



EZHONG
— EST. 1958 —

EQUIPMENT CATALOGUE

Metal plates and profiles

Forming on a large scale.

Plate rolls.
Levelers.
Presses.

Engineering and manufacturing
of heavy equipment.

ENGLISH EDITION



Technology for every stage.

Explore the equipment range and find the technical specifications.

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Variable geometry, drive systems, wind towers and shipbuilding. | 06 - 14 |
| 02 | 4-roll plate rolling machines
Thin, medium and heavy plate. EZW12X series. | 15 - 17 |
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A history of heavy industry.

Hubei Heavy Industry Equipment Co., Ltd. | Ezhou, Hubei, China

Since 1958

EZHONG draws on extensive experience in the design and manufacture of plate forming equipment. The present company was established through the restructuring of the former EZHONG Group.

The range includes 3-roll plate rolling machines with horizontally adjustable lower rolls, variable-geometry plate rolls, CNC 4-roll plate rolls and roller plate levelers.



EZHONG facilities in Ezhou.



Engineering and research

Hubei engineering center, heavy plate rolling machine research center and postdoctoral industrial research base, with patents and technological innovation awards.

REFERENCE PROJECTS

Three Gorges Project · Beijing National Stadium · National Grand Theatre of China · Beijing Capital Airport Terminal 3

Quality starts with the structure.

Heat treatment and machining of the main machine components.

01

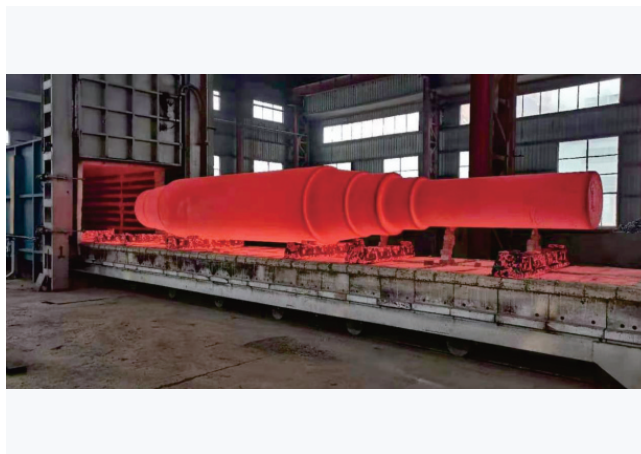
Welded structures



Annealing of structural components to relieve residual stress.

02

Work rolls



Quenching and tempering of the work rolls.

03

Machining

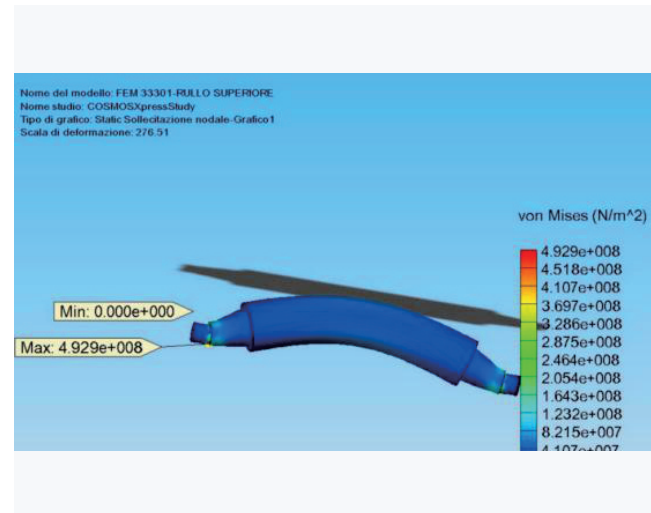
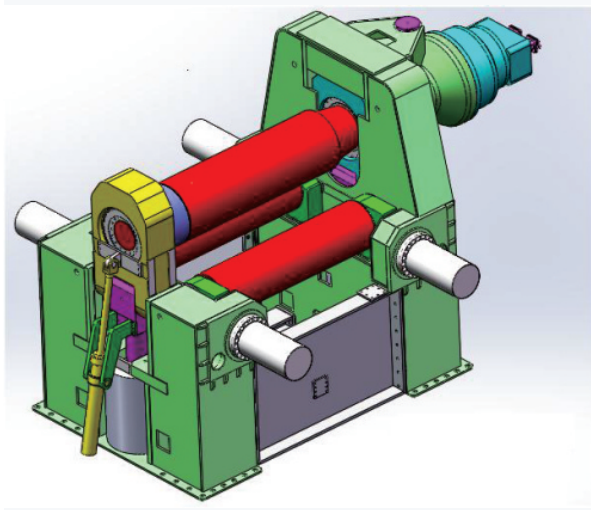


Machining of rolls and related components on heavy machine tools.

