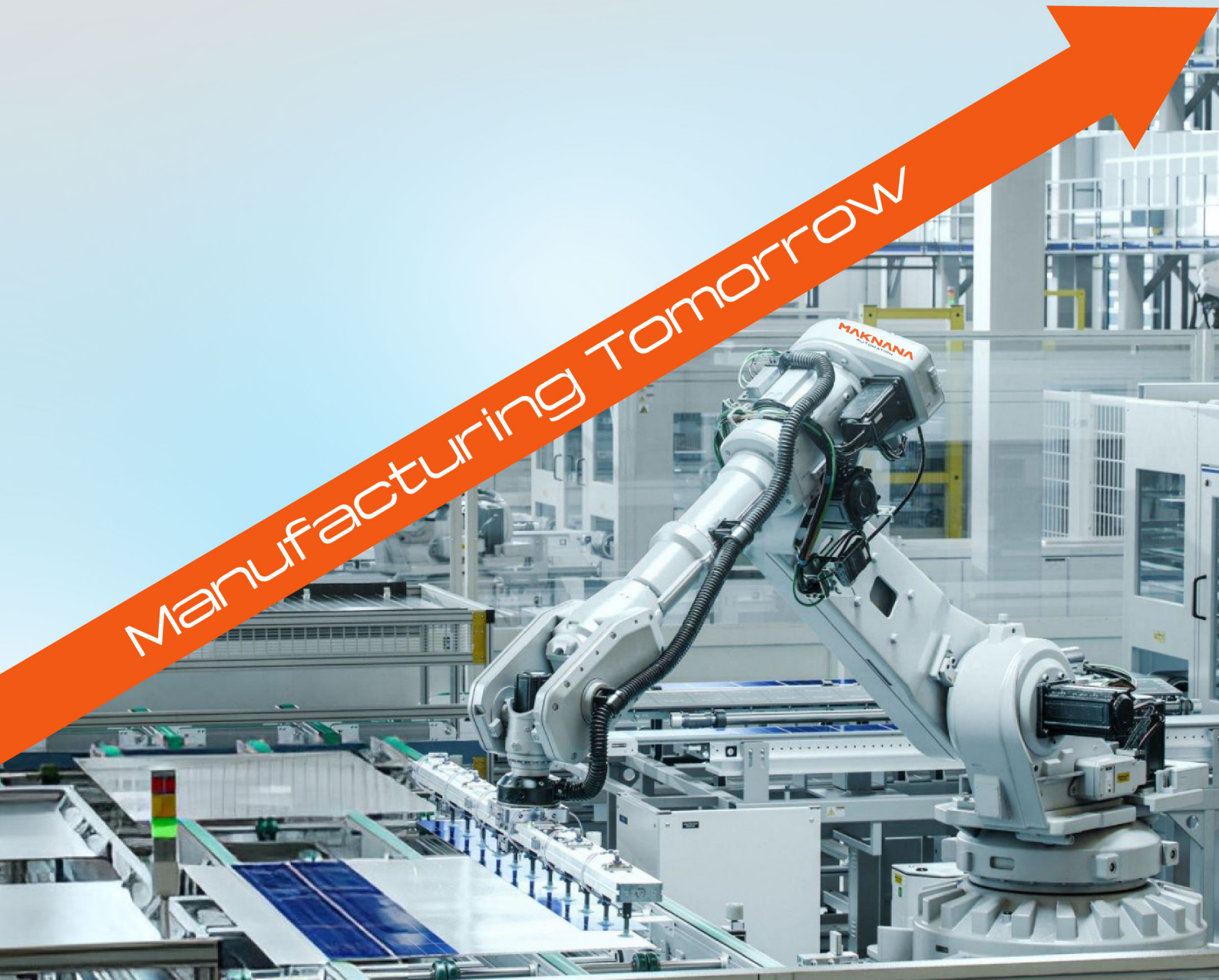


MAKNANA

AUTOMATION

Manufacturing Tomorrow





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Introduction

An industrial automation solutions company, committed to advancing the Kingdom's industrial sector through smart and tailored solutions. Derived from the Arabic word "مكننة" meaning mechanization, MAKNANA embodies efficiency and effectiveness.

We specialize in sourcing, integration, and deployment of industrial machinery, automation systems, and turnkey solutions customized to the needs of manufacturers.



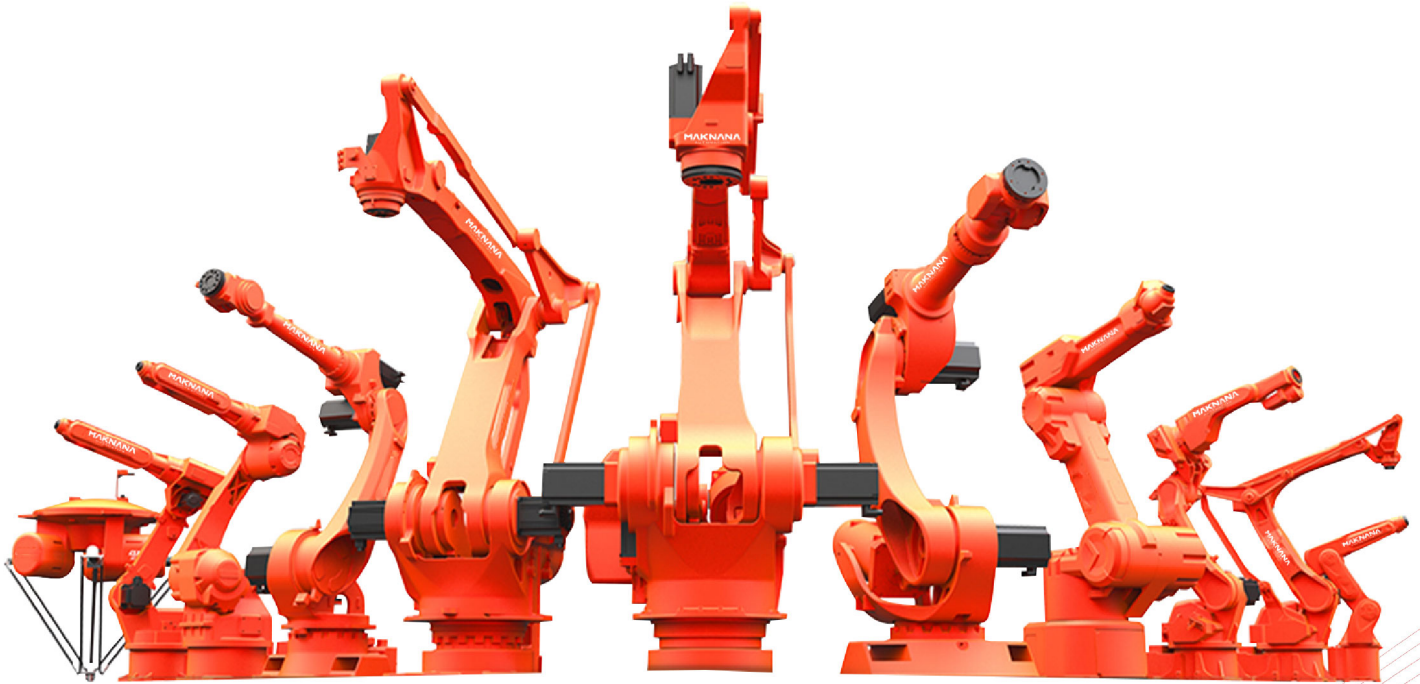
Automation

Innovate - Automate - Elevate

Automate smarter with systems built to streamline production, reduce errors, and boost throughput. Ideal for packaging lines, material handling, and high-speed assembly processes.

MAKNANA
AUTOMATION

INDUSTRIAL ROBOTS



OUR ROBOTS NEVER SLEEP



HIGHEST PRECISION

Engineered with teach-free capability, our robots achieve calibration accuracy of up to 0.002 mm maximum error along their entire programmed path, ensuring flawless positioning and eliminating any potential deviations.



PROTECTION

With IP 65 protection, the robot ready for 24 hours a day in dry, dusty, and humid environments.



FLEXIBLE INSTALLATION

It can be mounted on the floor, wall, ceiling, or at any angle.



EFFICIENT

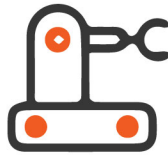
The competitive purchase price, low operating costs and maintenance costs.



Arc Welding



Cutting



Handling



Machine Loading
& Unloading



Picking
& Packing



Spraying



Stamping



Pelletizing



Assembly /
Subassembly

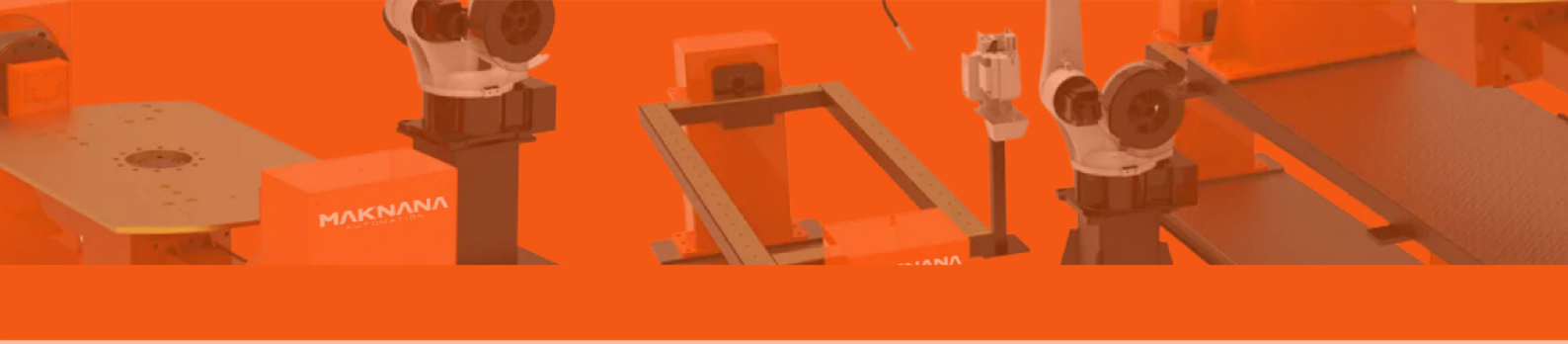


Customization

WELDING ROBOT



MAKNANA offers robotic welding arms that can provide perfect repeatability to produce consistent and high-quality welds. Our welding robots help enhance efficiency and decrease cycle times. Using automated welding systems and processes allows you to cut on direct labor costs as well as conserve materials. MAKNANA can customize robotic welding systems to match every client's different requirements.



ROBOT WORKSTATIONS

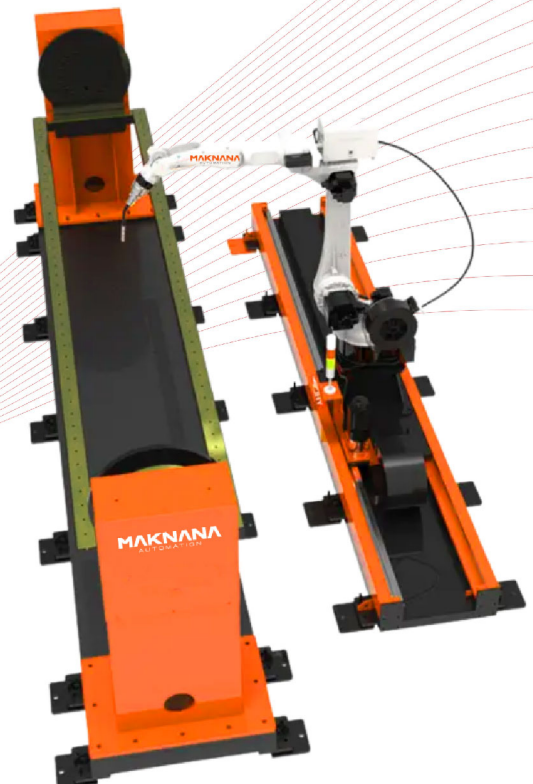
8-AXIS WORKSTATION (DUAL-ROTATIVE POSITIONER)

This welding robot workstation features a high-performance 6-axis robotic arm paired with dual 1-axis welding positioners, creating a powerful 8-axis configuration. Designed for front and back side welding and multi-angle operations. The dual rotary positioners allow for continuous workflow while one side is being welded, the other can be safely loaded, reducing downtime and maximizing output. This solution significantly enhances productivity, consistency, and quality in demanding manufacturing environments.



8-AXIS WORKSTATION (ROTATIVE POSITIONER, GUIDE RAIL)

This high-efficiency 8-Axis Robotic Welding Station combines a 6-axis industrial welding robot with a rotative table positioner and track system for extended reach and flexibility. The system is specifically designed for long or oversized workpieces, enabling precise welding across the entire length with smooth, continuous motion. The positioner rotates the workpiece while the robot moves along its linear track, allowing for complex, multi-angle welds on large structures. Ideal for industries requiring high-precision welds on frames, beams, or structural parts, this setup enhances productivity, reduces repositioning time, and ensures consistent, high-quality results across every weld.



9- AXIS WORKSTATION (ROTARY POSITIONER)

Optimize your welding operations with our innovative dual-workstation robotic system. This design significantly enhances efficiency by allowing continuous robot operation while the robot welds on one table, workers can safely load and unload workpieces on the other. This seamless workflow minimizes downtime, maximizes productivity, and ensures a consistent, high-quality output for your manufacturing needs.



9- AXIS WORKSTATION (GANTRY TYPE)

The nine-axis intelligent welding robot features an extended arm reach, allowing for precise control at multiple angles and enabling all-position welding, including flat and vertical welding. Work areas can be set up on both sides of the track or arranged in segments for small-part welding. Welding and handling can be carried out simultaneously, effectively enhancing production efficiency.



CUTTING ROBOT



MAKNANA embraces advanced automation with the integration of our Laser Cutting Robot. This innovative system offers precise, fast, and efficient cutting across a wide range of materials and applications. With high accuracy and minimal waste, the laser cutting robot ensures consistent results while reducing reliance on manual processes. It's designed to meet the demands of modern production environments, supporting flexibility, quality, and increased productivity. This reflects MAKNANA's ongoing commitment to smart technology and operational excellence.

PALLETIZING ROBOT

The palletizing robot can improve the efficiency of handling and palletizing, reducing manpower of the enterprise, reduce the labor cost, and improve the production efficiency of the enterprise. Our robot supports a variety of palletizing processes, including simple palletizing, batch setting, single line single stacking, double line double stacking, simple destocking and other functions. It is easy to set up, highly efficient, providing stable and reliable operations.



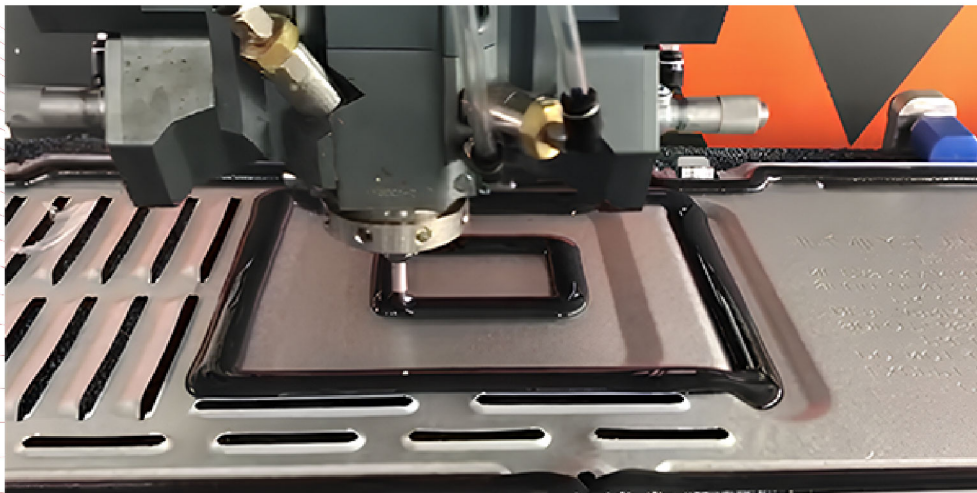
PICK AND PLACE ROBOT

MAKNANA offers pick and place robotic arms that can keep up with the demands of modern manufacturing environments. These machines help increase your production output in a cost-effective way by reducing labor costs, minimizing downtime, and improving process consistency. These robotic arms eliminate repetitive manual tasks. Thus, allowing your workers to focus more on complex jobs. Reduce placement errors with our robotic arms through a properly integrated system.



GLUING ROBOT

MAKNANA robotics supplies standard 4 axis and 6 axis industrial robots which can be applied in gluing applications. Our gluing robots have high positioning accuracy and high stability and MAKNANA gluing robots have high flexibility which can be used in different gluing applications, in some difficult cases like gluing on curved or uneven surfaces and reaching tight or enclosed areas MAKNANA gluing robots also have stable performance.



PAINTING ROBOT

Our advanced spray-painting robots bring precision, speed, and reliability to your fingertips. Experience the blend of technology and craftsmanship, ensuring every surface is flawlessly coated. Applicable in various manufacturing fields, such as automobile manufacturing, aerospace, home appliance manufacturing, etc. Embrace innovation with MAKNANA and elevate your painting projects to new heights.



ROBOTIC BENDING CELL



A robotic bending cell is an advanced automated system that integrates a press brake with a 6-axis robot, designed to perform all standard bending operations, from picking flat parts and bending the workpiece to unloading the finished part.



Flexible standalone bending cells for diversified applications thanks to the integration in a press brake.



Fully unmanned production combined with the widest range of modular machines that integrate sheet grabbing, centering, bending and stacking.

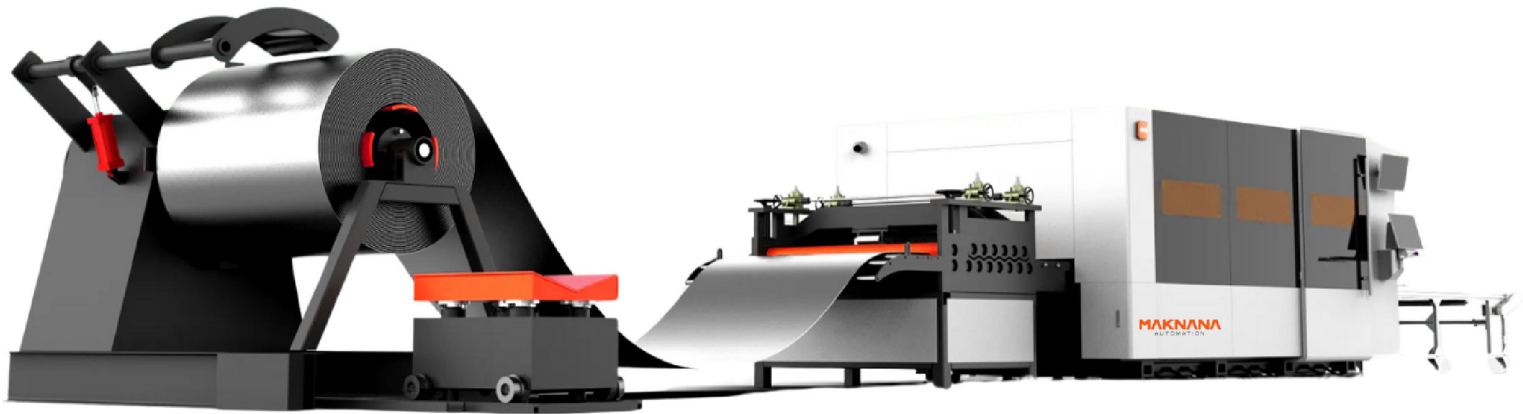


Process-oriented approach simplifies and optimizes production flow through advanced robotics integration and modular automation.



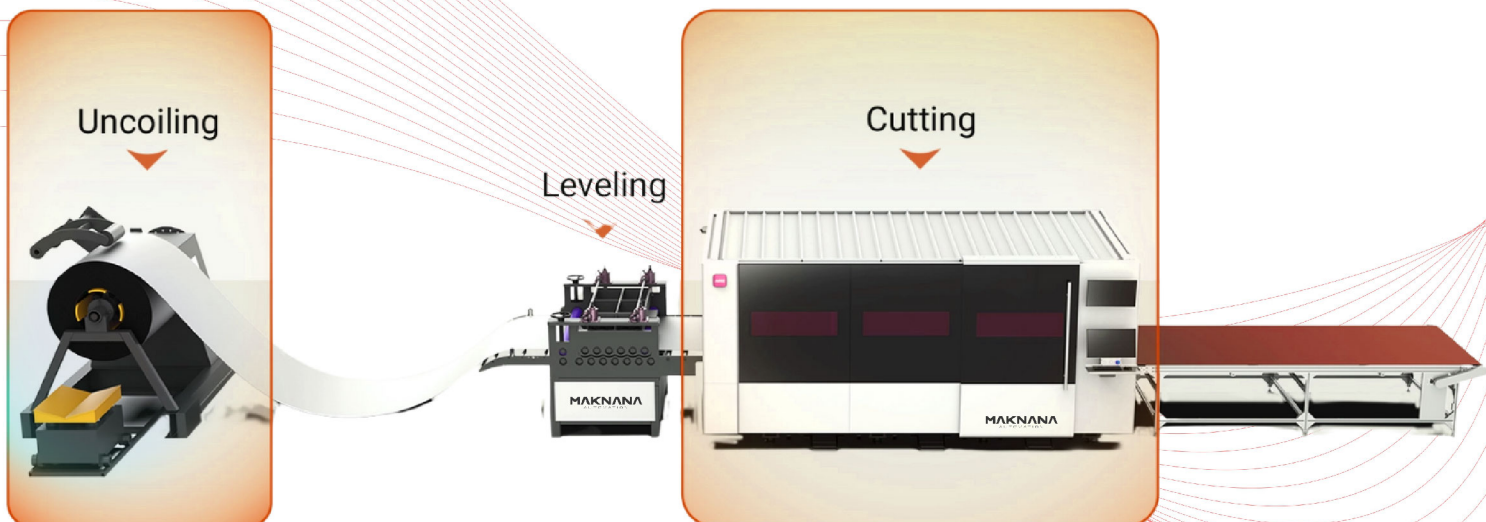
High repeatability of the parts and fast return of the investment, thanks to the robot assisted bending process applied to the servo-electric technology.

