



About Hualu Equipment

HUALU Equipment is established in 1968, which is a national high-tech enterprise and a national specialized, refined, and new enterprise. It undertakes national "high-grade CNC machine tools and basic manufacturing equipment" science and technology major special projects. The company is the director unit of the China Machine Tool Industry Association and has been honored as one of the "Top 30 Enterprises in China's Machine Tool Industry" many times.

With a registered capital of 200 million yuan, the company specializes in intelligent, large-scale, and customized equipment featuring fully independent intellectual property rights and internationally advanced technologies. Its main products include CNC plate rolling machines, plate leveling machines, decoiling machine lines, plate beveling machines, and shearing/press brake equipment. Many of these innovations represent domestic breakthroughs that substitute imported equivalents.



The company operates a 60,000 m² high-standard integrated workshop with a 300-ton lifting capacity and over 100 heavy-duty/precision machining units. Equipped with advanced testing centers and physical/chemical analysis facilities, it ensures product precision and quality through comprehensive manufacturing processes and rigorous inspection methods.





CNC milling machine



3D welding robot

The products are widely applied in shipbuilding, military equipment, offshore engineering, wind/nuclear power, aerospace, bridge steel structures, automotive/rail transport, non-ferrous metals, pressure vessels, coal machinery, and steel smelting.