From structural preparation to roll finishing, manufacturing brings together processes suited to large machine components.

Design, simulation and control.

Engineering development informed by manufacturing experience.

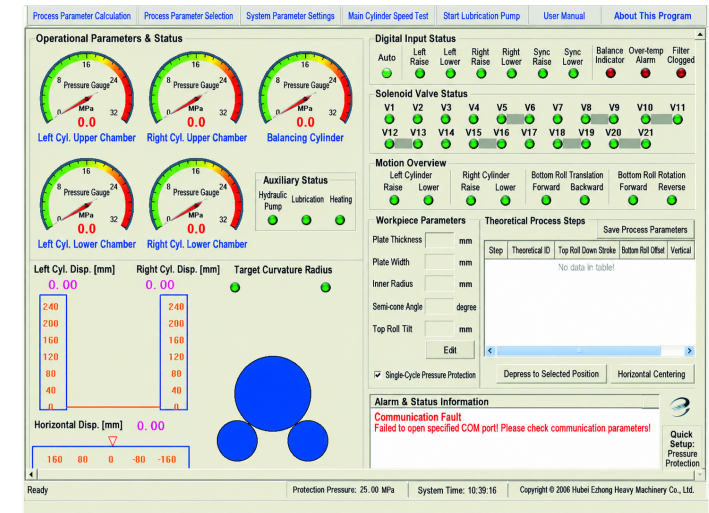


Modeling and validation

SolidWorks 3D and 2D models with Cosmos analysis, totaling more than 10,000 design reliability checks together with stress and strain analysis.

Academic cooperation

Work with Huazhong University of Science and Technology and Wuhan University of Technology.



Machine control

Calculation, data storage, alarms and network connectivity in the control system.

Technical exchanges recorded with specialists from LVD and YSD, HAEUSLER and FACCIN.

Variable geometry.

CNC hydraulic 3-roll plate rolling machine with adjustable center distance between the lower rolls.



EZHONG 3-roll plate rolling machine. Reference image of the current range.

Reference models: EZW11S-120×3200 and EZW11S-150×3200.

Independent adjustment

Each lower roll moves independently in the horizontal direction. The upper roll moves vertically.

Pre-bending and traction

Adjusting the center distance supports pre-bending and the forming of smaller-diameter parts.

Heavy plate

Increasing the distance between the lower rolls increases bending and re-rounding capacity.

Horizontal feeding

The plate can remain horizontal during pre-bending.

All three rolls driven.

Heavy-duty hydraulic plate rolling machine with three driven work rolls.



Zhangjiagang Chemical Machinery | EZW11S-270/360×3500.

Direct drive

Hydraulic motors and planetary gearboxes are directly coupled to the roll shafts to reduce transmission losses.

Position control

Hydraulic upper-roll lifting, automatic leveling and synchronization accuracy of ± 0.2 mm.

Operation and unloading

Hydraulically operated drop end, rear balancing mechanism for the upper roll, fixed console and remote push-button control.

Construction features

Built-in hydraulic cylinders, cone-rolling features, controlled hydraulic decompression and an operator interface.

Dual-motor drive.

Drive technology for pressure vessels and thick-walled components.



Heavy-duty plate rolling machine with dual-motor drive.

Drive system

Two-motor drive, powered horizontal movement of the lower rolls and pre-bending of the plate ends.

NC control

Sensors measure upper-roll lifting displacement, which is shown on an LED display.



HOT FORMING

Machines designed for hot forming account for rolls, bearings, thermal expansion and cooling. The 850 - 1050 °C reference range depends on the material and configuration.

Reference equipment: EZW11S-200×4000 and a 35 t gearbox. Process conditions are detailed on p. 30.

Wind towers at industrial scale.

Variable-geometry plate rolling machines for large-diameter tower shells.



EZW11S-180×3500 | Plate rolling machine with overhead support.

Other applicable models: EZW11S-120×3200, EZW11S-150×3500 and EZW11S-140×4000.

±0.2 mm

Reference synchronization accuracy.

Shell forming

Hydraulic motors and planetary gearboxes drive the rolls. Independent adjustments adapt the roll geometry to the workpiece.

Cone rolling

A device restrains the small end of the plate. Reference cone-rolling condition: 30° at 50% of rated load; actual capability depends on the configuration.

