

**RAYMAX PROFESSIONAL SHEET  
METAL MACHINES  
PRODUCER**

## PRODUCT **MANUAL**

### COMPANY PROFILE

Anhui Zhongrui Machine  
Manufacturing Co., Ltd Was  
Built In 2002 And Located In  
Bowang Special Economic  
Zone, Anhui Province, China.

**Innovation In Motion – Powered By RAYMAX**

**PROFESSIONAL SHEET  
METAL MACHINES PRODUCER**



**Company Address:**  
BoWang Industrial Zone, Ma' anshan  
city, Anhui, China



**Contact Number:**  
Tel: 0555-6767999  
86-13645551070



**Email:**  
[info@raymaxlaser.cc](mailto:info@raymaxlaser.cc)



23<sup>YS</sup>

2002

Establish  
Anhui Zhongrui Machine  
Manufacturing Co.,Ltd

2004

ISO9001 

2009

Chinese Famous Brand

2014

Performance  
10, 000+ machines were sold

2016

Research And  
Development  
The independent research and development  
of production machines began

2018

Sales Performance  
Sales exceeded 30 million dollars

2025

Developing .....



AFTER-SALES SERVICE  
24 hours online service



CUSTOMIZED SERVICE  
Tailor the machine to  
your needs



MANUFACTURING  
EXPERIENCE  
23 Years of experience





# RX-N SERIES NC PRESS BRAKE MACHINE

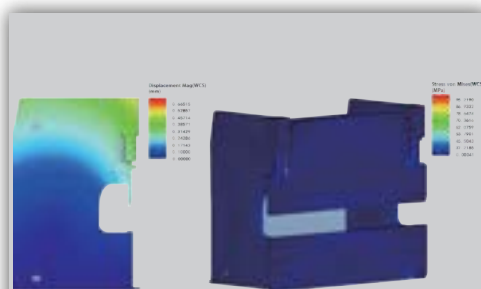


## RX-N SERIES NC PRESS BRAKE MACHINE

The RX-N Series NC Press Brake machines are optimal for the forming of parts with low operation cost. RX-N Series NC Press Brake machines have Torsion bar synchronous NC two axes control capability just like our larger Press Brakes.

### PRODUCT ATTRIBUTE

- ESTUN E21 NC control System
- Plate Support Arms
- Germany Bosch-Rexroth Hydraulic
- Germany EMB Tubing connector
- Germany Innomotics Main Motor
- Schneider Electrics
- Hydraulic & Electrical overload protection
- Top and Bottom Tooling(86°,R0.6mm)
- Powered Depth Y-axis & Back gauge X-axis
- HIWIN Ball screws & Polished rod with 0.05 mm accuracy



### RIGID FRAME CONSTRUCTION

The machinery frame features a fully-welded and processed construction, with ANSYS finite element analysis employed for assessing the principal components of the frame, thereby guaranteeing the dependability of the machine and its overall accuracy. Each press brake is built upon a robust, one-piece foundation fabricated from premium-grade, high-strength steel, ensuring that our press brakes deliver consistent and trustworthy performance annually.



Main Motor Germany Innomotics Brand



BOSCH-REXROTH Hydraulic System



Fast Clamping



### OPTIONAL EQUIPMENT

X, Y-axis intelligent positioning program. Easy operation with cost performance

E21

E310P

### OPTIONAL EQUIPMENT

Panel based housing Bright LCD screen  
Back gauge control Retract function  
Cutting angle or gap control  
Stroke length limitation Manual movement of axes



### OPTIONAL EQUIPMENT

NC System With Inovance Servo Motor AND Driver  
Data programming with angle and mold parameter input

CYBELEC CT 8P

## SPECIFICATIONS:

Type	Bending Capacity KN	Bending Length mm	Between Columns mm	Throat Depth mm	Slider Stroke mm	Stroke Adjustment mm	Max. Shut Height mm	Oil Cylinder dia mm	Main Motor Power kw	Net Weight kg	Outline Size (L×W×H) mm
30X1600	300	1600	1300	200	80	60	210	90	3	1800	2400×1150×1780
40X1600	400	1600	1300	250	80	60	290	120	5.5	2000	2400×1250×1800
40X2500	400	2500	1700	250	80	60	290	120	5.5	2500	3300×1250×2000
63X2500	630	2500	1900	320	120	75	300	130	5.5	3200	3300×1500×2200
63X3200	630	3200	2600	320	120	75	300	130	5.5	3700	4000×1500×2200
80X2500	800	2500	1900	320	150	75	300	150	7.5	3500	3300×1600×2270
80X3200	800	3200	2600	320	150	75	300	150	7.5	4000	4000×1600×2270
100X2500	1000	2500	1900	320	170	75	350	170	7.5	5500	3300×1700×2420
100X3200	1000	3200	2600	320	170	75	350	170	7.5	6000	4000×1700×2420
100X4000	1000	4000	3100	320	170	75	350	170	7.5	7000	4800×1700×2420
125X2500	1250	2500	1900	320	170	75	350	180	11	5600	3300×1750×2450
125X3200	1250	3200	2600	320	170	75	350	180	11	6300	4000×1750×2450
125X4000	1250	4000	3100	320	170	75	350	180	11	7300	4800×1750×2450
160X2500	1600	2500	1900	320	200	75	420	210	11	7700	3300×1800×2700
160X3200	1600	3200	2600	320	200	75	420	210	11	8900	4000×1800×2700
160X4000	1600	4000	3100	320	200	75	420	210	11	9800	4800×1800×2700
160X6000	1600	6000	5000	320	200	75	420	210	11	11500	6800×1900×2700
200X3200	2000	3200	2600	320	200	75	450	230	11	9700	4000×2000×2700
200X4000	2000	4000	3100	320	200	75	450	230	11	11500	4800×2000×2700
200X6000	2000	6000	5000	320	200	75	450	230	11	15500	6800×2100×2700
250X3200	2500	3200	2600	380	250	75	450	280	18.5	10500	4000×2150×3000
250X4000	2000	4000	3100	380	250	75	450	280	18.5	12500	4800×2150×3000
250X6000	2500	6000	5000	380	250	75	450	280	18.5	17500	6800×2200×3000
300X3200	3000	3200	2600	380	250	75	450	300	22	14500	4000×2300×3200
300X4000	3000	4000	3100	380	250	75	450	300	22	18500	4800×2300×3200



# RX-S SERIES CNC PRESS BRAKE MACHINE



## RX-S SERIES CNC PRESS BRAKE MACHINE

CNC sheet metal press brake with streamlined design, high speed,high precision and high rigidity.Electro hydraulic servo system, full loop controlling the synchronization of the upper slider.Mechanical compensation on crowning of worktable and deformation compensation on throat, ensuring good bending strength and precision.Backgauge is driven by digital AC servo motor, moved with ball screw, guided by linear guide.

### PRODUCT ATTRIBUTE

- DELEM DA-58TX CNC control unit with 2D graphics
  - 6+1 axis
  - X, R, Z1, Z2-Axis with HIWIN linear guide and Ball Screw
  - Standard BGA-2 for X, R-axis ( X=600mm,R=200mm)
  - CNC motorized wave crowning
  - Large trio of value:
  - Large open height
  - Large stroke
  - Large throat depth
- Bosch-Rexroth hydraulic valve block and valves
  - High efficiency Siemens motor
  - Rear cover: Safety barriers (Category IV)
  - Sheet metal frontal supports
  - Front and rear lighting
  - Offline software Delem Profile-TL
  - Front Safety: LAZERSAFE

## SPECIFICATIONS:

Type	Bending Capacity KN	Bending Length mm	Between Columns mm	Throat Depth mm	Slide Stroke mm	back gauge stroke mm	Max. Shut Height mm	Oil Cylinder dia mm	Main Motor Power kw	Net Weight kg	Outline Size (L×W×H) mm
40T/1600	400	1600	1165	350	160	500	460	100	5.5	2870	2250×1650×2400
63T/2500	630	2500	1960	380	165	500	460	120	5.5	4500	3150×1700×2500
80T/2500	800	2500	1960	380	165	600	460	136	7.5	4600	3150×1700×2500
80T/3200	800	3200	2760	380	165	600	460	136	7.5	6000	3850×1700×2500
100T/3200	1000	3200	2750	390	200	600	490	151	7.5	7200	3900×1800×2650
125T/3200	1250	3200	2750	390	200	600	490	172	11	7300	3900×1800×2680
160T/3200	1600	3200	2740	400	200	600	490	197	15	9000	4000×1900×2720
200T/3200	2000	3200	2730	400	200	600	490	218	18.5	1100	4000×1900×2720
300T/3200	3000	3200	2720	500	200	600	580	270	22	1400	4000×2200×3500
100T/4000	1000	4000	3350	390	200	600	490	151	7.5	8400	4800×1800×2650
125T/4000	1250	4000	3350	390	200	600	490	172	11	8600	4800×1800×2680
160T/4000	1600	4000	3340	400	200	600	490	197	15	1200	4800×1900×2720
200T/4000	2000	4000	3330	400	200	600	490	218	18.5	1350	4800×1900×2800
250T/4000	2500	4000	3330	450	250	600	520	244	22	1600	4800×1900×2850
300T/4000	3000	4000	3330	500	300	600	580	270	22	1900	4800×1950×2900
200T/6000	2000	6000	4940	400	200	800	490	218	18.5	2200	6800×1900×2800
250T/6000	2500	6000	4930	450	250	800	520	244	18.5	2400	6800×1900×2850
300T/6000	3000	6000	4920	500	300	800	580	270	22	2700	6800×1950×2900
400T/6000	4000	6000	4920	500	300	800	580	325	37	3200	6800×2000×2950
500T/6000	5000	6000	4910	500	300	800	600	360	45	3900	6800×2050×3000

### PRODUCT DETAILS



Crowning table

Hydraulic clamping



Hydraulic System



# RX-H SERIES CNC HYBRID PLUS PRESS BRAKE MACHINE



## RX-H SERIES CNC PRESS BRAKE MACHINE

By adopting integrated control system, the hydraulic system ensures the working stability of machine tools and makes the appearance scientific and beautiful, which reduces the installation of pipelines and eliminates oil leakage.

## PRODUCT CONFIGURATION

### ESA VIS 875 CNC control unit with 3D graphics

- Y1, Y2 precision ram positioning
- Front Safety: Lazersafe
- BOSCH-REXROTH hydraulic valve block and valves
- INOVANCE efficiency servo motor
- Stand-by function for energy-saving drive
- Rear cover: Safety barriers (Category IV)
- Offline software Kavra Easybend 3D
- Australia Lazersafe & Front Safety Barrier with Monitoring Valve

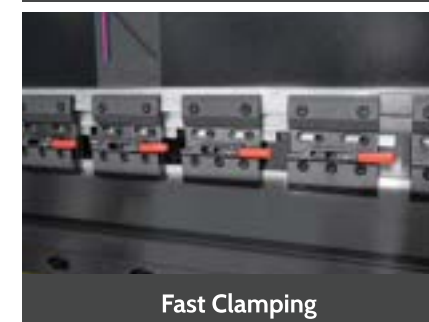
## PRODUCT DETAILS



Back Gauge



Inovance Servo Motors



Fast Clamping



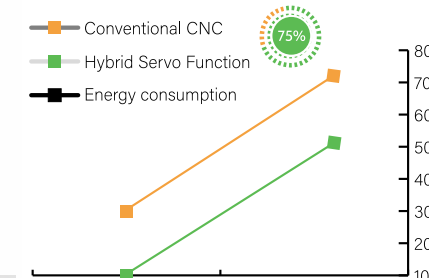
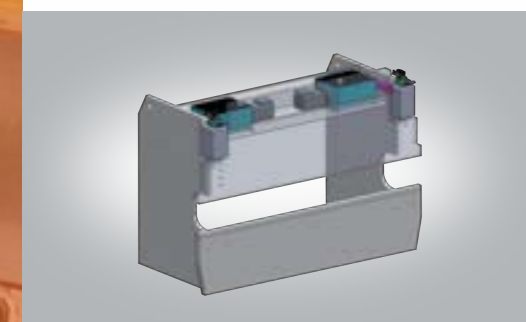
Lazersafe Laser Protection

## CUSTOMER BENEFITS:





Saving: 60% electricity savings compared to conventional drives.  
Efficient: High up to 30%, more efficient (reduced cycle time).  
Accurate: More accurate positioning, up to 5um  
Quiet: Quieter of machine operation due to reduced noise  
Less: Hydraulic oil use is minimal, only 30% compared to conventional ones  
Easy: Easier to build, easier to maintain and lower failure rate of the machine.

