

SHEET METAL PROCESSING SOLUTIONS

HIGH PRECISION | HIGH EFFICIENCY | RELIABLE QUALITY



WESEND MACHINE TOOLS

Setting New Standards, Surpassing the Competition



WhatsApp: +86 188 6272 7682



Email: lin@wesendmachinery.com



Address: Libu, Nantong, Jiangsu Province, China

About us



Wesend is an established professional manufacturer of forging & sheet- metal machinery, located in Libao Industrial Park, Hai'an City, Nantong, Jiangsu Province.

Leveraging the advantages of the local machine- tool industrial cluster, our facility continuously upgrades manufacturing capacity and broadens our product portfolio. Our core offerings consist of CNC press brakes, shearing machines and plate rolling machines. We have further expanded our product lineup to include panel benders, all- electric press brakes, CNC V- grooving machines, and laser cutting production lines.

Implemented with standardized production management, our machinery serves sheet- metal fabrication industries worldwide. We strive to become your reliable long- term supplier for sheet- metal processing equipment.

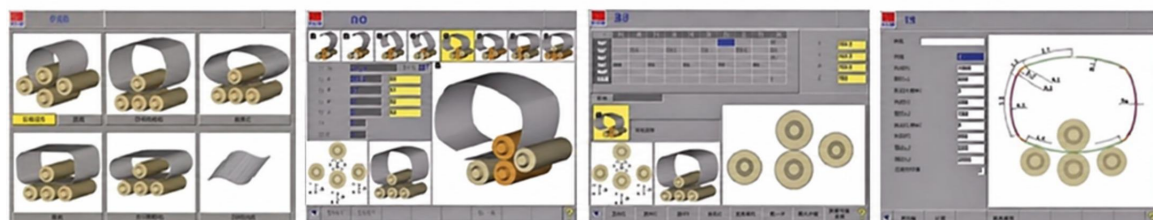
Product Catalog

- 1 Four roller plate bending rolls series _____ 03-08
- 2 Large size hydraulic three roller plate rolling machine
(with prebending function) _____ 09-10
- 3 Medium and large -size top roller universal plate rolling machine _____ 11-12
- 4 Three-roller hydraulic symmetric plate rolling machine _____ 13-14
- 5 Mechanical three-roller symmetrical Rolling machine _____ 15-16
- 6 Asymmetricl Three three-roller Rolling machine _____ 17-18
- 7 Plate rolling machine for ship building industry _____ 19
- 8 Plate rolling machine forshipbuilding industry _____ 20
- 9 Profile/Section rolling Machine _____ 21-22
- 10 2-roller rolling machine _____ 23-24



W12

Four-roller Rolling Machine



Product Introduction

The machine adopts the four-roller structure with the upper roller as the main drive, Both upward and downward movement Through hydraulic motors powered. The lower roller makes vertical movements and imposes a force on the piston through the hydraulic oil in the hydraulic cylinder so as to clamp the plate tight. Side rollers are arranged on the two sides of the lides of the lower roller, and make inclining movement along the guide rail, and provide drive through the screw, the nut, the worm and the lead screw. The advantage of the machine is that the preliminary bending and rolling of the top ends of the plates can be conducted on the same machine.

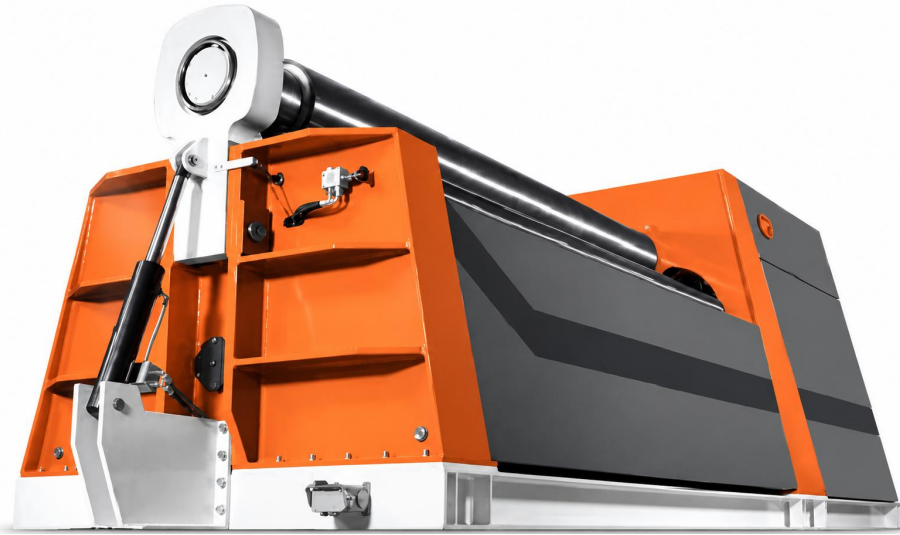




W12

Four-roller Rolling Machine

WESEND
Global Trade Partner



00700



W12

Four-roller Rolling Machine



Product Introduction

This machine features a plate-end pre-bending function, allowing the plate to be loaded only once. Both end pre-bending and complete plate rolling can be performed without removing, reversing, or repositioning the plate.