CE certificate



China quality mark



Patent quality certificate



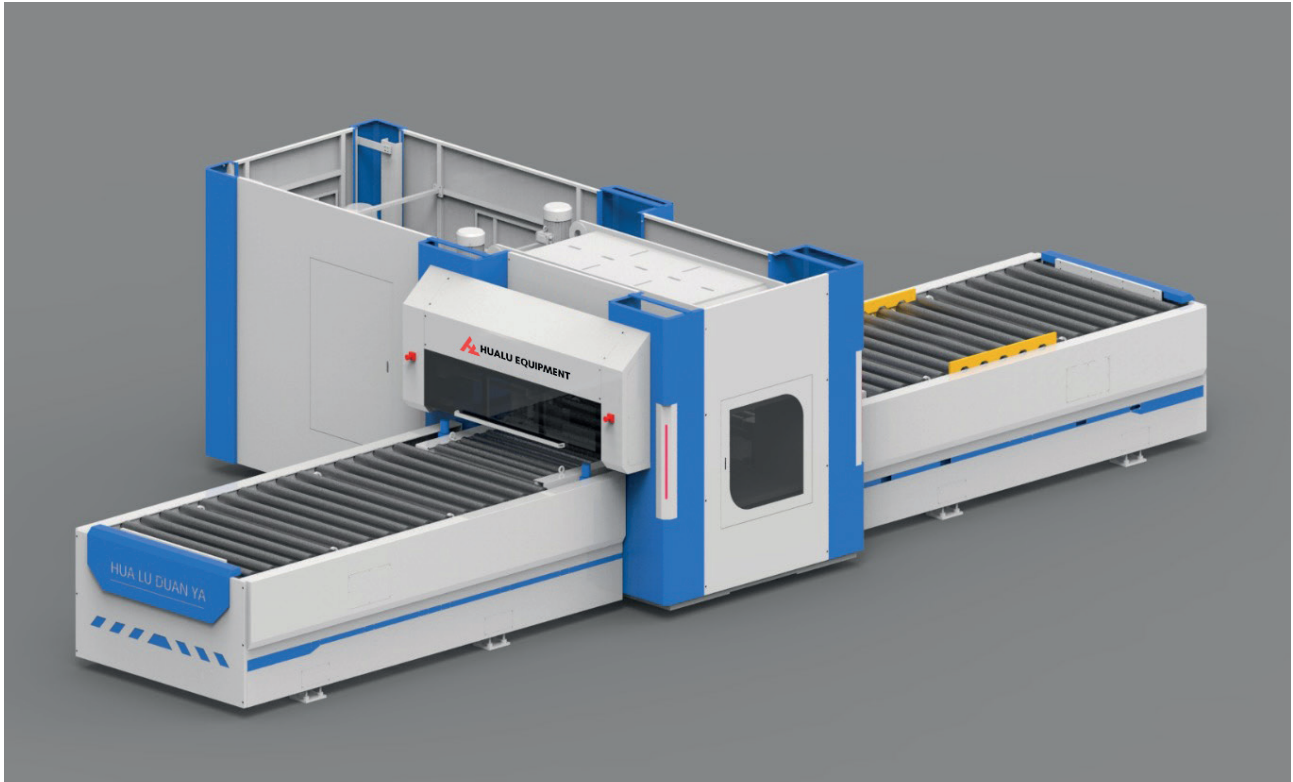
Quality certificate

Hualu quality

By the end of 2024, the company holds 130 national patents (including 42 invention patents), 23 software copyrights, and has drafted 24 national/industry/group standards. It maintains certifications including ISO 9001, ISO 14001, ISO 45001, ISO 50001, intellectual property management, social responsibility, and CE compliance.

Plate leveling machine **WB43M**

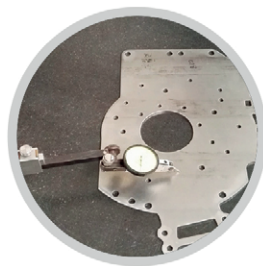
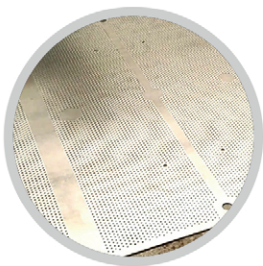
Precision Leveling machine



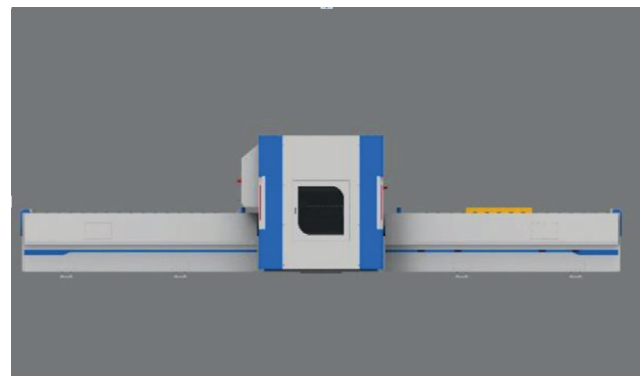
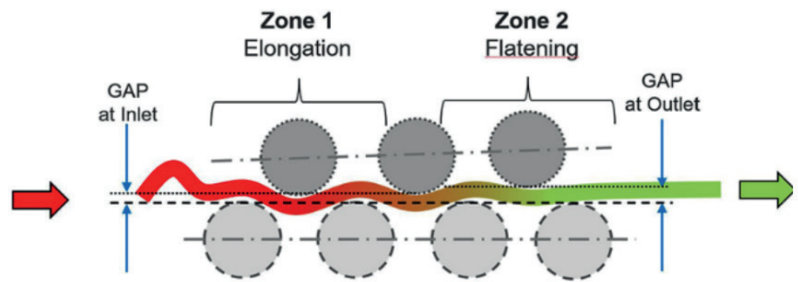
This type of levelling machine is designed for the precision levelling of stamped parts plates, suitable for the precision levelling of cabinet plates, mesh plates, wheel discs, gear rims, chains, sprockets and automotive parts, with the precision of levelling of parts less than $0.3\text{mm}/\text{m}^2$.

Application:

The machine is particularly useful in industries with high requirements, such as: Military/Defense industry, Railway industry, Shipbuilding industry, Metallurgy.



Its construction is based on independent beams with single rollers, which can be adjusted vertically. Each upper roller has its own shifting system, allowing for precise adjustment on the control screen. This innovative, patented solution ensures better pressure from the upper rollers and uniform pressure distribution.