COIL-FED LASER CUTTING MACHINE

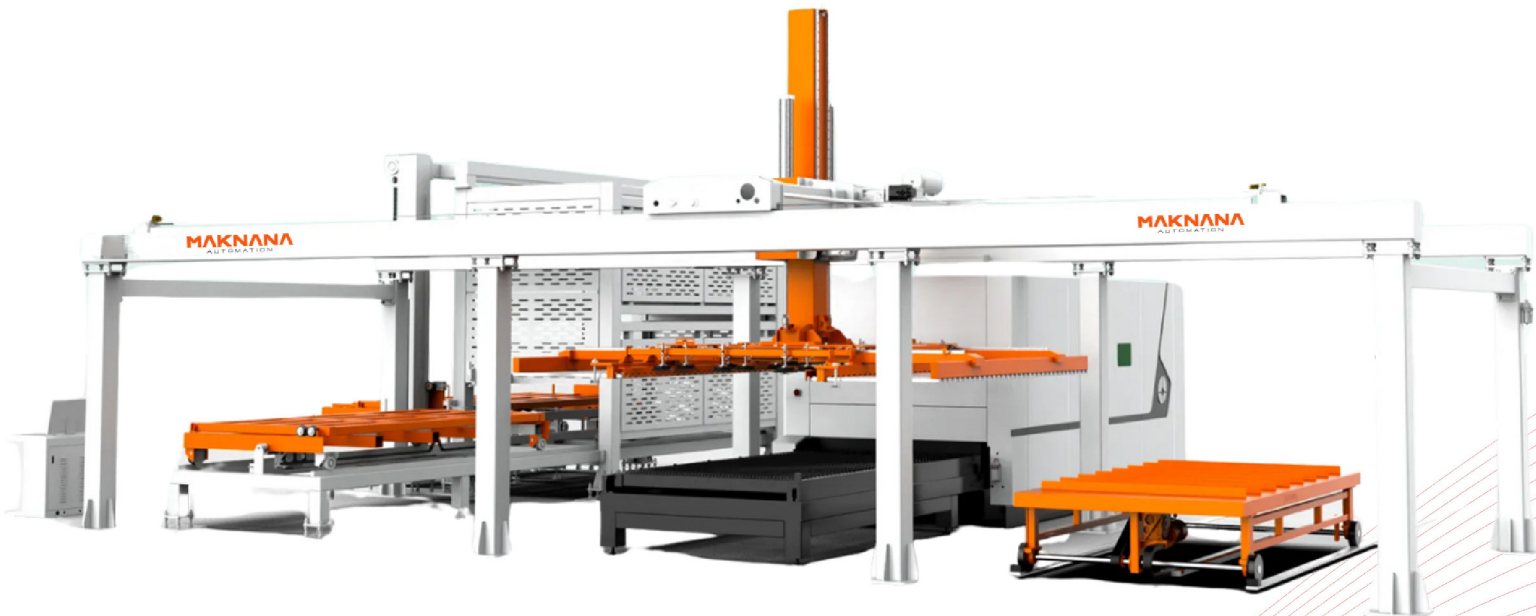


FROM COIL TO PART

Coil Fed Laser Cutting is an advanced manufacturing process that combines the efficiency of coil-fed material handling with the precision of laser cutting. Instead of using pre-cut sheets, this coil fed laser system feeds metal directly from a coil, flattens it, and cuts it into custom shapes — all in a continuous, automated line. Coil-fed laser blanking lines feature enhanced efficiency, precision, cost-effectiveness, versatility, and sustainability compared to traditional methods. This coil fed laser cutting technology makes it a valuable investment for a wide range of applications across various industries such as Automotive, HVAC, Kitchenware, Cutlery, Industrial kitchens, Home appliances, Steel Service centers, Cabinets, Construction tools, Tanks, and Silos



AUTOMATIC SHEET STORAGE & LOADING SYSTEM



This series enables fully automatic sheet loading, unloading, and storage. Its flexible layout and wide compatibility allow one material storage tower to serve multiple cutting machines, greatly enhancing production efficiency.

SMART SCHEDULING & EFFICIENT FLOW

Materials are allocated on demand to ensure efficient and rapid flow, effectively reducing idle time and unnecessary delays

HIGH COMPATIBILITY & VERSATILITY

Compatible with multiple models of laser cutting machines and sheet metals of various sizes within the supported range, offering high flexibility and great scalability

MODULAR STRUCTURE & EASY INSTALLATION

Modular design with flexible layout and compact footprint, meeting diverse production line deployment needs

SAFE & RELIABLE OPERATION

Multiple safety monitoring systems ensure long-term stable and secure operation

AUTOMATED METAL PROCESSING LINE



High automation from sheet coil feeding, decoiling, leveling, cutting, bending, welding to unloading

A Production Line Turns Raw Material to End-products. This metal processing line makes use of advanced manufacturing technologies and highly intelligent devices to support metal manufacturing industry's demands for efficient, flexible and custom-made production.

ONE-STOP PRODUCTION

Carry out decoiling, cutting, bending and welding simultaneously and realize one-stop work from raw materials to finished products

LOWER LABOR COSTS

1 worker may take control of the whole line, without manual intervention at work. This helps to reduce number of workers, labor intensity and accident rate

HIGHER WORK EFFICIENCY

Robot and other automated devices go through the whole work. Therefore, batch production will last for 24h a day

BETTER FINISHED PRODUCTS

Its minimum error caused by artificial factor will secure the high quality and consistency among finished products, and minimize the reject ratio



Steel Solutions

Built for Power, Engineered for Precision

Tackle the toughest jobs with machinery designed for heavy-duty cutting, bending, and fabrication. Perfect for industrial steelworks and structural projects.



MAKNANA
AUTOMATION

TANDEM PRESS BRAKE



Model (ZYB-)	63t/2 500	100t/ 3200	100t/ 4000	125t/ 3200	125t/ 4000	160t/ 3200	160t/ 4000	200t/ 3200	200t/ 4000	250t/ 3200	300t/ 3200	400t/ 4000	500t/ 6000	600t/ 6000	800t/ 6000
Nominal Force (kN)	630	1000	1000	1250	1250	1600	1600	2000	2000	2500	3000	4000	5000	6000	8000
Bending Length(mm)	2500	3200	4000	3200	4000	3200	4000	3200	4000	3200	3200	4000	6000	6000	6000
Vertical Distance (mm)	300	350	400	400	400	420	420	400	400	420	420	420	550	550	600
Throat Depth (mm)	400	400	400	400	400	400	400	400	400	400	400	400	500	500	620
Stroke (mm)	150	200	200	200	200	250	250	250	250	300	300	300	300	300	300
Max. Opening (mm)	350	450	450	450	450	470	470	460	460	470	470	470	550	550	600
Main Power (KW)	5	8.7	8.7	8.7	10.2	13.2	13.2	13.2	13.2	13.2	16.7	21.4	26.9	37	55
Main Power (KW)	4+1+2 (Y1, Y2, X, R)+V (Manual operation Z1, Z2)									4+1 (Y1, Y2, X, R)+V			3+1 (Y1, Y2, X)+V		
Axis	Motorized Compensation														
X-travel (mm)	600								600				800		
X-Speed	200														
Overall Length (mm)	3100	3700	4500	3700	4500	3700	4500	4500	5000	4700	4700	5500	6500	6500	6500
Overall Width (mm)	1500	1650	1650	1700	1700	1700	1700	1800	1800	1800	1800	2450	2800	2900	2950
Overall Height (mm)	2300	2500	2500	2500	2500	2700	2700	2700	2700	2900	2900	3100	5300	5300	5300
Approx. Weight (Ton)	5.8	8.1	8.5	10.5	11.2	12.3	13.5	14.5	15.5	15.5	16.8	31	55	70	90

Model (ZYB-)	800T/ 8000	1000T/ 10000	1000T/ 8000	1200T/ 12000	1200T/ 10000	1200T/ 8000	1200T/ 6000	1400T/ 14000	1600T/ 16000	1600T/ 10000	1600T/ 8000	2000T/ 20000	2000T/ 12000	2000T/ 14000
Nominal Force (kN)	8000	10000	10000	12000	12000	12000	12000	14000	16000	16000	16000	20000	20000	20000
Bending Length (mm)	8000	6000	8000	6000	7000	8000	10000	7000	6000	7000	8000	10000	12000	14000
Vertical Distance (mm)	620	620	620	620	620	620	620	620	600	600	600	700	900	1100
Throat Depth (mm)	600	600	600	600	600	600	600	600	600	600	600	650	800	800
Stroke (mm)	400	400	400	400	400	400	400	400	400	400	400	450	500	500
Max. Opening (mm)	600	600	600	600	600	600	600	600	600	600	600	650	750	750
Main Power (KW)	55	2×37	2×37	2×45	2×45	2×45	2×55	2×55	2×55	2×55	2×55	2×75	2×75	2×75
Axis	3+1 (Y1, Y2, X)+V													
Compensation	Motorized Compensation													
X-travel (mm)	1000													
X-speed	200mm/s													
Overall Length (mm)	8500	6500	8500	6500	8500	8500	10500	7200	8500	8500	10500	12500	12500	14500
Overall Width (mm)	2950	3000	3000	3150	3300	3300	3500	3300	3300	3300	3500	3800	3800	3800
Overall Height (mm)	5300	5600	6100	5850	7150	7150	8300	7150	8000	8300	8300	8300	8300	8300
Approx. Weight (Ton)	120	100	130	130	150	150	170	170	190	230	250	290	320	350

POWER-BEND PRO

CNC PRESS BRAKE

Perfect Combination of Speed and Power...

The Power-Bend Pro Series has been re-designed according to the current needs of our users and has reached to a unique structure with its electronic and mechanical equipment which gives excellent results in normal, stainless, thin and thick sheet metals. The Power-Bend Pro Series Press Brakes are among the most preferred models with the user-friendly CNC control panel and low maintenance requiring hydraulic systems which keep the production costs in your facility at minimum level and reach to high production speeds. Power-Bend Pro which brings design and technology together will be an economical and permanent solution of your business, in narrow, wide, complex and precise bendings, in mass production requiring single or high speed.

- Realistic 3D modelling
- Low energy consumption
- Easy service by remote access
- Quick and easy tool replacement
- Customer focused ergonomic solutions
- Backgauge with servo motor



EASY SERVICE WITH REMOTE ACCESS

For the solution of defects that may occur in the machine, time loss is minimized by interfering with remote access over the internet (ERTOUCH)

USER FRIENDLY TOUCH SCREEN

The models can be seen on the screen with the 3D feature of the controller realistically. Thus, it provides the operator with ease of distinguishing the objects from each other and ease of implementation (ERTOUCH).

RIGID UPPER BEAM WITH PRECISE POSITIONED BEARINGS

Thanks to the rigid upper beam operating on bearings at 12 points, with a bending accuracy of 0.01 mm, it is possible to obtain precision bendings.

FRONT SUPPORT ARMS

Sliding front support arms with stoppers moving with the help of linear rail and bearing.

EASY MAINTENANCE THANKS TO INDUSTRIAL DESIGN AND FLEXIBLE STRUCTURE

Maintenance and failure intervention times are minimized thanks to easy access to the accessories and the hydraulic systems requiring low maintenance.

FAST AND EASY TOOL REPLACEMENT

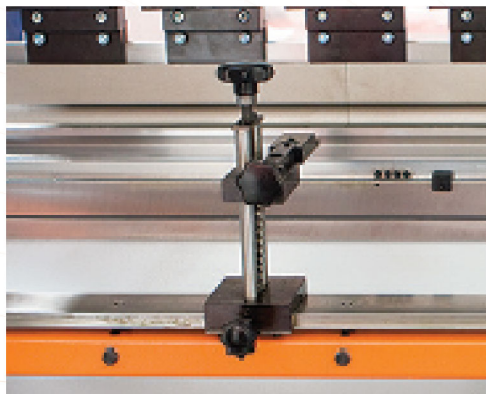
Tools can be replaced without any need for an extra key for the standard used promecams on the machine.



GENERAL SPECIFICATIONS



Power-Bend Pro standard backgauge system is offered as X-axis motorized, R-axis manual movement (S)



Specially designed folding backgauge fingers (S)



Promecam type top tool clamping system which can be manually installed and removed easily (S)

STANDARD EQUIPMENT

- Sliding front arms that is height-adjustable and with scale
- Handened and grinded top an bottom tools
- Promecam fast tool clamping system
- Control units; ER TOUCH EDUTION, DELEM DA-52S, CYBELEC CYBTOUCH 12, ESA S630
- 800 mm strong backgauge with CNC control single-axis
- 410 mm throat depth (60 - 320 tons)
- 2 axes backgauge finger
- Metric and inch scale
- Crowning system in the lower beam (manual crowning system in 3100/.../4100-260 and 3100/.../4100-320, motorized crowning system in machines over 3100-400 tons) is standard
- Movable foot pedal convenient for single and serial bending in compliance with the CE norm
- Front protection light curtain, side protection doors + switch and rear protection light curtain
- Top beam and cylinder covers are renewed with led light
- Different electrical voltage options according to the country where the machine will be operated



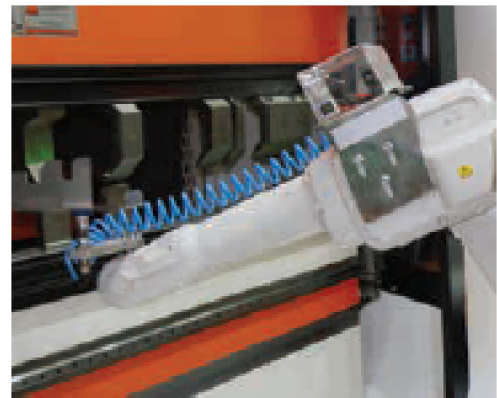
Body protection light curtain compliant with the CE standards ensuring safe operation (S)

OPTIONAL EQUIPMENT

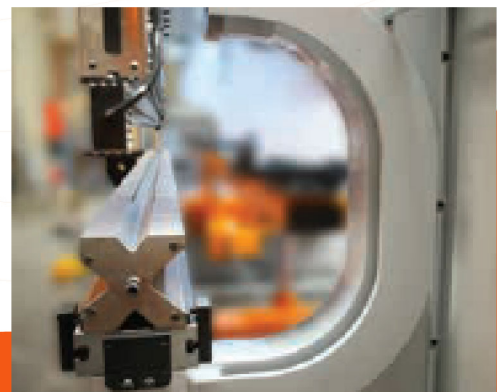
- Special stroke and special throat depth options that provide advantage to the user in deep bendings
- Control units; ER TOUCH EDUTION, DELEM ER70, DELEM DA-58T, CYBELEC CYBTOUCH 15 PS, ESA S640, STEP ER77
- Optional backgauge stroke added backgauge fingers
- Motorized crowning systems
- Hydraulic oil cooling and heating system
- Segmented top and bottom tools
- Optional table width or bottom die V opening option
- Tools for box or pole bending
- Laser front protection options
- Electric panel, oil tank and controller case can be heated and cooled optionally
- Optional top and bottom tool holder
- Optional Promecam mechanical, pneumatic and hydraulic fast tool holder system
- Tool storage cabinet
- Automatic slide lubrication system that extends the lifetime of the sliding system
- U-Type dies for thick material bending
- Front support arms with additional movement to eliminate the stretching formed in thin materials
- Special machine production according to sheet length and thickness depending on demand
- AP3/AP4 motorized front sheet support system and parking place for reverse bending
- Control panel and/or electricity panel are mountable to the right side of the machine according to the demand of the customer
- Back sheet support system
- Sheet extraction system
- Pneumatic-finger backgauge system



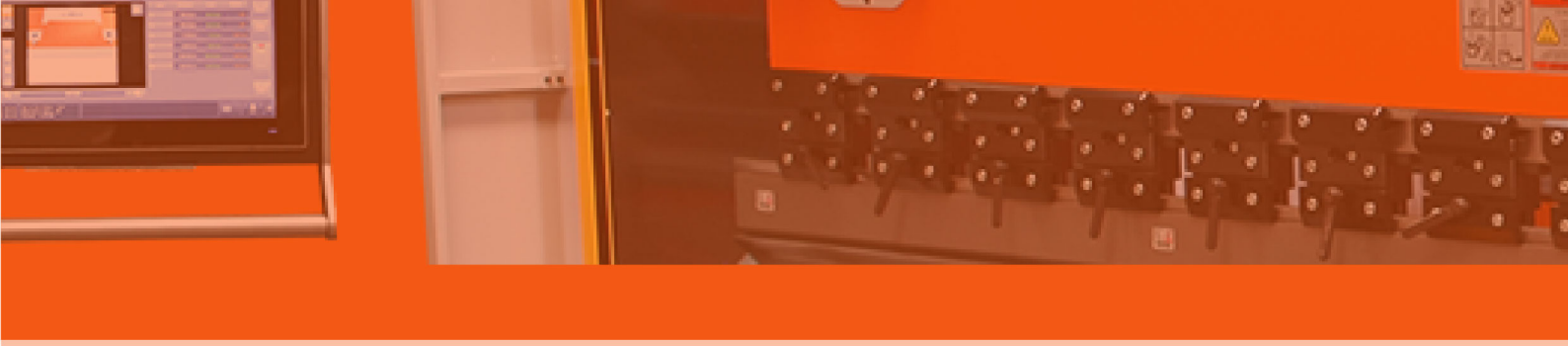
DSP MCS AP finger protection system making time saving easy (O)



With robotic automation solutions, advantages in efficiency, quality, speed, performance, cost and safety provided.