The upper roll serves as the main driven roll, while the vertical movement of the lower roll and both side rolls is hydraulically controlled. Roll positioning is controlled by a computerized control system, featuring automatic leveling and real-time position display on the operator interface.

The drop-end bearing housing is hydraulically operated for tilting and resetting. A balancing mechanism is installed at the tail end of the upper roll, allowing the finished workpiece or cylindrical shell to be removed easily after rolling.

The machine is equipped with an independent movable control console for convenient operation from different positions. A comprehensive safety interlock system is incorporated to ensure safe and reliable operation.

With advanced technology, comprehensive functions, high forming accuracy, and user-friendly operation, this machine is ideally suited for rolling cylindrical, curved, and conical workpieces.

It is widely used in industries such as energy, transportation, petroleum, chemical processing, boiler and pressure vessel manufacturing, shipbuilding, hydropower equipment, and steel structure fabrication, making it an ideal solution for a wide range of heavy-duty plate rolling applications.

Technical parameters for 4-roller plate rolling machine

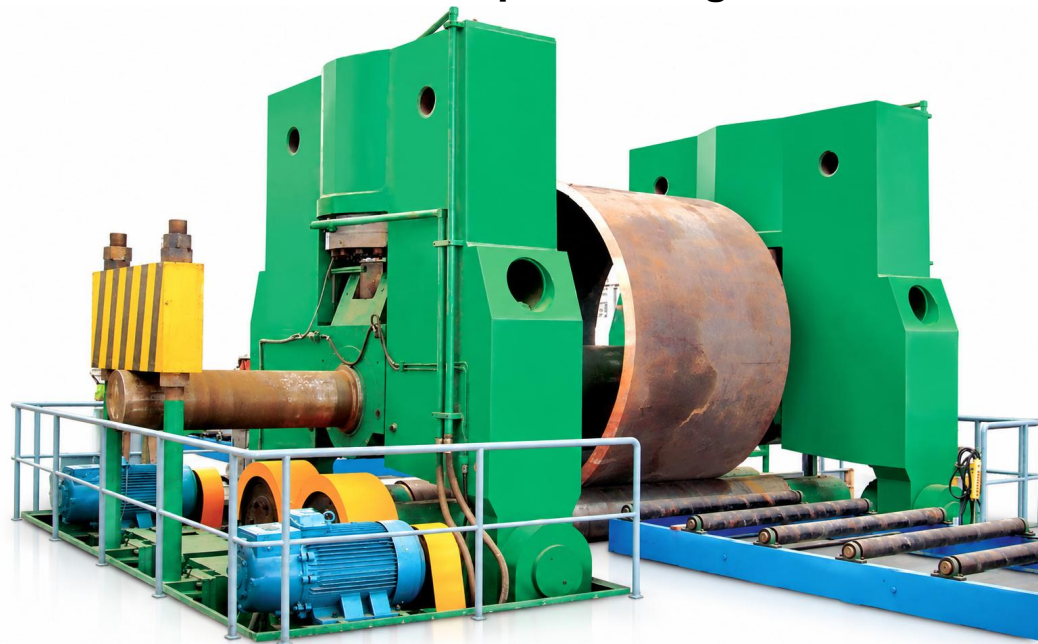
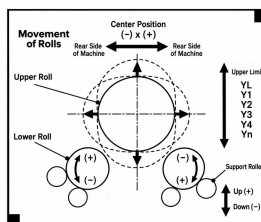
Specification	Max Thickness of Coiled Plate	Max Width of Coiled Plate	Yielding Limit of Sheet Metal	Coiling Speed	Min Full Loading Diameter of Coiled Plate	Diameter of Top shaft	Diameter of Bottom shaft	Side diameter	Motor Power
	(mm)	(mm)	(mm)	m/min	(mm)	(mm)	(mm)	(mm)	(Kw)
12×2000	12	2000	245	4	540	260	260	260	7.5
12×2500	12	2500	245	4	600	280	260	260	11
16×2500	16	2500	245	4	700	300	280	280	15
20×2500	20	2500	245	4	800	350	320	320	15
25×2500	25	2500	245	4	900	410	370	370	22
30×2500	30	2500	245	4	950	430	400	400	30
30×3000	30	3000	245	4	1200	450	420	420	37
40×2500	40	2500	245	4	1300	510	440	440	37
40×3200	40	3200	245	4	1500	550	490	490	45

Description and specifications given in this catalogue are subject to modification without notice.