## HYBRID SERVO FUNCTION





- High dynamic for a higher productivity of the machine.
- Compliance with EU Directives.
- Lower energy for a green machine.
- Lower sound pressure level at 50 dB.
- The servo-motor, with closed loop speed control.
- Energy efficiency is up to 35 % compared to conventional systems.
- Due to low energy consumption, it gives advantages to the user with high efficiency & low operation cost.



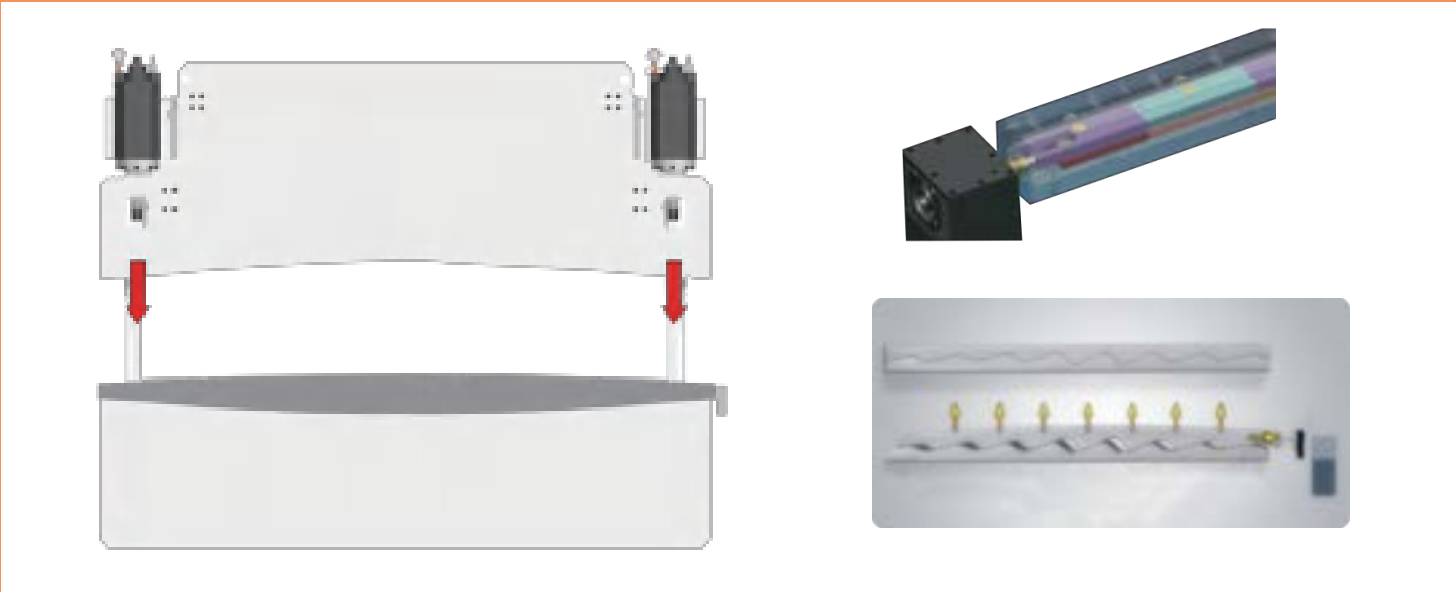


	DA-53TX	DA-58TX	DA-66S	DA-69S				
Axes	4	4	4	6	12	12	12	12
Screen	15"	10"	18.5"	15"	24"	15"	24"	19"
2D graphic view	—	●	●	●	●	●	●	●
3D graphic view	—	—	—	●	●	●	●	●
3D programming	—	—	—	—	—	○	●	○
Auto tooling selection	—	—	—	—	●	○	●	○
Touch screen	●	●	●	●	●	●	●	●
USB ports	1	2	1	2	2	4	2	4
2D DXF import	—	—	—	—	—	●	●	●
3D IGES/STEP import	—	—	—	—	●	—	●	○
3D Offline import	—	—	—	—	○	○	●	○
Export DXF 2D FP	—	—	—	—	—	○	●	○
Offline software	Profile TL	Kvara PC	Profile TL	Kvara PC	Profile TL	Kvara PC	Pe Protile T-3D	EsaBend 3D-M
	ESA S630		ESA S640		VIS-S860		VIS-S875	



RAYMAX PRO CNC CROWNING TABLE:

This feature eliminates the need for time consuming shimming by creating an adjustable crown in the middle of the table. In this system, over under wedge system creates a stable crown on the center of the table. The CNC controlled system is automatically set based on programmed part information.



OEM EMBEDDED LAZERSAFE SYSTEM

Raymax® use LazerSafe LZS-2 guarding system offers a highly effective solution for both operator safety and machine productivity. Designed for use with Lazer Safe's PCSS A Serice, the Lazersafe is category 4 compliant and meets the world's most demanding international safety standards(CE Certified Category 4 Safety Controller with integrated).

Advantages:

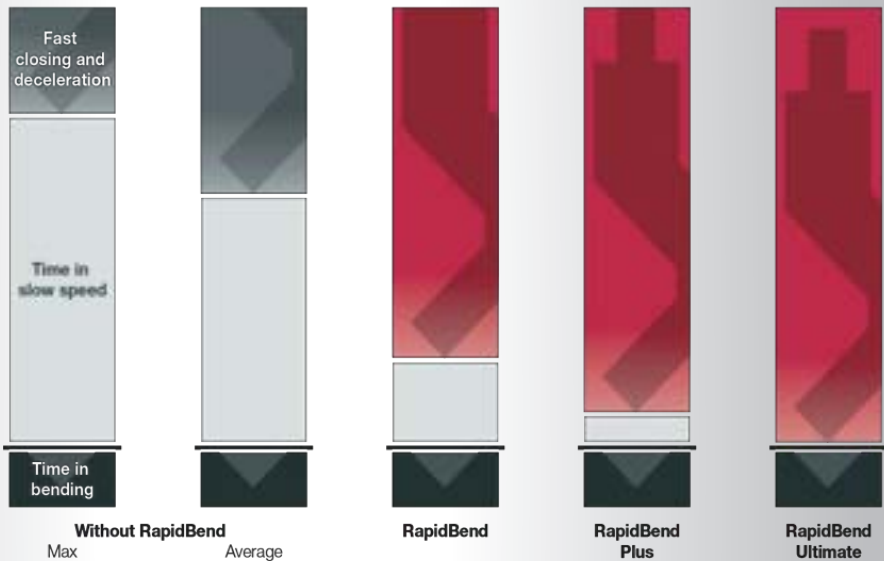
- The most advanced laser systems
- Safety PLCs with manage and monitor
- Constant monitoring of parameters related to safety

Advantages:

- Lazersafe-PCSS A0 LZS-XL
- Lazersafe-PCSS IRIS

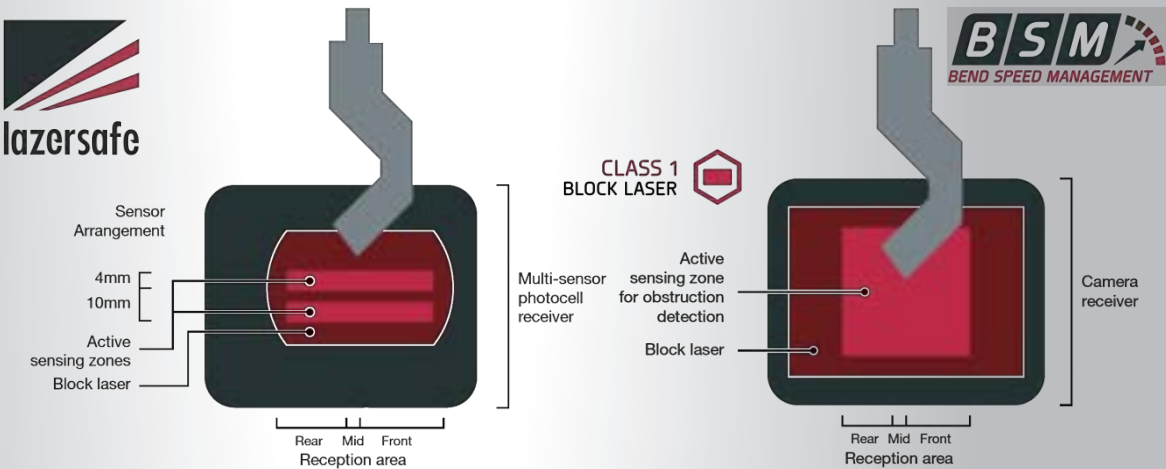
Advantages:

- CLASS 1 Dual Block laser
- Fast response time
- Satefy speed automatically monitored
- Stopping distance automatically monitored
- Status LEDs - Power / Front/middle/rear Sensors
- Tray mode for high speed bending of tray & box shapes
- Complex shapes can be achieved in high speed with Tray/Box Mode.



Automatic tool alignment:

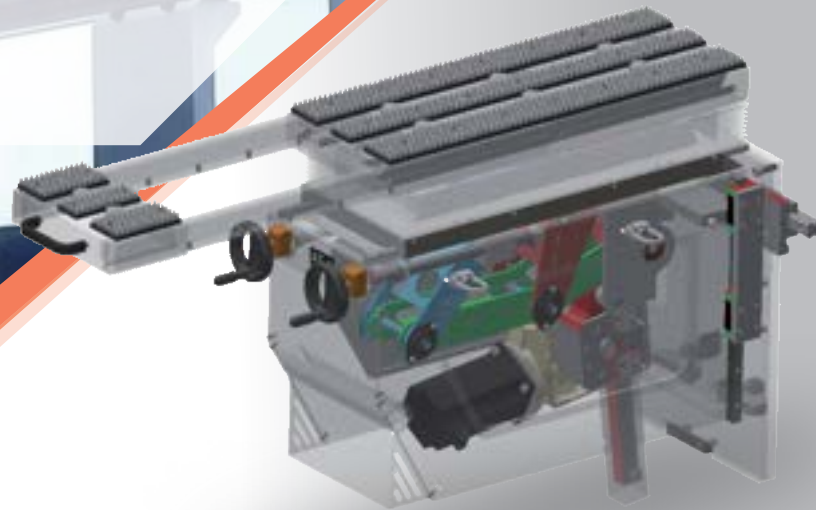
- The systems with a camera receiver feature automatic tool alignment that eliminates the need for precise manual adjustment, and this process can also be fully automated in the CNC via SmartLink, eliminating the need for the operator to press the TOOL ALIGN button.



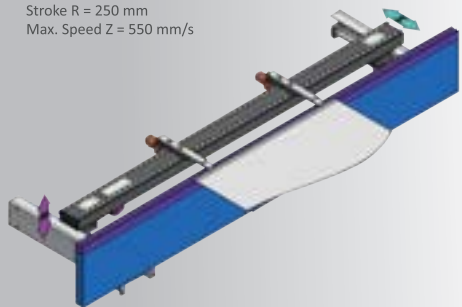


## CNC FRONT FOLLOWER SUPPORTS

- Equipped with a parking, it minimizes the effects of reverse bending.
- Equipped with a brush table to prevent any sheet from being scratched, slipped or dropped.
- It suits for all kinds of large sheet metal, especially thin and large plates, which lightens the operator's work moving heavy pieces, improves bending efficiency and reduces risk for operators.
- Communicating with the control system, it perfectly maintains 100% synchronization with the Y-axis during the bending process.
- Bend as close as 70°
- Load capacity 180kg/380kg each one



RAYMAX® BGA-4 for CNC BackGauge:  
Stroke X = 600mm  
Max. Speed X = 450 mm/s  
Stroke R = 250 mm  
Max. Speed Z = 550 mm/s

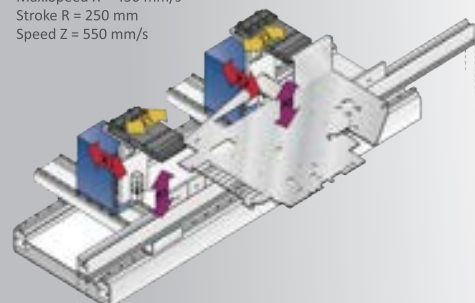


## BGA-4 CNC BACK GAUGE SYSTEM

RAYMAX® press brake are provided and equipped with BGA-4 CNC backgauge constituted by a solid structure in order to assure the best accuracy and high precision in axes positioning.