Support throughout the process.

Feeding, support and alignment for cylindrical shell production.



Overhead support

Support capacity from 5 to 70 t, depending on the supplied configuration.



Plate feeding table

Supports plate positioning and feeding into the forming process.



Cone rolling

Hydraulic roll inclination and supporting equipment for conical workpieces.

Additional features: side supports, axial and radial alignment device, and graphical CNC control for programming and monitoring the cycle.

Forming extra-wide plate.

Plate rolling and bending for shipbuilding components.



Rolling and bending

Curved hull plates, including plates around the stern and engine room.

Adjustable centers

Adjustable lower-roll centers and eccentric rolling to reduce the remaining straight end.

Dedicated tooling

90° bending and channel forming with dies.

Shipbuilding specifications and features.

3-roll configurations with independent lower-roll drives and deflection compensation.

Model	Minimum radius at full load (mm)	Rows of back-up rolls	Main motor power (kW)
3R-2200T×21000	650	8	75×2
3R-2200T×18000	650	8	75×2
3R-2000T×17000	650	6	75×2

Deflection compensation

Adjustable supports between the beams and back-up rolls compensate for deflection during forming.

Process control

The system switches between rolling and bending modes. Horizontal movement is mechanically synchronized.

*Technical specifications are subject to change by the manufacturer without notice.

Roll drives

The two lower rolls are driven independently to reduce mechanical interference.

Shipbuilding technology

The range incorporates British Smith technology in its development.

3-roll plate rolling machines | EZW11S

Maximum thickness without and with pre-bending · 1/2

Model	Working width (mm)	Thickness without pre-bending (mm)	Thickness with pre-bending (mm)	Motor power (kW)	Working speed (m/min)	Overall dimensions (mm)
EZW11S-30×3000	3000	30	20	37.5	1.5 - 5	5950×2800×2000
EZW11S-35×3000	3000	35	25	48	1.5 - 5	6500×2800×2000
EZW11S-45×3000	3000	45	30	52	1.5 - 5	6600×2800×2200
EZW11S-50×3000	3000	50	35	73.5	1.5 - 4	7400×3100×2650
EZW11S-60×3000	3000	60	40	73.5	1.5 - 4	7550×3350×2700
EZW11S-25×4000	4000	25	15	37.5	1.5 - 5	6950×2800×2000
EZW11S-30×4000	4000	30	18	48	1.5 - 5	7500×2800×2000
EZW11S-35×4000	4000	35	20	52	1.5 - 5	7600×2800×2200
EZW11S-40×4000	4000	40	25	73.5	1.5 - 4	8400×3100×2650
EZW11S-45×4000	4000	45	30	73.5	1.5 - 4	8550×3350×2700
EZW11S-50×4000	4000	50	40	52+15	4.3	8750×3550×2950
EZW11S-60×4000	4000	60	50	60+15	4	9100×3900×3500

*Nominal design dimensions and capacities. Custom designs available on request.

3-roll plate rolling machines | EZW11X

Maximum thickness without and with pre-bending · 2/2

Model	Working width (mm)	Thickness without pre-bending (mm)	Thickness with pre-bending (mm)	Motor power (kW)	Working speed (m/min)	Overall dimensions (mm)
EZW11X-70×3200	3200	70	60	60+24.1	3.40	7980×3320×3680
EZW11X-80×3200	3200	80	70	60+32.2	4.00	8040×3950×3940
EZW11X-90×3200	3200	90	80	74+32.2	3.36	8280×3990×4470
EZW11X-100×3200	3200	100	90	104+32.2	3.50	8600×4160×4490
EZW11X-110×3200	3200	110	100	110+39.2	4.00	8860×4160×4960
EZW11X-120×3200	3200	120	110	126+39.2	3.60	8880×4360×4960
EZW11X-130×3200	3200	130	115	126+39.2	3.60	9070×4690×6100
EZW11X-140×3200	3200	140	125	126+39.2	3.60	10350×4990×6330
EZW11X-150×3200	3200	150	135	150+84.2	3.50	10430×4970×5850
EZW11X-160×3200	3200	160	140	150+79.2	3.20	10620×5450×6400
EZW11X-170×3200	3200	170	150	220+84.2	3.12	10950×5920×6360
EZW11X-180×3200	3200	180	170	220+93.7	3.12	10950×5920×6360
EZW11X-200×3200	3200	200	180	220+93.7	3.36	12100×6160×7460

*Nominal design dimensions and capacities. Custom designs available on request.