Up to 1500 mm special throat depth is offered for wide bendings (O)



TECHNICAL SPECIFICATIONS

TYPE	BENDING LENGTH	BENDING POWER	DISTANCE BETWEEN COLUMNS	Y RAPID SPEED	Y WORKING SPEED	Y RETURN SPEED	CROWNING	TRAVEL IN X AXIS	SPEED OF X AXIS	BACKGAUGE FINGER BLOCKS	NUMBER OF SHEET SUPPORT	OIL CAPACITY	MOTOR POWER	STROKE	DAYLIGHT	THROAT DEPTH	TABLE HEIGHT	TABLE WIDTH	LENGTH	HEIGHT	WIDTH	WEIGHT
	A		B											C	D	E	F	G	L	H	W	
	Mm	Ton	mm	mm/s	mm/s	mm/s	standard	mm	mm/s	amount	amount	lt.	kW	mm	mm	mm	mm	mm	mm	mm	mm	kg.
PB PRO 1270-40	1270	40	1050	140	10	170	-	800	230	2	2	80	5,5	170	387	350	850	90	2900	2200	1900	3050
PB PRO 1270-60	1270	60	1000	160	10	165	-	800	230	2	2	150	7,5	275	530	410	900	90	3200	2600	2500	4150
PB PRO 2100-40	2100	40	1700	140	10	170	-	800	230	2	2	80	5,5	170	387	350	850	90	3600	2200	2000	3700
PB PRO 2100-60	2100	60	1700	160	10	165	-	800	230	2	2	150	7,5	275	530	410	900	90	3800	2600	2500	4900
PB PRO 2600-60	2600	60	2200	200	10	165	-	800	230	2	2	150	7,5	275	530	410	900	90	4500	2600	2500	5500
PB PRO 2600-100	2600	100	2200	200	9,5	155	-	800	230	2	2	150	7,5	275	530	410	900	90	4500	2600	2400	6000
PB PRO 2600-135	2600	135	2200	160	10	120	-	800	230	2	2	200	11	275	550	410	900	90	4300	2800	2600	7400
PB PRO 3100-100	3100	100	2600	200	9,5	155	-	800	230	2	2	150	7,5	275	530	410	900	90	5000	2600	2400	6500
PB PRO 3100-135	3100	135	2600	200	10	120	-	800	230	2	2	200	11	275	550	410	900	90	4800	2800	2600	7900
PB PRO 3100-175	3100	175	2600	180	10	135	-	800	230	2	2	200	15	275	550	410	900	90	4800	2800	2600	8800
PB PRO 3100-220	3100	220	2600	180	10	160	-	800	230	2	2	300	18,5	275	550	410	900	200	4800	2800	2600	11000
PB PRO 3100-260	3100	260	2600	140	10	135	Manual	800	230	2	2	300	22	275	550	410	900	220	5000	3100	2600	13600
PB PRO 3100-320	3100	320	2600	140	10	150	Manual	800	230	2	2	400	30	375	650	410	900	240	5150	3400	2650	16800
PB PRO 3100-400	3100	400	2550	110	8,4	130	Motorized	1000	230	2	2	400	30	375	650	510	1000	240	5000	3600	2800	20840
PB PRO 3760-175	3760	175	3250	180	10	135	-	800	230	2	2	200	15	275	550	410	900	90	5500	2800	2600	9800
PB PRO 3760-220	3760	220	3250	180	10	160	-	800	230	2	2	300	18,5	275	550	410	900	160	5400	2800	2600	12600
PB PRO 3760-320	3760	320	3250	140	10	150	Manual	800	230	2	2	400	30	375	650	410	900	220	5800	3400	2650	20000
PB PRO 4100-135	4100	135	3600	200	10	120	-	800	230	2	2	200	11	275	550	410	900	90	5800	2800	2600	10650
PB PRO 4100-175	4100	175	3600	180	10	135	-	800	230	2	2	200	15	275	550	410	900	90	5800	2800	2600	11100
PB PRO 4100-220	4100	220	3600	180	10	160	-	800	230	2	2	300	18,5	275	550	410	900	160	5800	2900	2600	13100
PB PRO 4100-260	4100	260	3600	140	10	135	Manual	800	230	2	2	300	22	275	550	410	900	200	5900	3100	2600	16700
PB PRO 4100-320	4100	320	3600	140	10	150	Manual	800	230	2	2	400	30	375	650	410	900	220	6150	3400	2650	21750
PB PRO 4100-400	4100	400	3550	110	8,4	130	Motorized	1000	230	2	2	400	30	375	650	510	1000	240	6000	3600	2900	26330
PB PRO 4270-135	4270	135	3780	200	10	120	-	800	230	2	2	200	11	275	550	410	900	90	6000	2800	2600	10950
PB PRO 4270-175	4270	175	3780	180	10	135	-	800	230	2	2	200	15	275	550	410	900	90	6000	2800	2600	12350
PB PRO 4270-220	4270	220	3780	180	10	160	-	800	230	2	2	300	18,5	275	550	410	900	160	6000	2900	2600	14600
PB PRO 4270-400	4270	400	3780	110	8,4	130	Motorized	1000	230	2	2	400	30	375	650	510	1000	240	6100	3600	2900	26550
PB PRO 6100-220	6100	220	5100	130	1	125	-	800	230	4	4	300	18,5	275	550	410	1100	180	7500	3500	2600	24800
PB PRO 6100-320	6100	320	5100	80	10	75	Motorized	800	230	4	4	400	30	375	650	410	1100	180	7900	3900	2650	30900
PB PRO 6100-400	6100	400	5100	80	8,4	65	Motorized	1000	230	4	4	400	30	375	650	510	1100	200	7500	4000	2900	39700

GREEN PRESS FX SERVO

Servo-Motor Electrical Press Brakes

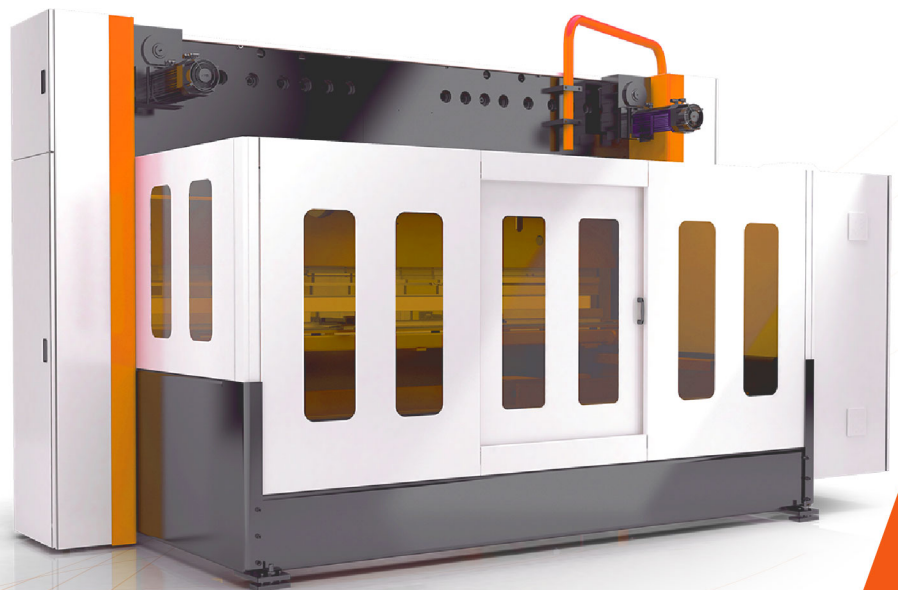
Environmental Technology...

Thanks to its quiet operation and low energy consumption, the Green Press FX Servo press brake which is one of our green press group machines have about 69% less energy consumption than hydraulic press brakes

No hydraulic oil is required for the operation of the machine. Since there aren't any hydraulic system components such as hydraulic filters, sealings, etc., maintenance costs are at minimum level. In addition, no problem is encountered in terms of contamination of the working area caused by oil leakage.

With the precise linear bearing and the sliding front support arms that can move right and left on the rail, the sheet can be easily controlled by the operator from the front. Also, the length of the parts can be measured by means of the ruler mounted on the front support arms. The sheet can be fixed from the front side with the aid of the flip stop which is mounted inside the T slot.

- ▶ 98% energy saving in standby
- ▶ Quick and easy tool replacement
- ▶ Precise bending
- ▶ Short-term depreciation
- ▶ User friendly touch screen
- ▶ Electro-mechanical press brake

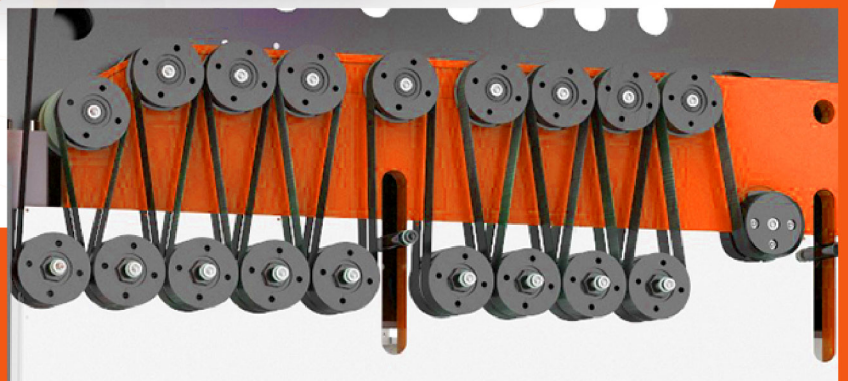


QUIET OPERATION

The beam downward movement is performed with the aid of belts, and its return is performed with the springs. Thus, the machine will run quietly and will not create any noise pollution that could disturb the environment.

LOW MAINTENANCE COST

No hydraulic system and cylinder were used on the machine. Since it is a completely mechanical machine, you can use it with less maintenance cost



ENVIRONMENT FRIENDLY

It is an environment friendly machine that stands out with its high power and low energy consumption due to the use of high energy efficient servo motor in the machine in which no industrial oil is used.

LOW ENERGY CONSUMPTION

High energy efficient servo motor is used. The motors will not work while the upper beam is not moving. That provides 69% energy savings.

UNLIMITED FULL LENGTH BENDING

Unlike the known press brakes, there is no throat in this machine. Full length bendings are done between the feet. There are no restrictions compared to the hydraulic press brakes.

RIGID STRUCTURE

Dynamically and statically strong body processed with high precision.



GENERAL SPECIFICATIONS

STANDARD EQUIPMENT

- Standard machine sizes; 1600, 2100, 2600, 3100 mm
- Standard machine powers; 40, 65, 80, 100 tons
- Machine stroke 300mm
- Daylight 590mm
- No need for crowning
- Standard 4 axis backgauge. X: 800 mm, R: 250 mm, Z1, Z2
- Control units; ER TOUCH EDUTION, ER99, DELEM 66T
- HEIDENHAIN linear scales
- Electrical panel designed and manufactured from SIEMENS electrical and automation products in accordance with the CE regulations.
- ERMAKSAN Promecam top tool holder
- ROLLERI PS.135-85-R08 top tool
- ROLLERI M460-R bottom tool
- ERMAKSAN bottom tool holder
- WILA OB-I-MC-TY/UPB mechanical bottom tool clamping system
- Sliding front support arms with T slot and mm/inch scale
- LEUZE MLC 100 front safety system
- Rear sliding cover + switch safety system
- Side cover + switch safety system
- LED-light enclosures

OPTIONAL EQUIPMENT

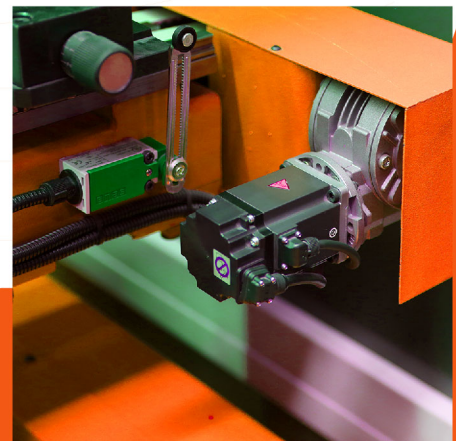
- Optional daylight
- Single axis, 2 axis, 6 axis backgauge options
- WILA NSCL type top tool holder options
- WILA NSCR type bottom tool holder options
- Motorized crowning
- LED-bar bending guide system
- AKAS Laser front protection
- DSP Laser front protection
- AP3 + AP4 sheet support system
- Rear sheet support system
- Optional control panel arm
- Control units; ER TOUCH EDUTION, Delem 69T, Cybelec Modeva 19T



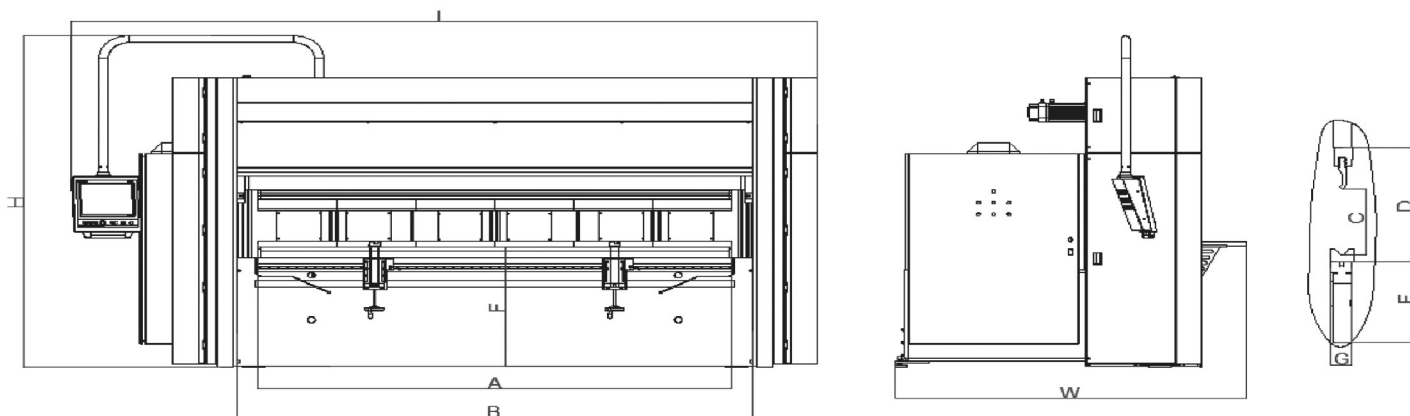
Maximize your safety with the rear sliding cover and switch. Check inside the machine by means of the windows (S).



4 axes (X, R, Z1, Z2) Backgauge with servo motor Backgauge with positioning accuracy of 0.05 mm according to the desired geometry (S)



Top beam is moved with high efficient synchronous ac servo motors (S).



TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS		GP FX SERVO 1003	GP FX SERVO 8026	GP FX SERVO 6521	GP FX SERVO 4016
BENDING LENGHT (A)	mm (inch)	3100 (122,0)	2600 (102,4)	2100 (82,7)	1600 (63,0)
BENDING POWER	Ton (Us Tons)	100 (110)	80 (88)	65 (72)	40 (44)
SRANDARD V-DIE OPENING (V)	mm (inch)	50 (1,97)	50 (1,97)	50 (1,97)	50 (1,97)
SHEET THICKNESS (RM=42kgf/mm2) (T)	mm (inch)	5 (0,19)	5 (0,19)	5 (0,19)	4,5 (0,19)
DISTANCE BETWEENN COLUMNS (B)	mm (inch)	3360 (132,3)	2860 (112,6)	2360 (92,9)	1860 (73,2)
Y AXIS RAPID SPEED	mm/s (inch/s)	75 (2,95)	90 (3,54)	160 (6,30)	180 (7,09)
Y AXIS WORKING SPEED	mm/s (inch/s)	10 (0,39)	10 (0,39)	10 (0,39)	10 (0,39)
Y AXIS RETURN SPEED	mm/s (inch/s)	75 (2,95)	90 (3,54)	160 (6,30)	180 (7,09)
TRAVEL IN X AXIS	mm (inch)	800 (31,50)	800 (31,50)	800 (31,50)	800 (31,50)
SPEED OF X AXIS	mm/s (inch/s)	500 (19,69)	500 (19,69)	500 (19,69)	500 (19,69)
TRAVEL IN R AXIS	mm (inch)	250 (9,84)	250 (9,84)	250 (9,84)	250 (9,84)
SPEED OF R AXIS	mm/s (inch/s)	350 (13,78)	350 (13,78)	350 (13,78)	350 (13,78)
SPEED OF Z1, Z2 AXIS	mm/s (inch/s)	1000 (39,37)	1000 (39,37)	1000 (39,37)	1000 (39,37)
BACK GAUGE FINGER BLOCKS	Amount	2	2	2	2
NUMBER OF SHEET SUPPORT	Amount	2	2	2	2
MOTOR POWER	kW (Hp)	2X5,5 (2x7,37)	2X5,5 (2x7,37)	2X5,5 (2x7,37)	2X5,5 (2x7,37)
STROKE (C)	mm (inch)	300 (11,81)	300 (11,81)	300 (11,81)	300 (11,81)
DAYLIGHT (D)	mm (inch)	590 (23,23)	590 (23,23)	590 (23,23)	590 (23,23)
TABLE HEIGHT (F)	mm (inch)	950 (37,40)	950 (37,40)	950 (37,40)	950 (37,40)
TABLE WIDTH (G)	mm (inch)	60 (2,36)	60 (2,36)	60 (2,36)	60 (2,36)
LENGTH (L)	mm (inch)	4870 (191,7)	4370 (172,0)	3870 (152,4)	3370 (132,7)
HEIGHT (H)	mm (inch)	2890 (113,8)	2890 (113,8)	2890 (113,8)	2890 (113,8)
WIDTH (W)	mm (inch)	2290 (90,2)	2290 (90,2)	2290 (90,2)	2290 (90,2)
WEIGHT	kg. (lbr.)	7500 (16538)	6500 (14333)	5650 (12458)	4850 (10694)

PANEL BENDER

Automatic panel bender is a high-tech product that aims to improve production efficiency, reduce labor cost, improve the automation level of production line



Industry 4.0 architecture, rapid bending, low power consumption, easy to maintenance and operate.

CONTROL SYSTEM

Professional Panel Bender control system, realize true 15-axis concurrent linkage, response quickly and smoothly. The function and stability has been proved by more than 1000 users

UPPER PRESSURE TOOLS

Brand new designed upper pressure tools with special material, enhanced hardness, accuracy consistency and stability. Upper pressure tools with the function of quick release and installation, easier and faster to change the tools

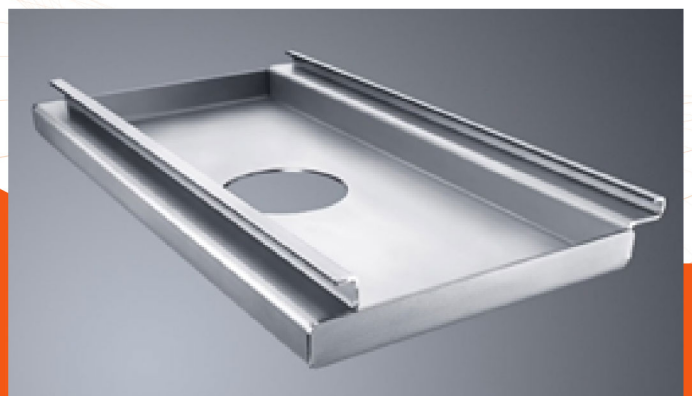
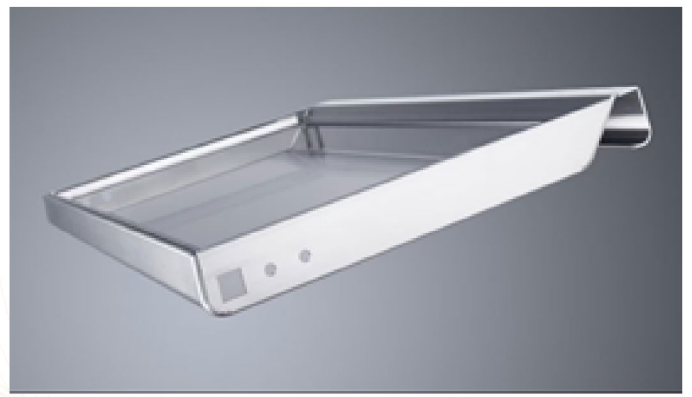
SERVO CONTROLLED HINGE TOOL

Servo controlled hinge tool, avoid material deformation, precision loss, side shovel force and scratches

TECHNICAL PARAMETERS

Technical Parameters			
Number of axis	23	25	25
Maximum bending speed		0.2s/Time	
Maximum bending width	1500mm	2000mm	2500mm
Maximum bending size	1500mm*1300mm	2000mm*1300mm	2500mm*1300mm
Bending height	170mm		
The rated voltage	380v		
Machine weight	10 tons	20tons	25tons
Minimum size of four Side bending	180*370	180*370mm	200*370mm
Noise	-50bd		
Machine dimension	4800mm*2100mm*2850mm	5550mm*3050mm*3100mm	5750mm*3200mm*3400mm

SAMPLES



CNC HGD

Hydraulic Swing Beam Shear

Impressive Cutting Solutions...

ERMAKSAN, CNC HGD series shears are manufactured from 6 mm up to 20 mm capacity with superior design, high quality raw material and workmanship for years without problems even under severe conditions.

The powerful monobloc steel welded construction body allows you to obtain a high quality and clean surface while maintaining rigidity even in the cuttings you make with maximum capacity.

- ▶ Rigid body
- ▶ Short-term redemption
- ▶ Low cost of operation
- ▶ Easy maintenance
- ▶ Customer based solutions
- ▶ Pressing and return with hydraulic power



BLADE GAP ADJUSTMENT SYSTEM

CNC controlled automatic hydraulic blade gap adjustment is standard.

WEAR RESISTANT BLADES

Impressive cuts by providing a perfect cutting surface thanks to wear resistant and hardened blades.

THROAT DEPTH

Flexible solutions with various throat depths according to customer needs.

SHADOW LINE

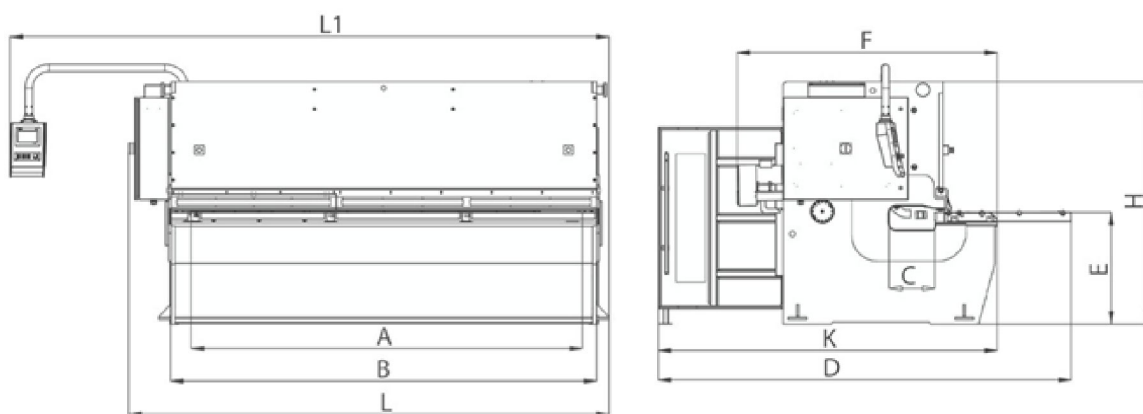
Provides high quality and precise cutting by casting a shadow line over the sheet metal to be cut.

FINGER PROTECTION SYSTEM

1mt. front part of protection can be pulled up by operator in order to control angled cuttings and drawn lines.

BACK GAUGE

1000 mm stroke, 0.1 mm precision, swing up and movable back gauge system on the ball screw and ground spindle.