- Advantages:
- X, R-Axis with HIWIN linear guide and Ball Screw.
  - CNC Z1, Z2-axis with HIWIN linear guide.
  - Unprecedented positioning accuracy of  $\pm 0.05$  (optional  $\pm 0.01$ ).
  - To reach maximum versatility you can automate both backstops with X1-X2 axes, reaching an angle of 80° on oblique bends.

RAYMAX® BGA-6 for CNC BackGauge:  
Stroke X = 600 mm  
Max.Speed X = 450 mm/s  
Stroke R = 250 mm  
Speed Z = 550 mm/s



## BGA-6 CNC BACK GAUGE SYSTEM

RAYMAX® press brake are provided and equipped with BGA-6 CNC backgauge constituted by a solid structure in order to assure the best accuracy and high precision in axes positioning.

- Advantages:
- Fast, highly accurate safe movement
  - Resistance to crash.
  - Maintenance free.
  - Adjustment availability at every point.

## WILA® CLAMPING SYSTEM FOR OPTION

### NEW STANDARD PRO TOP CLAMPING

The Wila's New Standard' Tooling System has become the market leader for precision, quality and flexibility for RAYMAX press brake. WILA's state-of-the-art clamp systems offer options for the ultimate efficiently changing tools with Smart Tool Locator (STL)\*, which has made process easier and safer.

### NEW STANDARD PRO TOOL HOLDERS

The lower fixture of WILA is integrated with the workbench and adopts CRM 7. It is a CNC-driven motor, which has been designed for New Standard Pro Crowning. This motor makes it possible to horizontally insert and remove bottom tools from both ends. The CRM 7 motor is available for crowning lengths up to 4300 mm.

New Standard Pro Top Clamping

New Standard Pro Tool Holders

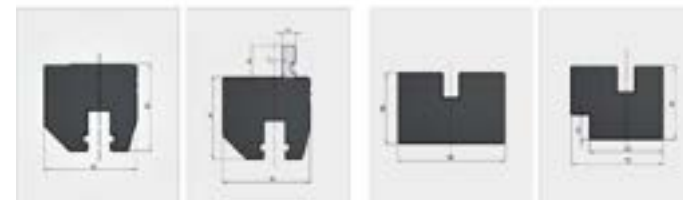
## ZINGS PNEUMATIC CLAMPING FOR OPTION

ZINGS is a premier supplier of press brake tooling for the sheet metal industry, produces clamping, punches, dies. The tooling is designed for the most rigorous environments that demand the very best. Our tooling is designed from Alloy steel that keep your production line moving safe and efficient with reduced downtime and we can provide engineering and sales support as well.



### HYDRAULIC CROWNING TABLE

The Hydraulic Compensation Table Pushes The Clamping Pin To Move Through The Expansion Of The Hydraulic Oil To The Oil Pipe, Thus Clamping And Loosening The Bending Mold, Which Greatly Improves The Time Of Mold Change And Reduces The Work Intensity. The Disturbance Compensation Of The Bending Machine Is Compensated By The Wave-shaped Inclined Block, Which Ensures The Consistency Of The Angle Of The Bending Workpiece.



## ANGLE MEASUREMENT LASER CHECK 10-12(OPTIONAL)



Instead, a complete system is connected to the press brake, which includes connection ports for different press brake controllers, strain gauges to measure spring back and a drive system for sensor movement. If the controller can run lasercheck software, the separation of sensor and CPU can provide a cost-effective solution.

### PRODUCT SUPERIORITY

- Angle measurement
- Spring back measurement
- Very high accuracy
- Works contactless



# RX-E SERIES SYNCHRO ELECTRIC CNC PRESS BRAKE MACHINE



## RX-E SERIES SYNCHRO ELECTRIC CNC PRESS BRAKE MACHINE

- 1. It adopts all-electric servo design precision folding bed, and has a high-rigidity and stable body design.
- 2. With high-speed back gauge and precision dual-servo motor spindle drive, it can achieve stable processing with high-speed precision.
- 3. It can greatly save 60% of the power used, and there is no need to replace the oil and oil pressure valve regularly.
- 4. There is no problem of oil temperature change affecting the machining accuracy, which can reduce the influence of thermal effect.
- 5. It is suitable for rapid production of small samples and stable processing of a large number of high-speed and high-precision.
- 6. It can be used in multi-stage continuous combined bending processing, which greatly improves production efficiency.



## SPECIFICATIONS:

Type		30T1250	40T1600	60T2000	70T2500
Nominal pressure(kn)		300	400	600	700
Workbench length(mm)		1250	1600	2000	2500
Poles distance (mm)		1010	1360	1800	2100
Max Opening Height(mm)		465	560	560	560
Throat depth(mm)		300	300	350	350
Slider speed (mm/s)	Rapid speed	200	200	200	200
	Return speed	180	180	180	180
	Work speed	0-30	0-30	0-30	0-30
X-axis stroke(mm)		450	450	500	500
R-axis stroke(mm)		150	150	150	150
Weight(T)		3.8	4.5	5.5	6.5
Dimensions L*W*H(mm)		2000*1600*2490	2200*1600*2590	2700*1700*2690	3000*1700*2690
Motor (kw)		2*12	2*12	2*24.1	2*24.1

## PRODUCT DETAILS



Front Plate Support



High Precision Backgauge



Lazersafe Laser Safety Protection (Optional)



TSUBAKI HOOVER Lead Screw



# QC12Y SERIES HYDRAULIC SWING BEAM SHEARING MACHINE



## QC12Y SERIES HYDRAULIC SWING BEAM SHEARING MACHINE

The hydraulic swing beam shear is the perfect solution for cutting sheet metal with thickness between 4mm and 20mm. The hydraulic swing beam shear can handle the large dimensions required in tube and roll forming manufacturing lines. Besides handling large dimensions, the hydraulic swing beam shear can also be configured for piercing and blanking. Here at RAYMAX, we guarantee that we can provide you with the hydraulic shear that will get the job done.

### PRODUCT DETAILS

- Frame produced in China by RAYMAX accurately dimensioned through FEA.
- Multi-edge blades for cutting aluminum, carbon steel and stainless steel
- Cutting line illumination and wire for shadow-line cutting
- Stroke counter
- Quick cutting-length adjustment
- Hydraulic and electrical overload protection
- Squaring arm and front support arms
- Bed infill plates with ball transfers
- Delta inverter with ball screw and polished rod with 0.01mm accuracy
- Backgauge adjustment according to blade gap
- Backgauge retraction feature
- Sub-program and programming loop
- Sequence repeat function



Innomotics Main motor



E2IS Controller



Blade Clearance Adjustment



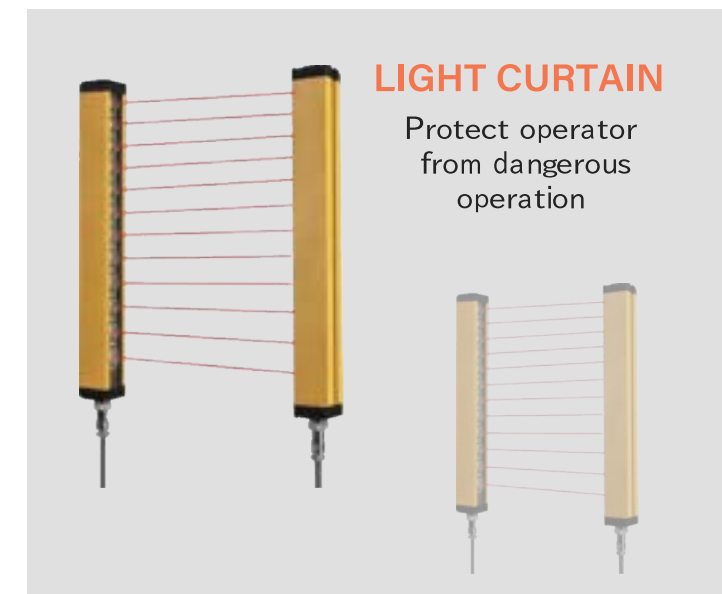
Bosch Rexroth Hydraulic System

## SPECIFICATIONS

Type	thickness of plating mm	Shear Angle (°)	Between Columns mm	Throat Depth mm	number of strokes (min-1)	Blade length mm	Bench height mm	Oil pump ml/r	Main Motor Power kw	Net Weight kg	Outline Size (L×W×H) mm
4X2500	4	1.5	2720	100	18	2600	750	25	7.5	3100	2900x1500x1580
4X3200	4	1.5	3420	100	14	3300	750	25	7.5	5200	3580x1500x1580
4X4000	4	1.5	4220	100	12	4100	750	25	7.5	6700	4480x1500x1580
6X2500	6	1.5	2720	125	18	2600	810	25	7.5	4600	2990x1650x1620
6X3200	6	1.5	3420	125	14	3300	810	25	7.5	5900	3690x1650x1620
6X4000	6	1.5	4220	125	12	4100	810	25	7.5	7700	4480x1850x1700
6X6000	6	1.5	6220	125	12	6100	850	32	11	15000	6480x2000x2000
8X2500	8	1.5	2720	125	18	2600	810	25	11	5000	2990x1700x1700
8X3200	8	1.5	3420	125	14	3300	810	25	11	6000	3690x1700x1700
8X4000	8	1.5	4220	125	12	4100	810	25	11	8000	4480x1850x1700
8X6000	8	1.5	6220	125	12	6100	850	32	15	17000	6480x2000x2000
10X2500	10	2	2720	125	14	2600	850	32	15	8300	2990x1700x1700
10X3200	10	2	3420	125	14	3300	850	32	15	10200	3690x1700x1700
10X4000	10	2	4220	125	12	4100	850	40	18.5	11500	4480x1850x1750
10X6000	10	2	6220	125	4	6100	850	40	18.5	19000	6450x2450x2350
12X2500	12	2	2720	125	7	2600	850	63	18.5	9300	3050x2100x2000
12X3200	12	2	3420	125	7	3300	850	63	18.5	11200	3495x2100x2000
12X4000	12	2	4220	125	6	4100	850	63	18.5	11000	4450x2150x2000
12X6000	12	2.3	6220	125	4	6100	900	63	18.5	23000	6450X2350X2650
16X2500	16	2.3	2720	125	8	2600	850	63	18.5	10400	3145X2127X2135
16X3200	16	2.3	3420	125	7	3300	850	63	18.5	12000	3600X2127X2135
16X4000	16	2.3	4220	125	6	4100	850	63	18.5	15500	4350X2200X2150
16X6000	16	3	6220	125	3~4	6100	900	80	30	27000	6350X2400X2750
20X3200	20	3	3420	120	3~4	3300	870	80	30	15300	4080X2450X2500
20X4000	20	3	4220	120	3~4	4100	870	80	30	18500	4350X2450X2500
20X6000	20	3	6220	120	3~4	6100	920	80	37	30000	6350X2500X2900

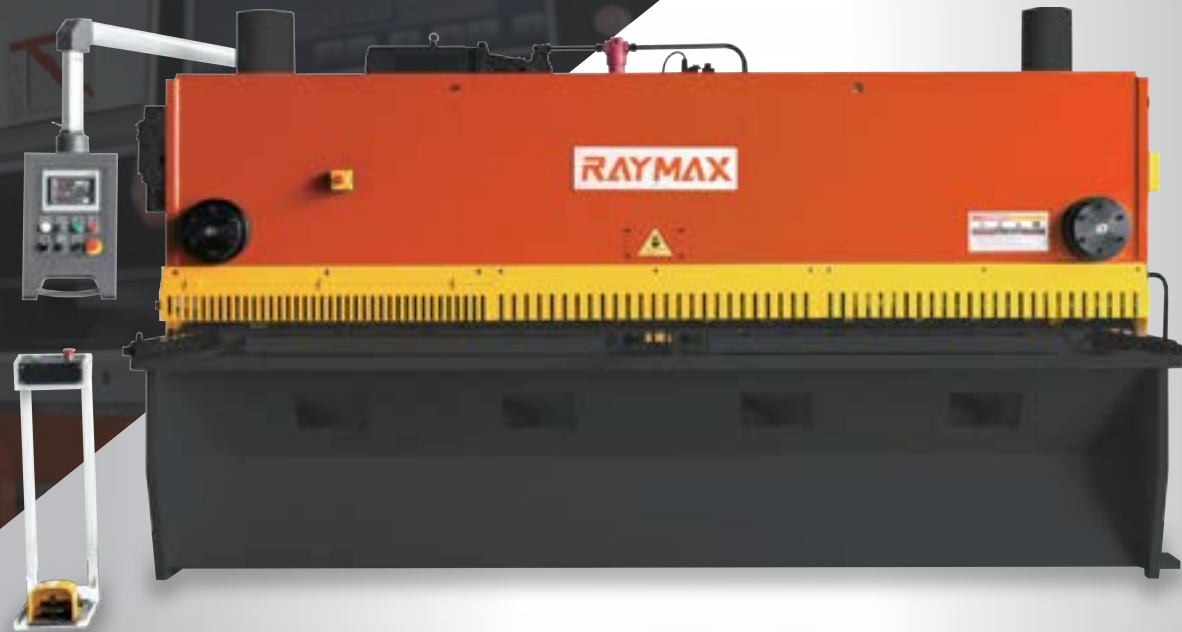
## FRONT FEEDING TABLE

Feeding the metal sheet automatically controlled by CNC Controller with high precision and efficiency.