Four rolls. Controlled forming.

Fully hydraulic 4-roll plate rolling machine for thin plate, aluminum and stainless steel.



EZHONG 4-roll plate rolling machine with a separate control console.

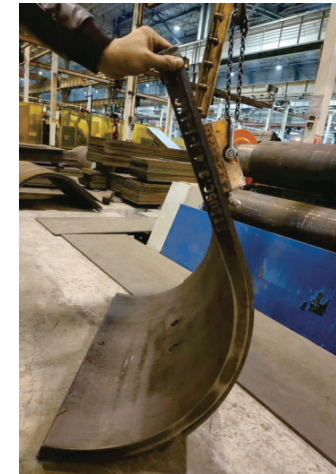
Shells and multiple radii

Forms complete cylindrical shells and segments with different radii.

Overload protection and three digital roll-position displays. Further features on p. 31.

Hydraulic movement

Hydraulic cylinders move the pinch roll and side rolls.



Workpiece unloading

Hydraulically operated drop end and a separate mobile control console.

4-roll plate rolling machines | EZW12X

Rolling capacities, motor power, working speed and overall dimensions.

Model	Working width (mm)	Thickness without pre-bending (mm)	Thickness with pre-bending (mm)	Motor power (kW)	Working speed (m/min)	Overall dimensions (mm)
EZW12X-16×2000	2000	16	12	22	1.5 - 6	5800×2000×1800
EZW12X-16×2500	2500	16	12	30	1.5 - 6	6810×2000×1870
EZW12X-20×2000	2000	20	16	30	1.5 - 6	6000×2000×1850
EZW12X-20×2500	2500	20	16	37	1.5 - 6	6850×2000×2070
EZW12X-20×3000	3000	20	16	45	1.5 - 6	7310×2100×2200
EZW12X-25×2000	2000	25	22	37	1.5 - 6	6300×2300×2070
EZW12X-25×2500	2500	25	22	45	1.5 - 6	6000×2600×2100
EZW12X-25×3000	3000	25	22	55	1.5 - 6	9000×3200×2500
EZW12X-25×4000	4000	25	22	63	1.5 - 6	10100×3600×2900
EZW12X-30×2000	2000	30	25	45	1.5 - 6	7500×2600×2500
EZW12X-30×2500	2500	30	25	55	1.5 - 6	8400×2500×2600
EZW12X-30×3000	3000	30	25	60	1.5 - 6	9200×2500×2900
EZW12X-30×4000	4000	30	25	60	1.5 - 6	10200×3500×2900
EZW12X-40×2000	2000	40	36	45	1.5 - 6	8200×3000×2600
EZW12X-40×2500	2500	40	36	60	1.5 - 6	8700×3500×2900
EZW12X-40×3000	3000	40	36	76	1.5 - 6	8200×3600×3000
EZW12X-40×4000	4000	40	36	80	1.5 - 6	12500×4000×3500
EZW12X-50×2000	2000	50	45	60	1.5 - 6	8500×3500×3000
EZW12X-50×2500	2500	50	45	75	1.5 - 6	9000×4000×3300
EZW12X-50×3000	3000	50	45	90	1.5 - 6	9800×4300×3500
EZW12X-60×2500	2500	60	50	90	1.5 - 6	9500×4500×3700
EZW12X-60×3000	3000	60	50	121	1.5 - 6	10000×4500×3800

*Technical specifications are subject to change without notice. Special models available on request.

Heavy plate forming.

Fully hydraulic heavy-duty 4-roll plate rolling machine for shells and segments with different radii.



Heavy-duty 4-roll plate rolling range. Reference model: EZW12-100×4000.

Frame and rolls

Stress-relieved welded steel frame. Forged work rolls, heat treated and induction hardened.

Control and protection

Three digital roll-position displays, overload protection, hydraulic drop end and a separate mobile control console.