W11S

Large size hydraulic three roller plate rolling machine (with prebending function)



Product Introduction

1. Maria precision products.
2. Unique bending technology, high-precision end of the prebending bending in a row without hom, the process of bending is controlled by digital.
3. Dialogue on human-computer interface control, intelligent and efficient operation.
4. Physics bending process software, human-computer dialogue window, automatic compensation.
5. during bending, Single operation, high-security and convenient.
6. The shapes of the bending are rich.





W11S

Small-scale Upper Roller Universal Plate Rolling Machine



Technical parameters for high small-size upper-roller universal plate rolling machine

W11S Model	Pressure on the upper roller Tons	Plate thickness		Plate width (mm)	Yielding limit of Sheet Metal (mm)	Y Coiling Speed (m/min)	Min Full Load Diameter of Coiled Plate (mm)	Diameter of Top shaft (mm)	Diameter of Bottom shaft (mm)	Central Distance between Bottom Shafts (mm)	Motor		
		End bending	Central								Driving	Hydraulic	Mobile motor
		(mm)	(mm)										
12×2000	65	12	9.6	2000	245	4	600	250	145	200	5.5	4	1.5
12×2500	75	12	9.6	2500	245	4	640	255	145	245	7.5	4	1.5
16×2500	100	16	12.8	2500	245	4	750	300	165	270	15	5.5	2.2
20×2500	130	20	16	2500	245	4	820	330	180	300	15	5.5	2.2
25×2500	190	25	20	2500	245	4	950	380	220	360	22	7.5	4
30×2500	230	30	24	2500	245	4	1020	410	235	380	30	11	5.5
30×3000	270	30	24	3000	245	4	1125	450	250	400	30	11	5.5
40×2500	420	40	32	2500	245	4	1250	500	270	420	37	18.5	7.5
40×3200	480	40	32	3200	245	4	1350	540	290	500	45	22	7.5

Technical parameters for precision medium-size upper-roller universal plate rolling machine

Model	Max.rolling thickness	Max.Pre-rolling thickness	Plate width	Diameter of upper roller	Main motor power
	(mm)	(mm)	(mm)	m/min	(mm)
W11SNC-40×4000	40	32	4000	610	45
W11SNC-45×3000	45	40	3000	590	45
W11SNC-45×4000	45	40	4000	660	45
W11SNC-50×4000	50	45	4000	700	45
W11SNC-55×3000	55	45	3000	620	55
W11SNC-55×4000	55	50	4000	750	55
W11SNC-60×3000	60	50	3000	650	55
W11SNC-60×4000	60	55	4000	780	75
W11SNC-65×4000	65	60	4000	810	75
W11SNC-70×3000	70	60	3000	710	75
W11SNC-70×4000	70	65	4000	820	75
W11SNC-75×3000	75	65	3000	740	75
W11SNC-80×3000	80	70	3000	760	75
W11SNC-80×4000	80	75	4000	860	90
W11SNC-90×3000	90	80	3000	790	90
W11SNC-100×3000	100	90	3000	820	90

Technical parameters for extra large-size upper-roller universal plate rolling machine

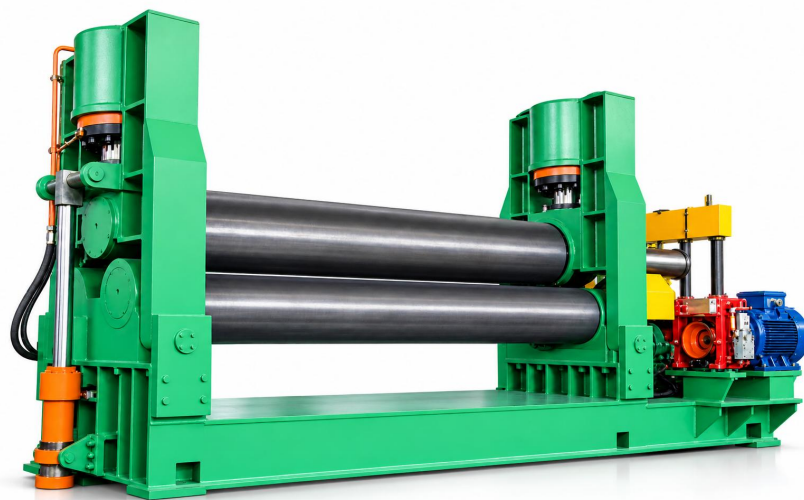
Model	Max.rolling thickness	Max.Pre-rolling thickness	Plate width	Diameter of upper roller	Main motor power
	(mm)	(mm)	(mm)	(mm)	(Kw)
W11SNC-110×4000	110	90	4000	940	90
W11SNC-120×3000	120	100	3000	860	90
W11SNC-120×4000	120	100	4000	990	110
W11SNC-130×4000	130	110	4000	960	2×75
W11SNC-160×3000	160	120	3000	1080	2×75
W11SNC-160×4000	160	130	4000	1260	2×90

Description and specifications given in this catalogue are subject to modification without notice.