# QC11Y SERIES GUILLOTINE SHEARING MACHINE



## QC11Y SERIES GUILLOTINE SHEARING MACHINE

The QC11Y series is the top of the line, incorporating all the latest technology to offer the highest level of functionality. With our hydraulic angle setting and user friendly control panel, you will be able to easily cut different material thickness. QC11Y shears could provide speed, precision, accuracy and repeatability.

- ELGO P40T CNC control System.
- Servo motor controlled back gauge (Optional).
- Blade gap adjustment, cutting Angle & Back gauge by P40T CNC System.
- HIWIN Ball screws & Polished rod with 0.01 mm accuracy.
- Squaring Arm and Front Support Arms.
- Germany Bosch-Rexroth Hydraulic.
- Germany EMB Tubing connector.
- Germany Innomotics Main Motor.
- Schneider Electrics.
- Hydraulic & Electrical overload protection.
- Cutting Line Illumination and wire for shadow line cutting.
- Top blade with Four cutting edges and bottom blade with four cutting edges. (6CrW2Si).



**ELGO TOUCH P40T CNC SYSTEM**  
 Cuttings are easier With ELGO TOUCH P40T  
 With easy to use interface P40T enables perfect cutting in seconds by endless programming and material entrance feature.

## SPECIFICATIONS

Type	Cut Thickness mm	Cut length mm	Cutting Angel (°)	SPM min-1	Back Gauge mm	Throat Depth mm	Main Motor kw	Net Weight kg	Outline Size (L×W×H) mm
6×2500	6	2500	0.5~1.5	≥16	600	120	7.5	5140	3150×1500×1600
6×3200	6	3200	0.5~1.5	≥12	600	120	7.5	6250	4000×1700×1800
6×4000	6	4000	0.5~1.5	≥10	600	120	7.5	8520	4650×1700×1800
6×6000	6	6000	0.5~1.5	≥7	600	120	11	17000	6780×2450×2100
8×2500	8	2500	0.5~1.5	≥14	600	120	7.5	5900	3180×1680×1700
8×3200	8	4000	0.5~1.5	≥12	600	120	7.5	6500	4000×1800×1850
8×4000	8	3200	0.5~2	≥10	600	120	11	7360	4680×1800×1850
10×3200	10	3200	0.5~2	≥12	600	120	11	8100	4000×1950×1900
10×4000	10	6000	0.5~2	≥6	600	120	18.5	21800	6880×2260×2100
12×2500	12	2500	0.5~2	≥10	700	170	18.5	9600	3300×2030×1840
12×3200	12	3200	0.5~2	≥9	700	170	18.5	11700	4200×2050×2100
12×4000	12	4000	0.5~2	≥8	700	170	18.5	13800	4800×2270×2000
12×6000	8	6000	0.5~2	≥4	700	320	30	38000	6900×2800×2500
16×2500	16	2500	0.5~2	≥9	700	315	18.5	11100	3310×2240×2000
16×3200	16	3200	0.5~2	≥8	700	320	18.5	12900	4200×2150×2200
16×4000	16	4000	0.5~2	≥7	700	320	18.5	19700	4820×2490×2460
16×6000	16	6000	0.5~2	≥4	700	320	22	44000	7100×2900×2650
20×3200	20	3200	0.5~3	≥5	700	320	30	22000	4190×2400×2300
20×6000	20	6000	0.5~3	≥4	700	150	55	51000	7100×3500×3050
25×2500	25	2500	0.5~3	≥5	800	325	37	20000	3450×2650×2800
25×3200	25	3200	0.5~3	≥5	800	325	37	27000	4130×3100×2800
32×2500	32	2500	0.5~3.5	≥4	1000	350	45	32500	3550×3100×2800
32×3200	32	3200	0.5~3.5	≥4	1000	350	45	42100	4335×3300×3280

## PRODUCT DETAILS



### PNEUMATIC BACK SUPPORTER

Rear pneumatic support system provides support and allows more precise cuts by keeping the material lifted throughout the cut, avoiding hanging down the wide and thin sheets.



# RX-H ENCLOSED EXCHANGED TABLE FIBER LASER CUTTING MACHINE



## RX-H ENCLOSED EXCHANGED TABLE FIBER LASER CUTTING MACHINE

The cutting machine can choose an exchange type workbench, which has an extremely low failure rate and short exchange time, greatly improving production efficiency.

Adopting high-precision double-sided gear rack transmission and linear guide rail, and using a high-power dual drive servo motor drive system, effectively ensuring the speed and accuracy of laser cutting.

### TECHNICAL PARAMETERS

Product Model	RX-3015H	RX-4020H	RX-6020H	RX-6025H
Working Area	3000*1500mm	4000*2000mm	6000*2000mm	6000*2500mm
Laser Power	3000W - 40000W			
Positioning Accuracy	±0.03mm/m			
Repeated Positioning Accuracy	±0.02mm			
Maximum Moving Speed	120m/min			
Maximum Cutting Speed	60m/min			
Drive System	High precision gear and rack + high precision linear guide rail			
Voltage	380V AC±10%/50Hz			

## FIBER LASER RESONATOR IPG

•The fiber laser resonator is a separate unit unattached to the cutting machine; this facilitates the design of laser cutters to deal with high speed cutting of thin materials and high quality cutting of thick materials. The unit contains the high stability resonator, kinetically suspended. The laser resonator includes a communication system featuring the control unit and a closed cooling circuit.



### IPG Laser Generator

IPG fiber laser generator has reliable performance and low overall cost, which can help end users improve productivity while reducing costs. Full cutting capacity, metal plate cutting thickness up to 120mm.



### MAX Laser Generator

MFSC 10000W-12000W single module continuous fiber laser is a high-power fiber laser with high electro-optical conversion efficiency, compact size, good beam quality and maintenance free. It takes into account the high-speed cutting of thin plates and the bright surface cutting of medium and thick plates.



### RAYCUS Laser Generator

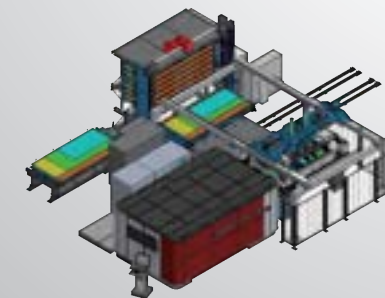
High electro-optical conversion efficiency  
Customizable output fiber length  
QD connector  
Maintenance free operation  
Wide modulation frequency range  
Resistance to high inversion  
High efficiency in thin plate cutting

## LOADER & UNLOADER BRG SYSTEM 2.0

RAYMAX Loader & unloader BRG System 2.0 is the automated solution that best optimizes the flow of material, which improves both the safety at work and the safety of the process. The solutions included range from simple operation to fully automated operation.

Fast processing of the order, since the automatic loading and unloading reduces the preparation times, Considerably great use of machinery with only a slight increase in investment. Access to the production of parts with little manual work.

Automatic loading / Unloading system SMART-LIFTER.



### 1. Improved Productivity & Efficiency

- 24/7 Continuous Operation: Eliminates manual handling delays, enabling unmanned production for high-volume jobs.
- Faster Cycle Times: Automated material transfer reduces idle time between cuts, boosting throughput by 20-40%.
- Batch Processing: Integrated conveyors or robotic arms handle multiple sheets sequentially, optimizing workflow.

### 2. Enhanced Precision & Consistency

- Accurate Positioning: Servo-driven systems or vision alignment ensure precise material placement (± 0.1mm), reducing scrap from misalignment.
- Repeatable Quality: Automated processes eliminate human variability, ensuring uniform cuts across batches.

### 3. Labor & Cost Savings

- Reduced Manual Labor: Minimizes reliance on operators for heavy/risky material handling, cutting labor costs.
- Lower Operational Costs: Optimized material usage and reduced errors decrease waste (e.g., sheet metal, consumables).



### 4. Safety & Ergonomics

- Hazard Mitigation: Removes workers from high-risk zones (laser exposure, moving parts).
- Heavy-Load Handling: Robots/pallets manage bulky materials (e.g., 4x8 ft sheets), preventing injuries.

### 5. Flexibility & Scalability

- Material Diversity: Handles metals (steel, aluminum), plastics, and composites without retooling.
- Smart Integration: Compatible with IoT-enabled systems for real-time monitoring and adaptive scheduling.

### 6. Space Optimization

- Compact Layout: Vertical storage or stack-to-stack systems reduce floor space vs. manual setups.



HIGH POWER-BOCI BRAND

BLT high power is designed and adopts EtherCAT bus technolgy. BLT831 is a full function laser head mounted with all-round sensors, which is the most leading edge product on the market.



BLT4  
For power levels below 30KW




BLT5  
For high-power tube cutting



BLT6  
For ultra-high power laser equipment(max of 40KW)



	BLT Series	VS	Traditional cutting head
	Electric automatic focusing	Focus adjustment speed	Manual focus
	Modular design, easy to replace	Maintenance cost	Overall maintenance
	Real-time monitoring and adjustment	Cutting stability	Depend on manual experience

THE CORE ADVANTAGES OF THE BOCHU BLT SERIES LASER CUTTING HEADS

- 1. High Precision & Stability**

  - Advanced Optical Design: High-quality lenses and optimized beam path ensure micron-level cutting accuracy, ideal for fine details (e.g., thin sheets, complex contours).
  - Dynamic Auto-Focus: Real-time focal length adjustment adapts to varying material thicknesses (e.g., stainless steel to carbon steel) while maintaining consistent cut quality.
  - Robust Construction: Dust-proof and splash-resistant design minimizes environmental interference for long-term reliability.
- 2. Intelligent Adaptive Features**

  - Auto-Calibration & Compensation: Integrated sensors monitor focus position, temperature, etc., automatically correcting thermal drift or mechanical deviations.
  - Material-Specific Optimization: AI-driven algorithms auto-adjust power, speed, and gas pressure for different materials (metals/non-metals).
- 3. High Efficiency & Productivity**

  - High-Power Compatibility: Supports multi-kilowatt lasers (e.g., 6kW+) for fast, clean cuts on thick plates (aluminum, carbon steel).
  - Rapid Dynamic Response: Servo-driven components enable ultra-fast focus adjustment and height tracking, reducing cycle times for mass production.
- 4. Durability & Low Maintenance**

  - Long-Lifetime Optics: Coated lenses and heat-resistant materials reduce degradation, extending service intervals.
  - Modular Design: Quick-replacement modules (nozzles, protective lenses) minimize downtime and maintenance costs.
- 5. Broad Compatibility & Easy Integration**

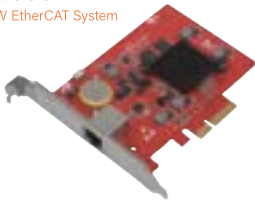
  - Multi-Platform Support: Compatible with mainstream lasers (IPG, Raycus) and CNC systems (Siemens, PA).
  - Industrial Interfaces: EtherCAT, digital I/O, and other protocols for seamless automation integration.
- 6. Energy Efficiency & Eco-Friendliness**

  - Advanced Thermal Management: Efficient cooling systems reduce energy waste during prolonged operation.
  - Gas-Saving Technology: Optimized air/assist gas flow control cuts consumable costs.