Operating features

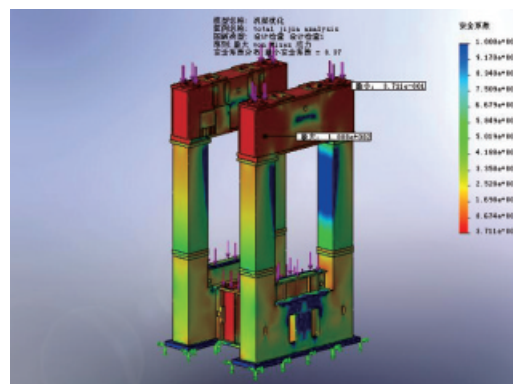
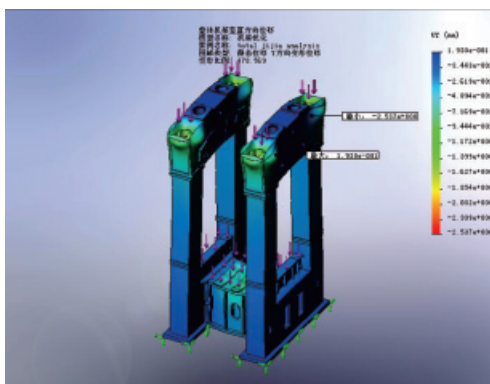
Hydraulic balancing system, two working speeds and cone-rolling device.

Flatness starts with control.

Roller plate levelers: structural design, roll-gap adjustment and parameter storage.



W43-60×2500 | 9-roll plate leveler installed in Afghanistan.



Automatic roll-gap adjustment device: proprietary patent no. ZL 202023121026.1.

Design and simulation

3D modeling, stress and strain analysis, and optimization of structural components.

Operator interface

PLC, touchscreen and push buttons, with parameter editing, storage and recall.

Automatic adjustment

Entry and exit roll gaps are calculated from plate thickness, width and material strength. Manual correction is available.

Production data

Memory retention after power-off and data communication. An output interface is provided for laser flatness measurement.

Heavy plate. Uniform results.

Heavy-duty roller plate levelers for structural fabrication and heavy industry.



W43-32×3600 | Equipment at an industrial installation.

Roll arrangement

Non-parallel roll banks with adjustable upper end rolls.

Progressive leveling

Roll penetration decreases progressively along a linear profile. Reversible feeding and independent adjustment at the entry end.

Reference applications

W43-80×3000: 7 rolls, Shanghai Zhenhua, visited by JSL.

W43-32×3600: 7 rolls, Wuhan Haibo.



Leveling clad plate.

Metal clad plate leveler with adjustable upper end rolls.



CSSC / No. 725 Research Institute | EZW43T-40×3000 · 9 rolls.

Combined material properties

Clad plate combines the properties of carbon steel with the corrosion or wear resistance of its cladding layer.

Stress and deformation control

Separate roll drives and adjustable upper end rolls help correct stress concentrations and deformation caused by the cladding process.

Other installations

Anhui Jinyuan: EZW43T-40×3000, 9 rolls.

Anhui Zhongganglian: EZW43T-30×4200, 9 rolls.

Plate levelers | EZW43 series

Technical specifications · 1/2 · Individual values for each model.

Model	Yield strength (MPa)	Work rolls	Thickness max./min. (mm)	Plate width (mm)	Back-up roll rows	Roll adjustment stroke (mm)	Working speed (m/min)	Motor power: main / roll adjustment (kW)
EZW43B-8×1500	1100	15	8/3	1500	3	+50 / -17	6	45×2 3×2
EZW43BY-8×2000	1600	17	8/3	2000	3	+130 / -15	3.2 - 6	75×2 4×2
EZW43B-10×1500	960	13	10/3	1500	3	+50 / -15	3.2 - 8	75 3×2
EZW43B-10×1800	1600	15	10/3	1800	3	+130 / -15	3.2 - 6	55×2 3×2
EZW43B-10×3000	360	13	10/3	3000	4	+50 / -5	6.9	7.5×2 + 3.7×2 5.5×2
EZW43B-12×1000	960	11	12/4	1000	2	+50 / -15	3 - 8	30×2 2.2×2
EZW43C-12×2000	1000	13	12/4	2000	4	+50 / -25	4.5	55×2 4×2
EZW43B-12×3600	360	11	12/4	3600	4	+45 / -15	6	30×2 4×2
EZW43C-16×2500	1100	11	16/4	2500	3	+60 / -23	3 - 8	90×2 7.5×2
EZW43C-16×3200	360	11	16/4	3200	4	+50 / -5	7.32	13×6 5.5×2
EZW43-20×2000	1500	9	20/4	2000	3	+70 / -20	6	167 5.5×2
EZW43T-20×2000	600	9	20/4	2000	3	+70 / -23	3 - 6	11×9 5.5×2
EZW43C-20×2000	940	11	20/4	2000	3	+60 / -20	6.2	37×2 5.5×2
EZW43C-20×2500	360	13	20/5	2500	4	+60 / -20	6	75×2 7.5×2
EZW43C-20×3200	245	11	20/5	3200	4	+60 / -20	6	11×7 + 5.5×2 5.5×2

Roll counts refer to work rolls; back-up rolls are counted in rows. Motor power: main drive on the upper line, roll adjustment below.

