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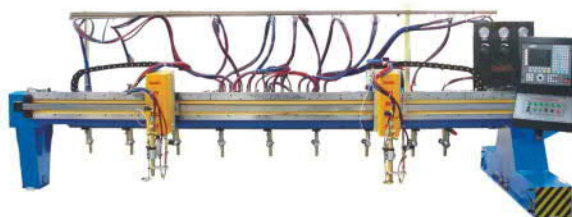
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Steel structure fabrication equipments

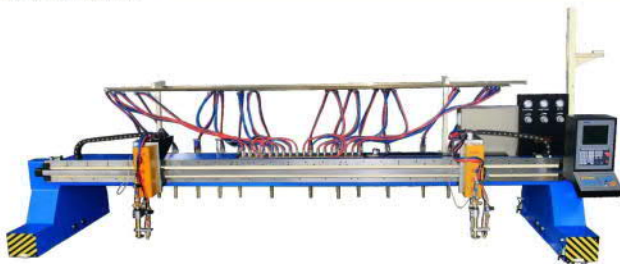
→ CNC CUTTING MACHINE

▶ CNC MULTI-HEAD FLAME CUTTING MACHINE

▶ SINGLE DRIVE



▶ DOUBLE DRIVE



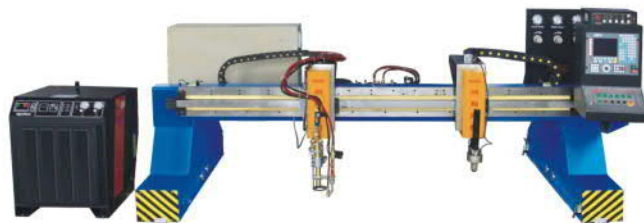
▶ TECHNICAL PERFORMANCE

This series of cutting machine is a high efficiency and high performance equipment, which uses gantry type, single drive or double drive, and combines CNC control, precision mechanism, and oxygen cutting. This machine uses advanced CNC system from abroad, such as Spanish Fagor and American Hypertherm. Its excellent cutting parameters, reliable and stable features ensures the perfect cutting effect. CNC flame torch has auto height regulator and auto ignition functions, which is convenient for use.

Gauge	Effective cutting width	Effective cutting length	Min. Distance of torch CNC Strip	Cutting depth	Cutting speed	Free running speed
3000-10000mm	2200-9200mm	Length of railway-2500mm	230mm 80mm	6-200mm	50-1000mm/min	≤6000mm/min

▶ CNC PLASMA CUTTING MACHINE

▶ SINGLE PLASMA



▶ DOUBLE PLASMA



▶ TECHNICAL PERFORMANCE

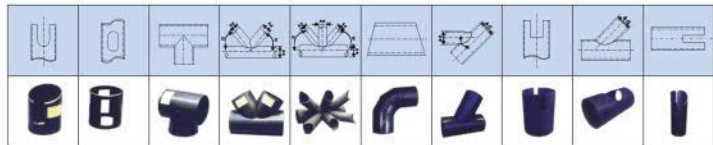
Accumulating several years' experience in cutting area, this series of CNC cutting machine is our latest excellent type. The transverse beam adopts wide buildup box structure, and has silky grand shape, fine steel performance, and stable running. This machine is fit for fast plasma cutting, and has a wide range of cutting, high efficiency, good quality, without smoke, less pollution of noise and arc light, less deformation of work-piece, and is also suitable for under-water cutting.

Gauge	Effective cutting width	Effective cutting length	Min. distance of torch	Cutting depth	Cutting speed	Free running speed
3000-10000mm	2200-9200mm	Length of railway-2500mm	230mm	≤75mm	50-3000mm/min	≤6000mm/min

→ CNC CUTTING MACHINE

▶ FLAME PLASMA INTERSECTION CUTTING MACHINE

▶ ZPB6140 FLAME PLASMA INTERSECTION CUTTING MACHINE



▶ ZPB680 Flame Plasma Intersection Cutting Machine



▶ ZPB440 Flame Plasma Intersection Cutting Machine



▶ ZPB560 Flame Plasma Intersection Cutting Machine

▶ TECHNICAL PERFORMANCE

ZPB560 CNC pipe Intersection cutting machine is special CNC equipment which is used for cutting metal pipe automatically. It can realize auto program and auto CNC nesting work for any complicated joint type of intertube and pipe and non-Intertube. And can cut any type welding bevel at one time. This product is widely used for steel structure, shipbuilding, bridge and heavy machine industries.

Model	ZPB-440	ZPB-660	ZPB-680	ZPB-6140
Moving axle number	4 axle	5 axle	6 axle	6 axle
cutting pipe dia.(mm)	Φ=60-400	Φ=60-600	Φ=120-800	Φ=200-1400
Plasma cutting pipe thickness	8 1= depend on plasma power			
Effective cutting workpiece length(mm)	L1=12000 (can be made according to customer's request)			
Request workpiece ovality	≤1%			
Cutting speed(mm/min)	V=10-3000			
Moving speed(mm/min)	V0=10-6000			V0=10-7900
Cutting torch axial swing angle	α=±45° (Plasma should not have current interruption)			
Flame torch cutting thickness(mm)	50			

EDGE CNC SYSTEM

EDGE Pro system

EDGE Pro CNC system is developed special cutting machine for plasma flame less high-voltage water by American HYPERHERM AUTOMATION company, based on WINDOWS interface operate CNC system. The system interface design more controlling adopt latest technology, with great function, convenient operation, having super hard disk and memory, 15 inch touch panel, USB interface parameter graphics basic, which is a most intelligent system for cutting process. Built-in work site and operation floor is having good feel operation arm, it makes convenient operation because of speed potentiometer and Cut torch position control.



SF-2200H CNC control system

SF-2200H CNC control system is designed by Beijing STARFIRE company with excellent function, reliable quality, practical function in CNC cutting machine, great cost performance. Use 10.4" color LED display screen, Chinese and English human-machine interface, parametric graphics library, very powerful cutting process and manufacturing function.



FAGOR8035 control system

FAGOR8035-CNC system is made by Spain FAGOR Company, which has excellent functions, reliable quality and flexible matching, features multi-language, PLC control unit, 5 color LCD and USB INTERFACE.



Shanghai Jiao Tong University CNC control system

It is industrial level CNC control cutting professional system, which is designed by Shanghai Jiao Tong University and our Zhoushan company's superior stability and mature cutting process ensure its long service life. Running with low cost. Use 15" LCD display, free for low consumption industrial level CPU, auto temperature level and vibration electronic hand data with USB interface.



CNC CUTTING MACHINE PLASMA POWER

CutMaster A120

With 80% powerful rated load cycle, the system can cut all day long even at full surrounding. It is easy to install at any time because it has portable design and practical foundation. The design of cutting torch valve shorten the changing time of components, thus improve productivity. Designing program can save the working position of cutting torch and alarms between automatic and manual cutting. Design of special software makes the system can be used in many field, such as thin material and pipe. It can prolong the load capacity time and improve the operating performance.



The new Auto-Cut XT systems deliver the next step in flexibility and reliability in heavy plate cutting applications.

1. Matchmaking Parts to Lower Operating Costs
2. Increased Productivity for Greater Profits
3. Wear Mit Secondary (WMS) for Low Cost, High Quality Cutting on Non-Ferrous



Hpr130 latest precision plasma cutting system

It saves half expense and brings incomparable cutting precision, whose through hole cutting thickness reaches 10mm and maximum current capacity. HPR130 has precision plasma no slag cutting quality, faster cutting speed and longer vulnerable life which is twice as long as other cutting system at the same time. During the whole vulnerable parts life cycle, Hypertherm's latest technology can stay high cutting precision, so that you can make records on board using HPR130, without replacing vulnerable piece.



AMERICAN VICTOR PLASMA POWER TECHNICAL PARAMETER

Name	CutMaster A40	CutMaster A80	CutMaster A80	CutMaster 120	AutoCut 100	AutoCut 200	AutoCut 300
Description	light-duty, common, inverter			heavy-duty, common			
carbon steel	Max perforation	6mm	10mm	12mm	18mm	15mm	25mm
	Best cutting	4mm	8mm	10mm	15mm	15mm	25mm
	Max cutting	15mm	20mm	25mm	30mm	35mm	50mm
stainless steel	Max perforation	6mm	10mm	12mm	18mm	15mm	25mm
	Best cutting	4mm	8mm	10mm	15mm	15mm	25mm
	Max cutting	15mm	20mm	25mm	30mm	35mm	50mm
Aluminum	Max perforation	6mm	10mm	12mm	18mm	15mm	25mm
	Best cutting	4mm	8mm	10mm	15mm	15mm	25mm
	Max cutting	15mm	20mm	25mm	30mm	35mm	50mm
voltage power	380V/6.3KW	380V/9KW	380V/12KW	380V/15.4KW	380V/16KW	380V/32KW	380V/48KW
current range	20-40A	20-60A	30-80A	30-120A	10-100A	10-200A	10-300A
cutting gas	air, the pressure to plasma inlet no less than 6.2bar				air, O ₂ , N ₂ , H ₂ , F ₂ (not pressure above 8bar)		
load cycle	60% (continuous working)				100% (continuous working)		

AMERICAN HYPERTHERM PLASMA POWER TECHNICAL PARAMETER

Name	PMX45	PMX65	PMX85	PMX105	MAXPRO200	HSD130	HPR130	HPR260
Description	light-duty, common, inverter				heavy-duty, fine-duty, quick oxygen cutting			
carbon steel	Max perforation	10mm	12mm	15mm	20mm	32mm	25mm	16mm
	Best cutting	8mm	10mm	12mm	12mm	20mm	16mm	12mm
	Max cutting	12mm	16mm	20mm	25mm	50mm	38mm	25mm
Aluminum	Max perforation	10mm	12mm	15mm	15mm	25mm	20mm	16mm
	Best cutting	8mm	10mm	12mm	12mm	20mm	16mm	12mm
	Max cutting	12mm	16mm	20mm	20mm	50mm	25mm	25mm
voltage power	380V/8.3KW	380V/8.4KW	380V/12KW	380V/18KW	380V/33KW	380V/19.5KW	380V/19.5KW	380V/45.5KW
current range	20-40A	20-65A	20-85A	20-105A	20-200A	130A	130A	260A
cutting gas	air, the pressure to plasma inlet no less than 6.2bar				air, O ₂ , N ₂ , H ₂ , F ₂ (not pressure above 8bar)			
load cycle	60% (continuous working)				100% (continuous working)			

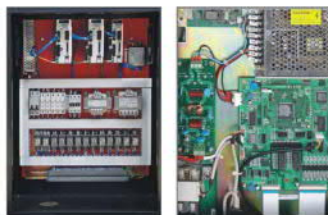
► CNC SERIES



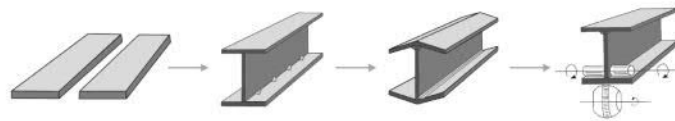
► JAPAN PANASONIC, FUJI WHOLE DIGITAL AC SERVO MOTOR



► HEAVY AND FEEBLENESS CURRENT CONTROL CABINET



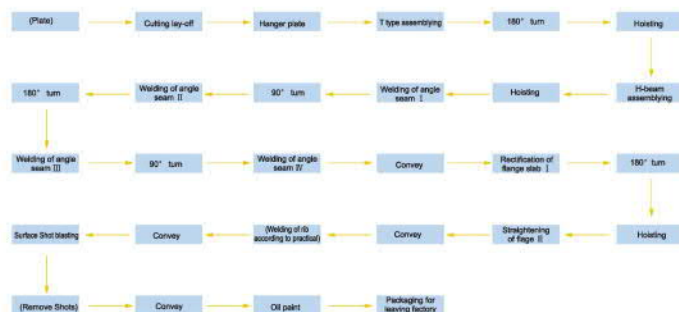
H-BEAM (LIGHT DUTY) PRODUCTION LINE



► Multiple strip gas cutting machine ► H beam assembling machine ► The gantry submerged arc welding machine ► H-beam straightening machine

The production line of common H type steel is made up of some mainly equipment such as multiple tip gas cutting machine, H-beam assembling machine, the gantry submerged arc welding machine, straightening machine and shot blasting machine etc. It is much flexible and can be operated independently by single machine on the manufacturing technology. In order to improve whole operating efficiency, it also can be added some devices discretionarily at different parts of technology.

► Steel structure Production Line

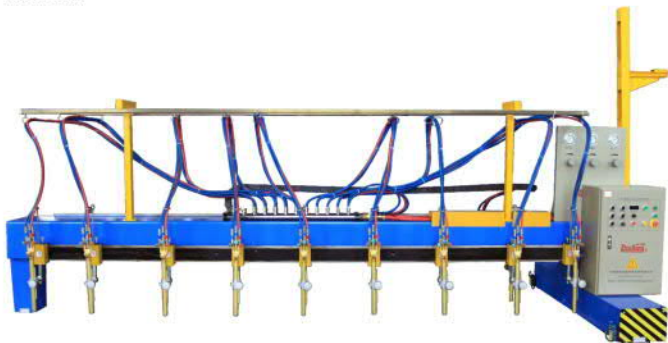


STEEL STRUCTURE PRODUCTION LINE

→ CNC MULTI-HEAD FLAME STRIP CUTTING MACHINE

> TECHNICAL PERFORMANCE

This series of cutting machine is a high efficiency and high performance equipment, which uses gantry type, single drive or double drive, and combines CNC control, precision mechanism, and oxygen cutting. This machine is a kind of plate cutting machine in high efficiency for straight plate, which the longitudinal cutting torches can be deployed according to the requirement. Many pieces of plates can be cutted at the same time.