FSCUT SERIES 2000-8000 CNC CONTROL SYSTEM :

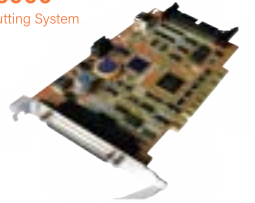
- System upgrade is easy.
- System function can be extended by software itself, not like common CNC system, which must depend on the developers.
- Cypcut control uses hard disk storage process, coming huge amounts of NC memory.(more than 10 GB)  
With the professional automatic typesetting software, the cutting plate availability has increased 1%-5%,cutting productivity 10%-30%,significantly improving the cut quality ,process data management, data collection and statistics and other data management functions, visualization integrated interface, simple operation, easy to learn

**FSCUT2000**  
1000W-3000W EtherCAT System



FSCUT2000C (non-bus architecture) and 2000E (bus architecture) support high-precision three-stage perforation control with low-latency and high-reliability cooperative operation capability.

**FSCUT3000**  
Tube Laser Cutting System



FSCUT 3000S (pulse-controlled, non-bus architecture) 3000DE-M Highly rigid structure for plate and tube, for efficient machining of thick-walled tubes Follow-on support, double chuck.

**FSCUT5000**  
Tube Laser Cutting EtherCAT System



FSCUT 5000 series--Multi-chuck high-precision tube cutting expert 5000A (7-axis or above control) supports 3-chuck/4-chuck configuration, suitable for complex multi-station machining, to meet the needs of high-precision, high-efficiency cutting, optimized for 2-chuck system, streamlined functions, suitable for standard tube cutting (without breakout function) ).

**FSCUT8000**  
High Power Laser Cutting EtherCAT System For ultra high power fiber laser above 8KW



FSCUT 8000 Series - Flexible Configuration for High Performance Cutting Solutions.  
8000A Mainframe + monitor (full Bertram's system) Complete human-machine interaction, convenient operation.  
8000B Mainframe only (no display) External display device required, basic control  
8000C Control card only (no mainframe/display) Class 9 perforation Unlimited power Customized integration, ultra-high performance requirements.



Cooling System

- Adopting WuHan HanLi brand laser specific chiller.
- Equipped with dual control of high and low temperature water to meet the constant temperature requirements of the laser cavity and output port.
  - Ensure the safe and stable operation of the laser.
  - It has functions such as over temperature, flow rate, water level, real-time monitoring of water quality, sound and light alarm.



# RX-D SERIES OPEN TYPE FIBER LASER CUTTING MACHINE



## RX-D SERIES OPEN TYPE FIBER LASER CUTTING MACHINE

The advantages of the single table laser cutting machine are that it is very easy to operate and maintain, and it can realize high-precision cutting. In addition, it allows for automated cutting, which greatly improves productivity. In addition, the cost of a single table laser cutting machine is relatively low, making it an affordable option.



### Transmission System

The combination of German ROR and YYC gear strips, HIWIN and Heren linear guides increases cutting speed.

### Servo Moto

BOCHU as well as DELTA and YASKAWA (Japan)servo motors are available as options for superior performance and long service life.

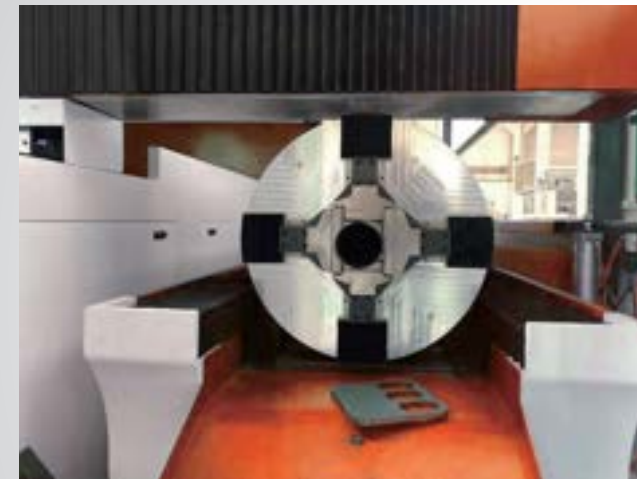


### Reducer

France brand MOTOVARIO reducer. High tensile rigidity, high precision, low noise, ip65 protection level, to ensure the sustainable operation of 90 degrees.

### Pneumatic control

SMC Japan laser cutting special pneumatic system:  $\pm 0.002\text{MPa}$  precision pressure control, 15ms ultra-fast response, intelligent flow adjustment, support multi-channel synchronization, to ensure that the cutting section is smooth and cross-free.



## SELF-CENTERING CHUCK

Automatic electric chuck, claw DC motor drive, clamping motor current is sensitive, adjustable and stable;

Self-centering electric chuck, gear transmission mode, higher transmission efficiency, long working life and high work reliability. Locator® (STL)\* have made the changeover process easier and safer.

The workbench is connected by an industrial dust collector, which is flexible and convenient. It collects dust on the spot and handles it on the spot. It uses a high-power turbo fan with strong suction, which can effectively ensure the cleanliness of the air and ensure a clean and tidy production environment. With sound-absorbing material inside, the noise reduction effect is obvious, so there is no need to worry about noise interference.



## APPLICATION





# RX-TM TUBE FIBER LASER CUTTING MACHINE



## RX-TM TUBE FIBER LASER CUTTING MACHINE

The plate and tube integrated fiber laser cutting machine adopts a cast iron bed, a rack and pinion drive system, and a professional cutting and cutting pipe of the CNC system, so that the user is easy to use and simple to operate and maintain. The machine is designed suitable for both sheet and pipe cutting.

Specially used for cutting 0.5mm-25mm carbon steel sheets and pipes; 0.5mm-10mm stainless steel sheets and pipes; galvanized steel sheets and pipes; electrolytic zinc-coated steel sheets and pipes; silicon steel sheets and pipes and other kinds of thin metal sheets and pipes. The pipes diameter is from 20mm-p220mm.

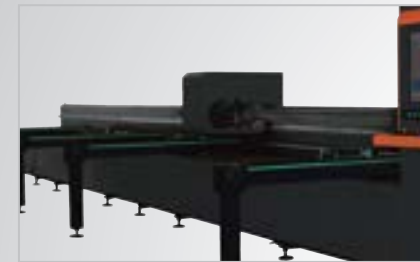
## AUTOMATIC LASER PIPE CUTTING MACHINE

Expert grade ultrahigh speed automatic laser pipe cutting machine, with strong cutting ability, ultra-high stability, high-quality processing, automatic feeding system, extremely low operating cost and ultra-high adaptability. It is the model of metal pipe processing industry.



## SPECIFICATIONS

Laser power	3000W	6000W
Processing format	6000mm	
Pipe diameter (optional)	220mm/ 240mm/ 300mm /360mm	
Y axis travel	6000mm	
Z-axis travel	350mm	
Maximum cutting speed	35m/min	60m/min
Maximum no-load acceleration	60m/min	
Maximum empty cutting plate thickness	20-22mm (depending on the material)	
Incision width	0.10mm (depending on the material)	
Positioning accuracy	0.05mm/m	
Repeat positioning accuracy	+0.05mm	
Rated voltage/frequency	380v/50Hz	



Precision helical rack

### Loading Unit:

- Manual Loading Station: Operator places raw materials (sheets, tubes) onto a conveyor or lift table.
- Powered Conveyor/Roller Table: Transfers materials to the cutting area (capacity: 50-500kg).
- Edge Squaring Device: Aligns materials automatically (accuracy:  $\pm 0.5\text{mm}$ ).

### Unloading Unit:

- Gravity/Chip Conveyor: Removes cut parts and scrap (with sorting options).
- Manual Part Removal Area: Operator retrieves finished components.



Laser Cutting Machine Lead Tracking

An advanced real-time positioning system that dynamically adjusts the laser cutting head's height and focal point to maintain optimal cutting quality on uneven or moving surfaces. It ensures consistent precision in industrial cutting applications.



All automatic pneumatic chuck open clamp, white centering.

- Auto-Centering Technology: Achieves  $<0.02\text{mm}$  concentricity via self-aligning mechanism
- Adaptive Pressure Control: 0.2-0.8MPa adjustable clamping force with real-time monitoring
- Smart Sensing: Integrated pressure sensors detect material presence/positioning

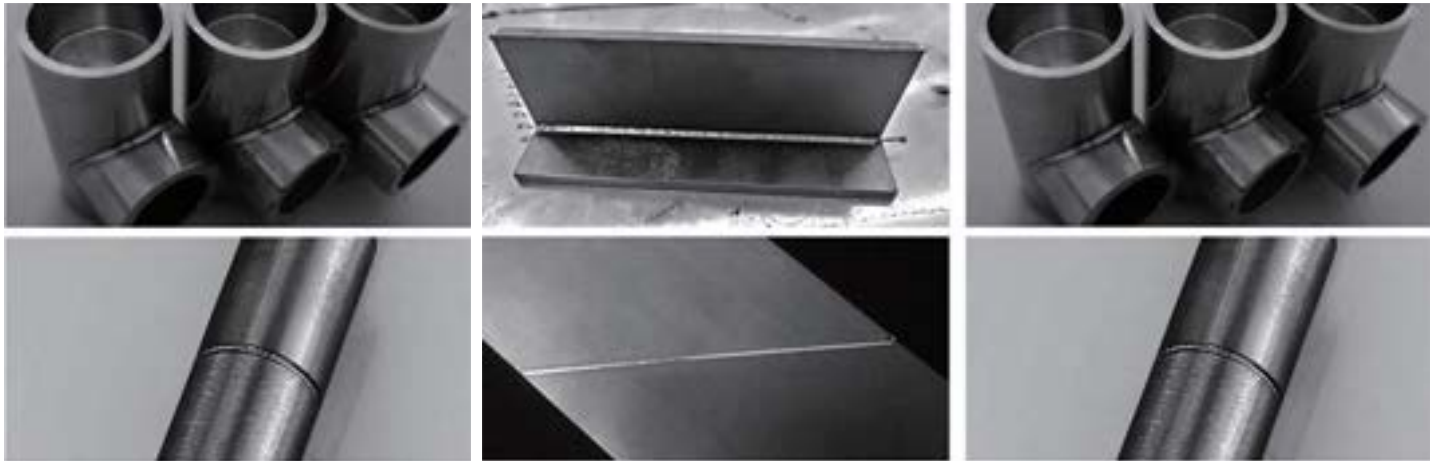


# RX-HW SERIES HANDHELD FIBER LASER WELDING MACHINE



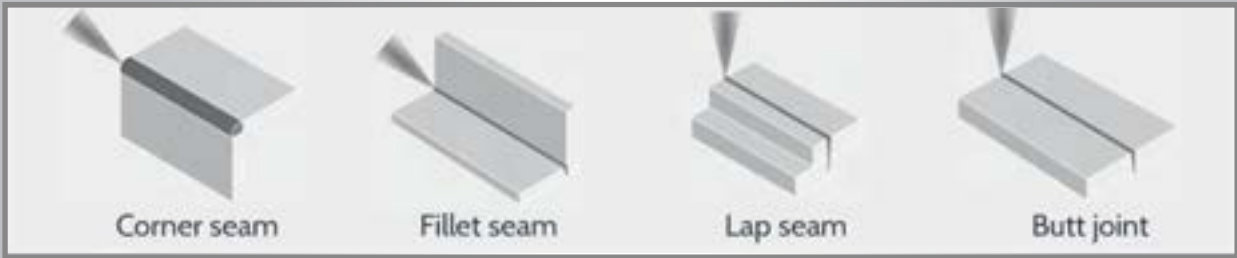
## INTRODUCTION OF MAIN COMPONENTS

Compared with traditional arc welding, RX-HW enjoy following advantages: user-friendly design, technology upgrade and simple operation. Operators do not need skilled technical certificate to achieve exquisite welding. There is no need for secondary grinding after welding, which greatly reduces the professional limitations of the operator and the cost of manpower.