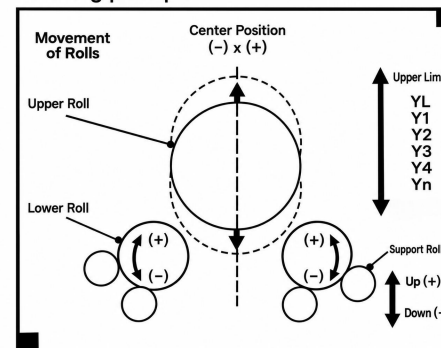


W11Y

Hydraulic three-roller symmetrical Rolling machine



Working principle



Technical Parameters of Hydraulic Symmetrical Three-Roll Plate Rolling Machine

Model	Max.rolling thickness	Plate width	Diameter of upper roller	Main motor power
	(mm)	(mm)	(mm)	(Kw)
W11NC-25×2000	25	2000	310	18.5
W11NC-25×2500	25	2500	360	18.5
W11NC-30×2000	30	2000	360	22
W11NC-30×2500	30	2500	380	22
W11NC-30×3000	30	3000	425	30
W11NC-40×3000	40	3000	510	45
W11NC-50×3000	50	3000	560	55
W11NC-60×3000	60	3000	590	75
W11NC-70×3000	70	3000	670	75
W11NC-80×3000	80	3000	710	90
W11NC-90×3000	90	3000	770	90
W11NC-100×3000	100	3000	830	90
W11NC-110×3000	110	3000	860	110
W11NC-120×3000	120	3000	880	110

Description and specifications given in this catalogue are subject to modification without notice.



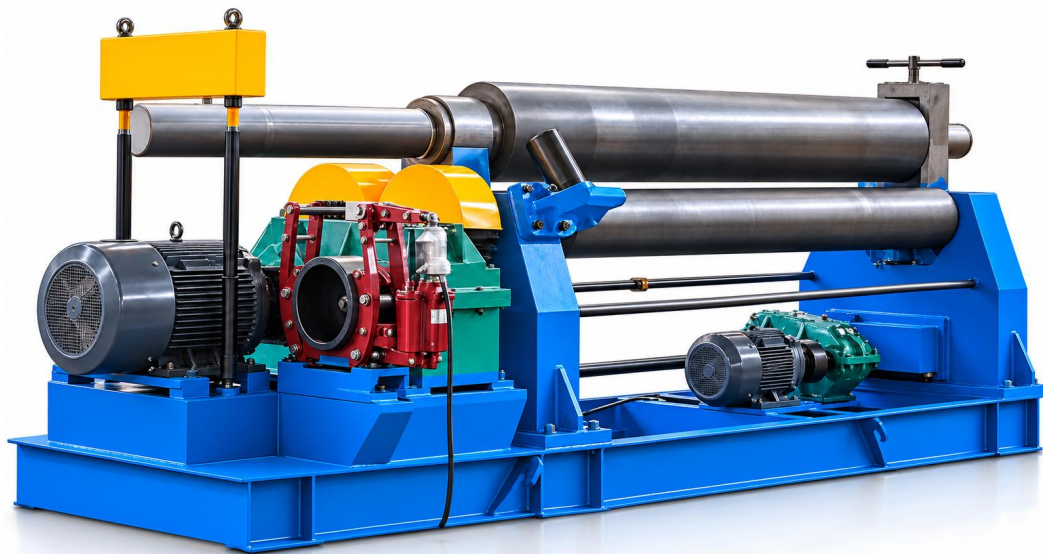
Product Introduction

The construction of this machine is in the form of three roller symmetry,the top roller,in the central symmetry position over the two bottom rollers, does vertical motion up and dow through screw,nut and worm transmission.Decelerator gears bottom rollers providing torsion moment for coiling sheet metal.The construction of the machine is compact and the operation and maintenance is convenient.



W11

Mechanical three-roller symmetrical Rolling machine



Working principle



Optional: Cone Rolling Device and Tooling Hydraulic Motor Drop-End Device



Product Introduction

This mechanical symmetrical three-roll plate rolling machine forms plates through the vertical movement of the upper roll and rotation of the rolls. The two lower rolls are driven by the main gearbox, while the upper roll is vertically adjusted by a screw and worm gear mechanism.