VERTICAL ASSEMBLY MACHINE FOR H-BEAM

> TECHNICAL PERFORMANCE

The vertical assembly machine which the flange,web fastening and calibrating,positioning,and auto spot welding equipped,all of which accept the Japanese Mitsubishi programmable controller and the AC frequency converter so as to increase the productivity one times above comparing with common products,with the features of stable and reliable working state and the welding gun is equipped by the arc-tracing device to ensure the quality of spot welding.



Size of the web			Size of the flange			Assembling speed	Power Overall
Height	Thickness	Length	Width	Thickness	Length		
200-1500/1800/2000mm	6-32mm	4000-15000mm	200-800mm	6-40mm	4000-15000mm	0.5-6/min	9.5KW (two welding machines are excluded)



STEEL STRUCTURE PRODUCTION LINE



HEAVY-DUTY VERTICAL ASSEMBLY MACHINE FOR H-BEAM

TECHNICAL DATA

1. Workpiece specification
web plate: (height) 200~3000 mm; (thickness) 6~70 mm; (length) 4~15m
flange plate: (width) 200~1000 mm; (thickness) 6~80 mm; (length) 4~15m
2. Assembling: 0.65~6.5 m/min
3. Machine power
single machine: 11 KW (exclude welder)
match with heavy duty: 16.5 KW (exclude welder)

COMPONENTS OF MACHINE

Single machine is composed of main machine, drag bar box, input roller conveyor, output roller conveyor, electrical control box, operation box, hydraulic pump. The assembling machine match with heavy duty H beam production line, that should add one group of 90° over turning machine except assembling machine.

PERFORMANCE

1. Heavy assembling machine keep the function of light duty one that can auto centering and holding, to make the operation more convenient.
2. The auto centering mechanism of heavy duty assembling machine adopt hydraulic motor driving and gear transmission, to solve the shortages of light duty one oil cylinder stroke is limit and chain easy to be lengthen. Improving the running reliability of machine.
3. Heavy duty assembling machine can process much bigger size H beam according to customer's requirement.



STAR BEAM ASSEMBLY MACHINE



TECHNICAL PERFORMANCE

Star beam assembling machine is a special machine which assembles welded H beam and T beam to be star beam. It adopts frequency speed adjust mode to control assembling speed, through hydraulic system(hydraulic station, hydraulic motor, hydraulic oil cylinder)to positioning and clamping workpiece. It also adopts encoder and digital display meter to inspect and set up positioning size, and does spot welding with manual welding mode.

Web plate height	200~1000mm	Flange plate thickness	12~70mm
Web plate thickness	12~60mm	Assembling speed	0.5~6m/min
Flange plate width	200~800mm	Machine power	20.7KW



STEEL STRUCTURE PRODUCTION LINE



H-BEAM ASSEMBLING, WELDING AND STRAIGHTENING INTEGRAL MACHINE

INTRODUCTION

This is a special machine for H beam assembling, welding and straightening. It combines the three processes into one machine, thus improves productivity, reduces cost, and saves the installation space. It can produce H beam and T beam with high efficiency.



PERFORMANCE AND CHARACTERISTIC

1. the main assembling machine adopts heavy duty assembling structure which has applied invention patent, web plate and flange plate centering and positioning automatically, to make the assembling precision and efficiency greatly improved.
2. Firm welding torch fix mechanism is set up separately, it not only can adjust height and horizontal moving position, also can adjust the angle of welding torch on two directions, it guarantees the nice seam form.
3. assistant straightening machine has special designed structure, the two straightening rollers can straighten workpiece automatically under the pushing of oil cylinder, straightening mechanism will not block the line of sight on seam, it is convenient to see the adjustment of welding torch and seam quality.
4. Assembling machine and assistant straightening machine can be discharged and work separately.
5. Assistant straightening machine can work as small straightening machine after refit.



TECHNICAL PARAMETER

Web plate height	Web plate thickness	Straightening speed	flange plate width	flange plate thickness	main machine power
200-1500mm	6-14mm	0.35-3m/min	200-800mm	6-20mm	17.5KW

H-BEAM HORIZONTAL PRODUCTION LINE



INTRODUCTION

1. Adopting horizontal assembling made h-beam can be a shape to improve assembling efficiency.
2. Adopting horizontal welding to reduce welding deformation.
3. Adopting single arc double wires method to improve welding speed.



INTRODUCTION

H-beam steel Horizontal production line consists of assembling machine, auto welding machine, overturning machine and input/output conveyor. It is suitable for H-beam (light duty) volume-produce. The production efficiency is 1.5 times that of the ordinary steel.



TECHNICAL PARAMETER

Web height	Web thickness	Welding speed	Flange width	Flange thickness
300-1500mm	3-12mm	0.3-1.8m/min	150-500mm	5-20mm

STEEL STRUCTURE PRODUCTION LINE

→ H-BEAM AUTO-WELDING MACHINE

► PERFORMANCE AND CHARACTERISTIC

The auto-welding machine for H beam accepts the AC frequency converter to control speed with the merits of stable and reliable running and quick returning. It uses the auto-arc tracing & centering device to ensure the welding gun being auto and correct centering to the target workpiece. Meanwhile, it is equipped with the auto welding flux feeder and recovery system, easy operating and high efficiency. And the column-beam welding machine can increase the height of web according to the need of users.



LMH-4000



SXBH20

► TECHNICAL PERFORMANCE

Model	Height of web	Width of flange	Model of welder	Mode welding	Welding speed	Returning speed	Rails span	Overall Power
LMH-4000	200-1500mm	200-800mm	Two sets of model HQ-11000 auto submergence welders	boat-type welding	0.15-1.0m/min	3m/min	4000mm	9.6kw
SXBH20	200-2000mm	200-800mm	Two sets of model HQ-11000 auto submergence welders	boat-type welding	0.15-1.0m/min	3m/min	2000mm	10kw



→ H-BEAM FLANGE STRAIGHTENING MACHINE

► TECHNICAL PERFORMANCE

This machine is a special equipment for leveling the H-beam flange whose figure was deformed when it being welded. It has the feature of easy operating, high efficiency, reliable working etc.



Model	JZJ-600	JZJ-800
Width of flange	150-600	200-800
Thickness of flange	≤20mm	≤40mm
Min height of web	160mm	350mm
Material	Q235-A	Q235-A
Straightening speed	8.5m/min	9m/min
Power of over all machine	6.6kw	13.2kw



JZJ-800

JZJ-600

STEEL STRUCTURE PRODUCTION LINE



H-BEAM SHOT-BLASTING AND CLEANING MACHINE

TECHNICAL PERFORMANCE

H-beam shot-blasting and cleaning machine with HGP continuous rolling series is researched and developed in accordance with the features of the steel structure. The machine is adopted with computer 3-dimension dynamic simulating design to locate the position of the shot-blasting machine. The machine is equipped with a highly efficient filter-barrel pulse back-blowing dust removal.



FILTER CYLINDER DUST REMOVAL



Operating



Feed



Doling



Discharge



Partial Effect

MAIN TECHNICAL PARAMETER:

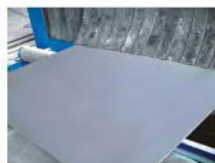
Type		HGP0816	HGP1018	HGP1220
Size of the work-piece	Section (width × height)	800 × 1800mm	1000 × 1800mm	1200 × 2000mm
	Length of the work-piece	3000 × 12000mm	3000 × 15000mm	3000 × 15000mm
Quality Standard	Clearness of the surface	A-B Sa2-Sa2 1/2	A-B Sa2-A-B Sa2 1/2	A-B Sa2-A-B Sa2 1/2
	Roughness of the surface	15-50 μm	15-50 μm	15-50 μm
Shot-blaster	Qty	8	8	8
	Quantity of shot-blasting	8 × 200kg/min	8 × 200kg/min	8 × 200kg/min
Inlet and outlet conveyor	Power	8 × 11KW	8 × 11KW	8 × 11KW
	Allowable load	1000kg/m	1000kg/m	1000kg/m
Conveying speed	Conveying speed	0.5-5m/min	0.5-5m/min	0.5-5m/min
	Ventilation capacity	12000m³/h	12000m³/h	12000m³/h
Circulating quan of the shots	Conveying speed	120T/h	120T/h	120T/h
	Nominal Size(L × W × H)	6770 × 2100 × 2900mm	7200 × 2300 × 3250mm	7200 × 2520 × 3650mm
Depth of the pit	Depth of the pit	1800mm	1950mm	1820mm
	Total power	140KW	140KW	140KW

SHEET SHOT BLASTING MACHINE



TECHNICAL PERFORMANCE

BP/HGP steel sheet shot blasting machine is mainly used to clean the surface of steel sheet and small profile beams. After clean by steel shots, the rust, dust, oxidized skin can be removed, the materials anti-wear strength is improved, the surface and inside quality is promoted. This equipment is widely used for chemical, ship yard, metal structures, steel products, rail vehicles, engineering machinery and bridge industry.



MAIN TECHNICAL PARAMETER:

	Model	BP2500-6	HGP2224-12	BP-3500-12
Size of work piece	Section (W × H × L)	2500 × 400 × 15000mm	2200 × 2400 × 15000mm	2500 × 1200 × 1500
	Speed	0.5-5m/min	0.5-5m/min	0.5-5m/min
	Power	3 × 3kw	3 × 5.5kw	3-5.5kw
conveyor	Model	QD34 II	QD34 II	QD34 II
	Shot blasting speed	60-70m/h	60-70m/h	60-70m/h
	No swirl power	6 × 18.5kw	12 × 18.5kw	12 × 18.5kw
Shot blaster	Power	7.5kw	15kw	11kw
	Conveying capacity	120T/h	180T/h	180T/h
Longitudinal conveyor	Power	5.5kw	7.5kw	7.5kw
	Conveying capacity	120T/h	180T/h	180T/h
Feeding conveyor	Power	2 × 4kw	4kw + 5.5kw	4kw / 5.5kw
	Model	LMC-16	LMF-11	LMC-26
Dust collection system	Ventilation capacity	24000m³/h	24000m³/h	20000m³/h
	Model	4-72-SA	4-72-8C	4-72-8C
Centrifugal ventilator	Power	15kw	23kw	23kw
	Ventilation capacity	6752m³/h	6752m³/h	6752m³/h
Cleaning system	Power	18.5kw	15kw	18.5kw
	Overall power	154kw	214kw	270kw
Overall dimension	Overall dimension	7900 × 3100 × 3300mm	6750 × 3600 × 4580mm	7900 × 4100 × 4300
	Height overground-underground of main machine	6500mm-2400mm	8200mm-2200mm	6500mm-2000mm

STEEL STRUCTURE PRODUCTION LINE



GGP1050 PIPE SHOT-BLASTING MACHINE

FUNCTION DESCRIPTIONS

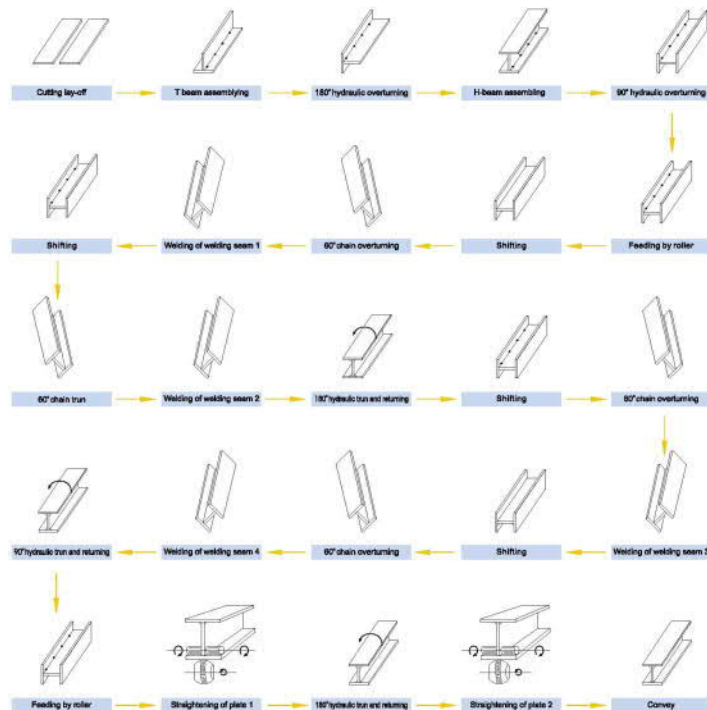
Pipe shot-blasting machine is widely used to clean the small and medium size pipes. The work-piece rotate and run automatically on the conveyer roller which has a "V" type roller, the rust, oxidized skin can be removed. The running speed of the work-piece can be adjusted according to the requirements of the surface quality.