## TECHNICAL PARAMETERS:

COMPARATIVE	MODEL	RX-HW-1500w	RX-HW-2000w	RX-HW-3000w
OPTICAL PROPERTIES	Rated Output Power (w)	>1500	>2000	>3000
	Operating Mode	Continuous/modulation		
	Polarization direction	Random		
	Output Power Adjustment Range (%)	10~100		
	Center Wavelength (nm)	1080+3		
	Output Power Instability	<3%		
	Maximum Modulation Frequency (kHz)	50		
	Indicates Red Light Power (mW)	>0.5		
	Output Interface	QBH		
	Output Fiber Core Diameter (um)	30/100		
ELECTRICAL PROPERTIES	Output Fiber Length (m)	15		
	Operating Voltage	220v + 10%、50/60Hz		
	Maximum Power Consumption (w)	≤8KW	≤10KW	≤12KW
	Control Method	RS232/AD		
OTHER PROPERTIES	Size(WxHxD)	483 X 191 740		
	Weight (kg)	<60		
	Operating Temperature Range (°C)	5~40		
	Operating Humidity Range (%)	<70		
	Type Of Cooling	Water cooling		
	Cooling Water Temperature (°C)	Indoor		
	Cooling Water Temperature (°C)	25		
	Cooling Water Flow (L/min)	>12	>12	>12
	Storage Temperature (°C)	-10~60		





# RX-Y27Y HYDRAULIC FAST PRESS MACHINE



## PRODUCT DESCRIPTION:

1. Y27Y Series C-Type Hydraulic Press is one of the new generation of plate process machine. The press is for cutting, punching, blanking, bending and light stretching work.
2. Totally European design, streamlined looking, steel-welded frame, wide body frame eliminating vibration for improved life and machine, high rigidity and less deformation compact.
3. C- frame provides maximum rigidity and minimum deflection for accurate parts and long tool life. Thick plates and large columns provide you with the stable platform you need for your demanding application.
4. Fully enclosed drive, easily accessible for maintenance, eliminates, exposed over hanging parts and mechanism.
5. High accuracy, high efficiency, simple and convenient operation, good performance, favorable price and best service.

## TECHNICAL PARAMETERS

Machine tool type	25T	40T	63T	80T	100T	125T	160T	200T	250T	315T
Nominal force(KN)	250	400	630	800	1000	1250	1600	2000	2500	3150
Stroke adjustment(mm)	10-150	10-150	10-150	10-150	10-150	10-150	10-180	10-180	10-200	10-200
Maximum stroke of slider(mm)	150	150	150	150	150	150	180	180	200	200
Maximum mounting height(mm)	80-210	80-230	80-280	80-280	80-340	80-340	80-380	80-380	80-400	80-400
Stroke times(l/min)	10-50	10-40	10-40	10-40	10-40	10-40	10-30	10-30	10-30	10-30
Maximum pressure(mpa)	25	25	25	25	25	25	25	25	25	25
Fast down speed(mm/s)	225	230	220	220	210	210	210	210	200	180
Working speed(mm)	10	10	8	8	8	8	8	8	6	6
Return speed(mm)	180	180	180	160	160	150	150	140	130	130
Workbench	L-R(mm)	500	590	650	750	840	840	940	940	1000
	F-B(mm)	390	440	450	540	600	600	700	740	800
	Blanking hole (mm)	100	100	180	180	180	180	200	250	300
Throat depth(mm)	200	250	260	260	300	310	380	400	400	450
Die hole(mm)	40	50	50	60	60	60	70	70	70	80
Height of worktable from the ground(mm)	500	550	550	600	660	680	700	750	750	800
Motor power(kw)	5.5	5.5	7.5	11	11	15	18.5	18.5	22	22

## PRODUCT DETAILS



Hydraulic Cylinder



Control system



Schneider/Siemens Electrics



Workbench

### Applicable fields

This series of hydraulic presses are suitable for various stamping processes such as secondary stretch forming, bending, forming, blanking, and flanging of thin metal sheets, to meet the pressing of multi-planar complex structures, and are especially suitable for the following fields:

### Y27Y Series type Hydraulic Press Product Features

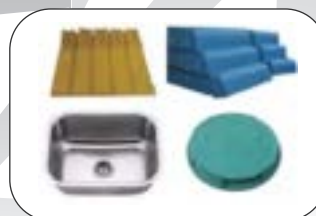
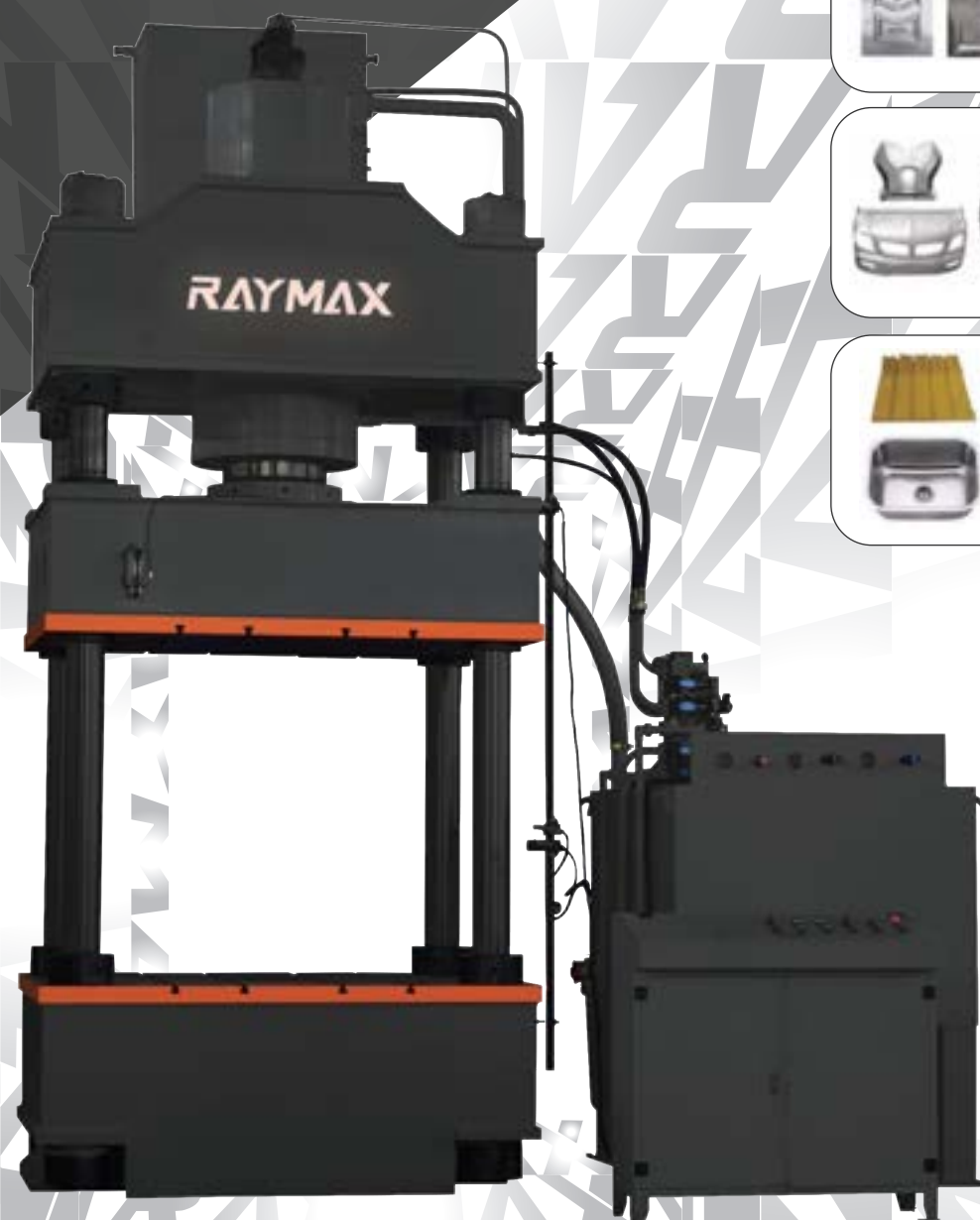
The machine adopts a handle-pedal linkage system and is easy to operate. The hydraulic system uses integrated value block with the characteristic of compact structure and sensitive action. The machine also bears the features of low energy consumption and low noise.

### Y27Y Series type Hydraulic Press Product Application

The type of machine is used for straightening and pressing spindle and other similar type of components. It can also be used for stretching simple shapes of parts or forming and blanking from sheets.



# RX-YTD32 FOUR-COLUMN HYDRAULIC PRESS MACHINE



## PRODUCT DESCRIPTION:

- It's suitable for automatic operations forming, punching, bending, straightening and multi-press assemblies to form automatic production line.
- Hydraulic control integrated system is reliable with long service life and hydraulic impact is small, reducing the leakage of pipe connections.
- Independent electrical control system, reliable, easy maintenance.
- Fully enclosed drive, easily accessible for maintenance, exposed over hanging parts, slide and bolster tables with T-slots.
- Protective fence and the safety interlock ensure the operation safety. Movable single-hand pedal switch makes it easy to operate.
- Working pressure can be customized from 100T to 3600T according to client's requirements.

## TECHNICAL PARAMETERS:

Designation	Specification	YTD32-100	YTD32-160	YTD32-200	YTD32-315	YTD32-400	YTD32-500	YTD32-630	YTD32-800	YTD32-1000	YTD32-1250	YTD32-1600
Rated pressure	KN	1000	1600	2000	3150	4000	5000	6300	8000	10000	12500	16000
Maximum pressure of liquid	MPa	25	25	25	25	25	25	25	25	25	25	25
knock-out pressure	KN	190	400	400	630	630	1000	1000	1600	1600	1600	2000
Stroke of slide	mm	600	700	700	800	800	900	900	900	900	900	900
Stroke of Knock-out	mm	200	200	250	300	300	350	350	350	350	400	400
Daylight	mm	880	1000	1100	1250	1250	1500	1500	1500	1500	1500	1500
Speed of slide	Descent	mm/s	120	100	100	100	100	80	80	80	80	80
	Pressing	mm/s	10-14	10-15	10-15	8-12	6-10	10-15	6-10	10-12	10-12	8-10
	Return	mm/s	120	70	70	60	55	70	60	70	70	55
Effective area of workbench	L-R	mm	720	1000	1200	1260	1240	1400	1500	1600	1600	1700
	F-B	mm	580	800	1200	1200	1200	1400	1500	1600	1600	1600
Motor power	KW	7.5	11	15	22	22	2×22	2×22	2×30	2×30	2×37	2×37

## PRODUCT DETAILS



Hydraulic Cylinder



Germany Innomotics main motor



Germany Bosch Rexroth integrated hydraulic valve



Workbench

## PRESS CONTROL (2 KINDS OPTIONAL)



1. Centralized button control system: With adjustment, hand semi auto operation models at operator's choice.

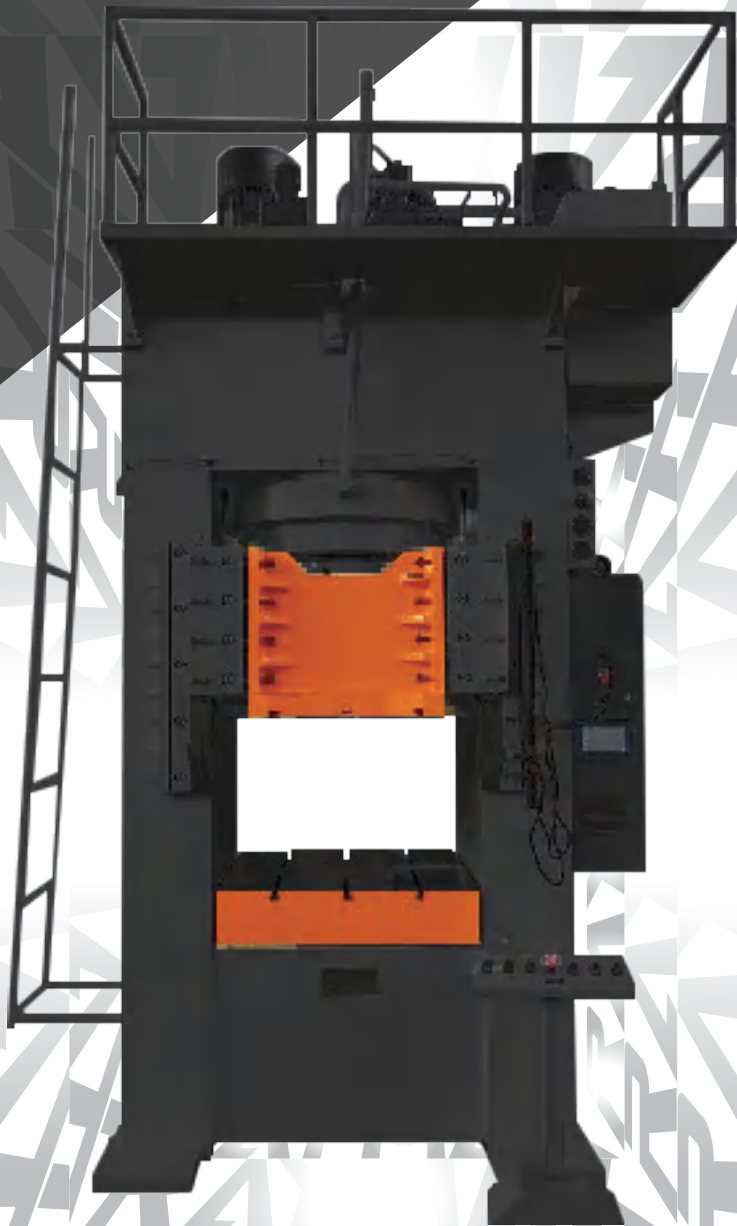


2. PLC controller: Man-machine interface, through the intelligent system to control the parameter adjustment of the whole machine.





