~32t
Span: 3m~45m
Work duty: M4-M5



New Chinese Type Wire Rope Electric Hoist

Lifting capacity: 0.5t~80t
Span: 3m~45m
Work duty: M4-M5



Low Clearance Wire Rope Electric Hoist

Lifting capacity: 0.5t~10t
Span: 3m~30m
Work duty: M4



Metallurgical Wire Rope Electric Hoist

Lifting capacity: 2t~10t
Span: 3m~27m
Work duty: M6



Explosion-Proof Wire Rope Electric Hoist

Lifting capacity: 0.5t~32t
Span: 3m~45m
Work duty: M3-M5



Chain Hoist (Travelling Type)

Lifting capacity: 0.5t~2t
Span: 3m~12m
Work duty: M5



Chain Hoist (Fixed type)

Lifting capacity: 0.5t~2t
Span: 3m~12m
Work duty: M5



Clean Hoist

Lifting capacity: 3t~10t
Span: 3m~24m
Work duty: M5



Flexible Crane System

Lifting capacity: 0.5t~2t
Span: 3m~12m
Work duty: M5



Cantilever Crane

Lifting capacity: 0.5t~10t
Span: 3m~12m
Work duty: M4~M5
Effective cantilever: 2m~12m

13 INTELLIGENT SPREADER AND COMPONENTS



Intelligent spreader - Electrohydraulic Six-Row Grab



Intelligent Spreader - Aluminum Ingot



Intelligent Spreader - Steel Plate Sucker



Intelligent Spreader - Down Rotary Telescopic Hanging Beam



Intelligent Spreader - Material Box Turnover



Intelligent Spreader - Peliner Grab with Double Jaw



Intelligent Spreader - Electrohydraulic Grab with Double Jaw



Intelligent Spreader - Hanging Beam for Gantry Hook



Container Spreader



Spreader Changing from Container Shipping to Bulk Shipping



Coupling Parts (Connecting Shaft, Reel, Drum, Elastic Plum)

Other Components (Wheel Group, Reel Group, Hook Group, Pulley Group)



The World's First Electric Control Anti-sway System



The World's highest Lifting Height Crane Olympic Supporting Project With 400m Lifting Height Portal



26000t Gantry Crane Plan



The Largest Span Indoor Crane In the world, 70m Span Overhead Crane for Nuclear Power Station

Weihua Makes the World Easier



Vendor for Four Rocket Launch Base



The World's First Fully Automatic Crane for Graphite Carbon Knitting and Assembly Production Line



The Largest Tonnage 500t Metallurgical Casting Crane in China



The Largest 2000t Gantry Crane for Wind Power in China



250t Casting Crane-The Largest Tonnage Crane Exported to Developed Countries



China's First Industrial Crane Enterprise Applying 5G Technology Based on Pioneered "Changyuan Crane Index" Industrial Internet



SOFTWARE

WEIHUA Crane Manager

Digital management platform for cranes, providing digital services for the full life cycle

8 Basic Functions

Device status overview	Remote real-time observation and crane operation report	Abnormal early warning and fault prevention
Alarm reminder and maintenance reminder	Fault consultation and maintenance guidance	Backup and optimization of operating parameters
Data traceability and archive management	Online spare parts selection and services	

Advanced Optional Functions

Brake safety monitoring and prediction	Motor/reducer safety monitoring and prediction	Area safety projection lamp
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AI Crane

Logistics equipment based on AI and unmanned driving technology



AI Crane (Artificially Intelligent Crane) unmanned crane system currently has a series of system functions such as equipment control, intelligent decision-making, digital generation, 5G communication, report statistics, log recording, open interface, warehouse management, security management, etc. It has developed various application scenarios represented by steel manufacturing, bulk material warehousing, port logistics, and metal smelting, to meet the needs of various industries for intelligent material handling.