MAIN TECHNICAL PARAMETER:

Model	GGP1050	
Specification	≤ Φ1050	
Length	3000-12000mm	
Convey roller	Core-shape rotating speed	1.2-12rpm
	Power	3KW
	Roller frame	2X11000 mm
Shot-blaster(4sets)	Shot blasting speed	65-70m/s
	Power	4X11KW
Elevating machine	Power	5.5Kw
	Conveying capacity	50th
Lengthways screw conveyor	Power	4Kw
	Ventilation capacity	8000 m3/h
Dust collection system	Dust removal fan model	4-72-4.5A
	Power	5.5Kw
Total power	68Kw	
Standard of dust removal	Se2-2.5 GB8923-88	
Overall dimension(L×W×H)	7800×2000×3120mm	

TECHNICAL PROCESS OF H-BEAM(HEAVY STEEL) AUTOMATIC WELDING PRODUCTION LINE



STEEL STRUCTURE PRODUCTION LINE



VERTICAL ASSEMBLY FOR HEAVY DUTY



TECHNICAL PERFORMANCE

The vertical assembly machine which the flange, web fastening and calibrating, positioning and auto spot welding equipped, all of which accept the Japanese Mitsubishi programmable controller and the AC frequency converter so as to increase the productivity one times above comparing with common products, with the features of stable and reliable working state and the welding gun is equipped with the arc-tracing device to ensure the quality of spot welding.

Web of Size	Height	200-2000mm
	Thickness	6-32mm
	Length	6000-15000mm
Size of Flange	Width	200-800mm
	Thickness	6-40mm
	Length	6000-15000mm
Assembling speed	0.5-6m/min	
Machine power	16.5KW (Two welding machines are excluded)	



TURNING AND CONVEYING MACHINE



TECHNICAL PERFORMANCE

In order to improve manipulating and conveying efficiency and to reduce the usage frequency of moving the machine, we provide the chain manipulator, the conveyor for steel overturning support to realize automatic conveying and manipulating for the whole welding and straightening course.



180° HYDRAULIC OVERTURNING MACHINE

TECHNICAL PERFORMANCE

Moving type 180° overturning machine is composed of main machine, hydraulic system and electrical control system. Main machine is composed of 90° overturning arm, base frame, moving wheel group, moving motor gearbox box and rail.

When working away from roller conveyor, gear motor driving two groups overturning frame moving simultaneously, to make workpiece moving to the side of roller conveyor, and finally oil cylinder push arm to turning workpiece 180°, and then moving to roller conveyor and conveying, cable oil pipe adopts drag link packing, safety and beauty, reliable, the total machine structure is compact and operation is simple.



180° hydraulic overturning machine

Suitable work-piece weight	≤15T
Max section dimension of overturning work-piece	800 × 1500mm
Moving motor power	2 × 1.5KW
Moving speed	6m/min
Overturning cylinder diameter	φ140mm
Max pressure of hydraulic system	25Mpa
Power of the machine	18.9KW



STEEL STRUCTURE PRODUCTION LINE



YJZ60C HYDRAULIC STRAIGHTENING MACHINE



TECHNICAL PERFORMANCE

YJZ60C hydraulic straightening machine is oil cylinder down press type straightening machine, its straightening capacity is the same as YJZ-60B, but straightening range is wider than YJZ-60B (flange plate can be 1000mm), and two upper press cylinder can do straightening work separately to straightening asymmetry deformation. The producing cost of down press type straightening is lower than up-lift type, no need elevating roller conveyor and universal joint.

YJZ60B/YJZ80B HYDRAULIC STRAIGHTENING MACHINE

TECHNICAL PERFORMANCE

This machine is the special equipment used to straighten the deformed H-beam flange. The hydraulic straightening machine (YJZ60B, YJZ80B) oil cylinder up-lift type straightening machine, has capacity of correction, wide range, and high automation.



Descriptions	YJZ60B	YJZ80B	YJZ60C
Width of flange	160-800mm	200-1000mm	200-1000mm
Thickness of flange	≤60mm	≤80mm	≤60mm
Min height of web	350mm	350mm	350mm
Material	Q345(16Mn)	Q345(16Mn)	Q345(16Mn)
Straightening speed	6.15m/min	6.66m/min	6.15m/min
Total Power	37kw	28kw	27.5kw

CANTILEVER WELDING MACHINE

TECHNICAL PERFORMANCE

XBH type column-beam welding machine adopts the imported AC transducer. The equipment is stable and reliable in operation, and has the quick move-back function. The tracking arc-guide mechanism is three-spindle tracking system to guarantee the alignment and not bias on the weld. The main frame and the welding machine are performed integrated interlocking and the equipment is provided with flux auto-recovering system and it is easy controlled, and highly efficient.



Type	XBH
Height of web(mm)	200-2000mm
Width of flange(mm)	200-800mm
Length of H-beam	4000-18000mm
Welding machine	W2-1-1000A is adopted two sets of model W2-1-1000A multi-arc non water
Welding mode	Ship-welding
Welding velocity	0.3-1.5m/min
Reverse velocity	3m/min
Track distance	1150mm
Power of the assembling machine	4.75kw (Welding machine is excluded)

YJZ60D HYDRAULIC STRAIGHTENING MACHINE

TECHNICAL FUNCTION

This machine is different with YJZ-60B hydraulic straightening machine, and uses the structure of JZJ-800 mechanical one, the two upper rollers press down. But it uses oil cylinder, instead of reducer, to drive the rollers. This machine has the following features:

- Both sides of flange can be straightened separately to gain better effect.
- Conveying Roller doesn't elevate, thus save cost and operate easily.

Thickness of plate	8-60mm (8-60mm for Q345)
Width of flange	200-800mm
Height of web	>190mm
Material	Q235-A
Straightening speed	8.8m/min
Main transmission motor power	15kw
Hydraulic pump power	5.5kw
Working pressure	25Mpa



Flange width and thickness should be in accordance with the following list

Thickness	6-20	20-30	30-40	40-50	50-60
Width	200-400	350-600	500-800	650-800	750-800

BOX BEAM PRODUCTION LINE SERIES EQUIPMENT



VERTICAL DIAPHRAGM ASSEMBLY MACHINE MODEL NO.GZ15

TECHNICAL PERFORMANCE

This machine is the special equipment to assemble and weld the middle diaphragms in BOX type beam. When assembling, adopt the cylinder compacting to determine the position, then weld them by spot. After finish to weld one face, then turn over the rotation work table for 180 degree through motor. After weld the another face, Turn the work table to the level, loose the Cylinder and unload forworing.



BOX BEAM OVERTURNING MACHINE



➤ Moving type 90 degree hydraulic overturning machine



➤ Moving type 180 degree hydraulic overturning machine

VERTICAL ASSEMBLY MACHINE MODEL NO.UZJ12



GANTRY TYPE BOX BEAM WELDING MACHINE MODEL NO.LMHA-4000



TECHNICAL PERFORMANCE

It is the welding supplementary machine for special use that design for box-beam welding(flat angle welding seam). The machine use gantry style main struture, driving in double-sides, controlled the speed steplessly by converter; Tracing of welding seam uses the type of mechanic guiding roller; The up-down and right-left operation is controlled by pneumatic technology; In order to improve the efficiency of big fillet welding, it is equipped with big electric current and double machine head(single welding seam)to process double arcs and double wires weldings, installation of the machine head is separated from arc-guiding mechanism; The device which is used to protect solder, avoiding too much solder drop down/lay-up of workpiece can use fixed frame and it can also be transmitted by roller, so it can from an assembly line with other sets of machines



Box-beam arc guiding rack



Box-beam control system



H beam steel arc guiding rack



Width of applicable box-beam	Height of applicable box-beam	Welding speed	Returning speed	Welding position	Total power
300~1200mm	300~1200mm	0.17~3.4m/min	6.8m/min	Horizontal welding	9KW



Triple wires with triple arc (2DC+AC)



Twin wires with twin arc (DC+AC)

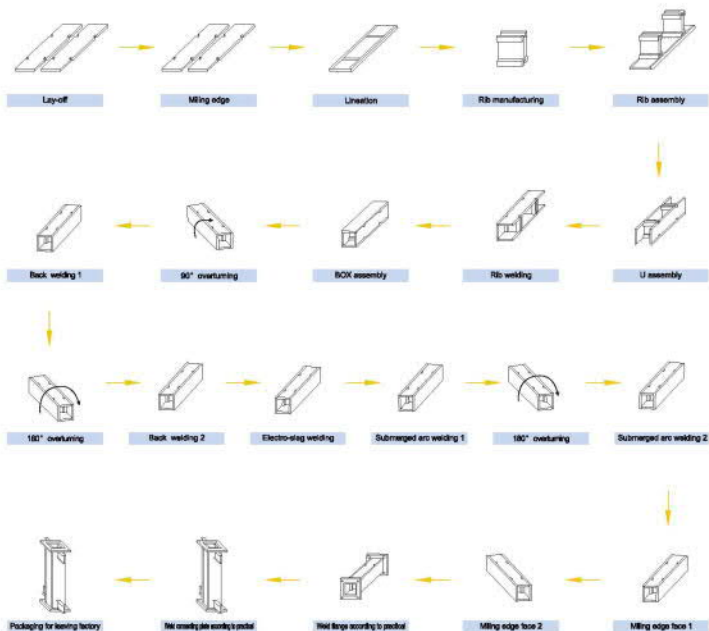


Gate double thread gas shield welding padding machine

BOX BEAM PRODUCTION LINE SERIES EQUIPMENT



TECHNICAL PROCESS OF WELDING BOX BEAM



BOX BEAM PRODUCTION LINE SERIES EQUIPMENT



TECHNICAL PERFORMANCE

This production line is mainly made up by CNC/Multi-head Strip Cutting Machine, U type /Box type integral assembling machine, cantilever back machine, Cantilever Electric slag-welder, Cantilever submerged arc-welding Machine, Terminal Surface Mill, Edge Miller, Baffle Assembling Machine, Roll Table and other complements.

Length	4000-15000mm
Sectional size	300×300mm ² -1200×1200mm ²
Thickness	20-80mm



U TYPE AND BOX TYPE ASSEMBLY MACHINE MODEL UBZJ12

TECHNICAL PERFORMANCE

This is the special machine for assembling the U type and box type beam, it is composed of main machine, roller conveyor, centering device, positioning device, hydraulic system and electrical control system. This machine adopt workplace fixed, but machine moving type, hold down workplace with some places and manual welding the workplace after holding.

The characteristic of this machine: finish U type assembling and box type assembling on the same machine, it reduces the cost and saves layout space.



BOX BEAM PRODUCTION LINE SERIES EQUIPMENT



CANTILEVER TYPE(NOZZLE MELT) ELECTRO-SLAG WELDING MACHINE MODEL XDZ-12



CANTILEVER TYPE(WIRE MELT) ELECTRO-SLAG WELDING MACHINE MODEL XDZ-12



TECHNICAL PERFORMANCE

XDZ-12/25 series box beam slag welder is a special equipment for box beam baffle welding, which adopts baffle and surround steel plate welding head in vertical slag welding way.

According to customers' different requirement, there are two ways of box beam slag welding: wire melt and nozzle melt. Welding speed of wire melt slag welding is faster and lower welding cost, but higher equipment cost and more complicated control system; nozzle melt slag welding is lower equipment cost and simple operation, but the welding efficiency is lower than wire melt slag welding.

Wire melt slag welding is suitable for big quantity box beam production, while nozzle melt slag welding is suitable for small quantity.

Trolley gauge	1000 mm
Trolley traveling speed	6 m/min
travelling motor power	0.55 KW
suitable workpiece size	300—1200 mm

XXBC-12 MODLE CANTIEVER TYPE BACK WELDING MACHINE

STRUCTURE AND PERFORMANCE

Cantilever type back welding machine is usually used before SAW welding in box-beam manufacturing process, this machine can prevent the workpieces welding seam to be burned through, and it is composed of travelling cart, welding arm, welding gun tracking device, pneumatic system, electrical control system, flux recovery system, CO₂ welding power and so on.

For box-beam back welding, it usually adopts single arc single wire, also can use double arc double wire. The welding power is Panasonic YD-800KH.

Width of applicable box-beam	300—1200mm
Length of applicable box-beam	4000—15000mm
Welding speed	0.3—1.5m/min
Returning speed	3m/min
Welding position	Horizontal welding



SUBMERGED ARC WELDER



▶ Lincoln AC-1200 submerged Arc welder



▶ AC 1250 submerged Arc welder



▶ Lincoln DC-1000 SAW welder



▶ ZXS-1000 Arc Welding(AW) rectifier



▶ ZD7-1000 XBT Inverter Arc Welder

BOX BEAM PRODUCTION LINE SERIES EQUIPMENT



XXBH-12 CANTILEVER TYPE SUBMERGED ARC WELDER(SINGLE ARC SINGLE WIRE)

► STRUCTURE AND PERFORMANCE

This machine is composed of traveling cart, welding arm, welding gun mechanical tracking device, pneumatic system, electrical control system, flux feeding and recovery machine and submerged arc welding power. It is mainly used for welding the box beam.

There are two kinds of welding method for box-beam SAW welding, single arc single wire and double arc double wire. For single arc single wire welding, the welding power can be domestic-made or foreign-imported; while for double arc double wire welding, usually equipped with welding power American Lincoln DC-100, AC-1200 to improve work efficiency.