TECHNICAL SPECIFICATIONS

TYPE	CUTTING LENGTH	CUTTING CAPACITY (42kg/mm ²)	CUTTING CAPACITY (70kg/mm ²)	CUTTING ANGLE	CUTTING CAPACITY	NUMBER OF HOLD DOWNS	MAIN MOTOR	BACK GAUGE MOTOR	BACK GAUGE STROKE	BACK GAUGE SPEED	OIL CAPACITY
	A										
	mm (feet)	mm (inch)	mm (inch)	(°)	1/min.	Amount	kW (Hp)	kW (Hp)	mm (inch)	mm/s (inch/s)	lt. (Us Gallons)
HGD 3100 - 6 (10 - 0.24)	3100 (10)	6 (0,24)	4 (0,16)	1.5	16	14	11 (15)	0.75 (1)	1000 (39,4)	110 (4,3)	150 (39,6)
HGD 3100 - 8 (10 - 0.31)	3100 (10)	8 (0,31)	5 (0,20)	1.5	14	14	18.5 (25)	0.75 (1)	1000 (39,4)	110 (4,3)	250 (66,1)
HGD 3100 - 10 (10 - 0.39)	3100 (10)	10 (0,39)	6 (0,24)	2	13	14	22 (30)	0.75 (1)	1000 (39,4)	110 (4,3)	260 (68,7)
HGD 3100 - 13 (10 - 0.51)	3100 (10)	13 (0,51)	8 (0,31)	2	11	14	22 (30)	0.75 (1)	1000 (39,4)	110 (4,3)	310 (81,9)
HGD 3100 - 16 (10 - 0.63)	3100 (10)	16 (0,63)	10 (0,39)	2.5	10	14	30 (40)	1.1 (1)	1000 (39,4)	110 (4,3)	500 (132,1)
HGD 3100 - 20 (10 - 0.79)	3100 (10)	20 (0,79)	13 (0,51)	2.5	8	14	37 (50)	1.1 (1)	1000 (39,4)	110 (4,3)	500 (132,1)
HGD 4100 - 6 (13.4 - 0.24)	4100 (13,4)	6 (0,24)	4 (0,16)	1.5	14	18	11 (15)	0.75 (1)	1000 (39,4)	110 (4,3)	150 (39,6)
HGD 4100 - 8 (13.4 - 0.31)	4100 (13,4)	8 (0,31)	5 (0,20)	1.5	12	18	18.5 (25)	0.75 (1)	1000 (39,4)	110 (4,3)	250 (66,1)
HGD 4100 - 10 (13.4 - 0.39)	4100 (13,4)	10 (0,39)	6 (0,24)	2	10	18	22 (30)	0.75 (1)	1000 (39,4)	110 (4,3)	260 (68,7)
HGD 4100 - 13 (13.4 - 0.51)	4100 (13,4)	13 (0,51)	8 (0,31)	2	9	18	22 (30)	0.75 (1)	1000 (39,4)	110 (4,3)	310 (81,9)
HGD 4100 - 16 (13.4 - 0.63)	4100 (13,4)	16 (0,63)	10 (0,39)	2.5	8	18	30 (40)	1.1 (1)	1000 (39,4)	110 (4,3)	500 (132,1)
HGD 4100 - 20 (13.4 - 0.79)	4100 (13,4)	20 (0,79)	13 (0,51)	2.5	7	18	37 (50)	1.1 (1)	1000 (39,4)	110 (4,3)	500 (132,1)



BLADE GAP ADJUSTMENT	NUMBER OF FRONT SUPPORT ARMS	TABLE LENGTH	THROAT DEPTH	MACHINE WIDTH	TABLE HEIGHT	WIDTH	TRANSPORT WIDTH	HEIGHT	LENGTH	WEIGHT
mm (inch)	Amount	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	K mm (inch)	F mm (inch)	H mm (inch)	L mm (inch)	kg (lbr)
0,05-0,8 (0,002-0,03)	2	3430 (135,0)	350 (13,8)	2900 (114,2)	900 (35,4)	2315 (91,1)	2100 (82,7)	2100 (82,7)	3925 (154,5)	7000 (15435)
0,05-1,0 (0,002-0,04)	2	3480 (137,0)	350 (13,8)	2970 (116,9)	900 (35,4)	2430 (95,7)	2150 (84,6)	2125 (83,7)	4000 (157,5)	9000 (19845)
0,05-1,3 (0,002-0,05)	2	3480 (137,0)	350 (13,8)	3075 (121,1)	900 (35,4)	2500 (98,4)	2270 (89,4)	2175 (85,6)	4050 (159,4)	9400 (20727)
0,05-1,5 (0,002-0,06)	2	3530 (139,0)	350 (13,8)	3150 (124,0)	900 (35,4)	2625 (103,3)	2325 (91,5)	2235 (88,0)	4100 (161,4)	12000 (26460)
0,05-1,9 (0,002-0,07)	2	3620 (142,5)	350 (13,8)	3150 (124,0)	900 (35,4)	2625 (103,3)	2360 (92,6)	2450 (96,5)	4150 (163,4)	16100 (35501)
0,05-2,3 (0,002-0,09)	2	3690 (145,3)	350 (13,8)	3250 (128,0)	900 (35,4)	2700 (106,3)	2380 (93,7)	2500 (98,4)	4350 (171,3)	21500 (47408)
0,05-0,8 (0,002-0,03)	3	4430 (174,4)	350 (13,8)	2900 (114,2)	950 (37,4)	2315 (91,1)	2100 (82,7)	2150 (84,6)	4900 (192,9)	9500 (20948)
0,05-1,0 (0,002-0,04)	3	4480 (176,4)	350 (13,8)	2960 (116,5)	950 (37,4)	2430 (95,7)	2150 (84,6)	2175 (85,6)	5000 (196,9)	11850 (26129)
0,05-1,5 (0,002-0,06)	3	4480 (176,4)	350 (13,8)	3125 (123,0)	1000 (39,4)	2570 (101,2)	2275 (89,6)	2275 (89,6)	5050 (198,8)	14000 (30870)
0,05-1,5 (0,002-0,06)	3	4530 (178,3)	350 (13,8)	3130 (123,2)	1000 (39,4)	2670 (105,1)	2350 (92,5)	2335 (91,9)	5100 (200,8)	16000 (35280)
0,05-1,9 (0,002-0,07)	3	4620 (181,9)	350 (13,8)	3150 (124,0)	1000 (39,4)	2610 (102,8)	2360 (92,6)	2575 (101,4)	5200 (204,7)	23200 (51156)
0,05-2,3 (0,002-0,09)	3	4690 (184,6)	350 (13,8)	3200 (126,0)	1000 (39,4)	2670 (105,1)	2380 (93,7)	2600 (102,4)	5250 (206,7)	27750 (61189)

STANDARD EQUIPMENT

- Wear resistant and hardened blades
 - Top blade: 2 edges
 - Bottom blade: 4 edges
- ErCut 7 controller
- 350 mm throat depth
- 1000 mm stroke, 0.1 mm precision, swing up and movable back gauge system on the ball screw and ground spindle
- 1000 mm Squaring arm and front support arms with T slot and flip stops
- Metric and inch scales
- Front sheet metal plates with ball bearings
- Front, side and rear guard sheets conforming CE regulations
- Rear sheet slider plates
- SIEMENS electrical system
- HOERBIGER hydraulic system
- Hold down cylinders
- Movable foot pedal assembly
- Hydraulic blade gap adjustment system
- Emergency stop button
- Illumination lamp for shadow line
- Collapsible finger protection

OPTIONAL EQUIPMENT

- Throat depth
- Angle adjustable front squaring gauge
- Optional length of square and support arms
- Front and rear conveyor and stacking system
- Front gauge X1, X2 axis and backgauge X3, X4 axis
- Backgauge stroke
- Rear support system for thin sheet metal
 - Lever type pneumatic sheet support system
 - Mono-block type pneumatic sheet support system
- CYBELEC CYBTtouch8 multifunctional CNC controller
- Oil cooling and heating system
- Blades for stainless steel
- Increased strokes per minute
- Light finger protection
- Colour options
- Double foot pedal
- Electric panel and / or controller can be installed opposite site on request
- Laser cutting line
- Central lubrication system
- Optional electric voltage



High precision, easy cutting at angled cutting thanks to angle adjusted T-square (O)



Shadow line generates projection over sheet metal to be cut to provide high quality and precise cutting (S)

ETP

CNC Hydraulic Turret Punch Press

Minimum Price and Maintenance Cost, Maximum Efficiency and Profit...

ERMAKSAN is one of the leading companies with its Punch Presses range thanks to its experience gained through long years and brand awareness. ETP CNC Turret Punch Press combines globally accepted electronic and mechanical components in one machine. ETP CNC Turret Punch Press allowing various applications up to 6 mm thick sheet metals is designed to meet consumer needs for long years with its steel construction and mono-block structure.

- ▶ Powerful rigid O type body
- ▶ Ball bearing type table integrated to brush type
- ▶ 3 automatic clamping system
- ▶ Hydraulic punching system
- ▶ Mobile control panel and foot pedal
- ▶ Automatic tool lubrication system



HARDENED TOOL HOLDER

Easy maintenance thanks to hardened housing structure of stations and low cost in replacing and renewing stations.

RE-POSITIONING FUNCTION

Uninterrupted process is enables for long sheet metals by RE-POSITIONING function at X axis of the machine.

NEW GENERATION CONTROLLER

More precise, faster positioning with Fanuc 31i-Pb controller and user friendly prevalent service support.

TOOL LUBRICATION

Tools are automatically lubricated in every stroke with tool lubrication system.

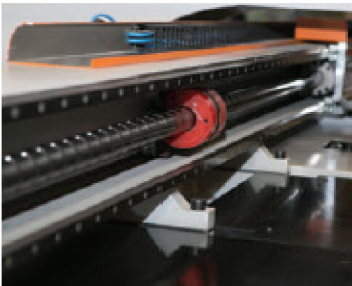
ANTI-DEFLECTION SYSTEM

Anti-deflection system removes deflection and vibration on ball-screw enabling long service life (used in machines with axis length 2500 mm).

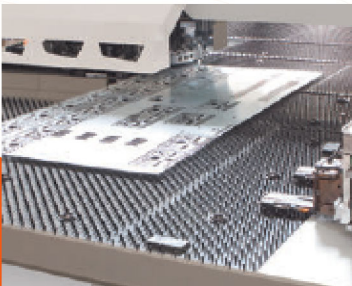
RIGID STRUCTURE

Smooth operation at high tonnages by hardened and stress-free O type body.

GENERAL SPECIFICATIONS



Anti-deflection system is used for machines with axis length 2500 mm (S)



Brush and ball bearing type table facilitates sheet metal loading and unloading (S)



Precisely machined strong body having dynamic and static rigidity (S)

- User friendly ERMAKSAN software
- Clamp safety margins preventing collision around the clamp
- Stroke length adjustment parameters (Form mould, Special mould, etc.)
- Stroke counts in total and for each program
- Operation hours in total and for each program
- Stroke counts are displayed for each tool
- 33 or 27 stations
- Direct processing without re-positioning for sheet metal with axis dimensions 1500x3000mm
- 20 and 30 tons high speed cylinder manufactured by H+L Voith (Germany)
- 3 automatic repositioning clamps
- O type mono-block rigid body
- Anti-deflection at X axis shaft
- 1500 strokes per minute in average at stamping
- Brush-ball bearing type table to facilitate sheet metal loading and unloading
- Safety margin protection guards preventing collision of clamps with the tool
- Hardened tool holders with housing on turret
- CNC controlled automatic tool lubrication system
- Anti-deflection system at ball-screw
- Scrap bin with wheels
- Metalix CAD/CAM program



Control panel is easy to operate thanks to its quality, technology and user-friendly interface (S)

TECHNICAL SPECIFICATIONS

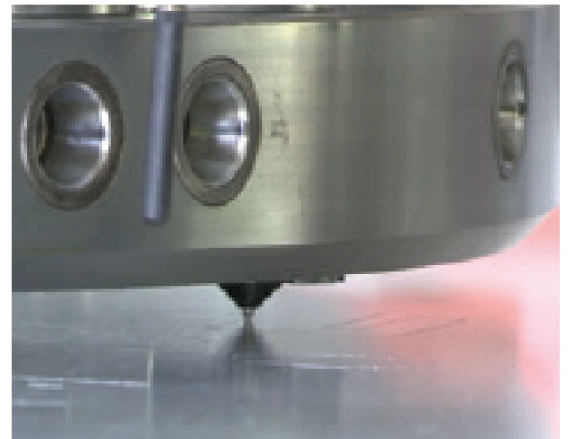
MAXIMUM TONNAGE	Ton (Us Tons)	ETP 1500x3000	ETP 1500x2500	ETP 1250x2500	ETP 1250x2000
		30 (33)	30 (33)	20 (22)	20 (22)
MAXIMUM CAPACITY (X, Y)	mm (inc)	3000×1500(118,1×59)	2500×1500 (98,4×59)	2500×1250 (98,4×49,2)	2000×1250 (78,7×49,2)
STATION QTY ON TURRET	Pieces	33	33	27	27
MAXIMUM PUNCH DIAMETER (Sheet is 1 mm (0,04") thickness) (Single tool)	mm (inc)	Ø88,9 (3,5)	Ø88,9 (3,5)	Ø88,9 (3,5)	Ø88,9 (3,5)
X AXIS TRAVEL	mm (inc)	3000 + R (118,1 + R)	2500 + R (98,4 + R)	2500 + R (98,4 + R)	2000 + R (78,7 + R)
X AXIS SPEED	m/dak (inc/sec)	80 (3,14)	80 (3,14)	120 (47,2)	120 (47,2)
Y AXIS TRAVEL	mm (inc)	1500 (59)	1500 (59)	1250 (49,2)	1250 (49,2)
Y AXIS SPEED	m/dak (inc/sec)	80 (3,14)	80 (3,14)	120 (47,2)	120 (47,2)
X + Y DEPENDENT SPEED	m/dak (inc/sec)	114 (44,8)	114 (44,8)	170 (66,9)	170 (66,9)
TURRET ROTATION SPEED	Rpm	20	20	27	27
AUTO INDEX ROTATION SPEED	Rpm	65	65	65	65
MAXIMUM PUNCH STROKE For Marking 1 mm (0,04") Stroke	Stroke/min	2000	1200	1500	1500
MAXIMUM PUNCH STROKE For 1 mm step on X,Y directions	Stroke/min	900	900	900	900
MAXIMUM PUNCH STROKE For 25 mm step on X,Y directions	Stroke/min	600	600	350	350
MAX. CUTTING THICKNESS WITH FIX STATION	Mild Steel	6,35 mm (0,25 inc)	6,35 mm (0,25 inc)	6,35 mm (0,25 inc)	6,35 mm (0,25 inc)
	Stainless Steel	3 mm (0,11 inc)	3 mm (0,11 inc)	3 mm (0,11 inc)	3 mm (0,11 inc)
MAX. CUTTING THICKNESS WITH AUTO INDEX STATION	Mild Steel	4 mm (0,15 inc)	4 mm (0,15 inc)	4 mm (0,15 inc)	4 mm (0,15 inc)
	Stainless steel	2,5 mm (0,1 inc)	2,5 mm (0,1 inc)	2,5 mm (0,1 inc)	2,5 mm (0,1 inc)
REPITITION ACCURACY	mm (inc)	± 0.05 (± 0,0019)	± 0.05 (± 0,0019)	± 0.05 (± 0,0019)	± 0.05 (± 0,0019)
POSITIONING ACCURACY	mm (inc)	± 0,1 (± 0,0039)	± 0,1 (± 0,0039)	± 0,1 (± 0,0039)	± 0,1 (± 0,0039)
INDEX POSITIONING ACCURACY	°	0.01°	0.01°	0.01°	0.01°
MULTI TOOL CHANGE TIME	Sec.	3	3	3	3
MAXIMUM BURDEN CAPACITY	Kg (lbs)	225 (496,04)	200 (441,0)	147 (324,0)	125 (275,6)
MOTOR	kw (HP)	11 (14,8)	11 (14,8)	7,5 (10)	7,5 (10)
OIL CAPACITY	lt (Us Gallons)	300 (79,2)	280 (78,2)	180 (47,5)	180 (47,5)
AIR PRESSURE	Bar (Psi)	6 - 7 (87 - 101,5)	6 - 7 (87 - 101,5)	6 - 7 (87 - 101,5)	6 - 7 (87 - 101,5)
MAXIMUM STROKE	mm (inc)	40 (1,57)	40 (1,57)	40 (1,57)	40 (1,57)
SHEET CLAMPING (AUTOMATIC REPOSITIONING)	Pieces	4	3	3	3
SHEET CLAMPING FORCE	Kg (lbs)	1200 (2646)	1200 (2646)	1200 (2646)	1200 (2646)
POWER SUPPLY	kW (HP)	25 (33,5)	25 (33,5)	25 (33,5)	25 (33,5)
AIR SUPPLY	Liters/min (Us Gallons/min)	2,5 (0,66)	2,5 (0,66)	2,5 (0,66)	2,5 (0,66)
POSITION CONTROL		Voith Turbo H + L Hydraulic			
LINEAR AXES	X,Y	Y1 + Y2 axis of the Ball screw Direct Drive Fanuc Servo Motor X Axis of a rack and pinion + Reducer Fanuc Servo Motor	All axes absolute Ball screw with Fanuc servo motor		
INDEX AXES		Absolute with Fanuc servo motor+Harmonic drive reducer			
WORKING HEIGHT	mm (inc)	950 (37,4)	950 (37,4)		950 (37,4)
TABLE TYPE		BRUSHED	BRUSHED		BRUSHE D
		BALL	BALL		BALL
		BRUSHED + BALL	BRUSHED + BALL		BRUSHE D + BALL
MACHINE LENGTH	mm (inc)	5520 (217,3)	5520 (217,3)		5140 (202,3)
MACHINE WIDTH	mm (inc)	6660 (262,2)	5000 (196,3)		5140 (202,3)
MACHINE HEIGHT	mm (inc)	2220 (87,4)	2220 (87,4)		4290 (168,9)
WEIGHT	Kg (lbs)	22000 (44092)	18500 (40792)		2220 (87,4)
CAD/CAM SOFTWARE		Metalix	Metalix		14000 (30870)
TURRET (33 STATION)	15 Pieces A Station 1/2" Fix 1,6-12,7 mm Diameter		TURRET (27 STATION)	11 Pieces A Station 1/2" Fix 1,6-12,7 mm Diameter	
	12 Pieces B Station 1-1/4" Fix 12,8-31,7 mm Diameter			10 Pieces B Station 1-1/4" Fix 12,8-31,7 mm Diameter	
	2 Pieces C Station 2" Fix 31,8-50,8 mm Diameter			1 Piece C Station 2" Fix 31,8-50,8 mm Diameter	
	1 Piece D Station 3-1/2" Fix 50,9-88,9 mm Diameter			2 Pieces D Station 3-1/2" Fix 50,9-88,9 mm Diameter	
	3 Pieces D Station 3-1/2" Index 50,9-88,9 mm Diameter			2 Pieces B Station 1-1/4" Index 12,8-31,7 mm Diameter	
				1 Piece C Station 2" Index 31,8-50,8 mm Diameter	

STANDARD EQUIPMENT

- Ermaksan 20 and 30 tons direct drive servo punch system (ON SERVO ETP MODELS)
- 27 or 33 station turret options
- O type hardened mono-block rigid body
- Hardened housing system for each station in turret
- Fanuc CNC and dynamic brushless alpha series servo motors with highly precise absolute encoder (no reference required)
- 3 automatic re-positioning clamp system and sheet metal controlling switches (4 at machines with 3000 mm axis)
- Sheet metal controlling switches on clamps
- Aluminium clamp carrier body
- User friendly display panel and software developed by Ermaksan engineers
- Automatic tool lubrication system (Airblow)
- 1 CAD/CAM software (Metalix program)
- Water cooling system for hammering system (SERVO-ELECTRIC)
- Axis and table options in various dimensions (single processing surface): 1250x2000mm, 1250x2500mm, 1500x2000mm, 1500x2500mm, 1500x3000mm
- Software to stop the machine in case of tool and clamp collision risk
- Software for using special wheeled tools and form moulds
- Scrap bin with wheels
- Sheet metal carrying ball bearings embedded into brush table
- Chained protection (safety) system around the machine
- Anti-deflection at X axis shaft (enables long service life by removing deflection and vibration on ball-screw)
- Digital oil temperature display (for ETP models)
- Sheet Jumping switches preventing collision of undulated sheet metals to turret
- Tool stuck safety system (detecting snagged or stuck tools)
- Re-positioning cylinders moving below and above sheet metal
- Stroke length adjustment parameters for better forming sheet metal
- Machine operation and maintenance instructions



Smooth cutting of sheet metal in requested shape with punch tools up to 88.9 mm In diameter (S)



Savings for power and operation costs with stamping speed up to 1500 strokes per minute (S)



Wheeled form tools can operate without any options (S)

EPL 5 AXIS PLASMA

Plasma Cutting

Bring a New Dimension to your Cutting Operations...

Provides an advanced solution where more than one angled cuts are possible. Allows savings from additional operations by cutting different contours without slag. Processes aluminium, stainless and normal sheet types very flexibly. Automatic angle adjustment technology minimizes the production time.

- ▶ True bevel technology
- ▶ Low cost of operation
- ▶ Ergonomic design
- ▶ Simple operation
- ▶ True hole™ technology



TRUE HOLE™ TECHNOLOGY

Patented True Hole™ technology developed for carbon sheets is a specific combination of cutting parameters optimized by different hole dimensions and material thickness values. True Hole™ technology removes the angles and distortions on the holes completely.

EASE OF USE

All angles are calculated automatically in 5-axis cutting technology. The angle value that shall be entered manually by the operator during the cutting operation is generated automatically.

MORE WORK IN LESS TIME

Saves you time by minimizing the production time thanks to its automatic angle adjustment technology.