Digital Twin

Complete mapping in virtual space to reflect the entire lifecycle process of the corresponding physical equipment



This system can be perfectly integrated with the AI Crane unmanned crane system of Future Cloud (a subsidiary of Weihua), sharing workshop and equipment data, and displaying process information such as logistics, warehousing, and tasks through flexible configuration. It can be widely used in multiple application scenarios such as process optimization, digital large screens, equipment monitoring, and workshop management, fully meeting customers' comprehensive management needs.



FUNCTION

Scenario Application Function

Function Name	Function Description
Anti-sway	Reduce the swing amplitude in the movement direction through the speed control of the crane and trolley
Inching	Crane moves for a short distance after pressing
Microspeed	Crane creeps at low speed
Crane deviation correction	Control and adjust the traveling mechanisms on both sides of the crane to prevent deviation
Tandem operation for cranes	Tandem operation of two or more cranes
Simultaneous operation for mechanisms	Simultaneous operation of two or more mechanisms and trolleys
Lifting synchronization	Ensure synchronization of lifting mechanism when lifting with multiple lifting points
Over Frequency during Empty Load	Motor operates at an excessive frequency to improve the travelling speed during empty load
Terminal communication setting	Switch the terminal communication control mode of the frequency converter
PLC redundancy	Quickly switch to a redundant PLC for invoking operations when a set of PLC fails

Intelligent Application Function

Function Name	Function Description
Automatic positioning	Accurate and automatic operation to a prepared position through positioning
Automatic operation	Execute the control command, and the crane automatically completes the preset process
Automatic parking	Automatically returns the crane to parking point with one button control
Path planning	Automatic planning of crane travelling path
Position calibration	Calibrate the positioning device to correct deviation
2D/3D laser scanning	2D/3D scanning of materials, storage yards, etc. to identify their location and characteristics
Follow-up (hook push)	Push the crane hook, and the crane and trolley follows the action
Vertical Lifting	Monitor the skew state of the wire rope to prevent the skew pull
Fixed point feeding (unloading)	Crane automatically completes the feeding/unloading action
Grab vibrating function (grab)	Shake the grab after unloading, and shake off the attachments on the grab
Slow discharge	Control the slow discharge of the grab to avoid clogging of the material opening
Grabbing while lifting (grab)	Slow lifting when the grab is closed to prevent the grab from tipping over and winding steel rope
Automatic weighing	Use an electronic scale to weigh, record, and print the lifted object

Safety Protection Function

Function Name	Function Description
Area protection	Crane shall avoid designated areas for safe operation
Overload protection	Prevent crane from overloading
Over speed protection	Detect the running speed of the lifting motor and drum, and stop the operation in case of overspeed
Upper and lower layer anti-collision	Provide anti-collision protection for cranes that cross operate on the upper and lower layer
Steel rope slacking protection	Detect the action of the rope pressing and provide steel rope slacking protection
Broken shaft detection	Determine whether the shaft is broken through high and low speed shaft monitoring
Frequency converter status monitoring	Monitor the voltage, current, frequency, rotation speed and other status parameters of the frequency converter
Bottoming protection	Judge whether it touches the bottom when descending, and stop descending after touching the bottom to prevent rope disorder
Clamping protection	Check whether the clamping is tightened
Loading protection	Detect whether the clamp is loaded and prevent it from loosening when loaded
Tilt protection	Prevent lifting tool such as grab from tipping over

Monitoring Display Function

Function Name	Function Description
Fault self-diagnosis	Judge the fault information of each mechanism and communication status
Remote Services	Crane with PLC and big data box, providing emergency remote service
Video monitoring	Monitor crane operation and store images
Safety monitoring	Monitor the overall operating status of the crane and store records
Insulation monitoring	Detect the insulation of the entire crane to prevent electric leakage
Energy consumption statistics	Monitor and statistics the current, voltage, and energy consumption of the entire machine



HARDWARE

Integrated Controller



Crane core control algorithm calculation and sensor signal monitoring

Brake Safety Monitoring Kit

Brake shoe wear detection, real-time monitoring of brake shoe wear status



Motor and Reducer Safety Monitoring Kit

Motor/reducer vibration monitoring and analysis, real-time monitoring of crane operation status



Regional Safety Projector

Projection of safety warning signs to remind lifting areas