Suitable workspace size	300~1200mm
Welding speed	0.3~1.5 m/min
Return speed	3 m/min
Cart gauge	1400 mm
Gas power pressure	0.4~0.8 Mpa



CNC/DX1215 CNC FACE MILLING MACHINE

► STRUCTURE AND PERFORMANCE

CNC face milling machine is made up of milling head, elevation column, work table, bed, mechanical feeding system, electric control system, CNC system, guideway protective device and miller. It is used for two ends of H-beam and box column welding and rolling face milling and processing. The Max. workplace milling face size is 1200×1500mm; min. workplace face is 300×200mm, also it can mill the side face of H-beam steel and box column. It is convenient operation, simple structure and fast adjustment, which is necessary equipment for profile steel professional manufacturer. The slide feeding and milling head elevation of this machine adopt Guangzhou CNC DA98A drive servo motor. DA98A AC servo system is the first domestic-made all digital AC servo system, adopting American IT company latest digital signal processing (DSP/TMS320F2407A) large-scale programmable door array(CPLD)and MITSUBISHI intelligent power module(IPM), high integration, small volume, complete protection and good reliability, adopting good PID accumulation to finish PWM control and the performance meeting product's international level.



FACE MILLING MACHINE MODEL NO.DX1215



DX1215 Face Milling Machine



Finish Box Beams

► STRUCTURE AND PERFORMANCE

The face miller consists of milling and cutting head, lifting upright column, work table, machine body, mechanical feeding system, electrical control system, mill protection device, tools, etc.

This machine is used to weld or roll the shaped H type steel or mill two end faces of BOX type steel. Thermax. Milling end face is 1,200×1,500 mm, the min. Workplace end face is 300×200 mm-shaped steel, it is also used to mill the H type steel or the side face of BOX type steel. It features easy operation, simple structure, quick adjustment and so on as one of necessary equipments of welding shaped steel professional manufacturer.

BOX BEAM PRODUCTION LINE SERIES EQUIPMENT

EDGE MILLING MACHINE

12M DOUBLE HEAD MILLING MACHINE



Material supporter

16m double head milling machine

STRUCTURE AND PERFORMANCE

Compared with the traditional edge milling machines, this machine series is dismantlable in their tracks, more rational in structure by heat-treatment of the bench, more reliable and stable in the milling & turning heads running. The feed and feed-back systems are fully independent respectively. The feed-back is quick and is highly efficient. The angle of the milling tools tray is convenient in adjustment, and the custom-built tool rest and the normal tool rest can be inter-converted. They are the updated products of the traditional edge milling machine.

MAIN TECHNICAL PARAMETER

Type	XSL-6	XSL-8	XSL-12
The angle milling		0-45°	
The thickness of being processed steel plate (mm)		6-60	
The traveling speed of crosswise milling (m/min)		0.1-1m/min	
Back stroke milling speed (m/min)		2m/min	
The removed of milling surface (m/min)		80-400	
The working pressure of hydraulic pressure system (Mpa)		<2.5	
The numbers of the cylinders	8	11	15
The height between the platform and the ground (mm)		900	
The power of driving motor (kw)		1.5kw	
The power of milling motor (kw)		5.5kw	
The power of oil pump motor (kw)	5.5	5.5	5.5
The overall size of the machine (L×B×H) (mm)	8680×2800×2100	11880×2800×2300	14200×2800×2400



Taiwan driving head



In milling process

18M PRESSURE BEAM MOVING TYPE MILLING MACHINE



STRUCTURE AND PERFORMANCE

This equipment is a large milling machine, and both sides can also edge milling. It has only four power installation head on the tool body to improve processing efficiency. The pressure beam machine adopts moving type. In the process it is convenient for users to feed materials, and after processing easy to laying-off so that improve working efficiency. Comparing with traditional milling machine it is more flexible and high efficiency.

MAIN TECHNICAL PARAMETER

Model	YQSL-18
Workpiece thickness	10-100mm
Workpiece width	300-1100mm
Workpiece length	<18000mm
The traveling speed of milling	130-1200mm/min
Back stroke milling speed	1000mm/min
Working pressure of hydraulic pressure system	0.5-0.5 Mpa
Moving distance	1000mm
Power of driving motor	1.5kw
Power of milling motor	7.5kw
Pressure beam moving motor power	2 X 1.5 kw
Pressure beam Press tool number	10

BEVELING EQUIPMENT

MILLING AND BEVELING MACHINE

The beveling machine adopts with the milling principle to mill the angle for the edge of the steel plate, and to get the groove for welding. The machine is accurate in size, bright and smooth in surface, and is formed once. There is no need to make de-burring. It's convenient in operation, very high in working efficiency (3m/min) and low in energy consumption.



MAIN TECHNICAL PARAMETER

Model	GD-20		
The material of the steel plate	Q235	16Mn	IC18Ni5Ti
The max groove width (mm)	20	16	12
The beveling angle	25°-55°		
The min straight edge (mm)	2		
Max thickness (mm)	40		

BOX BEAM PRODUCTION LINE SERIES EQUIPMENT



CNC DRILLING MACHINE

▶ ZPZ 400 CNC DRILLING MACHINE



▶ STRUCTURE AND PERFORMANCE

ZPZ160A digital control driller employs AC servo motor to drive the X axis and Y axis, while its Z axis is positioned by high accuracy raster. By using semi-closed closure digital control system, the machine has reliable performance. The operation of the machine can either be automatic or manual. This machine is widely used in steel frame construction.

▶ ZPZ 200 CNC DRILLING MACHINE



▶ MAIN TECHNICAL PARAMETER



Item	ZPZ160	ZPZ200	ZPZ400
Drilling diameter	φ50	φ60	φ60
Max. dimension of workpiece	1600 x 1000 x 80	2000 x 1500 x 80	2000 x 1500 x 80
Rotary speed of main shaft	130~400r/min, Step less and adjustable	130~400 r/min, Step less and adjustable	130~400 r/min, Step less and adjustable
Feeding type of main shaft	Hydraulic	lead screw	lead screw
Quantity of moveable working platform	2	2	2
Workpieces can be toolled for once	4pcs	4pcs	4pcs
Clamping type	Hydraulic	Hydraulic	Hydraulic
X and Y axis fast moving speed	12m/min	12m/min	12m/min

BOX BEAM PRODUCTION LINE SERIES EQUIPMENT

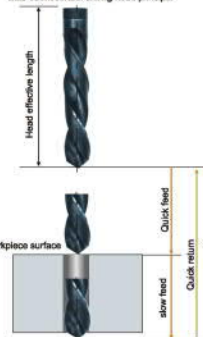


CNC DRILLING MACHINE

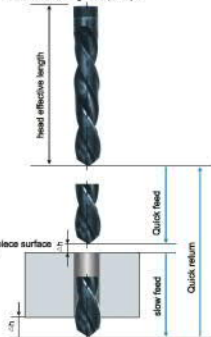
► ZPZ 160 CNC DRILLING MACHINE



auto strokecontrol drilling head principal



Traditional drilling head principal



- A. hydraulic clamp hold and loose
B. driving feed movement of main shaft
C. locked gantry frame, guarantee drilling position and size precision

MANUAL WELDING SERIES



MODEL IGBT INVERTER DC MANUAL ARC WELDER



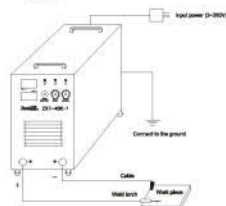
ZX7-160-1

ZX7-315-1

ZX7-500-1

► TECHNICAL PERFORMANCE

1. Adopting IGBT inverter technology and advanced control circuit
2. Featuring excellent quiet & active character, easy arc starting & stable welding
3. Set a function of current preplacement for easy operation
4. Heaving fine protecting functions including over current, overheating and undervoltage
5. Applied to many kinds of welding rods including acid, alkali and fibrous



Item	Type	ZX7-160-1	ZX7-315-1	ZX7-400-1	ZX7-500-1	ZX7-630-1
Rated input voltage		220V 50Hz	3~380V 50Hz			
Rated input current		24A	20A	28A	40A	52A
Rated input capacity		5.2KVA	12KVA	16.5KVA	24.3KVA	33.2KVA
No-load voltage		56V		65-75V		
Current range		20A/20.8V 160A/26.4V	35A/21.2V 315A/32.6V	40A/21.6V 400A/36V	50A/22V 500A/40V	63A/22.5V 630A/44V
Rated load cycle				60%		
Efficiency				$\eta \geq 0.85$		
Cover protective degree				IP21		
Cooling mode				Wind cooling		
Weight		12kg	41KG	45KG	48KG	52KG
Dimension(L×W×H)		355 × 155 × 255	590 × 310 × 540		650 × 310 × 540	

MANUAL WELDING SERIES

ARC WELDING(AW) RECTIFIER



ZX5-400



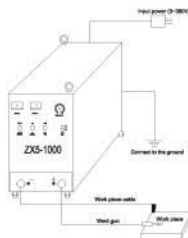
ZX5-630



ZX5-1000

TECHNICAL PERFORMANCE

1. Mature technology, high reliability, wide suitable range, high efficiency and remarkable electricity saving
2. Reliable arc starting, stable arc, little spatter
3. Real heavy load machine, it can compete for heavy work.
4. It has function of thrust current, blow force current and interruption arc; it has auto compensation function to network voltage fluctuation and the current adjust range is wide.
5. Wide suitable range, it can weld mild steel carbon steel, alloy steel and stainless steel with different kind of welding rod.
6. It can also used as carbon arc gouging and auto submerged power
7. It is widely used in steel construction, chemical, dead-hard steel



Type	ZX5-400	ZX5-500	ZX5-630	ZX5-800	ZX5-1000	ZX5-1250	ZX5-1500	ZX5-1000
Rated input voltage	3-380V 50Hz							
Rated input capacity	23kVA	30kVA	47kVA	55kVA	67kVA	83kVA	67kVA	89kVA
No-load voltage	63V	63V	72V	72V	72V	72V	72V	80/90V
Rated load cycle	100%	60%	100%	60%	100%	60%	100%	100%
Rated load current	400A	500A	630A	800A	1000A	1250A	1000A	1000A
Current range	40-400A	50-500A	60-630A	80-800A	150-1000A	250-1250A	150-1000A	150-1000A
Weight	160kg	200kg	300kg	380kg	520kg	580kg	520kg	620kg
Dimension(L×W×H)	760×450×800 940×570×1000 1060×620×1170 1300×680×1300 1500×720×1570							

MODEL IGBT INVERTER MULTI-PURPOSE PULSE ARGON ARC WELDER



WSE-200



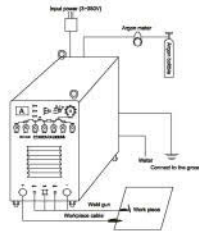
WSE-315D



WSE-500D

TECHNICAL PERFORMANCE

1. Four kinds of working modes including AC square wave TIG weld, DC pulse TIG weld, DC TIG weld and DC manual weld
2. Excellent performance of high frequency arc starting, success probability of arc establishment is close to 100% even at the moment of small current when AC TIG weld
3. Adopting IGBT inverter technology, AC/DC arc is quite stable
4. Insert electric stable arc device to avoid high frequency voltage for stable arc burning welders
5. Having fine protecting functions including overheating, undervoltage, over voltage.



Item	Type	WSE-200	WSE-315D	WSE-500D	WSE-630D
Rated input capacity	220V 50Hz	3-380V 50Hz			
Rated input capacity		7kVA	12.5kVA	24kVA	38kVA
Rated input current		28.4A	19A	37A	55A
Rated output current		200A	315A	500A	630A
Current range		10-200A	10-315A	20-500A	50-630A
Pulse peak current range		10-200A	10-315A	20-500A	50-630A
Pulse basic current range		10-125A	10-210A	10-300A	10-380A
Time of pulse peak current		100%			
Time of pulse basic current range		2.5ms-1s			
Current rise time		0-5s			
Current decay time		0-15s			
Load air supply time		0-2s			
Lag air-delay time		0-10s			
Rated protective degree		IP 21			
Rated load cycle		60%			
Weight		38kg	60kg	95kg	130kg
Dimension(L×W×H)		580×310×540	670×360×605	800×440×805	800×440×805

ARGON ARC SERIES

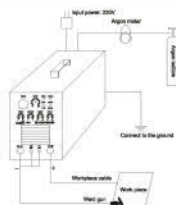
SERIES OF WSM MODEL MOSFET INVERTER PULSE ARGON ARC WELDER



WSM-160



WSM-200



TECHNICAL PERFORMANCE

1. The welder has protect functions of over heat, over current, safety and reliable.
2. The welder structure is reasonable, control PCB of each part are all adopt connector or screw to connect, it has good changeability and convenient maintenance.
3. The welder has line voltage auto compensation function to make the current more stable.
4. The welder adopt air switch as power switch, it is safety and reliable, and has a long service life.
5. The welder has advantages of small volume, light weight, low noise, nice appearance and convenient to take.