FLEXIBLE SOLUTIONS

Provides ease of use for the operator while offering its users flexible solutions with its structure suitable for automation.



BENEFITS

- Automatically bolt hole without operator intervention quality offered
- Close the gap between the laser hole quality and the plasma process. makes it a convenient option for many laser-cut jobs
- Completely eliminates hole taper
- Resonant is minimal and deflected out of the hole
- Provides true bolt hole "quality."



TRUE BEVEL TECHNOLOGY

As part of Hypertherm's SureCut™ technology, True Bevel™ technology for HPRXD® and XPR™ plasma systems is a performance application for mild steel. Factory tested and easily implemented, it takes the guesswork out of the plasma bevel-cutting process. With True Bevel, setups for new jobs are quick and results are accurate and consistent

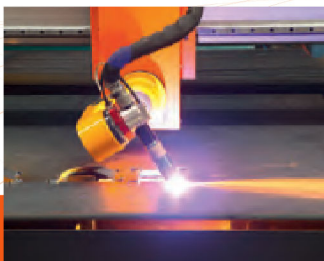
5 AXIS CUTTING HEAD

All angles are calculated automatically with 5 axis cutting technology. During the cutting process, it composes the angle value.

automatically, which the operator needs to enter. 5 axis cutting technology is a perfect solution for vertical and angular cuts. Automatic angle adjustment provides time saving to the operator and removes the issues which could be caused by operator errors.

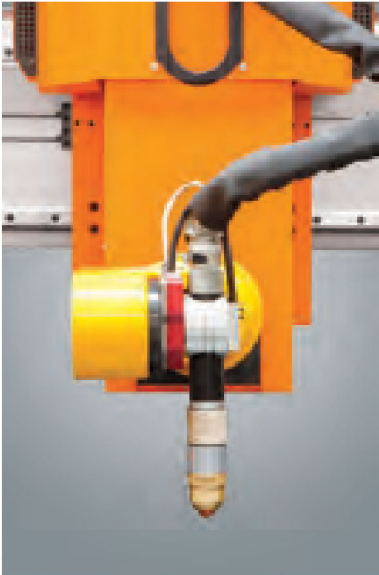
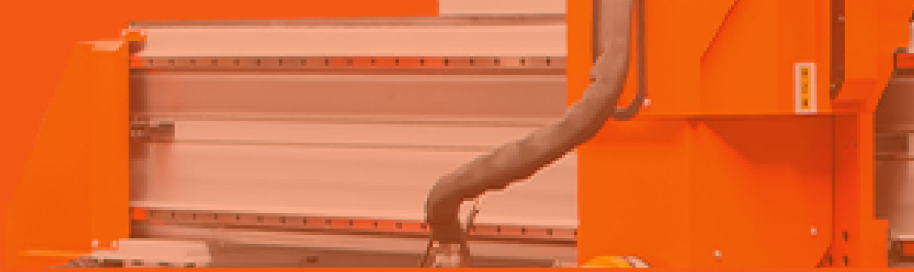
BEVEL ANGLE & LAND DENSITY COVERAGE

True Bevel™ for XPR300® has angle coverage for V and Top Y cuts up to 50° and A cuts up to 45°. The tables contain values for lands ranging from 20% to 50% of the material thickness for Y Top cuts. You can add other angles and land dimensions within the specified ranges into the bevel process parameter tables for more flexibility. The tables automatically provide newly calculated output values for angle compensation, kerf, cut height, cut speed, and arc voltage.



BEVEL ANGLE & LAND DENSITY COVERAGE

True Bevel™ for XPR300® has angle coverage for V and Top Y cuts up to 50° and A cuts up to 45°. The tables contain values for lands ranging from 20% to 50% of the material thickness for Y Top cuts. You can add other angles and land dimensions within the specified ranges into the bevel process parameter tables for more flexibility. The tables automatically provide newly calculated output values for angle compensation, kerf, cut height, cut speed, and arc voltage.



Cutting head moves up and down with Z axis right and left with x axis.



Can move totally ± 50 and 600 degrees at A axis.



Can move totally ± 50 and 600 degrees at B axis.



25 mm Mild Steel

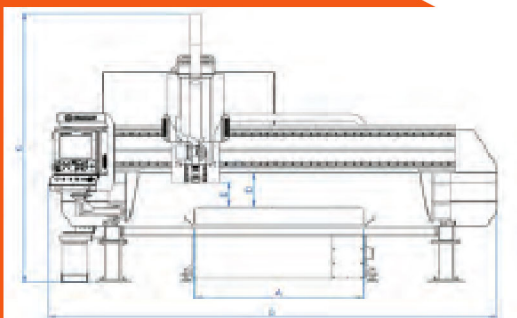


25 mm Mild Steel

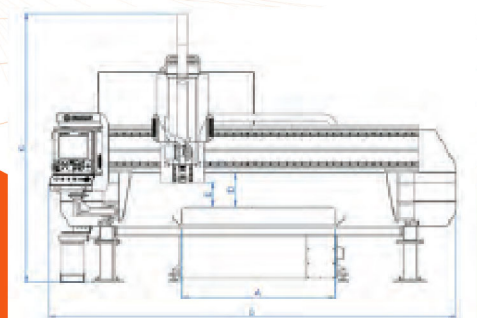


25 mm Mild Steel

5 AXIS HPRXD



5 AXIS XPR



GENERAL FEATURES

STANDARD EQUIPMENT

- **Hypertherm EDGE Connect TC CNC**
 - 19" LCD industrial type touch screen
 - Hypertherm operator panel
 - Safety module input and output
 - Ethercat communication system
 - Remote connection interface
 - Phoenix interface
 - Metric and inch gauges.
- **Hypertherm HPR130XD Plasma Source**
 - Hypertherm automatic Gas console
 - Plasma marking
- **ERMAK THC Automatic High Control System**
 - Ethercat communication system
 - Safety input-output interface module
 - Nozzle Sensor
 - Collision Sensor
 - 300 mm Standard Stroke
 - Laser Pointer
- **5 Axis cutting head IMATECHNO**
- **ProNest® CAD / CAM software**
- **5 Axis (X, Y, Z, A, B)**
 - 5 pieces Mitsubishi AC servo motor and driver
 - 5 pieces planet type Neugart gear box
 - High accuracy linear rails
 - High accuracy an silent Atlanta Helis rack and pinion
 - X,Y, Z, Axis Igus brand silent cable tray
- **Cutting table with pneumatic system**
- **Pilz safety PLC Module**
- **2 Emergency buttons**
- **6 Mechanical stops**
- **True Hole™ technology**
- **True Bevel™ technology**

OPTIONAL EQUIPMENT

- Hypertherm HPR400XD automatic gas console
- Hypertherm HPR800XD automatic gas console
- Hypertherm XPR 300 Core automatic gas console
- Hypertherm XPR 300 VWI automatic gas console
- Hypertherm XPR 300 Optimix automatic gas console
- Oxy-fuel cutting system
- Filter unit
- -/+450 manuel bevel cutting adaptor for oxy-fuel & Plasma
- 350 mm & 500 mm changeble stroke for oxy-fuel & Plasma
- Light barrier
- Air drier
- Optional electrical voltage
- According to the working conditions cooling
- Fan or heater can be add to the electrical panel

TECHNICAL SPECIFICATIONS

		EPL 1530	EPL 2040	EPL 2060	EPL 20120	EPL 2560	EPL 25120	EPL 3060	EPL 30120	EPL 4060	EPL 40120
CUTTING WIDTH (A)	Mm (inch)	1500 (59)	2000 (79)	2000 (79)	2000 (79)	2500 (98)	2500 (98)	3000 (118)	3000 (118)	4000 (157)	4000 (157)
TOTAL WIDTH (B)	Mm (inch)	4200 (165)	4700 (185)	4700 (185)	4700 (185)	5200 (205)	5200 (205)	5700 (224)	5700 (224)	6400 (252)	6400 (252)
TOTAL HEIGHT (C)	Mm (inch)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)
WEIGHT (D)	Mm (inch)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)
TORCH DISTANCE (E)	Mm (inch)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)
CUTTING LENGHT	Mm (inch)	3000 (118)	4000 (157)	6000 (236)	12000 (472)	6000 (236)	12000 (472)	6000 (236)	12000 (472)	6000 (236)	12000 (472)
TABLE HEIGHT	Mm (inch)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)
SPEED	m/min	20	20	20	20	20	20	20	20	20	20
MACHINE AXIS	-	X, Y, Z, A, B									
POSITIONING ACCURACY	Mm(inch)	± 0,05 DIN 28206									
ACCURACY	(inch)	(± 0,0019 DIN 28206)									
PLASMA CUTTING UNIT		Hypertherm HPR130XD									
TORCH HEIGHT CONTROL		Ermak THC									
CUTTING CAPACITY	Mm (inch)	1-38 (.039 - 1.49)	1-38 (.039 - 1.49)	1-38 (.039 - 1.49)	1-38 (.039 - 1.49)	1-38 (.039 - 1.49)	1-38 (.039 - 1.49)	1-38 (.039 - 1.49)	1-38 (.039 - 1.49)	1-38 (.039 - 1.49)	1-38 (.039 - 1.49)
ENERGY		400V, 50Hz, 6 Bar Air									
WEIGHT	Kg (lbs)	5150 (11369)	6650 (14680)	8150 (17991)	13550 (29912)	9200 (20309)	15850 (34989)	9950 (21965)	16900 (37307)	13400 (29581)	23500 (51876)
CUTTING CAPACITY	Mm (inch)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)
WEIGHT	Kg (lbs)	5500 (12141)	7000 (15453)	8500 (18764)	13900 (30684)	9550 (21082)	16200 (35762)	10300 (22737)	17250 (38079)	13750 (30353)	23850 (52649)

FIBERMAK MOMENTUM GEN-5

Next Generation Laser Technology

With its engineering designs, FIBERMAK Momentum Gen-5 offers innovative solutions to the industrial world while creating a stronger appearance with its unique stance and details embedded in its designs. With its cambered and structured body and strong curves, the new design also inspires with its unique colours.

Designed to meet all your needs, the new FIBERMAK Momentum Gen-5 servo motor and 4G acceleration options provide its users with superior performance and high efficiency at high cutting speed. The Industry 4.0 compatible control panel, with the entire software designed and developed by Ermaksan engineers, will maximize your production efficiency by making your work connected and smart with the perfect combination of technology and engineering. You'll also get a shorter return on investment while taking advantage of the latest features it has to offer.



CAMERA LASER BEAM CENTRING

This technology eliminates the need to manually centre the laser beam inside the nozzle. Higher cutting quality is achieved by centring the beam by means of the camera in a few seconds

PIERCETEC CUT CONDITIONS

With its integrated sensor, PierceTec controls laser power and drilling duration in real time. PierceTec saves on cycle time and operating costs.

AUTOMATIC PROFILE ALIGNMENT

An automatic profile alignment system has been developed for precise profile cutting with a profile cutting table in machines with Fibermak pipe and profile cutting options. This feature prevents measurement drifts that may occur in profile cuts

ANTI-COLLISION SYSTEM

During cutting, possible collision between the laser cutting head and the displaced pieces is prevented, protecting the cutting head against damages. This feature ensures maximum safety while reducing downtime and hardware costs.

SMART FACTORY SOLUTION

With Industry 4.0 solutions, it provides the opportunity to create a Smart Factory with a fast and flexible structure, which enables innovation by increasing productivity in businesses, improves processes, and minimizes errors.

MACHINE UPDATE

With the philosophy of continuous improvement, Ermaksan engineers offer the most up-to-date version allowing you to get the most out of your machine.

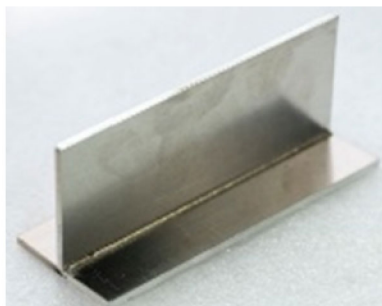
SPECIFICATIONS / RESONATOR		YLS 2000	YLS 3000	YLS 4000	YLS 6000
RESONATOR	Watt	2000	3000	4000	6000
LASER BEAM QUALITY	rad	2 - 2,5	2 - 2,5	2 - 2,5	2 - 4
POWER STABILITY	%	1 - 2	1 - 2	1 - 2	1 - 2
FIBER CABLE OUTPUT MEASUREMENT	µm	100	100	100	100
COOLANT FLOW RATE	l/min	10	20	20	40
AVERAGE CONSUMPTION (MAX)	-	-	-	-	-
MILD STEEL (S235JR,S355MC)	mm	16	18	20	25
STAINLESS STEEL (AISI 304)	mm	8	10	12	15
ALUMINUM (AlMg3)	mm	6	8	10	12
BRASS (CuZn37)	mm	4	5	6	8
COPPER (Cu-ETP)	mm	4	5	6	8
AVERAGE CONSUMPTION	kW	18	20	22	28
CUTTING HEAD	-	Precitec Procutter 2.0	Precitec Procutter 2.0	Precitec Procutter 2.0	Precitec Procutter 2.0
PULSE FREQUENCY RANGE	kHz	5			
POWER RANGE	%	10-105			
LASER WAVE LENGTH	nm	1070 ± 5			
EXCITATION	-	laser diode			
AUXILIARY GASES	-	-			
STEEL	-	Oxygen (0.5-6 Bar)			
STAINLESS STEEL	-	Nitrogen (0.5-25 Bar)			
ALUMINUM	-	Dry Air or Nitrogen (0.5-25 Bar)			

SPECIFICATIONS / MACHINE		SM 2,5X1,25	SM 3X1,5	SM 4X2	SM 6X2	SM 8X2	SM 9X2
WORKING AREA	mm	2500 x 1250	3000 x 1500	4000 x 2000	6150 x 2000	8000 x 2000	9000 x 2000
MAX. LOAD CAPACITY	kg	1000	1500	2500	4000	5500	6000
AXIAL MOVEMENTS	-	-	-	-	-	-	-
X, U AXES / SERVO MOTOR TABLE	mm	2550	3050	4050	6200	8200	9200
Y AXIS / SERVO MOTOR BRIDGE	mm	1270	1550	2050	2050	2050	2050
Z AXIS / SERVO MOTOR CUTTING HEAD	mm	150	150	150	150	150	150
ACCELERATION	G	2,5	2,5	2,5	2,5	1,5	1,5
SERVO MOTOR MAX. AXIS SPEEDS	m/ min	141 (combination speed) (X, Y single axis speed 100 m/min)					
LINEAR MOTOR MAX. AXIS SPEEDS	m/ min	170 (combination speed) (X, Y single axis speed 120 m/min)					
AUTOMATIC LOADING UNLOADING UNIT	Pallet	2 (30 sn)	2 (35 sn)	2 (45 sn)	2 (65 sn)	2 (75 sn)	2 (100 sn)
MACHINE DIMENSIONS (L x W x H)	mm	8190x3460x2200	10360x5295x2310	12430x5900x2310	16794x5900x2310	21135x6020x2310	22250x4300x2200
MACHINE WEIGHT	kg	12500	14500	18500	24500	35000	37000
MACHINE AXES	-	4-Axis [X, Y, Z, U]					
POSITIONING ACCURACY	mm	± 0,03					
REPETITION ACCURACY	mm	± 0,015					
CNC	-	BECKHOFF					
CAD /CAM SOFTWARE	-	METALIX, LANTEK					
NETWORK CONNECTION	-	Ethernet					
CONTROL PANEL	-	21.5-inch screen, alphanumeric keyboard, PLC keys, touchscreen keyboard					

SPECIFICATIONS / RESONATOR		YLS 8000	YLS 10000	YLS 12000	YLS 15000
RESONATOR	Watt	8000	10000	12000	15000
LASER BEAM QUALITY	rad	2-4	2-4	2-4	3,5 mm
POWER STABILITY	%	1-2	1-2	1-2	± 2
FIBER CABLE OUTPUT MEASUREMENT	µm	100	100	100	100
COOLANT FLOW RATE	l/min	40	60	70	150
CUTTING CAPACITIES (MAX)	-	-	-	-	-
MILD STEEL (S235JR,S355MC)	mm	25	30 (for laser cutting suitable sheet) 25 standards	30 (for laser cutting suitable sheet) 25 standards	30 (for laser cutting suitable sheet) 25 standards
STAINLESS STEEL (AISI 304)	mm	15	25(laser cut suitable sheet) 20 standards	25(laser cut suitable sheet) 25 standards	25(laser cut suitable sheet) 25 standards
ALUMINUM (AlMg3)	mm	15	30 (for laser cutting suitable sheet) 25 standards	30 (for laser cutting suitable sheet) 25 standards	30 (for laser cutting suitable sheet) 25 standards
BRASS (CuZn37)	mm	8	8	8	10
COPPER (Cu-ETP)	mm	8	8	8	10
GALVANIZED	mm	4	4	4	6
AVERAGE CONSUMPTION	kW	34	42	50	59
PULSE FREQUENCY RANGE	kHz	5	5	5	0 - 5
POWER RANGE	%	10-105	10-105	10-105	%10 - %105
EXCITATION	-		laser diode		

SM 6X2,6	SM 8X2,6	SM 9X2,6	SM 10X2,6	SM 12X2,6	SM 14X2,6	SM 16X2,6	SM 18X3
6150 x 2600	8000 x 2600	9000 x 2600	10000 x 2600	12000 x 2600	14000 x 2600	16000 x 2600	18000 x 3000
5000	6500	7500	8500	10000	11500	13000	17000
-	-	-	-	-	-	-	-
6200	8200	9200	10200	12200	14200	16200	18200
2700	2700	2700	2800	2800	2800	2800	3200
150	150	150	150	150	150	150	150
1,5	1,2	1,2	1	1	1	1	1
113 (Result Speed)(X, Y Single axis speed 80m/d)			85 (Result Speed)(X, Y Single axis speed 60m/d)				
141 (resultant speed) (X, Y single axis speed 100 m/min)			-				
2 (65 sn)	2 (90 sn)	2 (100 sn)	2 (130 sn)	2 (150 sn)	2 (180 sn)	2 (200 sn)	2 (220 sn)
16794x6700x2310	21078x6700x2310	22250x6700x2310	25000x5100x2200	26500x5000x2300	30500x5500x2200	35000x5100x2200	41675x7100x2310
30500	38000	45000	55000	63500	7000	75000	93000
4-Axis (X, Y, Z,U)							
± 0,03							
± 0,015							
BECKHOFF							
METALIX, LANTEK							
Ethernet							
21.5-inch screen, alphanumeric keyboard, PLC keys, touchscreen keyboard							

FIBER LASER WELDING MACHINE



Power of Generator	1000-3000W
Laser Wavelength	1070NM
Auto wire feeder	Including
Cooling Type	Water Cooling
Spot adjusting range	0.1-3mm
Repeating Precision	±0.01mm
Working Voltage	220,1PH/380V,3PH
Cleaning + welding + weld cleaning + cutting four-in-one optional	

FIBER LASER CUTTING MACHINE

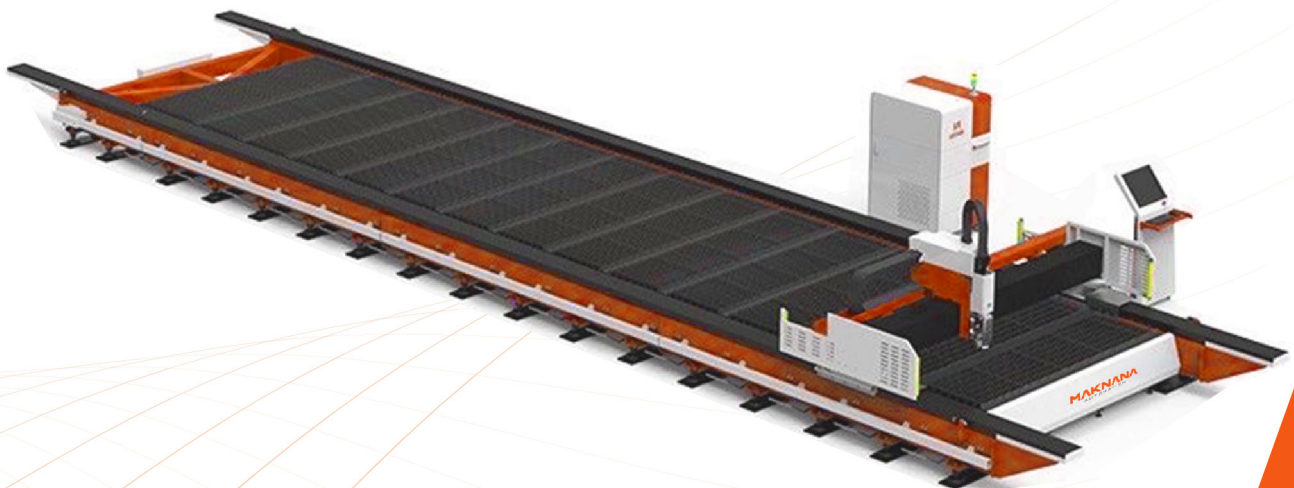
Rotary

Power of Generator	1000-6000W
Clamping Range	Round Tube Square Tube
Repeated Positioning Accuracy	± 0.02mm
Max Running Speed	120m/min
Voltage and Frequency	380V 50/60HZ