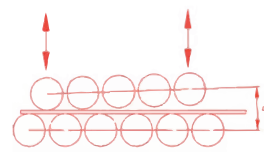
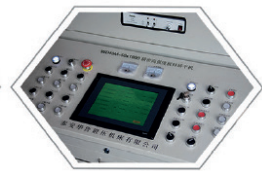
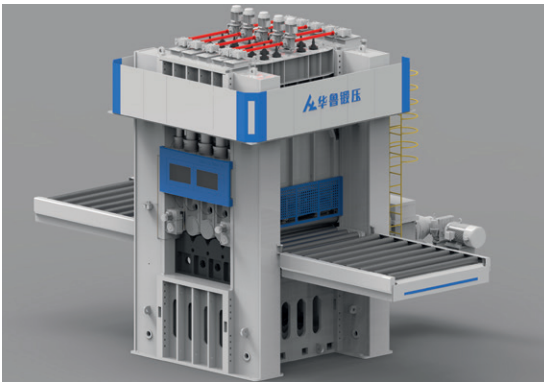
Model	WB43M-19 60×1000	WB43M-19 90×1000	WB43M-19 100×1000
Width	0-1000mm	0-1000mm	0-1000mm
Roll diameter	60mm	90mm	100mm
Rated thickness	2-6mm	3-10mm	4-12mm
Number of rolls	19	19	19
Leveling speed	Appro 7m/Min	Appro 7m/Min	Appro 7m/Min
Optional	Down roller clean device Loading and unloading robot Inlet and outflow assembly line Four and six-fold rollers and number of rollers		

*Leveling performance is calculated based on material Q235/equipment yield strength 235 MPa. Let everything go back to a right way

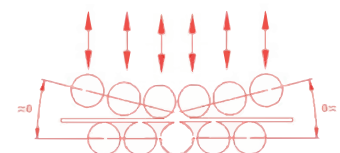
Straightener **WD43M**

For high-strength sheets above RE 500 MPa

WD43M high-strength plate leveling machine is targeted designed and improved new product introducing the advanced technology from Germany, based on working conditions of high-strength plate, composite plate, explosion plate and stacked welding plate. The model consists of a number of single monolithic beams with an independent set of transmission devices. Each upper roller is installed in an independent single monolithic beams. They can be adjusted up and down independently and simultaneously. The position of each roller is detected by an independent displacement measuring device, which can be easily observed and set on the operation screen. The plate leveling machine has the performance of high leveling precision, easy feeding and high production efficiency, which is especially suitable for plates with serious warping, and the flatness of the plates is more stable and not easy to rebound after leveling.



Standard roller pressing method



Hualu patented roller pressing method

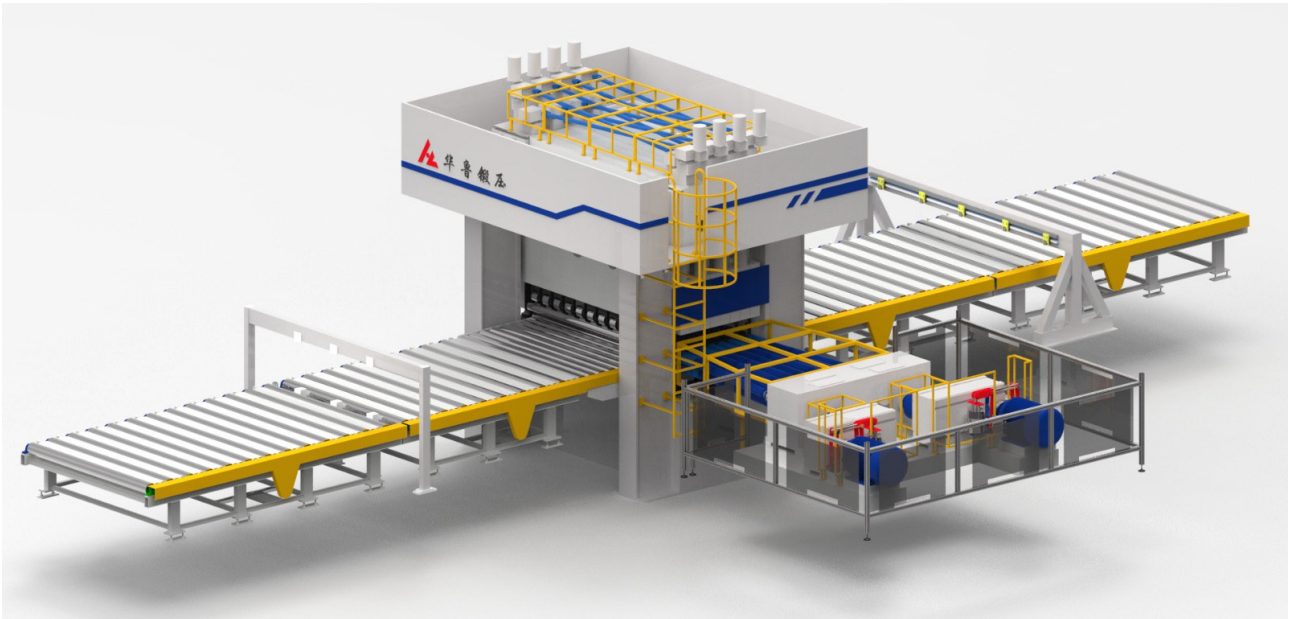
Technical Advantages:

- **High Precision and Efficiency:** Improved pressure from the upper rollers, including the central one, ensures more accurate straightening, minimizes deformation, and increases the stability of the flat surface after processing.
- **Low Energy Consumption:** Thanks to different configurations of correcting rollers that can be adapted to the material thickness, the machine saves energy and has an extended service life.
- **High degree automation:** The CNC system to achieve the international advanced level, input plate thickness, plate width, strength and other parameters, CNC system automatically calculate the amount of reduction (or direct call levelling expert database data), to complete the adjustment of the adjustment process parameters, convenient and fast to level the workpiece to levelling, greatly improving the production efficiency.

Straightener **WE43M(Y)**

6-fold straightening machine straightening technology

6-fold precision leveling machine is designed for aluminium and aluminium alloy plates, copper and copper alloy plates, molybdenum plates, titanium plates, zinc, tantalum, niobium and other light alloy and rare metal plates, adopting a variety of anti-dust adherence and anti-scratch technologies on the surface of the plates.

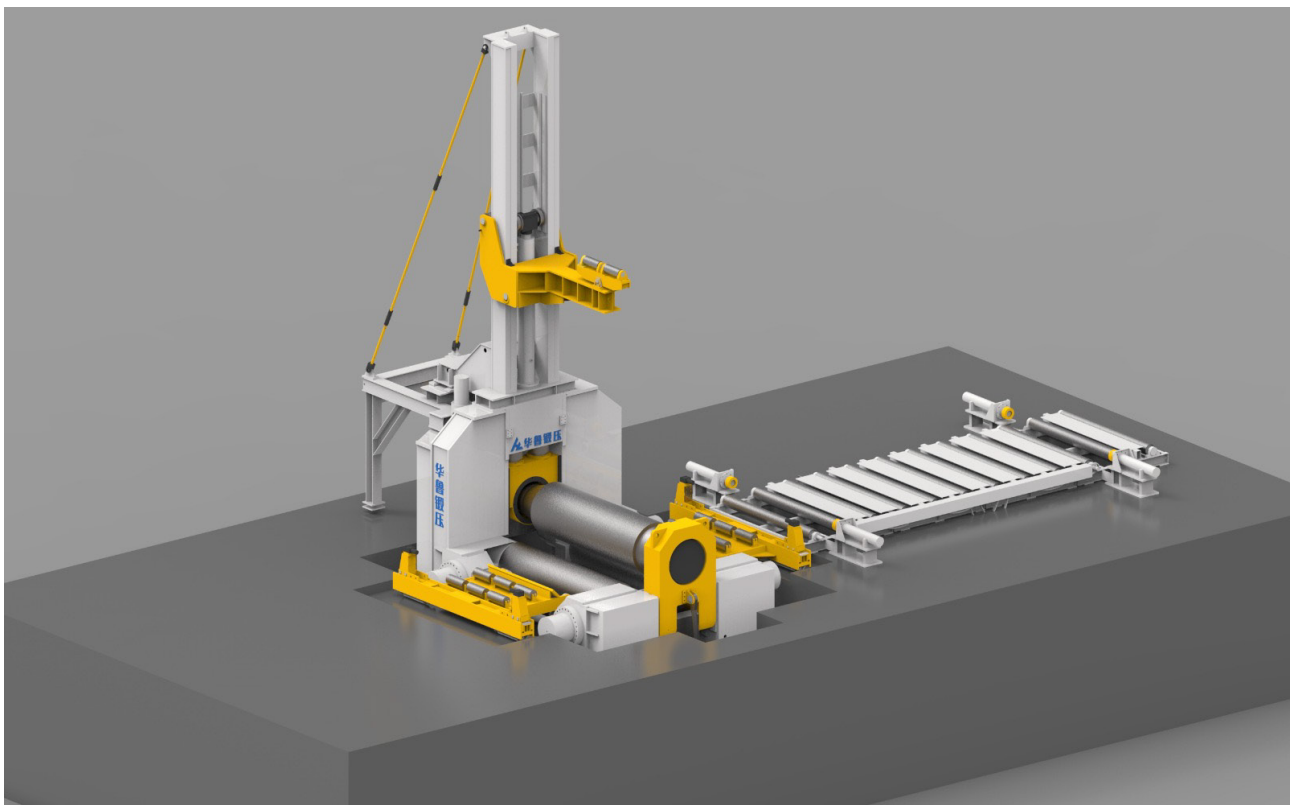
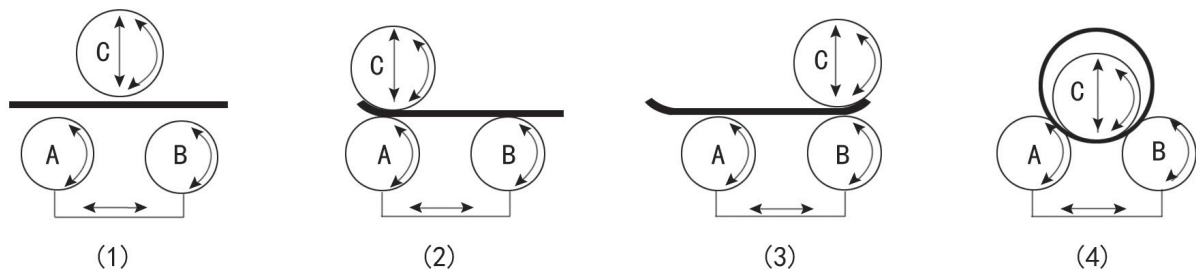