Featuring a robust structure, simple operation, low investment, easy maintenance, and reliable performance, this machine is suitable for a wide range of working conditions.

Due to its symmetrical design, straight edges remain at both plate ends and require subsequent correction or pre-bending. Compared with hydraulic models, it has relatively higher energy consumption and lower production efficiency.

Technical parameters for 4-roller plate rolling machine									
Specication	Max Thickness of Coiled Plate	Max Width of Coiled Plate	Yielding Limit of Sheet Metal	Coiling Speed	Min Full Loading Diameter of Coiled Plate	Diameter of Top shaft	Diameter of Botton shaft	Centra Distance between Botton Shafts	Motor Power
	(mm)	(mm)	(mm)	(m/min)	(mm)	(mm)	(mm)	(mm)	(Kw)
W11-4×1500	4	1500	245	5	300	150	140	185	3
W11-6×1500	6	1500	245	5	380	160	160	250	4
W11-6×2000	6	2000	245	4.5	380	170	160	260	5.5
W11-6×3200	6	3200	245	4.5	380	220	180	280	7.5
W11-8×2000	8	2000	245	4.5	400	185	170	260	7.5
W11-8×2500	8	2500	245	4.5	550	240	200	300	11
W11-12×2000	12	2000	245	4.5	550	240	200	300	11
W11-12×2500	12	2500	245	4.5	600	260	220	320	11
W11-12×3000	12	3000	245	4	700	280	240	360	15
W11-16×2000	16	2000	245	4	600	260	220	320	11
W11-16×2500	16	2500	245	4	700	280	250	360	15
W11-16×3200	16	3200	245	4	850	340	260	430	18.5
W11-20×2000	20	2000	245	4	700	280	250	360	15
W11-20×2500	20	2500	245	4	850	340	280	430	18.5
W11-25×2000	25	2000	245	4	850	340	280	430	18.5
W11-25×2500	25	2500	245	4	900	360	300	480	22
W11-30×2500	30	2500	245	4	1200	420	360	550	30
W11-30×3000	30	3000	245	4	1200	450	390	600	37

Description and specifications given in this catalogue are subject to modification without notice.

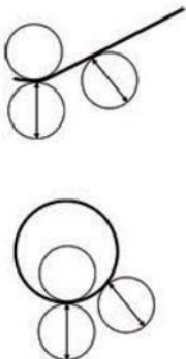


W11F

Asymmetricl Three 3-roller Rolling machine



Working principle



Product Introduction

This machine features an asymmetrical three-roll design. The lower roll moves vertically to clamp the plate, while the upper and lower rolls rotate in opposite directions to drive the plate. The side roll moves obliquely to achieve the required bending radius. With pre-bending and plate rolling functions, the machine features a compact structure, easy operation, and convenient maintenance.

Technical parameters for 4-roller plate rolling machine									
Specilication	Max Thickness of Coiled Plate (mm)	Max Width of Coiled Plate (mm)	Yielding Limit of Sheet Metal (mm)	Coiling Speed (m/min)	Min Full Loading Diameter of Coiled Plate (mm)	Diameter of Top shaft (mm)	Diameter of Botton shaft (mm)	Centra Distance between Botton Shafts (mm)	Motor Power (Kw)
W11F-2×1000	2	1000	245	6	250	120	120	120	2.2
W11F-2×1200	2	1200	245	8.1	250	120	120	120	2.2
W11F-2×1600	2	1600	245	8.1	250	130	130	130	2.2
W11F-2×2000	2	2000	245	8.1	250	130	130	130	2.2
W11F-4×1000	4	1000	245	5.4	300	140	140	140	3
W11F-4×1200	4	1200	245	5.4	300	140	140	140	3
W11F-4×2000	4	2000	245	5.4	350	150	150	150	3
W11F-6×1000	6	1000	245	5.4	350	140	140	140	3
W11F-6×1500	6	1500	245	5.4	400	150	150	150	4
W11F-6×2000	6	2000	245	5.4	400	160	160	160	4

Description and specifications given in this catalogue are subject to modification without notice.