*Capacity data based on the stated yield strength. Special configurations available to order.

Plate levelers | EZW43 series

Technical specifications · 2/2 · Individual values for each model.

Model	Yield strength (MPa)	Work rolls	Thickness max./min. (mm)	Plate width (mm)	Back-up roll rows	Roll adjustment stroke (mm)	Working speed (m/min)	Motor power: main / roll adjustment (kW)
EZW43-25×1500	360	11	25/6	1500	3	+50 / -5	6	30×2 2.2×2
EZW43-25×2500	1500	9	25/6	2500	4	+60 / -20	6	11×7 + 5.5×2 5.5×2
EZW43-25×2450	1500	9	25/5	2450	4	+60 / -20	6	11×7 + 5.5×2 5.5×2
EZW43TY-30×1500	360	11	30/7	1500	3	+60 / -20	6	30×2 4×2
EZW43T-30×3000	360	9	30/6	3000	3	+70 / -10	0 - 6	7.5×9 5.5×2
EZW43T-36×4500	360	9	36/10	4500	4	+30 / -10	0 - 6	11×7 + 7.5×2 5.5×2
EZW43-40×2000	700	9	40/10	2000	3	+240 / -40	0 - 6	22×7 + 11×2 5.5×2
EZW43-40×3000	345	9	40/10	3000	4	+300 / -20	0 - 5	15×7 + 7.5×2 7.5×2
EZW43T-46×4500	345	7	46/12	4500	4	+90 / -20	0 - 6	15×7 + 7.5×2 11×2
EZW43-50×3000	245	7	50/10	3000	4	+70 / -5	6	26×2 + 17×3 4×2
EZW43T-60×2500	245	9	60/10	2500	3	+200 / -25	5	15×7 + 5.5×2 5.5×2
EZW43T-80×3000	360	7	80/30	3000	3	+120 / 0	6	30×3 + 5.5×4 13×2
EZW43T-90×3000	360	7	90/30	3000	2	+300 / -10	4.8	22×5 + 11×2 13×2
EZW43T-100×1500	345	7	100/25	1500	2	+200 / 0	4.5	11×7 7.5×2
EZW43T-120×3000	400	7	120/25	3000	3	+300 / 0	2.4 - 6	37×5 + 22×2 18.5×2

Roll counts refer to work rolls; back-up rolls are counted in rows. Motor power: main drive on the upper line, roll adjustment below.

*Capacity data based on the stated yield strength. Special configurations available to order.

Plate preparation for heavy machinery.

High-strength steel plate levelers for construction machinery manufacturing.



Roll-bank adjustment

Non-parallel roll banks and adjustable upper end rolls. Two independent drives raise or tilt the movable beam.

Application reference

SANY | EZW43-20×1500, 11 rolls, for high-strength steel plate.

Thin plate. Demanding applications.

Thin high-strength steel plate levelers for construction machinery manufacturing.



SANY | EZW43-10×1500 · 13 rolls.



Zoomlion | EZW43-8×1500 · 13 rolls.

Drive and support

Upper and lower work rolls driven by two motors; staggered back-up rolls and a closed frame.

Adjustment and maintenance

Two YEJ drives position the movable beam. The beam opens for maintenance. Electric dual-line centralized lubrication.

Siemens S7 PLC control

Editing, storage and recall of process parameters.

Protective features

Guards on rotating components and photoelectric protection at the plate inlet.

High-strength and armor plate.

Plate leveling with grouped roll drives and composite back-up rolls.



Baowu | EZW43CY-12×2200 for armor plate leveling.

17 rolls

EZW43CY-12×2200 configuration for armor plate.