FIBER LASER CUTTING MACHINE

Special Machine



Power of Generator	1000-15000W
Working Area	12100*2550mm
X/Y Axis Positioning Accuracy	0.02
X/Y Axis Repositioning Accuracy	0.01
X/Y Axis Max Linkage Speed	80m/min
Max Acceleration	1.5G
Voltage and Frequency	380V 50/60HZ

FIBER LASER CUTTING MACHINE

Open Type



Power of Generator	1000-12000W
Working Area	3050*1530mm
Repeated Positioning Accuracy	± 0.02mm
Max Running Speed	120m/min
Max Acceleration	1.5G
Voltage and Frequency	380V 50/60HZ

FIBER LASER CUTTING MACHINE

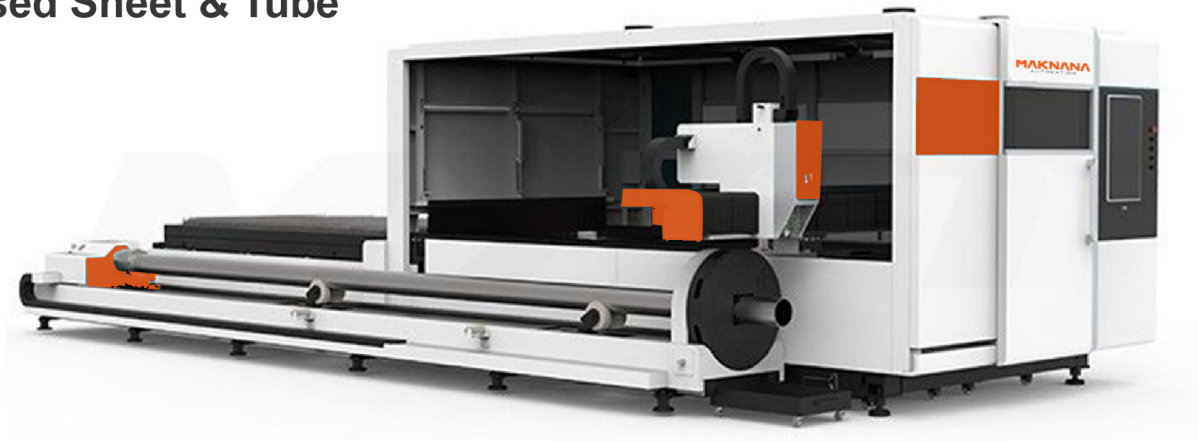
Sheet & Tube



Power of Generator	1000-12000W
Clamping Range	Round Tube Square Tube
	ø20 -ø220/ 20-220 / 20-245
Repeated Positioning Accuracy	± 0.02mm
Max Running Speed	120m/min
Max Acceleration	1.5G
Voltage and Frequency	380V 50/60HZ

FIBER LASER CUTTING MACHINE

Enclosed Sheet & Tube



Power of Generator	1000-30000W	
Clamping Range	Round Tube Square Tube	$\varnothing 20 - \varnothing 220 / \varnothing 20 - \varnothing 350$ $20 - 220 / 20 - 245$
Repeated Positioning Accuracy	$\pm 0.02\text{mm}$	
Max Running Speed	120m/min	
Max Acceleration	1.5G	
Voltage and Frequency	380V 50/60HZ	

FIBER LASER CUTTING MACHINE

Enclosed Type

Power of Generator	1000-12000W	
Working Area	3050*1530mm	
Repeated Positioning Accuracy	$\pm 0.02\text{mm}$	
Max Running Speed	120m/min	
Max Acceleration	1.5G	
Voltage and Frequency	380V 50/60HZ	



Cutting Data													
Material	Power Thickness [mm]	1000W	1500W	2000W	3000W	4000W	6000W	8000W	10000W	12000W	15000W	20000W	30000W
		Speed[m/min]											
CS	1	15	15-20	23-28	28-35	36-50	45-60	40-50	40-45	50-60	50-60		
	2	6	4-5	6-8	16-20	18-22	35-40	25-30	30-35	45-50	45-48		
	3	2.5-3.2	3-4	3-4	3.2-3.6	8-12	22-27	20-25	25-30	40-45	30-38		
	4	2.3-2.8	2.3-2.8	2.5-3.0	3-3.2	3-3.5	15-20	15-18	18-20	30-35	26-29		
	5	1.8-2.1	1.8-2.3	2.2-2.6	2.7-3	2.9-3.2	9-12	10-12	13-15	20-28	20-23	23-28	24-30
	6	1.2-1.5	1.6-2.0	1.8-2.0	2.2-2.5	2.7-2.8	8-10	8-9	10-12	16-20	17-19	18-20	25-28
	8	1-1.1	1.2-1.5	1.2-1.6	1.8-2.2	2.4-2.5	2.2-2.4	5-5.5	7-8	12-15	10-12	14-16	18-22
	10	0.6-0.8	0.9-1.2	1.0-1.2	1-1.3	1.9-2.1	2.0-2.2	2.3	3.5-4.5	8-9	7-8	9-12	14-17
	12		0.8	0.8-1.0	0.9-1	1.2-1.5	1.9-2.1	1.8-2	1.8-2	5-6.5	5-6	8-10	11-13
	14		0.6	0.6-0.75	0.8-0.9	0.9-1	1.4-1.6	1.6-1.8	1.6-1.8	3-3.2	4.5-5.5	6-8	8-10
	16			0.6-0.7	0.6-0.7	0.7-0.9	1.2-1.4	1.4-1.6	1.4-1.6	2.8-3	3-3.5	5-6	7.5-8.5
	20				0.5-0.55	0.55-0.65	0.6-0.8	1-1.2	1.2-1.4	2-2.3	2.5-2.8	2.7-3.2	5-5.5
	22				0.5	0.5-0.6	0.5-0.6						
	25					0.4-0.5	0.4	0.3-0.45	0.5-0.65	1.1-1.3	1.6-1.9	2.4-2.6	3-3.5
	30						0.3	0.2-0.25	0.3-0.35	0.9-1	1.2-1.3	1.7-1.9	2.2-2.6
SS	1	15-20	20-25	25-28	28-35	42-55	45-60	40-50	45-50	50-60	50-60	50-60	50-60
	2	4-6	8-10	9-15	18-24	21-28	35-45	30-35	35-40	45-50	45-50	50-60	50-60
	3	2.5-3	4.5-5.5	6-7	7-10	9-12	22-27	20-24	25-30	40-45	35-38	40-45	40-50
	4	1-1.5	3.0-3.5	2.8-3.5	5-6.5	6.5-8	15-20	15-18	18-20	35-40	25-29	30-35	35-40
	5		1.5-2.0	1.5-2.5	3-3.6	5-5.5	9-12	9-10	12-15	25-30	18-22	22-24	25-30
	6		0.7-0.9	1.0-1.5	2-2.7	3.3-4	8-11	7-8	8-9	15-20	15-18	18-22	22-25
	8				1-1.2	1.5-2	3.5-4.5	4-5	5-6	12-15	10-12	13-16	18-22
	10				0.5-0.6	1.2-1.5	2-2.5	3-3.5	3.5-4	8-10	8-9	10-12	14-18
	12					0.8	1.5-1.8	2-2.5	2.5-3	5-6	6-7	8-10	12-14
	14						1-1.5	1.5-2	2-2.5	3.5-4	4-4.2	6-8	8-10
	16						0.5-0.6	1-1.5	1.6-2	2-2.5	2.6-2.8	5-6	7.5-8.5
	18						0.3-0.5	0.8-1	1.2-1.5	1.3-1.5	2-2.3	3.2-4	6-7
	20						0.2-0.25	0.6-0.8	1-1.2	1.2-1.4	1.8-2	3-3.2	5-6
	30							0.15-0.2	0.25	0.25-0.3	0.6-0.7	1-1.2	1.5-2
	40								0.15	0.15-0.2	0.3-0.4	0.5-0.8	0.6-0.8
AL	50										0.2-0.25	0.2-0.3	0.2-0.3
	60											0.15-0.2	0.15-0.2
	80											0.08-0.1	0.08-0.1
	100											0.04-0.05	0.04-0.05
	1	10-15	12-16	20-25	25-30	35-40	45-60	40-45	45-50	50-60	48-52	55-60	55-60
	2	4-5	4.0-5.0	8-13	15-18	18-22	35-40	25-30	25-30	35-40	35-38	40-45	40-45
	3	1-1.5	1.5-2.5	4-4.5	7-8	8-10	22-27	22-25	20-25	30-35	25-27	30-35	30-35
	4		1.0-1.3	2.5-3.0	5-6	6-7	14-17	12-15	18-20	25-30	20-22	25-30	25-30
	5			1.5-2	2.5-3	4-5	9-11	8-10	14-16	20-25	15-17	18-20	18-25
	6				1.5-2	2.5-3	4-6	6-7	8-9	14-18	12-14	16-18	18-20
	8				0.6-0.7	1-1.2	2.5-3	3.5-4	5-6	7-9	8-9	10-12	15-18
	10					0.8	1.5-1.8	2-2.5	4-4.5	5-7	5-7	9-10	12-15
	12						0.8-1	1.6-2	1.6-2	3-4	2.5-3.5	5-6	10-12
	14						0.6-0.7	1-1.2	1.2-1.5	1.8-2.8	2-3	4-5	8-10
	16						0.35-0.45	0.8-1	1-1.2	1.5-1.8	1.5-2.5	3-4	6-8
	18							0.7-0.8	0.8-1	1-1.5	1.3-1.8	2-3	3-4
	20						0.2-0.3	0.5-0.6	0.6-0.8	0.8-1.2	0.8-1.2	1.5-2	2-3
	25							0.4-0.5	0.5-0.6	0.5-0.7	0.5-0.7	1-1.2	1.5-2
	30							0.2	0.25-0.45	0.4-0.5	0.4-0.5	0.8-1	0.8-1
	40								0.15-0.2	0.25-0.3	0.25-0.3	0.5-0.8	0.5-0.8
	50										0.2-0.25	0.4-0.6	0.4-0.6
	60											0.2-0.3	0.2-0.3

IRON WORKER

Five in One Machine...

EKM series iron worker is renewed as a result of Ermaksan engineering studies, and is designed with 3D CAD software having stations for punching, flat sheet cutting, L profile cutting, full square and round bar cutting and corner notching.

► Compact machine

► Practical operation

FUNCTIONAL OPERATIONS

Save from space and time by profile cutting, bending, punching, corner notching and oval cutting in a single machine.

EASY INSTALLATION

Installation and commissioning is simple thanks to its compact structure.



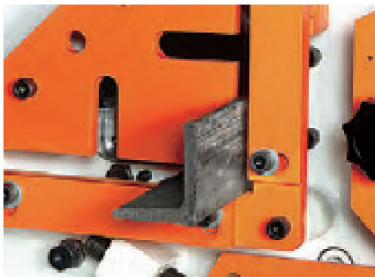
Punching station



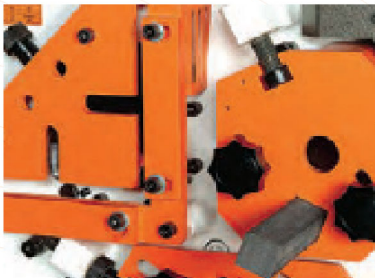
Notching station

MASS PRODUCTION WITH LOW COST

Besides competitive advantages with its low investment cost, it satisfies your expectations by hourly average output.



Profile cutting station



Bar cutting station



Flat sheet metal cutting station

PUNCHING	EKM40	EKM45
Ø Diameter x max. thickness	20 x 15 mm (0,79x0,59 inch)	22x15 mm (0,86x0,59 inch)
Diameter x thickness	30 x 10 mm (1,18x0,39 inch)	38x8mm (1,49x0,31 inch)
Max. Diameter X Thickness	38 x 8 mm (1,49x0,31 inch)	100x3mm (3,93x0,11 inch)
Stroke	50 mm (1,97 inch)	50mm (1,97 inch)
Strokecountin (20mm)	20	x20
Throat depth	175 mm (6,89 inch)	175mm (6,89 inch)
Working height	970 mm (38,2 inch)	935mm (36,8 inch)
STEELBARSHEAR		
Round/Square	30 round 25 mm square (1,18 round 1 inch square)	3 n
ANGLE SHEAR		
Angle section (90°)		(3,93x3,93x0,39 inch)
Angle section (45°)	50 x 6 mm (1,97x0,23 inch)	70x6mm (2,75x0,23 inch)
Working height	1110 mm (43,7 inch)	1140mm (44,9 inch)
SHEET METAL SHEAR		
Sheet metal	200 x 13 mm (7,87x0,51 inch)	200x15mm (7,87x0,59 inch)
Sheet metal	300 x 6 mm (11,81x0,23 inch)	300x12mm (11,81x0,47 inch)
Blade Length	356 mm (14,01 inch)	318mm (12,44 inch)
Shearing with angle	80 x 10 mm (3,15x0,39 inch)	80 x 10 mm (3,15x0,39 inch)
Working height	980 mm (38,6 inch)	935mm (36,8 inch)
NOTCHING		
Thickness		8mm (0,31 inch)
Width		35mm (0,38 inch)
Depth		75mm (2,95 inch)
Working height		935mm (36,8 inch)
OPTIONAL TOOLS		
U-I Section blades _{50x10x10mm (2x0,39x0,39 inch)}	76 x 38 mm (3x1,5 inch)	80x45mm (3,15x1,77 inch)
T Section Blades	38 x 6 mm (1,5x0,23 inch)	40x5mm (1,57x0,2 inch)
Special V-Notching tooling		100x100x8 (3,93x3,93x0,31 inch)
V - bending Press Brake		100x12mm (3,93x0,47 inch)
Sheet Bending Maximum		
Throat Depth		85mm (3,34 inch)
Punching on notcher		18x12mm (0,71x0,47 inch)
TECHNICAL DATA		
Motor Power	3kw (4 Hp)	4kw (5,4 HP)
Weight	580 kg (1279 lbs)	1165kg (2569 lbs)
Machine Dimension(LxWxH)	1100x800x1520mm (43,3x31,5x59,8 inch)	1430x950x1680mm (56,3x37,4x68,1 inch)
Power (Pressure)	40 ton (44 US Tons)	45ton (49,5 US Tons)

TECHNICAL SPECIFICATIONS

EKM60	EKM55/110	EKM65/140	EKM85/150	EKM115/180	EKM175/300
28x15mm (1,1x0,59 inch)	20x20mm (0,79x0,79 inch)	26 x 20 mm (1,02x0,79 inch)	33 x 20 mm (1,30x0,79 inch)	34 x 26 mm (1,34x1,02 inch)	40 x 32 mm (1,57x1,26 inch)
38x11mm (1,49x0,43 inch)	40x10mm (1,57x0,39 inch)	57 x 10 mm (2,24x0,39 inch)	57 x 12 mm (2,24x0,47 inch)	55 x 16 mm (2,16x0,63 inch)	57 x 22 mm (2,24x0,86 inch)
110x3mm (4,33x0,11 inch)	100x3mm (3,94x0,12 inch)	110 x 3 mm (4,33x0,11 inch)	110 x 4 mm (4,33x0,15 inch)	110 x 5 mm (4,33x0,19 inch)	125 x 5 mm (4,92x0,19 inch)
55mm (2,16 inch)	60mm (2,36 inch)	55mm (2,16 inch)	80 mm (3,15 inch)	80mm (3,15 inch)	80mm (3,15 inch)
x25	x25	25	25	25	22
220mm (8,66 inch)	255mm (10 inch)	305mm (12 inch)	355mm (13,97 inch)	355mm (13,97 inch)	625mm (24,6 inch)
955mm (37,6 inch)	1030mm (40,5 inch)	1030mm (40,5 inch)	1080mm (42,5 inch)	1110mm (43,7 inch)	1130mm (44,5 inch)
40 round 35 mm square (1,57 round 1,37 inch square)	40 round 40 mm square (1,57 round 1,57 inch square)	45mm (1,77 inch)	50mm (1,97 inch)	55-50 mm (2,16-1,97 inch)	65-55 mm (2,56-2,16 inch)
(4,72x4,72x0,47 inch)	(4,72x4,72x0,47 inch)	(4,72x4,72x0,47 inch)	150x150x15mm (5,9x5,9x0,59 inch)	150x150x16mm (5,9x5,9x0,63 inch)	
80x8mm (3,14x0,31 inch)	70x10mm (2,75x0,39 inch)	70 x 10 mm (2,75x0,39 inch)	80 x 8 mm (3,14x0,31 inch)	80 x 10 mm (3,14x0,39 inch)	80 x 10 mm (3,14x0,39 inch)
1155mm (45,5 inch)	1130mm (44,5 inch)	1140mm (44,9 inch)	1200mm (47,24 inch)	1215mm (47,83 inch)	1130mm (44,5 inch)
200x20mm (7,87x0,78 inch)	200x20mm (7,87x0,78 inch)	300 x 20 mm (11,8x0,78 inch)	380 x 20 mm (14,96x0,78 inch)	380 x 25 mm (14,96x0,98 inch)	380 x 30 mm (14,96x1,18 inch)
300x15mm (11,81x0,259 inch)	300x15mm (11,81x0,59 inch)	375 x 15 mm (14,76x0,59 inch)	480 x 15 mm (18,89x0,59 inch)	600 x 15 mm (23,62x0,59 inch)	600 x 20 mm (23,62x0,78 inch)
317mm (12,48 inch)	317mm (12,48 inch)	380 mm (14,96 inch)	482 mm (18,97 inch)	610 mm (24,01 inch)	610 mm (24,01 inch)
80 x 10 mm (3,15x0,39 inch)	80 x 15 mm (3,15x0,59 inch)	100 x 15 mm (3,93x0,59 inch)	120 x 15 mm (4,72x0,59 inch)	120 x 15 mm (4,72x0,59 inch)	120 x 15 mm (4,72x0,59 inch)
955mm (37,6 inch)	900mm (35,4 inch)	900 mm (34,5 inch)	940 mm (37 inch)	935 mm (36,8 inch)	810 mm (31,9 inch)
10mm (0,39 inch)	10mm (0,39 inch)	10mm (0,39 inch)	13mm (0,51 inch)	13mm (0,51 inch)	16mm (0,63 inch)
42mm (1,65 inch)	45mm (1,77 inch)	45mm (1,77 inch)	52mm (2,05 inch)	60mm (2,36 inch)	60mm (2,36 inch)
100mm (3,94 inch)	90mm (3,54 inch)	90mm (3,54 inch)	100mm (3,94 inch)	100mm (3,94 inch)	100mm (3,94 inch)
955mm (37,6 inch)	900mm (35,4 inch)	900mm (35,4 inch)	940 mm (37 inch)	935 mm (37 inch)	910mm (35,8 inch)
OPTIONAL TOOLS					
80x45mm (3,15x1,77 inch)	120x58mm (4,72x2,28 inch)	120 x 58 mm (4,72x2,28 inch)	160 x 74 mm (6,3x2,91 inch)	200 x 90 mm (7,87x3,54 inch)	300 x 125 mm (11,81x4,92 inch)
80x9mm (3,15x0,35 inch)	80x9mm (3,15x0,35 inch)	90 x 11 mm (3,54x0,43 inch)	100 x 11 mm (3,93x0,43 inch)	120 x 13 mm (4,72x0,51 inch)	150 x 15 mm (5,9x0,59 inch)
100x100x10 (3,93x3,93x0,39 inch)	100x100x10 (3,93x3,93x0,39 inch)	100x100x10 (3,93x3,93x0,39 inch)	100x100x13 (3,93x3,93x0,51 inch)	100x100x13 (3,93x3,93x0,51 inch)	100x100x16 (3,93x3,93x0,63 inch)
100x12mm (3,93x0,47 inch)	250x12mm (9,84x0,7 inch)	250 x 15 mm (9,84x0,59 inch)	250 x 20 mm (9,84x0,79 inch)	250 x 22 mm (9,84x0,87 inch)	250 x 25 mm (9,84x0,98 inch)
	500x3mm (19,68x0,12 inch)	500x3 mm (19,68x0,12 inch)	500x4 mm (19,68x0,16 inch)	700 x 3 mm (27,6x0,12 inch)	700 x 4 mm (27,6x0,16 inch)
110mm (4,33 inch)	125mm (4,92 inch)	125mm (4,92 inch)	125 mm (4,92 inch)	125 mm (4,92 inch)	125 mm (4,92 inch)
20x12mm (0,71x0,47 inch)	38x8mm (1,5x0,31 inch)	38 x 8 mm (1,5x0,31 inch)	38 x 10 mm (1,5x0,39 inch)	38 x 12 mm (1,5x0,47 inch)	38 x 13 mm (1,5x0,51 inch)
TECHNICAL DATA					
4kw (5,4 HP)	5,5kw (7,4 HP)	5.5kW (7,4 HP)	7.5 kW (10 HP)	11 kW (15 HP)	11kW (15 HP)
1440kg (3175 lbs)	1520kg (3352 lbs)	1600 kg (3528 lbs)	2315 kg (5098 lbs)	2920 kg (6439 lbs)	6000 kg (13230 lbs)
1520x950x1780 mm (59,8x37,4x70 inch)	1500x950x1880 mm (59x37,4x74 inch)	1700x950x1880 mm (67x37,4x74 inch)	1920x950x2040 mm (75x37,4x80,3 inch)	2040x950x2180 mm (80x37,4x86,8 inch)	2730x1150x2280 mm (107,5x45,2x89,8 inch)
60ton (66 US Tons)	55ton (61 US Tons)	65ton (71,5 US Tons)	85 ton (93,5 US Tons)	115ton (126,5 US Tons)	175 ton (192,5 US Tons)