RX-Y34 SERIES FRAME  
HYDRAULIC PRESS MACHINE



PRODUCT FEATURES

This machine is suitable for the pressing process of plastic materials, such as punching, bending, flanging, sheet stretching, etc. It can also be engaged in calibration, pressing, grinding wheel forming, cold extrusion of metal parts forming, plastic products and powder products pressing and forming processes. This machine has an independent power mechanism and electrical system, and adopts centralized button control, which can achieve three operation modes: adjustment, manual, and semi-automatic.

SPECIFICATIONS

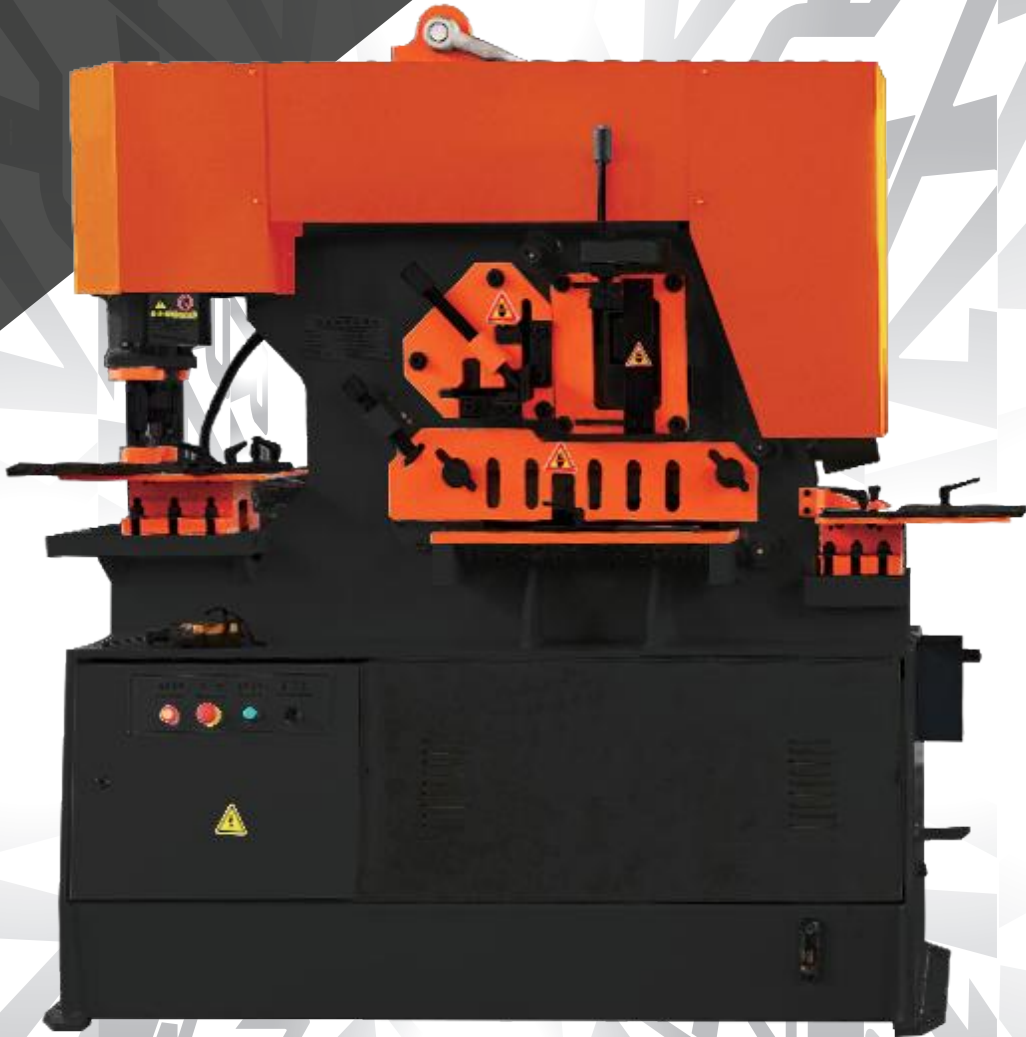
Specification		Y34	Y34	Y34	Y34	Y34	Y34	Y34	Y34	Y34	Y34	Y34
Description		-100	-160	-200	-315	-400	-500	-630	-800	-1000	-1250	-1600
Rated pressure	KN	1000	1600	2000	3150	4000	5000	6300	8000	10000	12500	16000
Maximum pressure of liquid	MPa	25	25	25	25	25	25	25	25	25	25	25
knock-out pressure	KN	190	400	400	630	630	1000	1000	1600	1600	1600	2000
Stroke of slide	mm	600	700	700	800	800	900	900	900	900	900	900
Stroke of Knock-out	mm	200	200	250	300	300	350	350	350	350	400	400
Daylight	mm	880	1000	1100	1250	1250	1500	1500	1500	1500	1500	1500
Speed of slide	Descent	mm/s	120	100	100	100	100	80	80	80	80	80
	Pressing	mm/s	10-14	10-15	10-15	8-12	6-10	10-15	6-10	10-12	10-12	8-10
	Return	mm/s	100	80	70	60	55	70	60	70	70	55
Work table size	L-R	mm	720	1000	1000	1260	1240	1400	1500	1600	1600	1700
	F-B	mm	580	800	900	1120	1200	1400	1500	1600	1600	1600
Motor power	KW	7.5	11	15	22	22	2*22	2*22	2*30	2*30	2*27	2*27

SAMPLE:





# RX-Q35Y HYDRAULIC IRONWORKER MACHINE



## PRODUCT FEATURES

Ironworker machine is a machine tool equipment which integrates the functions of metal cutting, punching, shearing and bending. It has the advantages of simple operation, low energy consumption and low maintenance cost. It is the first choice of metal processing equipment for modern manufacturing industry.

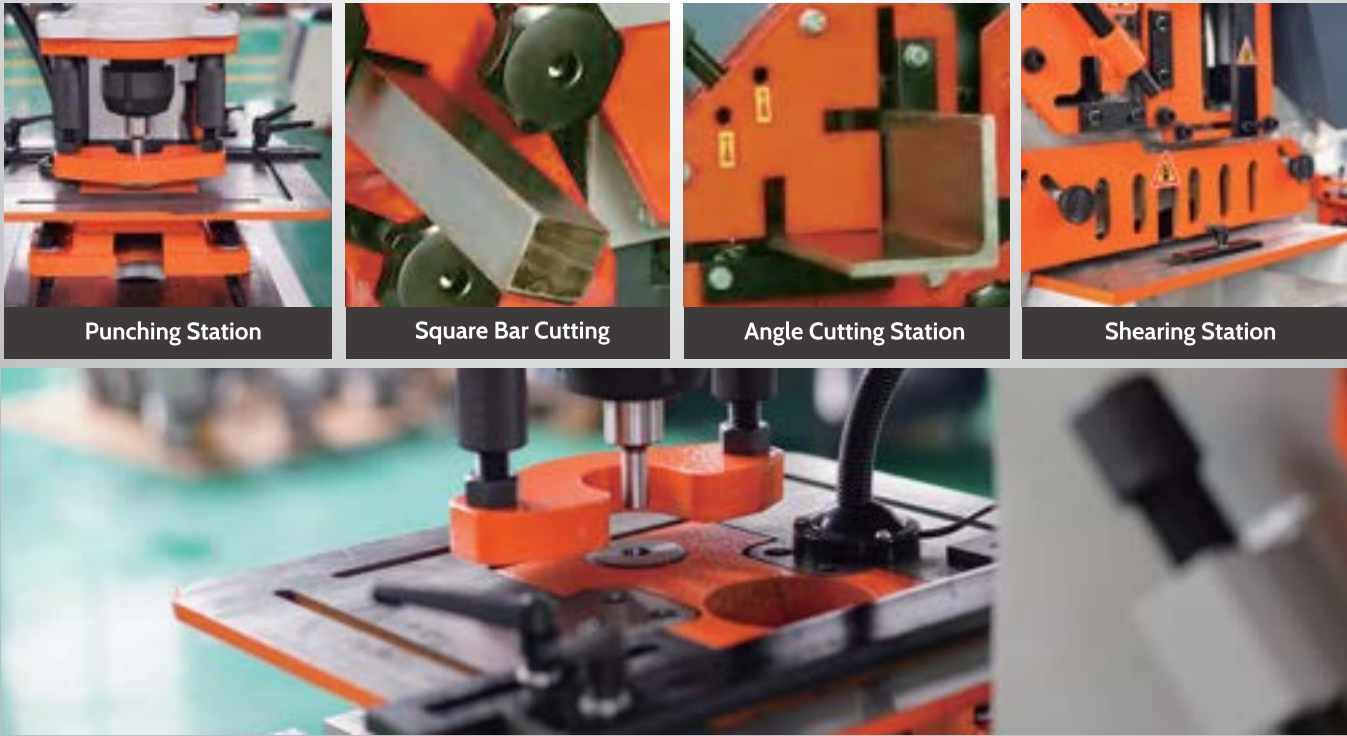
## TECHNICAL PARAMETERS:

Model	Q35Y-16	Q35Y-20	Q35Y-25	Q35Y-30	Q35Y-40	Q35Y-50
Punching Pressure(T)	60T	90T	120T	160T	200T	250T
Max.cutting thickness of steel pltes(mm)	16	20	25	30	40	50
Plate strength(N/mm2)	≤450	≤450	≤450	≤450	≤450	≤450
Angle of Shear	7°	8°	8°	8°	8°	8°
A trip size(T×W)(mm)	16×250 8×400	20×330 10×480	25×330 16×600	30×335 20×600	40×335 30×600	50×300 30×750
Trips frequency(times /min)	11-20	12-20	8-18	6-16	6-16	6-12
Throat depth(mm)	300	355	400	600	530	600
Punch depth(mm)	16	20	25	28	35	40
Max.punching diameter(mm)	25	30	35	38	40	45
Main Motor Power(KW)	5.5	7.5	11	15	18.5	18.5
Overall dimensions(L×W×H) (mm)	1740×810×1830	1950×900×1950	2355×960×2090	2800×1050×2450	2900×1100×2500	3200×1440×2500

## Technical parameter of IRONWORK Q35Y Series

RX-Q35Y Series industrial-grade hydraulic Iron Workers have multiple functions, which includes: Punch, Angle Shear, Flat Shear, Round/Square Bar Shear, Rec. Notch, V-Notch, Channel Shear, I-beam Shear, T-bar Shear, Press Brake, Angle Bending and Pipe Notching. Its standard configurations are: quick-change coupling nut & sleeve, squaring arm with scale, electronic back gauge, gauging table with stops, punching base table, safety guards and more.

## PRODUCT DETAILS





## RX-W11 3-ROLLER MECHANICAL SYMMETRICAL PLATE ROLLING MACHINE



### PRODUCT FEATURES

The structure of this machine is three-roll symmetric, the upper roll in the central symmetrical position of the two lower rolls is vertical upward movement, obtained by the transmission of the wire rod and the worm gear; the two lower rolls are the main transmission roll, making the rotation movement, and the output gear of the reducer and the lower roll are connected to provide torque to the roll. This machine has a compact structure, convenient operation and maintenance.