Grouped drive system

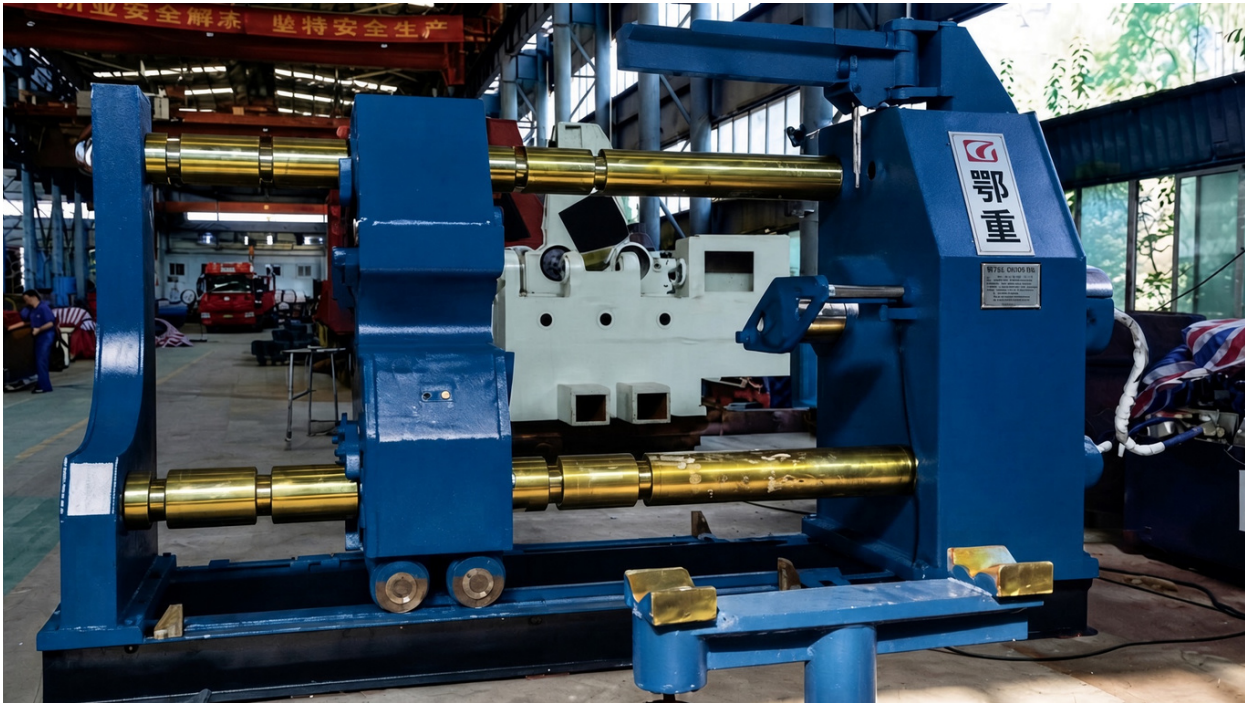
Coaxial drive at both ends of all 17 work rolls. Four planetary gearboxes connect to distribution gearboxes through gear couplings; distribution ratio $i = 1$.

Proprietary technologies

Proprietary patents: ZL 2016 2 1330433.4 and ZL 2016 2 1332160.7.

Shaft assembly and disassembly.

EZY92 horizontal hydraulic axle presses for fitting and removing components on shafts.



EZY92 SERIES

Nominal forces from 2500 to 10000 kN in the model table.

Applications

Press-fitting and removal of components on large shafts.

Industries

Metallurgy, mining machinery repair, machine manufacturing and large motor manufacturing.

Construction

Front fixed beam, movable beam, rear support, base, hydraulic system, carriage and electrical system.

Horizontal axle presses | EZY92 series

Technical specifications and protective features.

Model	Nominal force (kN)	Max. stroke (mm)	Max. wheel / shaft Ø (mm)	Max. insertion length (mm)	Pressing speed (mm/s)	Motor power (kW)	Overall dimensions (mm)
EZY92-2500KN / Standard	2500	700	1300 / 300	3500	0 - 4	18.5	6180×1280×2420
EZY92-3150KN / Standard	3150	600	1300 / 350	2200	0 - 4	18.5	5360×1200×2400
EZY92-3150KN / Long	3150	700	1850 / 600	3500	0 - 4	18.5	6940×1600×2560
EZY92-5000KN / Standard	5000	700	1850 / 350	3500	0 - 2	18.5	6990×1700×3000
EZY92-5000KN / Long	5000	700	1850 / 450	5000	0 - 2.5	18.5	8300×1800×3000
EZY92-6300KN	6300	800	2000 / 860	5000	0 - 2	20	8900×1880×2800
EZY92-8000KN	8000	800	2200 / 860	6500	0 - 2	22	9600×2800×3100
EZY92-10000KN	10000	1200	5000 / 800	7000	0 - 2	22	12800×5900×3700

Diameters: wheel / shaft. Length: maximum shaft insertion length.

Pressure and temperature

Pressure-switch shutdown protection and a relief valve. Air-cooled oil, with an alarm and automatic stop when the oil reaches 60 °C.