Item	Type	WSM-160	WSM-200
Rated input voltage		1~220V 50Hz	
Rated input capacity		3.8kVA	6.8kVA
Rated input current		17.5A	30A
Rated output current		100A	200A
Rated load cycle		60%	
Current range		5-100A	10-200A
Basic current range		5-100A	10-200A
Pulse frequency range		0.5Hz-5Hz/5Hz-50Hz	
Pulse duty ratio		0.1-0.9	
Time of lag air-delay		2.5s/5s	
Mode of arc starting		高频率脉冲和电弧引弧	
Weight		10kg	18kg
Dimension (L×W×H)		155×355×255mm	155×355×255mm
Insulate grade		F级	

MODEL IGBT INVERTER MULTI-PURPOSE PULSE ARGON ARC WELDER



WSM-315-1



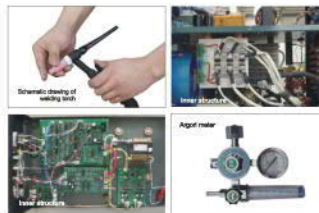
WSM-400-1



WSM-500-1

TECHNICAL PERFORMANCE

1. Three kinds of working modes including DC pulse TIG weld, DC TIG weld and DC manual weld.
2. Excellent performance of arc starting, success probability of arc establishment is near to 100% under small current.
3. According to the different requirement, the switch of the welding gun can be set up three kinds of control modes including short arc, long welding and electrical arc.
4. According to the different purposes, adopting three kinds of pulse control modes including low frequency, middle the frequency and high frequency.
5. Having fine protecting functions including overcurrent, overheating, and undervoltage.



Item	Type	WSM-315-1	WSM-400-1	WSM-500-1
Rated input voltage		3-380V 50Hz		
Rated input capacity		9kVA	13kVA	18.5kVA
Rated output current		315A	400A	500A
Current range		10-315A	20-400A	20-500A
Peak current range		10-315A	20-400A	20-500A
Basic current range		10-315A	20-400A	20-500A
Pulse Frequency			2-25Hz	
Duty			10%-100%	
up time			0-5S	
Time of delay current			0-5S	
Time of lag air-delay			1-10S	
Rated load cycle			60%	
Weight		41kg	42kg	58kg
Dimension (L×W×H)			580×310×540mm	650×310×540mm



ARGON ARC SERIES

WS SERIES IGBT INVERTER ARGON ARC WELDER



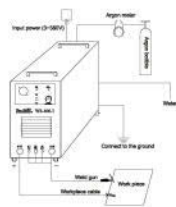
WS-315-1

WS-400-1

WS-500-1

TECHNICAL PERFORMANCE

1. For argon arc welding, manual electric arc welding.
2. When manual welding, having function of auto thrust current, in case of solder stick bonding function, life spanner.
3. When argon arc welding, good high frequency performance can make arc starting convenient, fast dynamic response and stable constant current characteristic make welding electric arc very stable.
4. Having the protective function of over-current, over-heat and voltage-sensitivity.
5. Suitable for workplace welding of stainless, carbon, alloy and copper.
6. Used in building and decoration, vessel manufacture, project installation and car manufacture industry.



CO₂ WELDING SERIES

MODEL NBC INVERTER CO₂ WELDER / NBM SERIES GAS SHIELD DII SE ARGON ARC WELDER



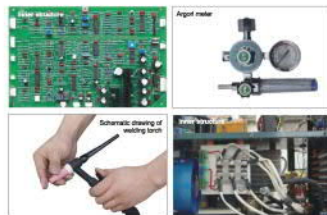
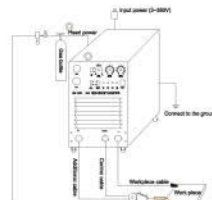
NBC-250D

NBC-500D

NBM-500D

TECHNICAL PERFORMANCE

1. Adopting IGBT power module, amorphous alloy magnetic core and fast return power diode as power inverter and transfer key component.
2. Adopting high performance 16 bit DSP chip as main control chip, high controlling precision and fast response speed.
3. Having the function of powermeter preset function and can save current parameter calling preset parameter.
4. Adopting new technology, like wave control and electrostatic reactor.
5. Wire feeding circuit adopting PWM speed adjustment, stable wire feeding and low wasting spatter.
6. Suitable for mild carbon steel, stainless steel, aluminum and all unimium alloy material welding.
(2 and 3 only suitable for NBM)



Item	Type	WS-315-1	WS-400-1	WS-500-1
Rated input voltage		3-380V 50Hz		
Rated input capacity		9kVA	13kVA	18.5kVA
Rated output current		315A	400A	500A
Current range		15-315A	20-400A	20-500A
Rated load cycle		60%		
Weight		41kg	42kg	58kg
Dimension(L×W×H)		590×310×540mm		



Motor

Welding gun

Item	Type	NBC-250D	NBC-399D	NBC-500D	NBM-500D
Rated input voltage		3-380V 50Hz			
Rated input current		13A	25A	43A	43A
Rated input capacity		9kVA	14kVA	23.5kVA	23.5kVA
No-load voltage		20V			
No-load loss		80W			
Voltage range		16.1/19.4/1.2V	16.1/19.4/1.2V	16.1/19.4/1.2V	16.1/19.4/1.2V
Current output range		40-250A	50-350A	50-500A	50-500A
Adapted welding wire		0.8, 1.0, 1.2	0.8, 1.0, 1.2	0.8, 1.0, 1.2, 1.6	0.8, 1.0, 1.2, 1.6
Rated load cycle		3-65%			
Efficiency		1-30.8%			
Power factor		1.20-1.0			
Cover protective degree		IP21			
Cooling mode		Wind cooling			
Weight		35kg	45kg	70kg	55kg
Dimension(L×W×H)		590×310×540mm			

G WELDER

CO₂ WELDING SERIES



MODEL ZKR THYRISTOR CO₂ WELDER



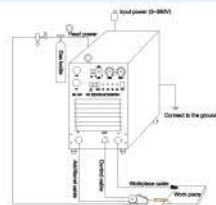
ZKR-200

ZKR-350

ZKR-500

TECHNICAL PERFORMANCE

1. Adopt import thyristor module and integrated circuit control technology.
2. Welding arc is stable, good adjust capacity, it can suit all direction welding; it has little spatter.
3. Wire diameter select and arc holding selector "yes/no".
4. Solid / flux cored welding.
5. Easy to increase function and extend length of cable.
6. The machine is strong, reliable and wearable. It can suitable for adverse circumstances.
7. Comparing with welding rod welding, the efficiency improved three times.



NBC-250B

Item	Type	ZKR-200	ZKR-350	ZKR-500	ZKR-630	NBC-250B
Rated input voltage		3-380V 50Hz				
Rated input capacity		7.5kVA	18.1kVA	32kVA	46kVA	10.5kVA
Rated load voltage		24V	31.5V	39V	44V	36.5V
Rated current		200A	350A	500A	630A	250A
Working current range		50-200A	60-350A	60-500A	60-630A	60-250A
Working current range		14-25V	15-45V	15-45V	16-44V	16-27V
Max.no-load voltage		45V	60V	60V	77V	33V
Rated load cycle		60%				
Adapted welding wire		φ0.8-1.0	φ1.0-1.2	φ1.0-1.2-1.8	φ0.8-1.0	φ0.8-1.0
Weight		60Kg	115Kg	225Kg	280Kg	108Kg
Dimension(L×W×H)		720×400×720				

PLASMA CUTTER SERIES



LG SERIES INVERTER PLASMA CUTTER



LG-60

LG-100

LG-120

TECHNICAL PERFORMANCE

1. Suitable for cutting stainless steel, carbon steel, copper Aluminum and alloyed Material
2. Special high reliability control technology cutting current is continuous and Adjustable
3. The kerf is narrow and level, no need to preprocess
4. Adopt contact or not contact cutting way
5. Convenient for automatic cutting
6. Quick cutting speed and low running cost: the cutting speed is several time high than gas cutting
7. The machine is wearable and lower consume of spare parts
8. The running cost is only one third of gas cutting
9. It is light and save power

Cutting sample



Model	LG-60	LG-100	LG-120
Rated input voltage	3-380V 50Hz		
Rated input capacity	6KVA	14KVA	17KVA
No load voltage	260V	280V	
Range of current	20-60A	20-100A	20-120A
Rated load continuous rate	60%		
Cutting way	Contact	Contact/ Not Contact	
Max cutting thickness	15mm	30mm	42mm
Dimension	590×310×540	650×310×540	
Weight	30kg	43kg	48kg

PLASMA CUTTER SERIES

MODEL KDG AIR PLASMA CUTTER



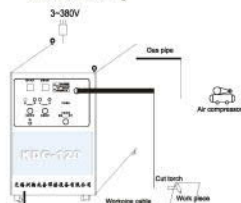
KDG-50



KDG-120

TECHNICAL PERFORMANCE

1. High-frequency arc starting and easy arc starting
2. The speed of cutting is quick and the cutting seam is narrow
3. Taking the compressed-air as air resources to reduce the cost of cutting



Item	Type	KDG50	KDG80	KDG120	KDG160	KDG200	KDG300
Rated input voltage		3-380V 50Hz					
Rated input capacity		7KVA	12KVA	18KVA	25KVA	50KVA	66KVA
Rated load cycle		80%					
Cutting current grade		50A	40/80A	80/120A	120/160A	100/200A	160/300A
Rated load voltage		120V			Water cooling		
Rated load voltage		Air cooling			Water cooling		
Method of cooling for welding gun		Air cooling			Water cooling		

Item	Type	KDG50	KDG80	KDG120	KDG160	KDG200	KDG300
Max. Cutting		10mm	25mm	35mm	40mm	50mm	60mm
	Aluminum	8mm	20mm	25mm	30mm	40mm	50mm
	Copper	6mm	10mm	15mm	20mm	25mm	35mm
The pressure of compressed air		3-4kg/cm ²					
Weight		80kg	110kg	130kg	160kg	200kg	250kg
Dimension(L×W×H)		560×520×720mm					
		680×550×900mm					
		1200×650×1000mm					

MODEL RSRJ SERIES SCREW WELDER

TECHNICAL PERFORMANCE

Adopting top capacitance discharge welding technology There is no impressing, discoloration and deformation on the back of the seam.Small volume , light weight and easy to carry Applied to weld bolt, screw etc and the industry of fastening.



Rated input voltage	220V/50Hz
Rated input capacity	1KVA
Rated store power	800J
Current range	30-180V
Weld productivity	20Piece / minute
Screw Welder	Stainless steel,mild steel
Welding diameter	φ3-φ10mm
Welding diameter	Copper,aluminum,alloy
Dimension(L×W×H)	φ3-φ8mm
	535×325×255mm



MODEL IGBT INVERTER DC MANUAL ARC WELDER



ZD5-1600



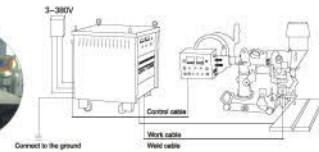
MZ-1000



MZ-1250



Feeding cart



TECHNICAL PERFORMANCE

1. Adopting IGBT inverter technology and advanced control circuit
2. Featuring excellent quiet & active character,easy arc starting&Stable welding
3. Set a function of current preplacement for easy operation
4. Having fine protecting functions including overcurrent,overheatingand undervoltage
5. Can be used as Submerge welding Power

Item	Type	MZ-800	MZ-1000	MZ-1250
Rated input voltage		3-380V 50Hz	3-380V 50Hz	3-380V 50Hz
Rated input capacity		42KVA	52KVA	66KVA
No-load voltage		72V	80V	80V
Rated load cycle		60%	100%	80%
Rated current		800A	1000A	1250A
Current range		80-800A	100-1000A	150-1250A
Weight		72KG	110KG	120KG
Dimension(L×W×H)		750×380×770	750×380×770	750×380×810



AC 1250

TECHNICAL PERFORMANCE

Item	Type	BXL5-1250
Rated input voltage		AC380V 50Hz
Rated input capacity		120KVA
Input current		320A
Max. No-load voltage		80V
Output current		AC250-1250
Rated load continuous		80%
Dimension(L×W×H)		1120×730×1290
Weight		520kg



MODEL DN PNEUMATIC AC RESISTANCE WELDER



DN-75KVA



DN-100KVA



DN-150KVA

TECHNICAL PERFORMANCE

1. Adopting microprocessor control
2. Having the dual function of spot weld & convex weld
3. The output voltage can be regulated randomly
4. The welding speed is quick and the efficiency of welding is high
5. The machine itself can stand impact and shock
6. Setting a indicating light for welding state
7. According to the clients' demand, the welder can be made into a multi-spot welder.

Item	Type	DN-35	DN-55	DN-75	DN-100	DN-150
Rated input voltage		1-380V 50Hz				
Rated input capacity		35KVA	55KVA	75KVA	100KVA	150KVA
Rated input current		80A	145A	167A	268A	316A
No load voltage		0-8.7V	0-7.2V	0-8.8V	0-9.1V	0-8.8V
Rated heat cycle		50%				
Arm length		500mm Can be negotiated				
Arm distance		250mm				
Working travel of electrode		60mm				
Max pressure of electrode		470kgf	1200kgf	1300kgf	1300kgf	1300kgf
The pressure of gas		±0.8MPa				
Welding thickness		1-3mm	1.5-6mm	1.5-6mm	1.5-7mm	2-8mm
The flow of cooling water		8L / min				
(Dimension) (KVA/H)		1000 × 400 × 1830	1190 × 540 × 1700	1270 × 630 × 1730	1320 × 700 × 1750	

WHOLE POSITION SHALL-TUBE WELDING MACHINE

TECHNICAL PERFORMANCE

Auto welding power composed of perfect pipe /plate welding system, it is suitable for welding carbon steel, stainless steel pipe outer, equal and inside. Pipe diameter range: 15-80mm, welding through wire filling method.