- Six-roller system structure, with an intermediate roller between the working roller and the supporting roller, can effectively isolate the marks produced by the four-fold supporting roller on the plate surface, and improve the surface quality of the plate.
- Advanced group drive control technology, the working roller adapts to the running speed of the sheet, avoiding scratches on the sheet surface and effectively protecting the quality of the sheet surface.
- Multi-roller system roller bank, the roller system unit can be changed according to the processing needs, to meet the precision processing of multiple materials or multiple thicknesses of the plate.
- Quick roll change system configuration, quick roll change device can quickly move the upper and lower roll box (roll system) out, convenient roll system replacement, high efficiency of roll change time.
- Pneumatic blowing device, on the leveling before the plate surface cleaning, to prevent dust or foreign matter or pressure into, damage to the plate surface.
- Adopt vacuum suction cup and so on for loading and unloading, avoiding plate scratching.

Straightener **WS11KY**

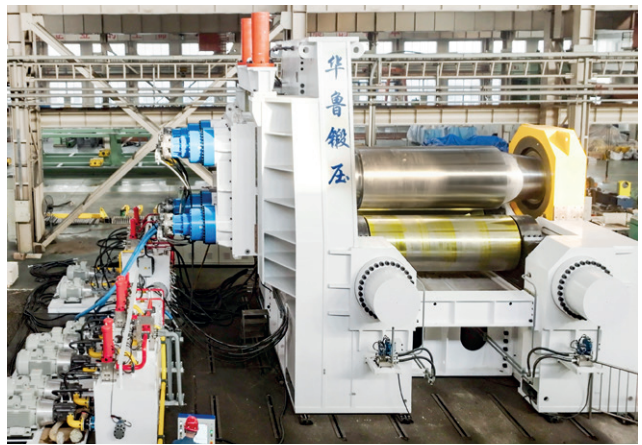
3-roll Plate Rolling Machine with bottom roll adjustment.

WS11KY CNC hydraulic horizontal downward adjustable three-roll plate rolling machine is a new type of product which is improved and researched and developed after introducing, digesting and absorbing the advanced design technology from Germany. The product with novel structure, superior performance and the technical level reaching the international advanced level. This series of plate rolling machine has obtained many national patents and has completely independent intellectual property rights. It can roll plates of thickness 6mm-350mm and width 1000mm-6000mm.