Plate rolling machine for shipbuilding industry

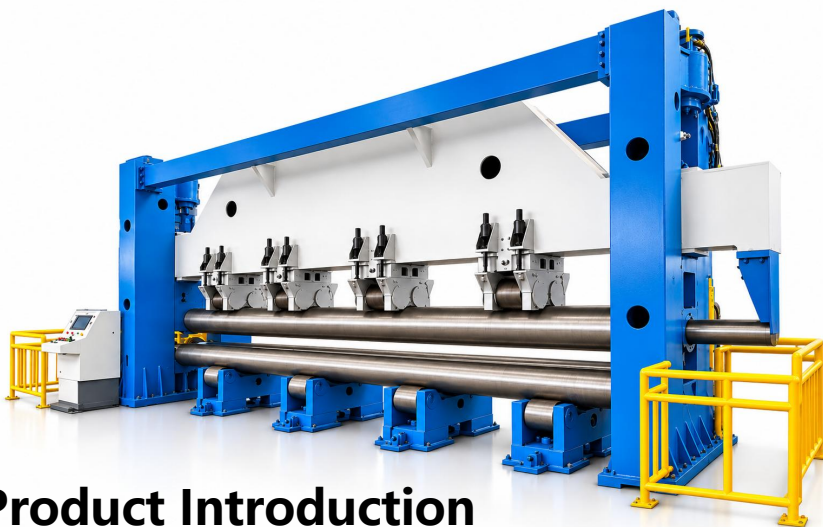
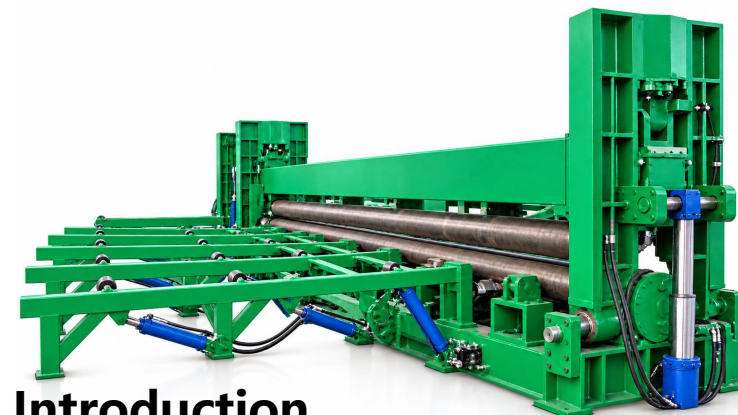


Plate rolling machine for shipbuilding industry



Product Introduction

Special-Purpose Vehicle Plate Rolling Machines are available in the following types:

- a) Symmetrical Type: Upper roll moves vertically; lower rolls remain fixed.
- b) Universal Upper Roll Type: Upper roll moves vertically and horizontally; lower rolls remain fixed.
- c) Upper Beam Type: A support roll mounted under the upper beam increases upper-roll rigidity, allowing a smaller upper-roll diameter for rolling shells with smaller radii.



Product Introduction

Marine Plate Rolling Machine Types:

- a) Symmetrical Type: Upper roll moves vertically; lower rolls remain fixed.
- b) Lower Roll Horizontal-Shift Type: Upper roll moves vertically; both lower rolls move horizontally together.
- c) Independent Lower Roll Shift Type: Upper roll moves vertically; lower rolls move horizontally independently.
- d) Universal Upper Roll Type: Upper roll moves vertically and horizontally; lower rolls remain fixed.

Technical parameters for plate rolling machine for ship building industry

Specification	Max. plate thickness	Plate Width	Main motor power
	(mm)	(mm)	(Kw)
W11NC-20×8000	20	8000	45
W11NC-25×12000	25	12000	55
W11NC-30×12000	30	12000	90
W11NC-30×16000	30	16000	110
W11NC-40×18000	40	18000	2×75
W11NC-40×21000	40	21000	2×90

Technical parameters for plate rolling machine for ship building industry

Specification	Max. plate thickness	Plate Width	Diameter of upper roller	Main motor power
	(mm)	(mm)	(mm)	(Kw)
W11NC-5×7000	5	7000	440	11
W11NC-6×9500	6	9500	500	15
W11NC-8×6000	8	6000	420	15
W11NC-8×7000	8	7000	450	15
W11NC-8×8000	8	8000	470	15
W11NC-8×9500	8	9500	510	15
W11NC-10×6000	10	6000	440	15
W11NC-10×9000	10	9000	470	15
W11NC-12×6000	12	6000	460	15
W11NC-12×9000	12	9000	530	22
W11NC-16×6000	16	6000	500	22