ASSISTANT WELDING MACHINE



AUTO-WELDING MANIPULATOR DIFFERENT KINDS OF MATING WELDING SCHEMATIC DRAWING



OUTSIDE LONGITUDINAL WELDING



INSIDE LONGITUDINAL WELDING



OUTSIDE CIRCUMFERENTIAL WELDING



INSIDE CIRCUMFERENTIAL WELDING



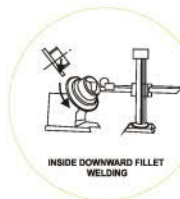
OUTSIDE FLANGE WELDING



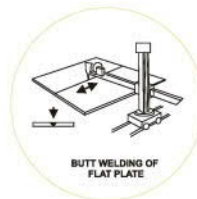
INSIDE FLANGE WELDING



OUTSIDE DOWNWARD FILLET WELDING



INSIDE DOWNWARD FILLET WELDING



BUTT WELDING OF FLAT PLATE

WELDING MACHINE

COMPONENTS OF NC PIPES PREFABRICATE PRODUCTION LINE

SHORT PIPE FLANGE WELDING CENTER

SHORT PIPE FLANGE WELDING CENTER

TECHNICAL PERFORMANCE

According to production technology, main equipments including new material feeding frame (prepared by user), new material auto feeder, roller auto conveyor, fling and transferring roller, NC double shaft CNC flange plasma cutting machine (including cutting elevating slewing roller and auto cutting cart), products auto output roller, products blanking roller, products blanking frame, GPK-630 type high speed beveling machine, hydraulic control part and electrical control part.

The pipe auto combination machine including 17 adjustable positioner, cantilever welding machine, elevating support frame and electrical control part for each machine.

SHQ mini manipulator

Model	SHQ-1	SHQ-2
Effective boom elevating stroke	760mm	1000mm
Effective boom expansion stroke	460mm	800mm
Elevating speed	400mm/min	400mm/min
Expansion way	manual	manual
Moving cart gauge	900mm	600mm

adjustable positioner

Model	S4B-10
Load capacity	1000kg
Rotating speed	0.12 ~ 1.2rpm
Overturning speed	0.34cm
Overturning angle	0 ~ 120°



Welding oscillator

model:	WOS-3000
swing range:	± 25mm
frequency:	0 ~ 120times/min
left-right time delay:	0.2 ~ 2s



Pinch type rotator

model:	PPAW-05
load capacity:	5000 kg
suitable workplace range:	φ10 ~ φ110mm
roller linear speed:	120 ~ 1200mm/min

adjustable supporter

model:	SZJ-1
load capacity:	5000kg
elevating stroke:	280mm



17 ELEVATING WELDING POSITIONER (WITH CHUCK)

pinch and turning rotator

Model	QGLJ-1000	QGLJ-4000
Subtle pipe diameter	φ100 ~ φ1000mm	φ400 ~ φ800mm
Load capacity	5000KG	2000KG
Roller linear speed	100 ~ 1000mm/min	120 ~ 1200mm/min
Elevating speed	430mm/min	500mm/min

short pipe auto welding combination

- Adjustable welding positioner
- microminiature welding manipulator
- welding oscillator
- kammp multi-function welder



middle pipe auto welding combination

- press rotary rotator
- microminiature welding manipulator
- conventional rotating support frame
- welding oscillator
- kammp multi-function welder



long pipe auto welding combination

- press rotary rotator
- microminiature welding manipulator
- conventional rotating support frame
- welding oscillator
- kammp multi-function welder

PRECISION TYPE WELDING MANIPULATOR AND DOUBLE CHUCK WELDING POSITIONER



SSHB double chuck positioner

model	SSHB-1
max load capacity	100kg
pipe diameter	10 ~ 315mm
rotating speed	0.4 ~ 4rpm

ASSISTANT WELDING MACHINE



WELDING POSITIONER SERIES

> HEAD AND TAIL POSITIONER (SPECIAL ORDER)



Description	Head and tail positioner
Model	SHB2000
Rated load capacity (Kg)	2000
Table diameter (mm)	1000
Overturning speed (rpm)	0.06-0.8
Motor power (Kw)	0.75/1.1
Speed adjust way	Constant speed/ Frequency stepless speed adjust

> L TYPE POSITIONER (SPECIAL ORDER)



Description	L type positioner
Model	LHB2000
Rated load capacity (Kg)	2000
Overturning speed (rpm)	0.15-0.78
Rotating speed (rpm)	0.14-0.7
Motor power (Kw)	1.5/1.1
Speed adjust way	Frequency stepless speed adjust

> TURNING TABLE (SPECIAL ORDER)



Description	Turning table
Model	HZT-03
Rated load capacity (Kg)	3000
Table diameter (mm)	φ3000
Overturning speed (rpm)	0.02-0.2
Motor power (Kw)	0.75
Speed adjust way	Frequency stepless speed adjust

WELDING POSITIONER SERIES



> 50T HEAD AND TAIL POSITIONER(SPECIAL ORDER)



> TECHNICAL PERFORMANCE

This positioner is head and tail positioner adopting with fixed way. Tail frame adopts with Electric mobile way. It can suitable for different length workplace. The workplace can overturn by head frame driving device, so that it can make the best position to welding conveniently. Meanwhile the equipment can be combined with other welding equipment to achieve automatic welding. It can increase productive efficiency and improve quality. It is one of the necessary equipments for welding large ton workplace.

This machine has two functions: one is elevating, another is moving. Elevating adopts four screws to lift the synchro lifting. Moving adopts motor reducer driving roller to move freely on track. It features stable elevating, flexible moving and so on. It is one of the installation and the operation of the necessary equipment.

> 50T HEAD AND TAIL POSITIONER(SPECIAL ORDER)TECHNICAL PARAMETER

Model	HBT-500
Rated load capacity	50T
Rotary eccentricity	200mm
Rotary center distance	2280mm
Table diameter(mm)	2500mm
Overturning speed(rpm)	0.04-0.4 rpm
Table rotary power	15kw
Table rotary torque	110000N·m
Tail frame movement speed	1000mm/min
Tail frame shift motion	5500mm
Gauge	2000mm

> 50T ELEVATING AND MOVING PLATFORM TECHNICAL PARAMETER

Model	SJPT-500
Rated load capacity	50T
Elevating route	500mm
Table length and width (mm)	1500mm*1800mm
Elevating motor power	11kw
Elevating platform speed of travel	1000 mm/min
Elevating platform inside gauge	1250mm

ASSISTANT WELDING MACHINE

WELDING POSITIONER SERIES

500KG L TYPE ELEVATING AND DOUBLE TURNING POSITIONER



Description	500Kg L type elevating double turning positioner
Rated load capacity(kg)	500Kg
Table diameter(mm)	Φ1000mm
Rotating speed(rpm)	0.5~1rpm
elevating distance(mm)	500mm
overturning angle(°)	0~ ± 180°



HEIGHT ADJUSTABLE WELDING POSITIONER



HYDRAULIC ELEVATING POSITIONER



M84 CHUCK TYPE POSITIONER



100 KG POSITIONER



50T TURNING TABLE



20T TILT TYPE POSITIONER

WELDING POSITIONER SERIES

TECHNICAL PERFORMANCE

The welding positioner includes various types such as sidelurch style, head & end single rotary type, head & end double rotary style and etc. With gyration and upturning of working table, the welding and fitting can be located at the right position. If connected with other welding devices, it can be turned into a half-automatic or full automatic welding machine. The gyration of working table can use electromagnetic speed variation or frequency control.

Because of eccentricity and gravity, it is better to choose a bigger type for long workpieces or those with too much gravity center deviation the shape and weight of workpieces, process and working method are provided, our company shall supply a prompt scheme for your reference.

Standard Technical Parameter Of Welding Turning Positioner

Type	Rated Load (kg)	Rotating speed (rpm)	Overturning angle (°)	size of working table (mm)	Motor power (kw)		Way of setting
					Rotating	Overturning	
HBZ-1	100	0.12-1.2	0-90°	Φ400	0.18	0.18	Frequency control
HBZ-3	300	0.2-2	0-90°	Φ600	0.37	0.37	
HBZ-6	600	0.09-0.9	0-90°	Φ1000	0.75	0.75	
HBZ-10	1000	0.05-0.5	0-120°	Φ1200	1.1	1.5	
HBZ-30	3000	0.05-0.5	0~120°	Φ1400	1.5	1.5	
HBZ-50	5000	0.05-0.5	0~120°	Φ1500	2.2	4	
HBZ-100	10000	0.017-0.17	0~120°	Φ2000	3	5.5	
HBZ-200	20000	0.015-0.15	0~120°	Φ2300	5.5	7.5	



ASSISTANT WELDING MACHINE



CONVENTIONAL WELDING ROTATOR



20 T Conventional Welding Rotator



Screw Type Welding Rotator



250 T Conventional Welding Rotator



630 T Conventional Welding Rotator



300T Motorized Screw Type Conventional Rotator

TECHNICAL PERFORMANCE

This series rolling welding rotator have the type of self-aligned, conventional, which are suitable for welding, polishing, glue-lining, and assembling of the cylinder body. Welding rotator can be auto adjusted according to the size and weight of cylinder and the center distance of the wheels on the welding rotator can be adjusted manually, which the speed-control mechanism accepts either the stepless speed change of electromagnetic slip motor or the AC frequency conversion speed-changing mechanism to improve the reliability of operating. The company also can customize welding rotator in all varieties according to clients' requirements.

Technical parameter of conventional welding rotator

Type	Max load weight(kg)	Range of suitable workpiece(mm)	Diameter of suitable workpiece(mm)	Roller rollers	Wheel linear speed(m/s)	Power of motor(kw)	Way of setting
GLHK-3	3000	φ250~φ1800	φ200×100	2×φ194×20	8~60	2×0.25	AC converter stepless speed adjust or electro-magnetic speed adjust
GLHK-5	5000	φ250~φ2300	φ250×100	2×φ243×20	8~60	2×0.37	
GLHK-10	10000	φ320~φ2800	φ300×120	2×φ290×25	8~60	2×0.55	
GLHK-20	20000	φ500~φ3500	φ350×120	2×φ340×30	8~60	2×1.1	
GLHK-40	40000	φ600~φ4200	φ400×120	2×φ390×40	8~60	2×1.5	
GLHK-60	60000	φ750~φ4800	φ450×120	2×φ440×60	8~60	2×2.2	
GLHK-80	80000	φ850~φ5000	φ500×120	2×φ490×80	8~60	2×3	
GLHK-100	100000	φ1000~φ5500	φ500×120	2×φ490×70	8~60	2×3	
GLHK-160	160000	φ1100~φ6000	—	φ620×220	8~60	2×4	
GLHK-250	250000	φ1200~φ7000	—	φ700×280	8~60	2×5.5	
GLHK-500	500000	φ1800~φ8000	—	φ850×350	8~60	2×7.5	
GLHK-630	630000	φ1500~φ9000	—	φ900×380	8~60	2×11	

SELF-ALIGNED WELDING ROTATOR



TECHNICAL PERFORMANCE

The GLH2 series welding rotator is absorbing advantages of similar products at home and abroad, and designed and manufactured by us according to the operation requirements of several pressure vessel factories, and accord with mechanical standard JB/T 8157-1990 it is the device for special purpose adopted to weld metal cylinder especially pressure vessel. It has advantages of advanced technology, reliable quality and simple operation.

This is self-aligned welding rotator which suitable for different diameter jobs in the range, and it has advantages of stepless speed adjust, low noise transmission and stable turning under the welding parameter in the range.



100 T SELF-ALIGNED WELDING ROTATOR



500 T SELF-ALIGNED WELDING ROTATOR



Technical Parameter of Self-Aligned Welding Rotator

Type	Max load weight(kg)	Suitable diameter of vessel(mm)	Diameter and width of the wheel(mm)		Wheel linear speed(m/s)	Power of motor(kw)	Way of setting
			Rubber rollers	Metal rollers			
GLH2-5	5000	φ250~φ2300	φ250×100	2×φ240×20	8~60	0.75	AC converter stepless speed adjust or electro-magnetic speed adjust
GLH2-10	10000	φ320~φ2800	φ300×120	2×φ290×25	8~60	1.1	
GLH2-20	20000	φ500~φ3500	φ350×120	2×φ340×30	8~60	1.5	
GLH2-40	40000	φ600~φ4200	φ400×120	2×φ390×40	8~60	3	
GLH2-60	60000	φ750~φ4800	φ450×120	2×φ440×60	8~60	4	
GLH2-80	80000	φ850~φ5000	φ500×120	2×φ490×80	8~60	4	
GLH2-100	100000	φ1000~φ5500	φ600×120	2×φ490×70	8~60	5.5	
GLH2-160	160000	φ1100~φ6000	—	φ600×280	8~60	7.5	
GLH2-250	250000	φ1200~φ7000	—	φ700×320	8~60	2×5.5	
GLH2-500	500000	φ1800~φ8000	—	φ850×350	8~60	2×7.5	

ASSISTANT WELDING MACHINE

FIT-UP ROTATOR

ANTI-CREEP WELDING ROTATOR

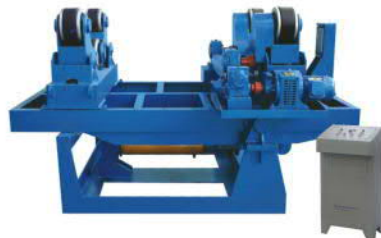
TECHNICAL PERFORMANCE

This product is according to the cause of the workpiece shaft direction creep. When workpiece rotating, it do spiral running then cause shaft direction creep through elevating of idle rotator, change the screw angle between workpiece shaft line and rotator shaft line, to make the shaft displacement direction of workpiece change.