### TECHNICAL PARAMETERS:

Model	Max. Bending thickness(mm)	Pre-Bending thickness(mm)	Max. Bending width(mm)	Yield limit (Mpa)	Top roller diameter(mm)	Bottom roller diameter(mm)	Central distance(mm)	Coiling Speed (m/min)	Main power (Kw)
W11XNC-60x3200	60	50	3200	245	700	560	700	4	2x22
W11XNC-60x4000	60	50	4000	245	760	600	850	4	2x20
W11XNC-60x4000	70	60	3200	245	720	600	900	4	2x30
W11XNC-60x4000	70	60	4000	245	820	630	900	4	2x30
W11XNC-60x4000	80	70	3000	245	770	600	900	4	2x30
W11XNC-60x4000	80	70	4000	245	900	700	1000	4	2x30
W11XNC-60x4000	100	85	3000	245	900	680	1000	4	4x22
W11XNC-60x4000	100	85	4000	245	980	500	1050	4	4x30
W11XNC-60x4000	120	100	3000	245	950	720	1050	4	4x30
W11XNC-60x4000	120	100	4000	245	1020	550	1050	4	4x30

## RX-W12 HYDRAULICS PLATE ROLLING MACHINE WITH 4 ROLLS



Advantages of Hydraulic Four-Roll Plate Bending Machine:  
Higher precision with synchronized hydraulic control.  
Reduced edge waste via dual-side pre-bending.  
Lower operational effort with CNC automation.  
Wider adaptability for thick/thin plates.  
Enhanced stability from rigid four-roll structure.



### TECHNICAL PARAMETERS:

Model	Max. Bending thickness(mm)	Pre-bending thickness(mm)	Max. Working length of rolls(mm)	Yield limit (Mpa)	Top roller diameter (mm)	Bottom roller diameter (mm)	Side roller diameter(mm)	Main power (KW)
W12-4x2000	4	3.5	2050	245	160	140	120	3
W12-6x2000	6	5	2050	245	190	170	150	4
W12-8x2000	8	6.5	2050	245	210	190	170	5.5
W12-10x2000	10	8	2050	245	230	210	190	7.5
W12-12x2000	12	10	2050	245	270	250	210	11
W12-16x2000	16	13	2050	245	300	270	220	11
W12-20x2000	20	16	2050	245	330	300	240	11
W12-25x2000	25	20	2050	245	360	330	250	15
W12-30x2000	30	25	2050	245	390	360	300	18.5
W12-35x2000	35	28	2050	245	420	390	330	22
W12-40x2000	40	32	2050	245	460	420	360	30
W12-45x2000	45	36	2050	245	510	460	390	37
W12-50x2000	50	40	2050	245	570	510	420	45
W12-4x2500	4	3.5	2550	245	190	170	150	4
W12-6x2500	6	5	2550	245	210	190	170	5.5
W12-8x2500	8	6.5	2550	245	250	210	190	7.5
W12-10x2500	10	8	2550	245	270	250	210	11
W12-12x2500	12	10	2550	245	300	270	220	11
W12-16x2500	16	13	2550	245	330	300	240	11
W12-20x2500	20	16	2550	245	360	330	250	15
W12-25x2500	25	20	2550	245	390	360	300	18.5
W12-30x2500	30	25	2550	245	420	390	330	22
W12-35x2500	35	28	2550	245	460	420	360	30
W12-40x2500	40	32	2550	245	510	460	390	37
W12-45x2500	45	36	2550	245	570	510	420	45
W12-4x2500	4	3.5	3100	245	210	190	170	5.5
W12-6x3000	6	5	3100	245	250	210	190	7.5
W12-8x3000	8	6.5	3100	245	270	250	210	11
W12-10x3000	10	8	3100	245	300	270	220	11
W12-12x3000	12	10	3100	245	330	300	240	11
W12-16x3000	16	13	3100	245	360	330	250	15
W12-20x3000	20	16	3100	245	390	360	300	18.5
W12-25x3000	25	20	3100	245	430	390	330	22
W12-30x3000	30	25	3100	245	460	420	360	30
W12-35x3000	35	28	3100	245	510	460	390	37
W12-40x3000	40	32	3100	245	550	510	420	45
W12-50x3000	50	40	3100	245	610	560	480	55
W12-60x3000	60	48	3100	245	670	620	520	75



# RX-LARGE DEBURRING AND SURFACE DRAWING MACHINES



## PRODUCT FEATURES

Punching, laser, plasma cutting, cutting, machining and other workpieces, removing burrs, flash, chamfers, blunting, etc. The strong wide abrasive belt grinding mechanism is used for pre-treatment of large burrs in the horizontal direction or wire drawing of the whole plate. Four sets of flexible roller brushes rotate in positive and negative directions to ensure continuous and uniform grinding effect. The efficient and clean processing characteristics are suitable for the workpiece to enter the next process of folding, surface spraying, welding, etc., solving the problems of low efficiency, flying dust, inconsistent workpiece grinding, etc. in manual grinding.



## SUITABLE FOR PROCESSING

Stainless steel, carbon steel, aluminum, copper, etc.

## HIGH EFFICIENCY AND COST EFFECTIVE DEBURRING, EDGE ROUNDING, AND SURFACE FINISHING MACHINE

DBR-800 is a very versatile machine mode. The wide abrasive belt head is capable of sanding down and removing the bigger burrs on the parts, or using it for whole surface finishing purpose such as No.4 finishing. The planetary abrasive barrel station that consists of 4 abrasive barrels (2 in clockwise rotation and 2 in counter-clockwise rotation) will further round the edges and the contours. It is suitable for parts from laser cutting, punching, shearing, and etc, generally with small/medium burrs and sharp edges. It produces much more consistent result of deburring and edge rounding in significantly higher efficiency than using manual tools. There will be no more metal dust just dispersing into the air, which will be efficiently extracted from the machine.

## MACHINE CHARACTERISTIC OVERVIEW

- .Dry operation
- .Wide abrasive belt head for sanding out the burrs or surface finishing
- .Planetary type abrasive barrel station for further edge rounding, 4 abrasive barrels, and planetary rotation
- .Vacuum conveyor table to accommodate small parts, smallest parts available 50x50mm
- .Planetary abrasive barrel station will only focus on the edges and contours of the parts, minimum effect on the whole surface
- .Capable of processing minor formed/profiled parts
- .Long life span of consumables
- .Straight forward and user-friendly operation
- .Auxiliary LED lighting inside machine

## TECHNICAL PARAMETERS:

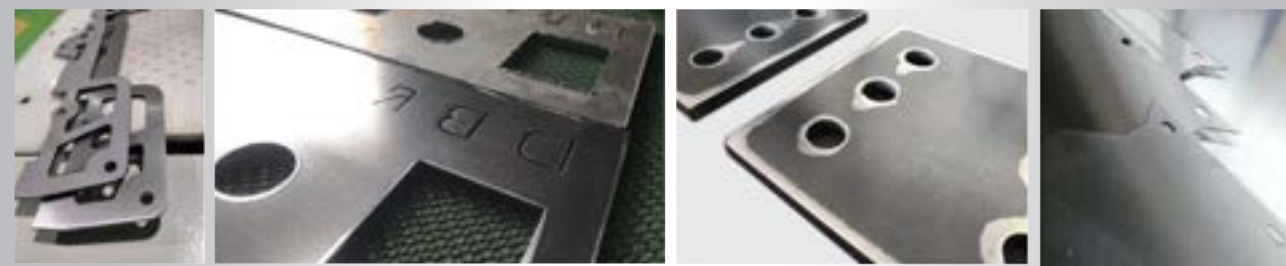
Working Width	≤ 800mm	Specification for wire roller brush	φ300mmx300mm
Minimum machined parts	50*50mm (Effective vacuum adsorption)	Need to be equipped with suction air volume	4000 Cubic hour
Working thickness	1~80mm	Wtotal installed power	~19KW (No vacuuming)
Feed rate	0.5~8m/min (Variable frequency speed regulation)	Working Height	930 ± 30mm
Major shaft speed	2~17/min (Variable frequency speed regulation)	Contour dimension	2400x2050x2200mm
Spindle speed	1000/min (Variable frequency speed regulation)	Weight	3.5T(About)
Number of major axis heads of planets	1	Grinding consumables	Wire Roller Brush、Abrasive Belt
Number of small spindle heads for grinding rollers	4	Belt station	Belt Size:800x1910mm

## IDEAL PARTS

Carbon steel, stainless steel, aluminum, copper, and etc,  
Parts with protective vinyl film (machine will not damage the film, therefore protect the surface underneath)  
Working thickness range from 0.6mm-100mm  
Carbon steel parts that require large radius on the edges  
Dust collection hood is installed inside the machine

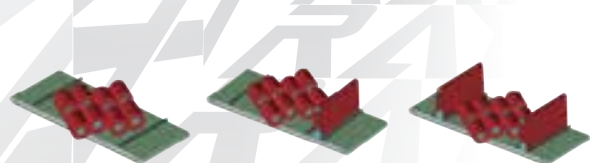
## OPTIONAL CONFIGURATION

- . Additional wide abrasive belt head(s) on the front for sanding down heavier burrs or for high hardness alloy material is available, for example 2 wide abrasive belt heads.
- . Additional wide abrasive belt head(s) on the back for straight line surface finishing is available, for example 1 wide abrasive belt head after the planetary abrasive barrel station.
- . For carbon steel parts that require large radius (for example 2 mm radius) on the edges, optional two units 4 abrasive barrel station in a row is available.
- . Auxiliary LED lighting inside machine.





# RX-COMPACT DEBURRING AND SURFACE FINISHING MACHINE



## PRODUCT FEATURES

DBR-1300 uses the flexible wire roller mechanism to evenly clean the edge of the workpiece and the hole in four weeks to clean the surface and smooth the edge. It is used to remove hair from laser cutting, water knife cutting, pressure, and cutting workpiece. A set of roller brushes carry out metal edge, surface pull wire, special sand belt to remove oxide skin, low processing cost, very low energy consumption, maximum simplification of use, and optimization of machine processing vision. At the same time, it does not affect the size of the workpiece, and obtains a perfect surface effect, providing a safe and reliable guarantee for the later assembly, spraying, etc. process of the sheet metal workpiece.

## EQUIPMENT FEATURES

- Through processing, one-time feeding completes all deburring and chamfering work
- Four sets of flexible grinding roller grinding mechanism
- Standard vacuum conveying platform
- Deburring and chamfering of film workpieces;
- Can process uniform R angle of not less than 1mm, for customers with high R angle requirements
- Use imported consumables, long life and good consistency.



INTERNAL STRUCTURE

## TECHNICAL PARAMETERS:

Working Width	≤ 1300mm	Specification for wire roller brush	φ300mmx350mm
Minimum machined parts	50*50mm (Effective vacuum adsorption)	Need to be equipped with suction air volume	4000 Cubic hour
Working thickness	1~80mm	Wtotal installed power	~25KW (No vacuuming)
Feed rate	0.5~8m/min ( Variable frequency speed regulation )	Working Height	930 ± 30mm
Major shaft speed	2~17/min ( Variable frequency speed regulation )	Contour dimension	2400x2600x2200mm
Spindle speed	1000/min ( Variable frequency speed regulation )	Weight	5T(About)
Number of major axis heads of planets	1	Grinding consumables	Wire Roller Brush、Abrasive Belt
Number of small spindle heads for grinding rollers	8	Belt station	Belt Size:800x1910mm

## METAL DEBURRING EDGE ROUNDING AND FINISHING MACHINE

DBR-1300 is a very versatile machine model. It is suitable for parts from laser cutting, punching, shearing, and etc, generally with small/medium burrs and sharp edges. There will be no more metal dust just dispersing into the air, which will be efficiently extracted from the machine.

## MACHINE CHARACTERISTIC OVERVIEW

- Dry operation
- Wide abrasive belt head for sanding out the burrs or surface finishing
- Planetary type abrasive barrel station for further edge rounding, 6 abrasive barrels, and planetary rotation
- Vacuum conveyor table to accommodate small parts, smallest parts available 50x50mm
- Planetary abrasive barrel station will only focus on the edges and contours of the parts, minimum effect on the whole surface
- Capable of processing minor formed/profiled parts
- Long life span of consumables
- Straight forward and user-friendly operation
- Auxiliary LED lighting inside machine
- Dust collection hood is installed inside the machine.

## OPTIONAL CONFIGURATION

Model DBR-1300. It does not have wide abrasive belt head. It is suitable for parts with good cutting quality with only minor burrs and sharp edges. Additional wide abrasive belt head(s) on the back for straight line surface. Additional wide abrasive belt head(s) on the front for sanding down heavier burrs or for high hardness alloy material is available, for example 2 wide abrasive belt heads. finishing is available, for example 1 wide abrasive belt head after the planetary abrasive barrel station. Working width of 1300mm/1600mm is available