W24S

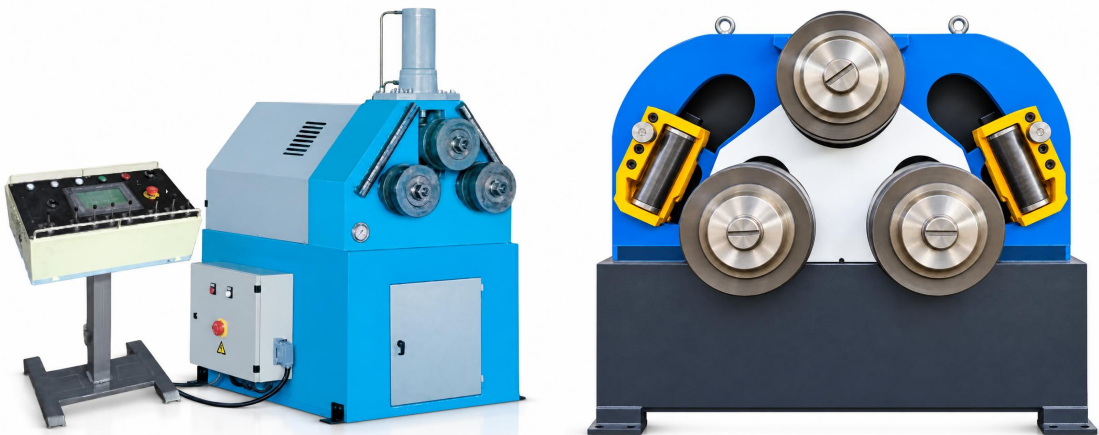
Profile/Section rolling Machine



Product Introduction

The section bending machine is designed for bending angle steel, channels, I-beams, flat bars, square bars, round bars, and other profiles. It can complete bending and roundness correction in a single loading, and is widely used in petroleum, chemical, hydropower, shipbuilding, and machinery industries.

The lower rolls, or all three rolls, can be driven. The two side rolls move along an arc, while side support rollers ensure accurate bending of asymmetrical profiles. Featuring a compact structure, reliable operation, and versatile performance, it is an efficient solution for section bending applications.

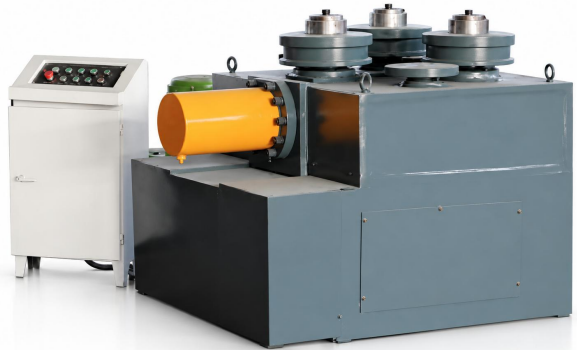


Semi-Hydraulic Motor Section Bending Machine

Fully Hydraulic Motor Section Bending Machine



Manual Section Bending Machine

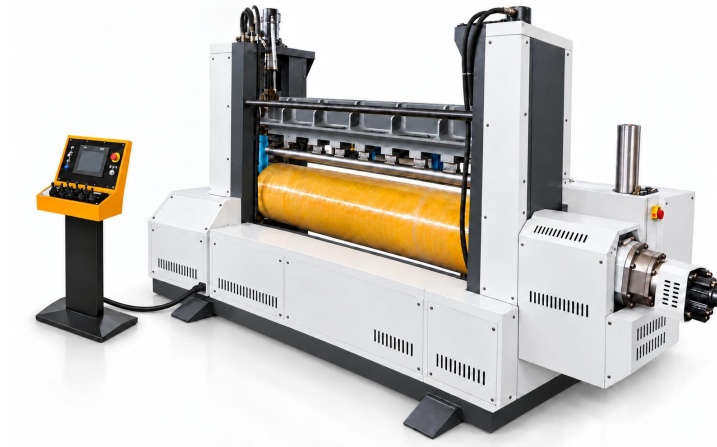
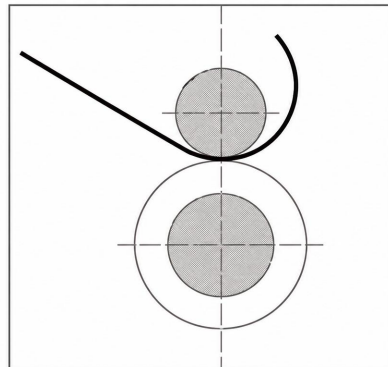
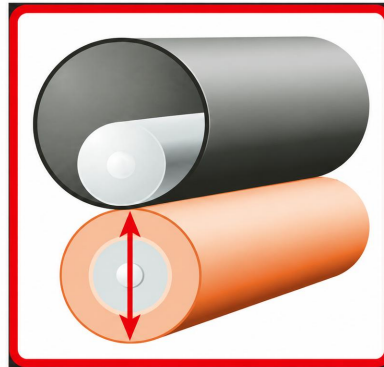