This product is designed separately at the basis of abroad advanced experience and according to industry standard. It is especially suitable for heavy workpiece and surfacing weld and clearance weld which have high requirement on precision of welding seam position and stability of welding speed.



TILTING ROTATOR

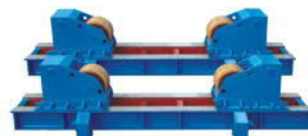
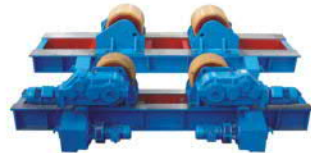


technical parameter of hydraulic Fit-up roll

Description		Tilting rotator	
Model	QGL-10	Roller linear speed (m/s)	6-60 m/s
Rated load capacity (kg)	10000 kg	Motor power (kw)	1.1 kw
Vessel diameter (mm)	φ100-φ2000 mm	Speed adjust way	Frequency stepless speed adjust

FIT-UP ROTATOR

HYDRAULIC FIT-UP ROTATOR



HYDRAULIC FIT-UP ROTATOR (HORIZONTAL MOVING TYPE)



TECHNICAL PERFORMANCE

Similar to the Fit-Up Bed, this Fit-Up Rotator is mainly used for joining of long pipe such as in wind tower application. It has four independent fit-up rolls that perform the fit-up process, and is used jointly with standard conventional powered and idler rotator.

Technical parameter of hydraulic Fit-up rotator

Type	Max load weight(kg)	Range of suitable workpiece(mm)	Diameter and width of rubber roller(mm)	wheel linear speed(m/s)	Power of motor(kw)	Inner distance of rail(mm)	Way of setting
ZHGK-40	40000	φ2000 - φ4800	φ400 × 210	6 - 60	2 × 1.5	1700	AC converter stepless speed adjust or electro-magnetic speed adjust
ZHGK-60	60000	φ2500 - φ5000	2 × φ520 × 178	6 - 60	2 × 2.2	2000	

ROTATOR FOR BLASTING AND PAINTING

TECHNICAL PERFORMANCE

This welding rotator is special equipment which is mainly used for shot blasting and spray coating for wind tower pole, the material adopts high-quality polyurethane which protect the surface of workpiece effectively.



Technical parameter of rotator for blasting and painting

Description	ROT rotator for blasting and painting
Model	GL19002Y
Rated load capacity (kg)	80000 kg
Vessel diameter (mm)	2000-5000 mm
Roller linear speed (m/s)	6-60 m/s
Motor power (kw)	2 × 3 kw
Speed adjust way	Frequency stepless speed adjust
Inner distance of rail(mm)	1700 mm

ASSISTANT WELDING MACHINE → CIRCUMFERENTIAL WELDING CENTER

► TECHNICAL PERFORMANCE

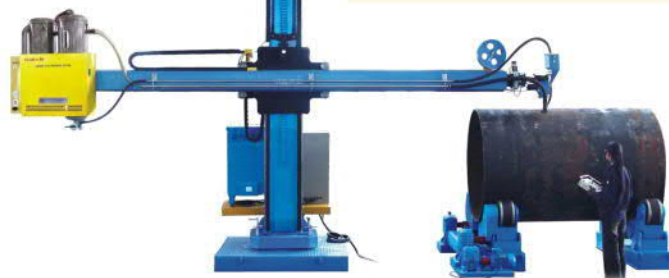
This circumferential welding center is composed of welding manipulator, positioner and TIG welder. The advanced TIG welding can make the seam with high intensity and nice appearance; it can be widely used for pressure vessel, petrol chemistry and aerospace industry.



LONGITUDINAL WELDING CENTER

► TECHNICAL PERFORMANCE

This longitudinal welding center is composed of welding manipulator, rotator and SAW welder. SAW welding with high efficiency and nice appearance; it is suitable for middle and heavy plate welding. It can be widely used for petrol chemistry pipe welding, shipbuilding, metallurgy, boiler industries.



► TECHNICAL PARAMETER OF AUTO-WELDING

Type	Heavy-duty			Middle-duty		Light-duty
	8×6	5×6	4×5	3.5×5	3×4	2×2
Effective stroke of vertical boom (mm)	8000	5000	4000	3500	3000	2000
Effective stroke of cross boom (mm)	6000	6000	6000	5000	4000	2000
The suitable diameter of cylinder (mm)	1000-8000	1000-5000	1000-4000	700-3500	700-3000	500-2000
Rotating angle of the vertical boom	±180°	±180°	±180°	±180°	±180°	±180° (manual)
Up and down speed of cross boom (m/min)	0.9	1	1	1	1	0.3
Expansion speed of cross boom (m/min)	0.12-1.2	0.12-1.2	0.12-1.2	0.12-1.2	0.12-1.2	0.12-1.2
Forward and backward speed of the trolley (m/min)	1.5	1.5	1.5	1.5	1.5	1.5
The center distance of the trolley track (mm)	2308	1780	1780	1780	1500	800

Other specification can be got by call.



HEAVY INDUSTRY MACHINE

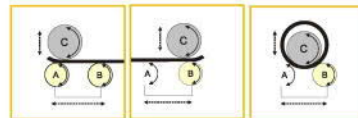


WIIXNC HORIZONTAL DOWN ROLLER ADJUST 3-ROLLER ROLLING MACHINE



TECHNICAL PERFORMANCE

- The upper roller can move vertically. The lower rollers can move horizontally. It has double functions of pre-bending and roll. And it can finish pre-bending and roll steel plate by feeding once.
- The three rollers are driving-roller. It can prevent slipping while rolling thin plates and enlarge the rolling scope.
- The three rollers have brake devices installed while revolving. It can make sure precise position and safe operation while rolling.
- The upper roller can fit to one end. And both ends of the upper roller can move up and down at the same time when it's tilted. It is benefit for rolling tapered workplace.
- The main driver of the upper driver is supplied by multi-motor. It can reduce occupying area of the equipment because of compact structure.
- It's controlled by micro-machine and has digital display, simple operation and high efficiency.
- With reasonable structure and reliable working performance, it fits to roll medium and thick steel plates.



TECHNICAL PARAMETER

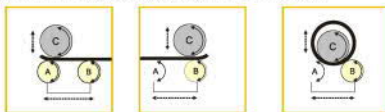
Spec	Max Thickness of Rolling Plate (mm)	Max Pre-bending Thickness (mm)	Max Width of Rolling Plate (mm)	Plate yield Limit (Mpa)	max spec. min bending diameter (mm)	Dia. Of Upper Roller (mm)	Dia. Of Lower Roller (mm)	Dia. Of Support Roller (mm)	center distance of lower roller (mm)	Rolling Speed (mm/min)	Main Motor Power (kw)
W11XNC-100×3000	100	85	3000	245	2800	900	680		1000	3	4×22
W11XNC-100×4000	100	85	4000	245	3500	980	500	500	1050	3	4×30
W11XNC-120×3000	120	100	3000	245	3000	950	720		1050	3	4×30
W11XNC-120×4000	120	100	4000	245	4000	1020	550	550	1050	3	4×30
W11XNC-140×3500	140	120	3500	245	3500	1020	520	550	1100	3	4×30
W11XNC-140×4000	140	120	4000	245	4000	1100	600	650	1200	3	4×45
W11XNC-160×4000	160	140	4000	245	4000	1280	650	650	1350	3	4×55
W11XNC-180×4000	180	160	4000	245	4000	1350	1100		1560	2.5	4×55

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HORIZONTAL DOWN ROLLER ADJUST
3-ROLLER ROLLING MACHINE

TECHNICAL PERFORMANCE

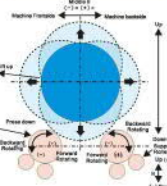
- The upper roller can move vertically. The lower rollers can move horizontally. It has double functions of pre-bending and roll. And it can finish pre-bending and roll steel plate by feeding once.
- The three rollers are driving-roller. It can prevent skidding while rolling this plate and enlarge the rolling speed.
- The three rollers have brake devices installed while receiving. It can make sure precise position and safe operation while rolling.
- The upper roller can tilt to one end. And both ends of the upper roller can move up and down at the same time when it's tilted. It is benefit for rolling beveled surface.
- The main driver of the upper driver is supplied by multi-motor. It can reduce occupying area of the equipment because of compact structure.
- It's controlled by micro-machine and has digital display, simply operation and high efficiency.
- With reasonable structure and reliable working performance, it fits to roll medium and thick steel plates.



TECHNICAL PARAMETER

Spec	Max Thickness of Rolling Plate (mm)	Max Pre-bending Thickness (mm)	Max Width of Rolling Plate (mm)	Plate yield Limit (Mpa)	max spec. min bending diameter (mm)	Dia. Of Upper Roller (mm)	Dia. Of Lower Roller (mm)	center distance of lower roller (mm)	Rolling Speed (mm/min)	Main Motor Power (kw)
W11XNC-60×2500	60	50	2500	245	1800	840	520	650	3.5	2×22
W11XNC-60×3200	60	50	3200	245	2000	700	560	700	3.5	2×22
W11XNC-60×4000	60	50	4000	245	2500	780	600	850	3	2×30
W11XNC-70×2500	70	60	2500	245	2000	700	560	700	3	2×30
W11XNC-70×3200	70	60	3200	245	2000	720	600	900	3	2×30
W11XNC-70×4000	70	60	4000	245	2500	820	630	900	3	2×30
W11XNC-80×3000	80	70	3000	245	2000	770	600	900	3	2×30
W11XNC-80×4000	80	65	4000	245	3000	900	700	1000	3	2×30

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W11SNC UPPER ROLLER MULTI-FUNCTION
3-ROLLER ROLLING MACHINE

TECHNICAL PERFORMANCE

- High precision and pre-bending**
The straight edge length can be set freely, the upper roller press to pre-bend.
- NC control, high productivity**
Parameters are controlled by NC, easy for operation, improve the productivity greatly.
- Good accuracy**
The upper roller is like a drum, the lower rollers associated with it through support rollers. Bend continuously, can roll ideal products from thin to thick plates widely.
- Safety**
The lower rollers are fixed, the upper roller move vertically and horizontally. The job does not move with the working rollers. Complete structure, simple foundation, convenient move.
- The machine has safety interlock, does not need earth bolts, has simple foundation, can move conveniently.

TECHNICAL PARAMETER

Spec	Pressure of Upper roller (Tons)	Max thickness End (mm)	Max thickness middle (mm)	Max width (mm)	Plate yield Limit (Mpa)	max spec. min bending diameter (mm)	Dia of upper roller (mm)	Dia of lower roller (mm)	center distance of lower roller (mm)	Rolling Speed (M/min)	Main Motor power (KW)
W11SNC-15×2000	75	12	15	2000	245	600	255	150	245	4	7.5
W11SNC-20×2000	100	16	20	2000	245	800	320	180	300	4	15
W11SNC-25×2500	180	16	20	2500	245	800	330	180	300	4	15
W11SNC-25×3000	200	16	20	3000	245	800	380	220	380	4	22
W11SNC-25×2500	180	20	25	2500	245	900	380	220	380	4	22
W11SNC-25×4000	270	20	25	4000	245	1400	490	250	400	4	30
W11SNC-30×2000	240	25	30	2500	245	1100	430	235	380	4	30
W11SNC-30×3000	320	25	30	3000	245	1200	480	260	420	4	37
W11SNC-30×4000	380	25	30	4000	245	1400	550	275	460	4	45
W11SNC-40×2500	430	30	40	2500	245	1600	560	290	500	4	55
W11SNC-40×3000	540	30	40	3000	245	2000	630	340	610	3.5	75
W11SNC-40×4000	610	35	45	4000	245	2000	680	360	650	3.5	75
W11SNC-50×4000	690	40	50	4000	245	2000	700	380	700	3.5	75
W11SNC-60×3000	690	50	60	3000	245	2000	700	410	700	3.5	90
W11SNC-70×3000	850	60	70	3000	245	2200	740	420	780	3.5	90

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HEAVY INDUSTRY MACHINE W11HNC

ARC DOWN-ADJUSTING 3-ROLLER ROLLING MACHINE



TECHNICAL PERFORMANCE

- The upper roller is fixed. The two lower rollers can move up and down in arc way around fixed roller. It can finish pre-bending and rolling by feeding once.
- The three rollers are driving-roller. It can prevent skidding while rolling thin steel plate.
- It's controlled by micro-machine and has digital display, simply operation and high efficiency.
- With compact structure, it is economical and practical and fit for rolling thin and medium plates.