3 ROLLS HYDRAULIC PLATE BENDING MACHINES

STANDARD ACCESSORIES

- Ferrules in full circle or varying radiuses can be done easily
- Lateral rolls move with hydraulic pistons in orbital way
- Overload protection
- 3 rolls powered by single planetary gearbox and gear system
- Hydraulic Drop-End for easy removal of finished ferrule
- Easy operation with mobile control panel
- Two digital readouts for easy roll positioning of bottom rolls
- Welded steel frames
- SAE 1050 (CK 45-50) forged or hot rolled, induction hardened and polished steel rolls
- Conical bending device with ball bearing
- Hydraulic balancing system for parallel movement of the rolls
- Extended roll shafts for profile and pipe bending operation
- Very suitable for light and medium plates, aluminium or stainless steel bending



TECHNICAL SPECIFICATIONS

Type	Useful length	Mi. Diameter Top roll =øx5 times	Mi. Diameter Top roll =øx1.5 times	Mi. Diameter Top roll =øx5 times	Mi. Diameter Top roll =øx1.5 times	Central Rolls	Side Rolls	Motor Power	Working Speed	Machine Dimension (LxWxH)	Weight
	mm	mm	mm	mm	mm	mm	mm	kW	m/min.(dk.)	mm	kg
3R HS 20-210	2050	12	10	10	8	210	190	7,5	5	3400x1200x1300	4100
3R HS 20-240	2050	15	13	13	10	240	220	7,5	5	3400x1300x1450	4950
3R HS 20-280	2050	18	16	16	12	280	260	7,5	5	4100x1500x1550	6850
3R HS 20-300	2050	22	20	20	16	300	280	11	5	4100x1500x1550	7400
3R HS 20-210	2050	10	8	8	6	210	190	7,5	5	3900x1200x1300	4570
3R HS 20-240	2050	12	10	10	8	240	220	7,5	5	3900x1300x1450	5600
3R HS 20-280	2050	15	13	13	10	280	260	7,5	5	4600x1400x1550	7720
3R HS 20-300	2050	18	16	16	12	300	280	11	5	4600x1500x1550	8400
3R HS 20-210	3100	7	6	6	4	210	190	7,5	5	4450x1200x1450	5205
3R HS 20-240	3100	10	8	8	6	240	220	7,5	5	4450x1300x1450	6600
3R HS 20-280	3100	12	10	10	8	280	260	7,5	5	5150x1400x1550	8370
3R HS 20-300	3100	15	13	13	10	300	280	11	5	5150x1500x1550	9050

HYDRAULIC SECTION AND PIPE BENDING MACHINES

STANDARD ACCESSORIES

- Steel construction welded frame
- 3 Rolls are powered
- Hardened and ground shafts made of high tensile special steel
- Rolls are hardened and ground
- Horizontal and vertical working position
- Mobile control panel
- 3 Axis mechanical lateral angle guide rolls
- Brake motor equipped for the precision bending
- Digital Read-Outs (2pcs)
- Bottom rolls hydraulic movable up-down



TECHNICAL SPECIFICATIONS

Parameter	HPK 65	HPK 80
Upper Roll Shaft Ø	Ø 60 mm	Ø 80 mm
Bottom Rolls Shaft Ø	Ø 50 mm	Ø 70 mm
Roll Diameter Ø	Ø 180 mm	Ø 245 mm
Working Speed	6 m/min	7 m/min
Motor Power	3.75 kW	4.75 kW
Length	1200 mm	1500 mm
Width	850 mm	1040 mm
Height	1200 mm	1400 mm

SAWING

Angle Automatic

GZ-X angle automatic sawing machine is used to cut all kinds of metal materials. Gantry double column structure is the best structure of horizontal sawing machine. It runs smoothly and greatly ensures the sawing accuracy. The saw frame can be manually rotated by 0-45 degrees to realize angular sawing of materials. The fully automatic control man-machine interface is equipped with automatic feeding, automatic cutting and other systems to control the working cycle through the cooperation of machinery, electricity and hydraulic pressure.



Specification	GZ4230X	GZ4235X	GZ4240X	GZ4250X	GZ4270X
Max. cutting (mm)	0°•300■300WX300H	0°•350■350WX350H	0°•400■400WX400H	0°•500■500WX500H	0°•700■700WX700H
	45°•240■240WX240H	45°•270■270WX270H	45°•300■300WX300H	45°•400■400WX400H	45°•580■580WX580H
	60°•80■80WX80H	60°•120■120WX120H	60°•150■150WX150H	60°•260■260WX260H	60°•310■310WX310H
Saw blade speed (m/min)	27, 45, 69	27, 45, 69	27, 45, 69	27, 45, 69	27, 45, 69
Saw blade size (mm)	27x0.9x3850	34x1.1x4515	41x1.3x5400	27x0.9x3850	54x1.6x7780
Main motor (kw)	3	4	4	3	7.5
Hydraulic motor (kw)	0.55	0.75	1.1	1.5	2.2
Cooling motor power (kw)	0.04	0.04	0.125	0.125	0.21
One way feed length (mm)	500	500	500	500	500
Main Transmission structure	Worm gear transmission				
Working Clamping Mode	Hydraulic vice				
Feeding Method	Auxiliary vice				
Cleaning	Wire brush and flood coolant				
Dimension (mm)	2400x2100x1600	2500x2200x1700	2600x2400x1900	3200x2400x2000	4800x2800x3200

YDH41 SERIES

Hydraulic Press

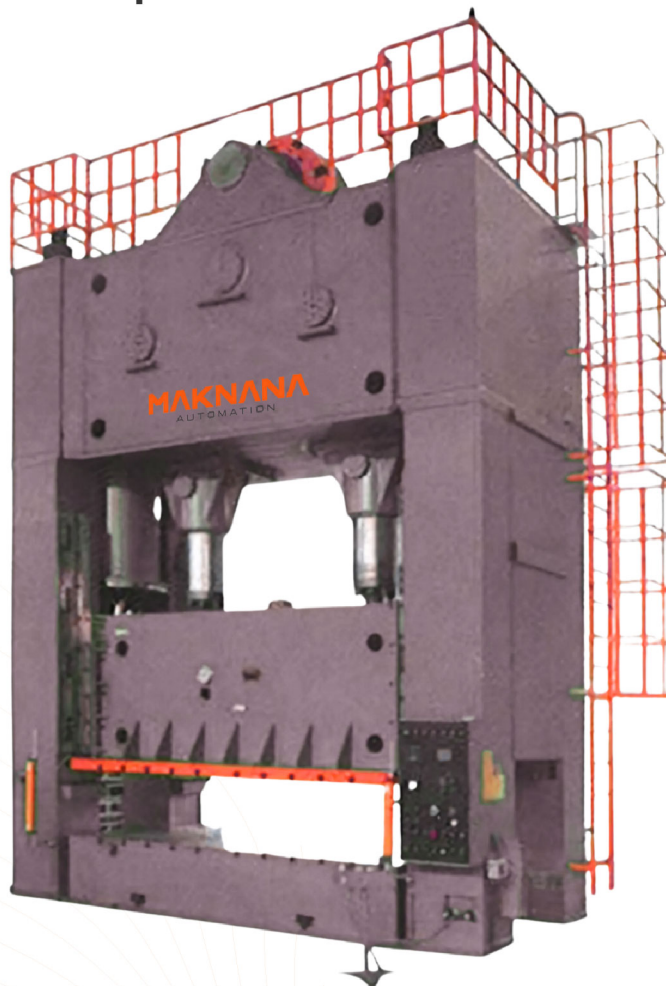
- It adopt intellegient structure,c type single arm frame structure, has the feature such as good reliable,simple structure and easy operation.
- The frame is entirely welded with steel plates and treated to relive stressby tempering.
- Cartridge valve equipped for hydraulic control system, reliable, durableand less hydraulic shock, shorter connection pipeline and fewer release points.
- Hydraulic system adopt pressure pre-release device.low impact of hydraulic pressure
- Independent electrical control, reliable.audio-visual and convenient for maintenance.
- Centralized button control system,with adjustmenthand and semi-auto operation modes at operator's choice{semi-automatic has two typetech;set-stroke single and set-presser single).
- The operating force.noload traveling and, low-speed movement and travel range can be adjusted subject to technological requirements



Description		Typ	YL41-40	YL41-63	YL41-80	YL41-100	YL41-100A	YL41-160	YL41-200	YL41-315A	YL41-315	YL41-400	YL41-500	
Rated force		kN	400	630	800	1000	1000	1600	2000	3150	3150	4000	5000	
Return force		kN	80	95	105	125	165	210	240	600	600	800	1000	
Liquid pressure		MPa	25	25	25	25	25	25	25	25	25	25	25	
Ram stroke		mm	400	500	600	700	700	800	800	1000	1000	1200	1200	
Throat depth		mm	200	300	300	300	300	400	400	600	600	800	800	
Daylight -	Straightening	mm	600	700	700	900	900	1000	1100	1200	1200	1250	1250	
	Press-in	mm	800	900	900	1100	1100	1200	1300	1500	1600	1700	1700	
Ram speed	Idle stroke	mm/s	9-12	9-12	9-12	10-15	10-15	7-15	7-15	6-12	6-12	5-8	5-8	
	Pressing	mm/s	6-14	6-14	6-14	7-15	7-15	7-15	7-15	6-10	6-10	5-8	5-8	
	Return	mm/s	18-25	18-25	18-25	20-30	20-30	20-30	20-30	20-30	20-30	25-30	25-30	
Table size	L-R	Straightening	mm	620	720	720	800	850	1000	1000	1120	1250	1400	1500
		Press-in	mm	620	720	720	850	1000	1000	1000	1120	1250	1400	1500
		F-8	mm	420	460	460	500	500	800	800	800	800	800	800
Slide block size -		L-R	mm	620	720	720	800	850	1000	1000	1120	1250	1400	1500
		F-B	mm	420	460	460	500	500	800	800	800	800	800	800
Table height above floor	L-R	Straightening	mm	700	750	800	850	850	950	1000	1100	1100	1200	1200
Dimension of part dropping hole		Press-in	mm	Φ200	Φ200	Φ200	Φ200	Φ200	Φ300	Φ300	Φ400	Φ400	Φ400	Φ400
		F-B	mm	1250	1250	1300	1350	1350	1650	1800	2000	2200	2600	2800
Overall dimensions	Height	Straightening	mm	850	850	900	950	1000	1200	1250	1400	1600	1800	2000
	Above	Press - in	mm	2200	2300	2500	2600	2700	3100	3400	3800	4200	4600	4800
		Floor	mm	700	750	800	850	900	950	1000	1200	1300	1400	1400
		Height below the	kW	2.2	3	5.5	5.5	7.5	11	15	18.5	18.5	30	30
		ground level	kW	3	4.5	5.5	6.5	7.5	11	15	18.5	18.5	30	37
Motor power		Straightening	kg	2800	4200	5300	6400	7400	11000	16800	26000	33000	42000	49000
Weight of machine		Press-in	kg	3000	4500	5500	6800	7800	12000	18500	28000	36000	46000	56000

J36 SERIES

Straight Side Type Double-point Press



- Welded Steel plate framework with cross beam, column and the base tightened and combined into one body by taut bolts.
- Main transmission pair adopts herringbone gears.
- Slide guiding adopts eight-face orthogonal guide rail or four-face with angles of 45 degree guide rail.
- Pneumatic friction clutch and brake.
- Equipped with hydraulic overload protecting device.
- Automatic oil lubrication system with regular time and capacity.
- Duplex valves imported from Japan.
- Controlled by PLC with international brand
- Buttons, indicators, AC contactors, air circuit breakers and other controlling devices are imported from international brand.
- Double loop control by imported electronic and mechanical cam controller.
- Air cushion included.
- Optional: front-back moving bolster, hydraulic cushion, low speed shut height adjustment and transmission system, light curtain.
- JC36 series does not have guiding column and sleeves. series adopts guiding column and sleeves. The height in the technical parameters only confined to JD36 series.
- JS series with T cross moving bolster, adjustable stroke of air cushion, four-side 45 degree guide rail, guiding column and sleeves, combined wet clutch. (International brand).

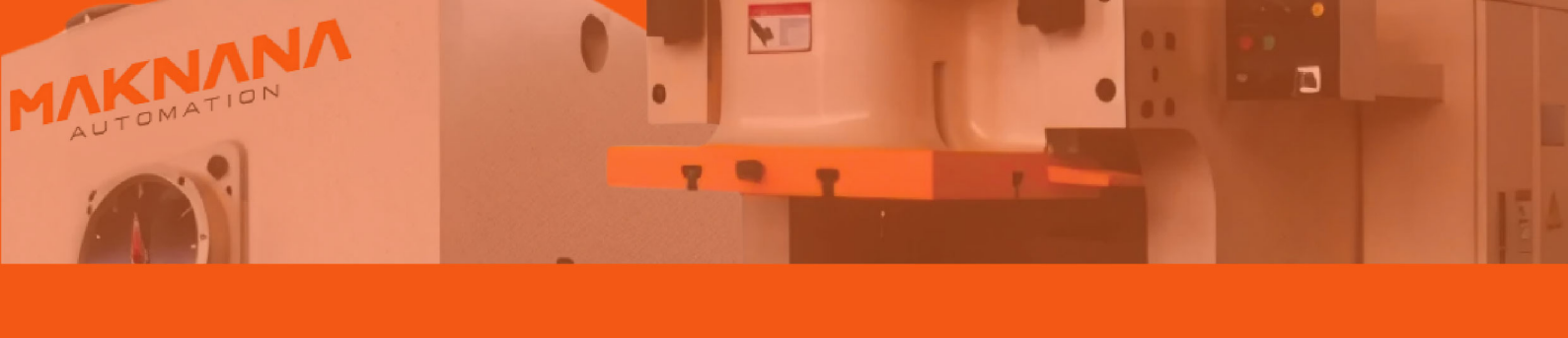
Description	Unit	JC36-250 JD36-250	JC36-400 JD36-400	JC36-800 JD36-800	JC36-800F JD36-800F	JS36-630	JS36-1000B
Nominal force	kN	2500	4000	8000	8000	6300	10000
Stroke under nominal force	mm	13	13	13	13	13	13
Slide block stroke	mm	400	400	500	500	400	500
Number of strokes	min ⁻¹	20	15	10	10	12-18	12-18
Max die set height	mm	600	750	1000	1000	900	1000
Die set height adjustment	mm	250	315	500	500	400	400
Worktable dimensions (F 8×R×H)	mm	1250×2770×160	1600×2800×170	1800×4000×240	1800×4000×240	1900×3600	1900×3600
Dimensions of slide block bottom surface (F 8×R. L)	mm	1050×2560	1600×2800	1600×3980	1600×3980	1800×3600	1800×3600
Stroke of material to be punched (rigid)	mm	140	150	200	200	200	200
Distance between Gibs	mm	2260	2780	3700	3700	3600	3800
Cushion (option) Pressing/Ejection force	kN	510/510	600/600	1300/1300	1300/1300	1000/1000	1300/1300
Cushion (option) Stroke	mm	200	220	240	240	220	240
Cushion (option) Number		one cap	one cap	one cap	one cap	—	—
Outline dimension F8	mm	2800	3100	3500	3500	4350	4600
Outline dimension RL	mm	5100	5900	6900	6900	8200	8900
Outline dimension Height above floor	mm	6000	6700	8000	8000	8900	9400
Total weight	T	37	55	90	95	—	—
Main motor capacity	kW	37	55	90	90	⚙	⚙
Direction for the displacement of worktable		/	/	/	/	—	—

JH21 SERIES

Open Back Press With Dry Clutch And Hydraulic Overload Protector

- Welded body with steel plate an high intensity
- Adopts combined pneumatic friction clutch and brake.
- Cluster gear adopts the flooding oil lubrication.
- Six-face rectangle lengthen guide.
- Equipped with hydraulic overload protecting device
- JH21-25/258/45 adopts manual shut height adjustment among these types JH21-25145 adopts scale display and JH21-258 with digital display JH21-63 and
- Above type adopts electric shut height adjustment with digital display.
- (JH21-258,)H21-45 and above type equipped with balance rylinder.
- Duplex valves imported from Japan.
- Controlled by PLC with international brand. Buttons, indicators, AC contactors, air circuit breakers and other con-trolling devices are imported from international brand.
- Electric compelling grease lubrication system. are imported from international brand.
- Equipped with optional air cushion device, automatic feed shaft and photoelectric protecto[which can used to work with various automatic equipments





Specification	Unit	JH21-25B	JH21-25	JH21-45	JH21-63	JH21-80	JH21-110	JH21-125	JH21-200	JH21-200B	JH21-250	JH21-250B	JH21-315	JH21-400
Nominal Force	kN	250	250	450	630	800	1100	1250	2000	2000	2500	2500	3150	4000
Stroke Under Nominal Force	mm	4	4	6	6	6	6	6	6	6	6	6	6	6
Slide Block Stroke	mm	60	80	100	120	140	140	140	160	200	200	200	200	250
Number Of Strokes (Fixed)	min ⁻¹	100	100	80	70	60	50	50	35	30	25	25	25	20
Number Of Strokes (Variable Optional)	min ⁻¹	80-120	80-120	70-90	60-80	50-70	40-60	40-60	30-40	25-40	25-35	25-35	25-30	20-30
Max Die Set Height	mm	200	250	270	300	320	350	350	400	430	430	430	430	430
Die Set Height Adjustment	mm	50	50	60	70	70	80	80	100	120	120	120	130	130
Distance From Slide Block Centre To Frame	mm	160	200	250	300	320	370	370	460	460	480	480	480	480
Worktable Dimensions	mm	330×680	400×700	410×800	580×900	580×1000	680×1150	680×1150	760×1040	760×1400	800×1400	800×1400	870×1450	870×1600
Dimensions Of Worktable Holes	mm	130×260	Φ170×Φ205×Φ220	Φ180×Φ200×Φ230	Φ180×Φ200×Φ230	Φ200×Φ200×Φ230	Φ220×Φ200×Φ230	Φ220×Φ200×Φ230	Φ300×Φ260×Φ220	Φ300×Φ260×Φ220	Φ300×Φ260×Φ220	Φ300×Φ260×Φ220	Φ380×Φ300×Φ260	Φ380×Φ300×Φ260
Thickness Of Bolster	mm	70	80	90	100	110	120	120	140	150	160	160	170	180
Hole Dimensions in Bed	mm	200×270	270×300	Φ365	Φ365	Φ365	Φ400	Φ400	Φ470	Φ470	370×570	370×570	440×580	470×590
Dimensions Of Slide Block Bottom Surface	mm	270×330	300×360	340×400	410×400	420×560	540×680	540×680	600×800	600×800	650×850	650×850	700×960	700×960
Size Of The Handle Hole	mm	Φ40×60	Φ40×60	Φ50×80	Φ50×80	Φ50×80	Φ65×90	Φ65×90	Φ65×95	Φ65×95	Φ70×90	Φ70×90	Φ70×90	Φ70×90
Distance Between Columns Of Body (Front/Rear)	mm	448	450	520	554	604	726	726	800	800	870	870	920	920
Main Motor Power	kW	2.2	3	4	5.5	5.5	7.5	7.5	15	15	18.5	18.5	22	37
Cutline Dimension	mm	1150×850×1250	1280×1050×1280	1600×1200×1400	1760×1280×1700	1820×1280×1800	2010×1400×2050	2010×1400×2050	2320×1550×3230	2500×1830×3200	2730×1640×3550	2730×1640×3550	2770×1650×3850	2830×1680×3890
Net/gross Weight	kg	2200/2500	2800/3250	4000/4500	6100/7000	8000/9200	11000/12200	11800/13000	18800/20300	19000/20500	24500/26500	25300/27300	28500/31000	32500/35000

J23 SERIES

Model D Press with Adjustable Stroke

- Adopts horizontally placed crankshaft.
- Stroke adjustment device mounted on crankshaft.
- Rigid rotated bond clutch.
- Manual shut height adjustment with scale display.