Control and stopping

Emergency-stop buttons on the fixed beam and control console. Interlocks in the control system.

*Nominal reference values. Equipment is subject to technical changes by the manufacturer.

Force for forming and straightening.

C-frame presses and large industrial presses.



C-frame hydraulic press | Henan Zhonghao.

C-frame presses

Press straightening, bending and stamping. Independent hydraulic and electrical systems, PLC control, and inching or semi-automatic operation.



Hydraulic press | Jiangsu Ronghao.

Large-press reference

Reference installation at Jiangsu Ronghao. C-frame construction is described separately on p. 31.

Forming bars, tubes and profiles.

Hydraulic 3-roll profile bending machine for rolling and re-rounding metal sections.



Roll movement

Fixed upper roll and two lower rolls moving along arcs, in the configuration described.

All rolls driven

All three rolls are driven, with reversible operation and side guides for workpiece control.

Options

NC control, variable speed, hydraulic supports and tooling for different sections.

Applicable sections

L angles · T, I, U and H sections · Flat, square and round bars · Round and square tubes

Models: THW24-16 · THW24-45 · THW24S-75 · THW24S-100 · THW24-140 · THW24-180 · THW24-320 · THW24-400 · THW24-500.

Process conditions and productivity.

Supplementary process and plant-operation guidelines.

Hot rolling

Stated temperature range: 850 to 1050 °C, depending on carbon content. Continuous hot forming requires overheating and burning of the material to be avoided.

Bearings and thermal design

For the hot-forming application described, the upper-roll bearings operate below 300 °C and the lower-roll bearings below 200 °C. A sensor is fitted in the upper-roll bearing housing on the drive side. Design considerations include roll materials and expansion, bearing selection, heat radiation and conduction, and oil cooling.

Plant integration

The customer must provide the workshop layout showing the plate rolling machine and heating furnace for project design.

Wind towers: production references

As an operational reference, one operator can produce a tower shell or component in 20 to 30 minutes, including tack welding. The annual reference is 200 complete towers with 2 to 3 shifts per day. Results depend on machine configuration and process.

Quality criteria

Accuracy of the rolled part; straight-end length after pre-bending; barrel or spool-shaped deviation; consistency of the cone angle.

Alignment and control

The alignment device on the infeed side support corrects axial and radial mismatch of the shell. Grippers move the plate ends to assist alignment. PGS graphical CNC guides automatic-cycle programming; the feeding table and supports assist positioning and tack welding.

*Productivity figures and operating parameters are EZHONG industrial reference values.

Configurations and construction features.

Further equipment details. Features and options depend on the project configuration and requirements.

Profile bending | Structure and control

Stress-relieved welded frame; hardened and ground shafts; hardened standard rolls. Three hydraulically driven rolls with planetary gearboxes, reversible rotation and automatic matching of peripheral speeds. Brakes assist accurate positioning. Mobile console, three digital readouts, two-axis hydraulic side guide rolls and two working speeds.

Profile bending | Configurations

Horizontal or vertical installation, with 3 + 3 manual side supports. Options: continuously variable speed, 3 + 3 hydraulic supports, NC control and tooling for tubes, profiles, HEB, IPN and UPN sections. The special translating-box design allows vertical upper-roll movement and horizontal lower-roll movement; it is distinct from the fixed-top-roll design with lower rolls moving in arcs. Pressure adjustment for thin materials and precision work.

Shipbuilding plate rolls | Drive and support

The range incorporates British Smith technology, separate lower-roll drives and mechanical synchronization through universal joints. Hydraulic plunger cylinders adjust the supports to compensate for roll deflection during forming.

4-roll plate rolls | Additional features

Forged, heat-treated and induction-hardened rolls; hydraulic balancing, cone-rolling device and two working speeds. Three digital displays, overload protection, hydraulic drop end and mobile console.

C-frame presses | Construction

The table, support and upper crossbeam are joined by five tie rods. Four hardened and chrome-plated guide columns guide the slide. The main piston cylinder is mounted on the upper crossbeam and connected to the slide by a flange. Forged steel cylinder body and induction-hardened piston rod. T-slots in the table and slide secure tooling. This description applies to the C-frame structure.

Plate leveling | Transmission

Grouped drives allow control of entry and exit speeds. In the 17-roll armor plate configuration, coaxial drive at both roll ends splits the torque between the ends, halving the torque in each drive shaft.

*Supplementary technical specifications; features and options are defined to meet each project's requirements.



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Confirm configurations and capacities with the manufacturer for each application.