WS11KY-180x3500 CNC three-roll plate rolling machine



WS11KY-260x3200 CNC three-roller plate rolling machine



WS11KY-200x4200 CNC three-roller plate rolling machine



WS11KY-260x3500 Wind Power CNC Three-roller Plate Rolling Machine

Straightener **WB12K**

CNC Hydraulic 4-roll Plate Rolling Machine

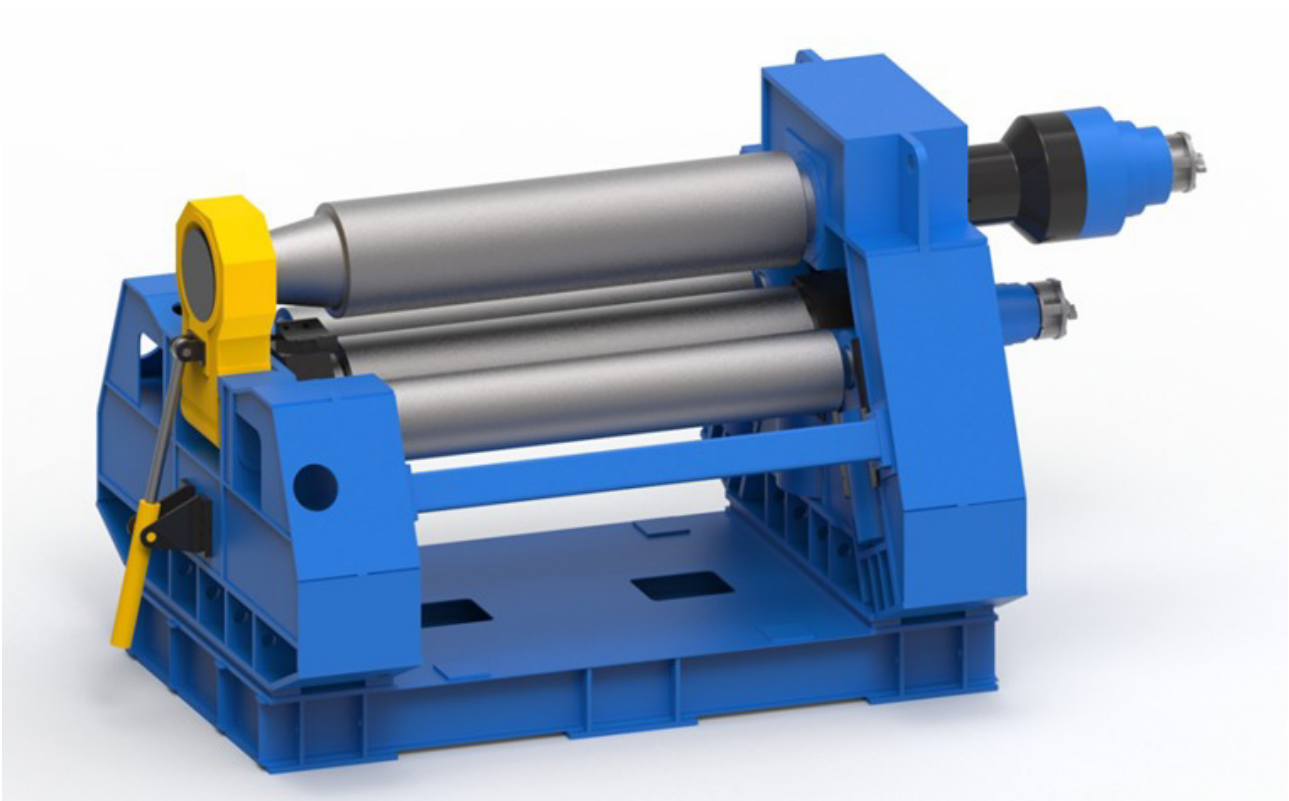
WB12K CNC Hydraulic 4-roll plate rolling Machine, it can meet plate do not need to turn around to complete the plate end pre-bending and rolling, and the remaining straight edge is minimum. The series machine can roll the plates thickness range from 6mm to 260mm and width 1000mm-9500mm.



The machines has the following characteristics:

- Remaining straight edge is small.
- High rolling efficiency and accuracy and high checking circle precision.
- Due to the increase of the bottom roll, one-time plate feeding through program control can be realized the automatic pre-bending, roll forming, operating skills of the operator's requirements is not high.
- Due to the increase of the bottom roll, and both ends of the roll can be separately lifted and dropped, so in the stagger side and defect size can be easily corrected, and high efficiency.