TECHNICAL PARAMETER

Spec	Max Thickness of Rolling Plate (mm)	Max Pre-bending Thickness (mm)	Max Width of Plate (mm)	Plate yield Limit (Mpa)	max spec. min bending diameter (mm)	Dia. Of Upper Roller (mm)	Dia. Of Lower Roller (mm)	Rolling Speed (m/min)	Main Motor Power (kw)
W11HNC-6×2000	6	4	2000	245	600	220	210	5.5	5.5
W11HNC-8×2500	8	6	2500	245	850	240	240	5	11
W11HNC-12×2500	12	8	2000	245	700	250	250	5	11
W11HNC-15×2000	15	10	2000	245	700	300	300	5	15
W11HNC-16×2500	16	12	2000	245	800	330	330	5	18.5
W11HNC-20×2000	20	16	2000	245	800	320	320	4.5	22
W11HNC-20×2500	20	16	2500	245	900	350	340	4.5	22
W11HNC-25×2000	25	20	2000	245	850	330	330	4.5	22
W11HNC-25×3000	25	20	3000	245	1300	480	480	4	30
W11HNC-30×2000	30	25	2000	245	1300	420	420	4	30
W11HNC-40×2000	40	32	2000	245	1500	500	500	3	37

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W11GNC SPECIAL 3-ROLLER ROLLING MACHINE FOR TANK CAR



TECHNICAL PERFORMANCE

The structure of this machine is designed as hydraulic symmetrical up-adjusting 3-roller rolling machine. This rolling equipment with ultra width is developed for shell shaping of tank car by our company. The upper roller can move up and down vertically, the displacement is shown in digital. The two ends of upper roller are controlled by PLC, auto leveling, and can realize up and down synchronously under the condition of parallel (or incline). The upper roller is main drive, the lower is auxiliary drive. No slipping when plate rolling. This machine can roll arc or drum work-piece. With the help of auxiliary equipment, it also can roll cone work-piece in a certain range. It is ideal equipment for shell shaping of tank car.

TECHNICAL PARAMETER

Spec	Max Thickness of Plate (mm)	Max Width of Plate (mm)	Plate yield Limit (Mpa)	max spec. min bending diameter (mm)	Dia of Upper Roller (mm)	Dia of Lower Roller (mm)	Support roller diameter (mm)	Support roller Group quantity (mm)	Down roller center distance (mm)	Rolling Speed (m/min)	Power of main Motor
W11GNC-6×7000	6	7000	245	1000	260	260	260	4	420	5	11
W11GNC-8×9000	8	8000	245	1200	270	270	270	5	430	5	11
W11GNC-8×7000	8	7000	245	1200	280	280	280	4	460	5	11
W11GNC-8×9000	8	9000	245	1500	280	280	280	5	450	4.4	11
W11GNC-12×10000	10	10000	245	1700	320	300	300	5	400	4	15

W11NC HYDRAULIC SYMMETRICAL 3-ROLLER ROLLING MACHINE

TECHNICAL PERFORMANCE

This is hydraulic upper roller symmetrical adjust 3-roller rolling machine, upper roller elevating vertically at the center symmetry position of two lower roller, that through hydraulic oil act on piston to get hydraulic driving; the two lower roller rotating, joggle with lower roller gear through output gear of speed reducer, to provide torque for plate rolling. The shortage of this machine is the end of plate should be prebended by other machines.



TECHNICAL PARAMETER

Spec	Max Thickness (mm)	Max Width (mm)	Plate Yield Limit (Mpa)	Min diameter in full load	Dia of Upper Roller (mm)	Dia of Lower Roller (mm)	Center Distance Of Lower Roller (mm)	Rolling Speed (m/min)	Main Motor power (kw)
W11NC-30×2000	30	2000	245	1200	360	280	480	4	22
W11NC-25×2500	25	2500	245	1200	370	300	480	4	22
W11NC-30×2500	30	2500	245	1300	420	360	550	4	30
W11NC-25×3000	25	3000	245	1200	430	370	550	4	30
W11NC-30×3000	30	3000	245	1200	450	390	600	4	30
W11NC-40×2500	40	2500	245	1400	500	400	600	3.5	37
W11NC-40×3000	40	3000	245	1600	540	440	600	3.5	45
W11NC-50×3000	50	3000	245	2000	580	480	750	3.5	55
W11NC-60×3000	60	3000	245	2400	660	560	800	3.5	75
W11NC-70×3000	70	3000	245	2800	710	620	850	3.5	90
W11NC-80×3000	80	3000	245	3200	770	680	900	3.5	90
W11NC-90×3000	90	3000	245	3600	820	730	950	3.5	110
W11NC-100×3000	100	3000	245	4000	860	770	1000	3.5	110
W11NC-110×3000	110	3000	245	4400	900	810	1080	3.5	132
W11NC-120×3000	120	3000	245	4800	900	860	1160	3.5	132

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HEAVY INDUSTRY MACHINE W11

MECHANICAL SYMMETRIC 3-ROLLER ROLLING MACHINE



TECHNICAL PERFORMANCE

This series structure is designed as mechanical symmetrical up-adjusting 3-roller plate rolling machine, upper roller do vertical elevating moving at the center position of two down roller, elevating of upper roller is realized through motor, speed reducer, worm gear and worm. The two lower rollers are driving-roller. The upper roller is driven-roller. This machine can be used widely in shipbuilding, boilers, aviation, hydroelectric industry, metal structure and machinery industry.



TECHNICAL PARAMETER

Spec	Max Thickness of Plate (mm)	Max Width of Plate (mm)	Plate Bending Limit (Mpa)	Max spec. min bending diameter (mm)	Dia. Of Upper Roller (mm)	Dia. Of Lower Roller (mm)	Centre Distances Of Lower Roller (mm)	Rolling Speed (m/min)	Main Motor Power (kw)
W11-6×2000	6	2000	245	380	180	170	250	5.5	5.5
W11-8×2000	8	2000	245	450	190	170	260	5.8	7.5
W11-8×2500	8	2500	245	500	240	200	280	5.5	7.5
W11-12×2000	12	2000	245	550	240	200	310	5.5	7.5
W11-12×2500	12	2500	245	650	260	220	340	5.8	11
W11-16×2000	16	2000	245	650	260	220	340	5.8	11
W11-12×4000	12	4000	245	920	360	240	350	5.5	22
W11-16×2000	16	2500	245	700	280	240	360	5.8	11
W11-16×3000	16	3000	245	950	340	280	440	5.5	22
W11-20×2000	20	2000	245	750	280	240	360	5.3	11
W11-20×2500	20	2500	245	850	340	280	440	4	15
W11-20×2000	25	2000	245	850	330	270	440	4	15

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W12NC 4-ROLLER ROLLING MACHINE



TECHNICAL PERFORMANCE

Convenient centring and widely used, the 4-roller rolling machine can straighten skew and mismatch deformations while rolling. And it can finish pre-bending and roll plate by feeding once. With little straight flange left, it is ideal equipment for rolling round-shaped and arc-shaped plate.

TECHNICAL PERFORMANCE

Technical Parameter	Specification															
	W12C-03000	W12C-30308	W12C-60308	W12C-60358	W12C-30308	W12C-60308	W12C-30308	W12C-60308	W12C-30308	W12C-60308	W12C-30308	W12C-60308	W12C-30308	W12C-60308	W12C-30308	W12C-60308
Max Thickness of Rolling Plate(mm)	12	12	16	16	20	20	25	20	25	30	40	50	60	60	60	60
Max Pre-bending Thickness(mm)	10	10	12	12	16	16	20	16	20	25	32	40	50	60	60	60
Max Width of Rolling Plate(mm)	2000	2600	2000	2800	2000	2600	2800	3000	3000	3000	3000	3000	3000	3000	3000	3000
Plate yield Limit(MPa)	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245
max spec. min bending diameter(mm)	600	800	700	800	800	900	1000	1100	1200	1300	1300	1600	1600	1600	1600	1600
Dia of Upper Roller(mm)	340	330	330	350	350	400	430	460	460	460	560	650	650	650	650	650
Dia of Lower Roller(mm)	280	300	300	320	320	360	400	430	430	460	520	580	580	580	580	580
Dia of Side Roller(mm)	200	220	230	260	260	300	320	340	360	420	480	520	520	520	520	520
Rolling speed(m/min)	5.5	5	5	4.5	4.5	4.5	4.5	4	4	4	3	3	3	3	3	3
Main Motor Power(kw)	15	15	18.5	22	15	22	30	37	37	45	55	55	55	55	55	55

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HEAVY INDUSTRY MACHINE JW PROFILE BENDING MACHINE



TECHNICAL PERFORMANCE

- Processes hydraulic transmission with compact form and high reliability.
- Do not skid easily with three rollers drive and can roll material with thin wall thickness.
- Can feed in both sides.
- This machine drives stably and can processing different round, arc and spiral.
- It can process different profiles like angle iron, flat iron, round pipe and other different sections.
- It can produce profiles with large radius without making super size models.

TECHNICAL PARAMETER

Model	JW-16RS	JW-180S	JW-218S	JW-245S	JW-273S
Max Section Module of Elasticity(N/m ²)	140	180	280	320	500
Profile yield Limit(MPa)					
			S=245		
Steel Pipe	Max Section 2000 Min Bending Dia. 32X3	180X8 2400 35X3	218X8 2800 42X3	245X8 3500 76X4	273X10 5000 86X4
Angle Iron Insurature	Max Section 140X140X10 Min Bending Dia. 2500	150X150X12 2700	160X160X12 3000	180X180X14 3600	200X200X20 4200
Angle Iron Excavature	Max Section 140X140X16 Min Bending Dia. 2300	150X150X16 2600	160X160X16 2800	180X180X16 3500	200X200X24 4200
Channel Steel Insurature	Max Section 280X80 Min Bending Dia. 1300	300X80 1400	320X80 1600	350X80 2400	400X75 2800
Channel Steel Excavature	Max Section 280X80 Min Bending Dia. 1300	300X80 1400	320X80 1600	350X80 2400	400X75 2800
Flat Steel Bend in One Way	Max Section 150X35 Min Bending Dia. 1300	160X32 1400	180X32 1600	190X35 2000	200X40 2400
Flat Steel Bend in Two Way	Max Section 105 Min Bending Dia. 1100	110 1200	140 2000	145 1600	160 1800
Round Steel	Max Section 500 Rolling Speed (m/min) 15	550 22	600 22	650 30	800 30

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JW PROFILE BENDING MACHINE



TECHNICAL PERFORMANCE

- The two lower rollers can elevate around the fixed axis. This machine can bend and rectify all kinds of profile by feeding once.
- The three rollers are driving-roller. So it can prevent skidding while bending profile with thin wall and big section.
- It has support rollers and rotating devices. So it's convenient to bend unsymmetrical profile.
- It has reasonable structure, complete functions and takes up a small area.
- It has digital display, convenient operation and high efficiency.
- It's economical and practical as this machine can bend various of profile with different section only by changing relative model.

TECHNICAL PARAMETER

Model	JW-50S	JW-75S	JW-88S	JW-115S	JW-158S
Max Section Module of Elasticity(N/m ²)	6	18	30	45	100
Profile yield Limit(MPa)					
			S=245		
Steel Pipe	Max Section 42X3 Min Bending Dia. 14X2	76X3 800 20X2	88X5 1000 25X2	114X5 1250 28X2.3	158X5 1600 28X2.3
Angle Iron Insurature	Max Section 100X100X10 Min Bending Dia. 2000	125X125 1200	150X150X12 1200	180X180X14 1500	220X220X16 1800
Angle Iron Excavature	Max Section 100X100X10 Min Bending Dia. 2000	125X125 1200	150X150X12 1200	180X180X14 1500	220X220X16 1800
Channel Steel Insurature	Max Section 280X80 Min Bending Dia. 1300	300X80 1400	320X80 1600	350X80 2400	400X75 2800
Channel Steel Excavature	Max Section 280X80 Min Bending Dia. 1300	300X80 1400	320X80 1600	350X80 2400	400X75 2800
Flat Steel Bend in One Way	Max Section 150X35 Min Bending Dia. 1300	160X32 1400	180X32 1600	190X35 2000	200X40 2400
Flat Steel Bend in Two Way	Max Section 105 Min Bending Dia. 1100	110 1200	140 2000	145 1600	160 1800
Round Steel	Max Section 500 Rolling Speed (m/min) 15	550 22	600 22	650 30	800 30

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WIND TOWER EQUIPMENT



TECHNICAL PERFORMANCE

Wind power is a kind of clean and circulation energy source accepted on international. And it is spread by a lot of countries. In recent year, our government also adopts powerful measurement to advance energy source saving generally, and develop reproducible energy source vigorously to building a energy source supply system which is stable, economic and clean. Wind tower is an important part in wind power machines. A complete wind tower is composed of two or three pieces tower vessel, the total height can be get to 120m.

Wuxi Zhouxiang Complete Set of Welding Equipemnt Co.,Ltd. is one of the earliest manufacturers produced wind tower equipment, the products export to many countries such as India, Iran and so on.



■ cutting and feeding



■ Rolling equipment



■ Longitudinal seam welding



■ Painting and blasting



■ Flange welding



■ Circumferential seam welding



■ Circumferential seam welding



■ Test