Technical Parameters of Profile Bending Machine

Technical Parameters		W24S (WY24-)											
		6	16	30	45	75	100	140	180	260	320	400	500
Maximum Section Modulus		6	16	30	45	75	100	140	180	260	320	400	500
Rolling Speed (m/min)		6				5				4			
Material Yield Strength (MPa)		σs=250						σs=250					
	Max. Section Size (mm)	40×5	70×8	80×8	90×10	100×10	120×12	140×16	150×16	160×16	180×14	200×18	200×20
	Max. Bending Dia. (mm)	800	1000	1200	1500	2000	2500	2400	2600	2600	3600	3600	4000
	Min. Section Size (mm)	20×3	30×3	35×3	36×5	38×4	40×5	50×5	50×6	60×6	70×6	75×6	85×6
	Min. Bending Dia. (mm)	400	550	560	600	600	720	1000	1200	1200	1500	1400	1600
	Max. Section Size (mm)	50×5	80×8	90×10	100×10	120×12	140×16	150×16	160×16	180×14	200×18	200×24	250×25
	Max. Bending Dia. (mm)	800	1000	1100	1300	1600	1800	2200	2000	2500	3600	3600	4000
	Min. Section Size (mm)	20×3	30×3	35×3	36×5	38×4	45×5	50×5	50×6	60×6	70×6	75×6	85×6
	Min. Bending Dia. (mm)	400	550	600	600	700	760	800	1000	1000	1300	1500	1600
	Channel Size No.	8	12	16	20	25	28	30	32	36	40	45	50
	Min. Bending Dia. (mm)	600	800	800	1000	1100	1700	1200	1500	1800	2000	2000	2400
	Channel Size No.	8	12	16	20	25	28	30	32	36	40	45	50
	Min. Bending Dia. (mm)	700	900	1000	1150	1600	1700	1700	1800	1800	2000	2000	2400
	Max. Section Size (mm)	100×18	150×25	150×25	180×25	200×30	220×40	250×40	280×50	330×50	360×60	400×75	500×76
	Min. Bending Dia. (mm)	600	700	800	900	1000	1200	1300	1500	1900	2000	2400	2400
	Max. Section Size (mm)	50×12	75×16	90×20	100×25	110×40	120×40	150×40	180×30	190×40	190×50	200×50	200×60
	Min. Bending Dia. (mm)	500	760	800	1000	1100	1300	1500	2000	2000	2400	2200	2500
	Max. Section Size (mm)	42×4	76×4.5	89×5	89×8	114×5	159×5	168×6	168×8	219×8	245×8	273×8	323×10
	Min. Bending Dia. (mm)	500	750	900	900	1200	2000	2000	2000	3500	3000	3500	4200
	Max. Section Size (mm)	38	52	62	75	85	90	100	110	120	135	150	160
	Min. Bending Dia. (mm)	450	600	600	800	1000	1200	1200	1300	1350	1800	2000	2000
	Max. Section Size (mm)	45×3	60×4	70×4	80×6	90×8	100×10	125×10	140×10	150×10	165×10	180×12	200×12
	Min. Bending Dia. (mm)	750	900	1000	1200	1600	2000	2500	3000	3000	3500	3500	5000

**W10**

2-roller rolling machine



Working Principle



Product Introduction

The two-roll plate rolling machine is a high-tech product manufactured by our company. One roll is made of steel, while the other consists of a steel core covered with an elastic layer. The plate is positioned between the two rolls, and the roll gap is adjusted to apply pressure, causing the elastic layer to deform and the plate to undergo localized deformation. Driven by the rotation of both rolls, the plate is continuously rolled into the required shape.

The workpiece can be formed in a single rolling operation with virtually no flat ends, ensuring high roundness accuracy. It is a highly efficient and highly automated plate rolling machine.



Product Description

1. Capable of rolling various metal sheets with thicknesses ranging from 0.3 mm to 6 mm into round shapes in a single pass, achieving exceptional roundness accuracy with virtually no flat ends.
2. Maximum working width of up to 3,000 mm. Equipped with patented EPS automatic gap adjustment technology, which automatically adjusts the two roller axes to accommodate workpieces with varying thicknesses.
3. Automatic one-pass forming ensures high production efficiency, with a daily output of over 400 pieces per shift.
4. Produces perfectly rounded workpieces with virtually no flat ends, eliminating the need for pre-bending or subsequent corrective forming.
5. Capable of processing various surface-finished materials, including mirror-finished, perforated, coated, anodized, and galvanized sheets, without damaging the surface.
6. Features a large LCD touchscreen, one-touch operation, and multiple programmable functions. Its user-friendly interface makes operation simple and convenient.
7. Backed by more than 30 patented technologies, we continuously pursue innovation and technological excellence to create greater value for our customers.