- Work roller bearings are self-aligning roller bearings, small frictional resistance, short power loss, long service life, low energy consumption.
- Synchronous lifting and dropping of the bottom roll and the lateral rolls, the control and adjustment of the title amount for cone rolling, and the workpiece are automatically controlled by the numerical control system, and the control precision is high.
- The CNC system for the company's independent research and development, with screen display, volume calculation, program control, process parameter storage, software protection and fault alarm, man-machine dialogue and other functions.
- Frame patent 4-roll machine (ZL201220488868.7), new frame has the advantages of reasonable structure, does not need to remove the top roll and meanwhile easily remove and replace both sides rolls, conveniently assembly lateral rolls parts



CNC Shipbuilding plate rolling machine: **WE11K**

WE11K series CNC Shipbuilding plate Rolling Machine, which is developed under the guidance of German expert, a variety of specifications for the domestic initiative, technology reached the international advanced level. With independent intellectual property rights of national patent technology. It has 22 patents, and 6 of them are invention patent.



The machines has the following characteristics:

- National best type which is embodied the European advanced technology.
- The patent technology, the two bottom rolls respectively driven by an independent power system, there is no mechanical interference, and roller bearings for self-aligning roller bearings, and it is small friction resistance, low energy consumption, main motor power needed is small, energy conservation and environmental protection.
- It adopts the patent technology, and on the top roll is equipped with multiple sets of maneuvering to adjust the height of the backup roll, and it can compensate beam and lathe bed in plate bending deflection deformation during the rolling process.
- The synchronous movement for two ends of the top roll is controlled by nc system with the advantages of high precision, and NC system is designed by ourself and received the Software copyright: Large size shipyard rolling Machine CNC system V6.0 (2013SR030998). The machine have the functions for screen display, calculation, process control, process parameter storage, software protection and fault alarm, multiple functions such as man-machine dialogue.
- We reserved the corresponding mold for metal plate pre-bending and rolling, so it can meet various requirements of production for users.

Decoiling,leveling,cutting 3 in 1 machine

Medium thickness plate and High strength plate cross cutting line

The series High strength cut to length line is mainly composed of the loading car, uncoiler, feeder, levelling machine, cutting plate machine, transportation and palletizing and other components. At the same time it can be configured according to user requirements of rough levelling, final levelling, trimming, slitting, moving shearing, film with high production efficiency, protection board surface, the advantages of high degree of automation.



The main technical parameters

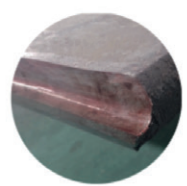
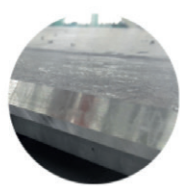
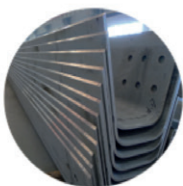
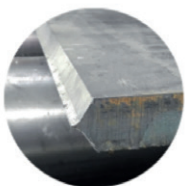
Plate thickness	3~25mm
Plate width	500~2200mm
Coil weight	35t
Running speed	20~60m/min
Length Accuracy	±1.0mm/2m
Shearing Mode	Stopping, moving scissors



Plate Beveling Machine

Taian Hualu is a professional manufacturer of CNC plate beveling machines with full intellectual property and independently innovative products. We drafted the industry standard JB/T 12525-2015 (CNC Multilateral Plate Beveling Machine).

CNC multilateral plate beveling machine is a processing line that can process the plate edge up and down side bevel in one time feeding. Beveling types include I, V, K, U, and transition bevels. Processing thickness ranges from 4mm to 300mm.



HUALU EQUIPMENT

Strategic partners:



ZOOMLION



CONTACT INFORMATION

HUALU EQUIPMENT TECHNOLOGY GROUP CO.,LTD.

Address: **No.381 LongtanRoad,TaianCity,Shandong,China.**

Telephone: **+86-19853162275**

Fax: **+86-538-6629010**

English Website: **www.hualu-equipment.com**

E-mail: **info@hualu-equipment.com**