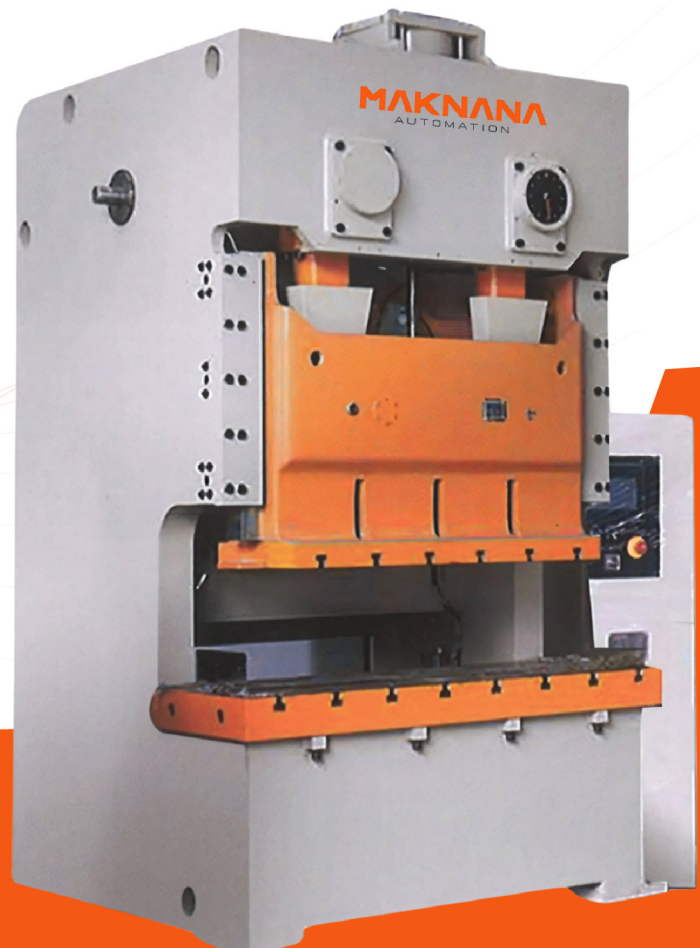


Description	Unit	JC23-6.3D	J23-10D	J23-16D	J23-25D	JG23-40D	JC23-63D	J23-80D
Nominal force	kN	63	100	160	250	400	630	800
Stroke under nominal force	mm	2	2	2	2.5	4	4	5
Slide block stroke	mm	0-40	0-60	0-70	0-80	20-120	20-120	10-130
Number of stroke	min ⁻¹	170	145	125	100	55	50	45
Max. die set height	mm	105	130	170	180	220	260	280
Die set height adjustment	mm	20	35	30	45	70	80	80
Distance from slide block centre to the frame	mm	110	130	170	210	260	260	270
Worktable dimensions (F·B × L·R)	mm	200×310	240×360	320×480	400×600	480×710	480×710	520×860
Dimensions of worktable hole	mm	Φ60	Φ120×20×Φ100	Φ100	Φ120	Φ220×5×Φ180	Φ200×45×Φ180	Φ200×45×Φ180
Thickness of bolster	mm	40	50	60	70	80	90	100
Hole dimensions in bed (Diameter × F·B × L·R)	mm	Φ140×110×160	Φ130×90×180	Φ210×160×240	Φ180×130×260	Φ200×150×300	Φ250×200×340	Φ250×200×340
Dimensions of slide block bottom surface (F·B × L·R)	mm	120×140	150×170	180×200	210×250	270×320	280×320	280×380
Size of the handle hole (Diameter × Depth)	mm	Φ30×55	Φ30×55	Φ40×60	Φ40×70	Φ50×70	Φ50×80	Φ60×75
Max. tilting angle of body	°	30°	25°	25°	25°	25°	25°	20°
Distance between columns of body	mm	150	180	220	260	300	350	410
Motor Type	-	Y2-90S-6	Y2-90L-6	Y2-100L-6	Y2-100L1-4	Y2-132M1-6	Y2-132S-12	Y2-160M-6
Motor Power	kW	0.75	1.1	1.5	2.2	4	5.5	7.5
Outline dimension (F·B × L·R × H)	mm	780×610×1505	915×700×1690	1150×900×1910	1325×900×2140	1600×1180×2310	1810×1350×2640	1810×1410×2790
Net / Gross weight	kg	360 / 510	600 / 790	1080 / 1405	1900 / 2300	3180 / 3580	4200 / 4700	5280 / 5780

J25/JH25 SERIES

Open Back Double Point Press With High Performance

- Welded body with steel plate and high intensity.
- Suitable for multiple dies automatic line and multi-level dies continuous punching.
- Double crankshaft pinion totally eliminating side forces by reverse rotation.
- Combined wet multi discs friction clutch and brake.
- Cluster gear adopts the flooding oil lubrication.
- Six-face rectangle lengthen guide.
- Equipped with hydraulic overload protecting device.
- Adopts electric shut height adjustment with digital display.
- Equipped with lifting balance cylinders.
- Duplex valves imported from Japan.
- Electric compelling grease lubrication system.
- Controlled by PLC with international brand.
- Buttons, indicators, AC contactors, air circuit breakers and other controlling devices are imported from international brands.
- Equipped with optional air cushion device, photoelectric protector which can be used to work with various automatic equipment.



Description	Unit	J25-80 / JH25-80	J25-110 / JH25-110	J25-160 / JH25-160	J25-200 / JH25-200	J25-250 / JH25-250
Type		I / II	I / II	I / II	I / II	I / II
Nominal force	kN	800	1100	1600	2000	2500
Stroke under nominal force	mm	5 / 3	5 / 3	6 / 3	7 / 3	7 / 3.5
Slide block stroke	mm	160 / 90	180 / 110	200 / 130	250 / 150	280 / 170
Number of stroke	min ⁻¹	55 / 70	60 / 45	45 / 35	35 / 45	30 / 40
Fixed						
Variable		40-75 / 55-90	35-65 / 50-80	30-55 / 40-65	25-45 / 35-55	20-35 / 30-45
Max die set height	mm	350	400	450	500	550
Die set height adjustment	mm	80	90	100	110	120
Distance from slide block center to frame	mm	310	350	390	430	470
Worktable dimensions (F·B × L·R)	mm	600 × 1600	680 × 1880	760 × 2040	840 × 2420	920 × 2700
Thickness of bolster	mm	110 / 145	130 / 165	150 / 185	170 / 220	180 / 235
Dimensions of slide block (F·B × L·R)	mm	460 × 1200	520 × 1360	580 × 1500	650 × 1850	700 × 2100
Size of handle hole (diameter × depth)	mm	3-Φ60 × 60	3-Φ60 × 70	3-Φ60 × 75	3-Φ60 × 85	3-Φ60 × 95
Distance between columns of body	mm	1200	1450	1600	1900	2220
Main motor power						
Type		YCT225-4A	YCT225-4B	YCT250-4A	YCT250-4B	YCT280-4A
Power	kW	11	15	18.5	22	30
Air Cushion Force	kN	40 × 2	55 × 2	80 × 2	100 × 2	125 × 2
Air Cushion Stroke	mm	60	70	80	90	100
Worktable height	mm	900	935	950	1000	1155
Outline dimension (F·B × L·R × H)	mm	2160 × 1750 × 3100	2250 × 2040 × 3260	2550 × 2220 × 3580	2660 × 2560 × 3980	2880 × 2860 × 4320
Net weight	kg	13000	16300	25000	30000	41000

JM31/JMD31 SERIES

Gantry Type Single Point Press With High Performance

- Welded Steel plate framework with high Intensity of machine body.
- Imported dry type friction clutch and brake,wet friction clutch and brake are optional for JM31-160-400 type.
- Equipped with hydraulic overload protecting devrce.
- Eight-side lengthened guide with high precision.
- Adopts electric shut height adjustment with digita display.
- Equipped with lifting balance rylinder.
- Duplex valves imported from Japan.
- Electric compelling grease lubrication system.
- Controlled by PLC with international brand.
- Buttons, indicators, AC contactors, air circuit breakers and other controlling devices are imported from international brand.
- Electronic cam device with intelligent top dead center stop function and several safety function.
- Optional air cushion device, NC feeding machine, lightcurtain and inverter with international brand to fulfill stroke adjustment.
- JMD31 series equipped with multi pitmen framework,surtable for flat stretching.



Description	Unit	JM31-160 / JMD31-160	JM31-200 / JMD31-200	JM31-250 / JMD31-250	JM31-315 / JMD31-315	JM31-400	JM31-500	JM31-630
Nominal force	kN	1600	2000	2500	3150	4000	5000	6300
Stroke under nominal force	mm	6	6	6	8	8	10	10
Slide block stroke	mm	160	180	200	200	200	200	250
Number of stroke	min ⁻¹							
Fixed	min ⁻¹	40	35	30	30	25	20	18
Variable (Optional)	min ⁻¹	35-50	30-40	25-35	25-35	20-30	/	/
Max die set height	mm	350	450	500	550	600	650	700
Die set height adjustment	mm	110	110	120	120	120	120	120
Worktable dimensions (F·B × L·R)	mm	740×1050	760×1130	800×1200	850×1250	900×1350	1000×1500	1200×1700
Thickness of bolster	mm	150	160	170	170	180	190	200
Dimensions of slide block bottom surface (F·B × L·R)	mm	650×800	650×850	700×900	750×950	800×1050	900×1200	1100×1450
Size of handle hole (Diameter × Depth)	mm	Φ65×90	Φ65×90	Φ70×90	Φ70×90	Φ80×90	Φ80×90	Φ90×100
Distance between columns of body	mm	1150	1200	1320	1370	1550	1700	1900
Dimension of side hole (F·B × H) (from worktable)	mm	760×300	800×370	820×430	880×480	920×520	1020×600	1100×650
Distance between upper surface of bolster and ground	mm	1030	1030	1050	1050	1050	1060	1050
Main motor capacity	kW	15	18.5	22	30	37	45	75
Number		1	1	1	1	1	1	1
Cushion (Optional)								
Knock out force	kN	160	160	250	250	250	250	250
Knock out stroke	mm	80	80	80	80	80	80	80
Knock out area	mm	Φ350	Φ350	340×540	400×540	400×540	400×540	400×540
Outline dimensions (F·B × L·R × H)	mm	2480×1750×3500	2570×1810×3610	2950×2080×3850	3150×2200×4000	3430×2400×4140	3670×2500×4600	4150×2900×5200
Net weight	kg	20000	24000	31000	36000	42000	52000	64000

YL32 SERIES

Four-column Hydraulic Press

Computer optimized design, 3-beam, 4-column structure, simple but with high performance price ratio.

Cartridge valve integral unit equipped for hydraulic control system, reliable, durable and less hydraulic shock, with shorter connection pipeline and fewer releases points.

Independent electrical control, reliable, audio-visual and convenient for maintenance.

Centralized button control system, with adjustment hand and semi-auto operation modes at operator's choice.

Fixed stroke forming process or fixed pressure forming process selected through control panel, with pressure hold and time delay functions.

The operating force, no-load traveling and, low-speed movement and travel range can be adjusted subject to technological requirements.



YL32-800	YL32-1000	YL32-1600	YL32-2000	YL32-20000
8000	10000	16000	20000	63000×3
1200	1200	1600×2	1600×2	1000×3
2×720	2×1300	2×720	2×1300	850×2+720
1200	1300	1300	1600	1600
350	350	350	350	350
1800	1800	1800	1800	1800
110	110	110	110	110
4-9	4-9	4-9	4-9	4-9
85	95	95	95	75
70	70	70	60	60
160	160	160	160	160
2200	2200	2800	3200	4600
2200	2200	2200	2600	3600
4800	4800	4500	5800	6000
5200	5200	5200	5400	6800
6700	6700	7200	7300	9100
3×30	3×30	3×37	3×37	3×37
53000	72000	110000	160000	250000

Description	Type	YL32-63	YL32-100	YL32-160	YL32-200	YL32-250	YL32-250A	YL32-315	YL32-315A	YL32-400	YL32-500	YL32-500A	YL32-630	YL32-630A
Rated force	kN	630	1000	1600	2000	2500	2500	3150	3150	4000	5000	5000	6300	6300
Knock out force	kN	190	190	190	280	280	280	630	630	630	1000	1000	1000	1000
Return force	kN	120	165	210	260	400	700	400	700	400×2	850	850	1300	2×720
Ram stroke	mm	500	500	650	710	710	710	800	800	900	900	900	1000	1000
Knock out stroke	mm	200	200	200	200	300	300	300	300	350	350	350	350	350
Max. daylight	mm	800	800	1120	1120	1250	1250	1250	1250	1500	1500	1500	1800	1800
Ram speed														
Idle stroke	mm/s	100	120	100	120	130	160	100	100	150	150	150	130	120
Pressing	mm/s	8-16	7-15	4-10	5-12	4-10	4-10	5-12	5-12	4-10	7-15	7-15	5-12	5-12
Return	mm/s	85	90	70	95	60	60	60	60	70	90	90	85	95
Knock out speed														
Knock out	mm/s	55	75	75	75	85	55	55	55	75	75	75	95	75
Return	mm/s	105	140	140	145	145	145	145	145	170	170	170	210	160
Table size														
L-R	mm	580	690	940	1120	1120	1260	900	1250	1400	1600	1600	1600	1800
F-B	mm	500	630	940	1120	1120	1160	900	1250	1400	1600	1600	1600	1800
Outline dimensions														
L-R	mm	2500	2500	2550	2650	3000	3000	3500	3150	3900	4800	4800	4510	4900
F-B	mm	1430	1430	3210	3360	3360	3360	3500	3360	4250	4500	4500	4900	5200
Height above floor	mm	3220	3250	3810	3890	4290	4600	4600	4500	5250	5600	5600	5700	5700
Motor capacity	kW	5.5	7.5	11	15	15	15	22	22	2×22	2×22	2×22	2×22	3×22
Weight of the machine	kg	2800	3700	6500	9000	10300	10600	14000	11000	16500	25500	30400	33000	42000

MILLING MACHINE

CNC Milling Machine

This machine tool is a CNC bed milling machine with strong bearing capacity. The three-direction guide rails are all hardened hard rails, with wide guide rails and large spans. The structure and dimensions are compact and reasonable. It can perform various functions such as milling, drilling, reaming and reaming, which can realize the processing of complex and high-precision parts such as discs, plates, shells, and molds. It is an ideal processing equipment for machinery, electronics, instruments, meters, molds, automobiles and other industries.

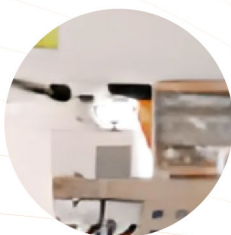


Specification	XK7126	XK7136
Left & right stroke (X) mm	600	900
Front & rear travel (Y) mm	360	400
Up & down stroke (Z) mm	450	500
Distance from spindle head end face to work table (mm)	70-520	100-600
Work surface length (mm)	800	1250
Work surface width (mm)	300	360
Workbench load (kg)	350	400
T-slot specifications (mm)	3-16	3-18
Spindle taper	BT40	BT40
Distance from spindle center to guide rail surface (mm)	380	460
Spindle speed (rpm)	8000	8000
Maximum power rating (kw)	3.7	5.5
Positioning accuracy (mm)	±0.015	±0.015
Repeatability (mm)	±0.008	±0.008
Axial motor power X/Y/Z (N)	6/6/10	7.7/7.7/10
X/Y/Z maximum rapid traverse speed (m/min)	12/12/10	12/12/10
Dimensions (mm)	2200*1800*2250	2300*1850*2350

MILLING

Drillin Milling Machine

ZX6350 drilling and milling machine not only has the function of end milling, but also has the function of horizontal milling. The transmission of horizontal milling shaft is realized through a group of tower wheels, with stable transmission and high power. It is widely used in drilling, milling, boring, grinding and other cutting of metal materials and other materials. It is suitable for instrument industry, machinery manufacturing, architectural decoration and machine repair workshop with single piece or batch production. It is an ideal equipment for machining.



Specification	ZX6350A/C/D
Spindle taper	MT.4
Spindle end to work surface distance (mm)	90-390
Horizontal axis to work surface distance (mm)	0-300
Vertical shaft center to bed vertical rail surface distance (mm)	200-500
Spindle speed range(r/min)	115-1750/40-1300
Elevator lift feed motor power(W)	750
Workbench size(mm)	1200x280
Table travel (mm)	600/300/400
Cantilever horizontal plane to the axial center distance(mm)	175
Table longitudinal/transverse maneuvering feed rate(mm/min)	22-555/810
Worktable vertical maneuvering speed(mm/min)	560
Workbench T-slot number/width/spacing(mm)	3/14/70
Main drive motor power(kw)	1.5/2.2
Workbench motorized feed motor power (W)	750
Cooling pump motor power(W)	40
Dimensions(mm)	1680x1480x2150

DRILLING

Vertical Drilling Machine

Applicable to process requirements such as drilling, reaming and tapping of workpieces. The machine tool has strong rigidity, good stability and high precision.

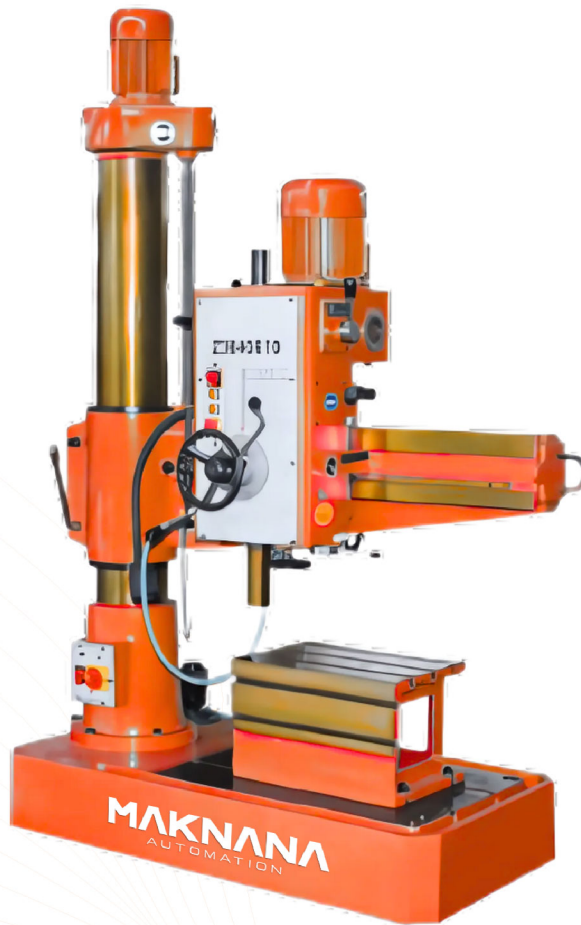


Specification	Z5140	Z5150
Max. Drilling capacity	Cast iron: 40mm Steel: 32mm / M22	Cast iron: 50mm / M30 Steel: 42mm / M24
Spindle taper	MT4	MT5
Spindle travel	250mm	250mm
Spindle box travel (Manual)	200mm	200mm
Step of speed	12	12
Step of feeding	9	9
Spindle speed	31.5-1400rpm	31.5-1400rpm
Range of feeding	0.056-1.8mm/r	0.056-1.8mm/r
Worktable size	560*480mm	560*480mm
Transverse travel of worktable	450/300mm	450/300mm
Lifting stroke of worktable	300mm	300mm
Max. distance from spindle end to worktable	750mm	750mm
Main motor	3kw	3kw
Machine size	1090*905*2540mm	1090*905*2540mm

DRILLING

Radial Drilling Machine

Radial drilling machines are widely used in single piece and small and medium batch production to process the holes of workpieces with large volume and weight. It can be used to drill various screw holes, threaded bottom holes and oil holes of large workpieces. It is widely used in various industries of machining.



Specification	Z3040x10	Z3040x13	Z3040x13A
Drilling diameter (mm)	40	40	40
Spindle end to table distance (mm)	260-1000	260-1000	260-1000
Spindle center to column bus distance (mm)	360-1000	360-1300	360-1300
Spindle travel (mm)	200	200	200
Spindle taper hole (Mohs)	4	4	4
Spindle speed range (rpm)	32-1220	32-1220	32-1220
Spindle speed series	12	12	12
Spindle feed range (mm/r)	0.1-0.25	0.1-0.25	0.1-0.25
Spindle feed level	3	3	3
Rocker angle of rotation (°)	360	360	360
Main motor power (kw)	2.2	2.2	2.2
Lift motor power (kw)	1.5	1.5	1.5
Machine weight (kg)	1500	1700	1900
Dimension (mm)	1650*750*2250	1800*810*2300	1850*830*2320

SLOTTING

Ordinary Slotting



Specifications	BS050
Maximum stroke of the ram (mm)	520
Maximum insertion length of ram (mm)	500
Ram reciprocation	9,12.5,18,25,36,50
Ram tilt angle (°)	±10
Table diameter (mm)	1000
Ram vertical adjustment distance (mm)	315
Distance between the support surface of the cutter head and the forearm of the bed(mm)	990
Distance from work surface to the lower end of the carriage (mm)	740
Worktable maximum longitudinal movement distance (mm)	700
Worktable vertical and horizontal maneuvering feed range (mm)	560
Worktable maximum turning angle (°)	360
Worktable rotary feed range (mm)	0.08-1.21
Worktable rotary feed range (mm)	0.052-0.783
Motor Power (kw)	7.5
Motor speed (calculated value) (r/min)	1440
Machine net weight (kg)	10300
Dimensions (mm)	3480 X2085 X3307



SLOTTING

CNC Slotting



Specification	BK5032
Max. cutting length (mm)	320
Max. weight of the workpiece (kg)	500
Ram reciprocation	System control 20-100
Ram vertical adjustment distance (mm)	315
Ram tilt angle (Z)	0-8Z
Distance b/w the support surface of the cutter head and the front wall of the bed (mm)	600
Insert bar max. size (WxH) (mm)	25*40
Worktable desk size (mm)	600*610
Distance from work surface to the lower end of the carriage (mm)	490
Worktable max. longitudinal movement distance (mm)	480/630
Worktable horizontal/vertical maneuvering feed range (mm)	480/560
Worktable horizontal/vertical maneuvering feed range (mm)	0.08-1.21
X-direction servo motor	7.7N.M
Y- direction servo motor	7.7N.M
Servo main motor power (kw)	7.5
Main motor speed (r.p.m.)	0-8000
Machine tool outline size (LxWxH) (mm)	2180*1505*2285
Machine weight (kg)	3500
System	KND1000MC

SLOTTING

Ordinary Slotting



Specifications	BS050
Maximum stroke of the ram (mm)	520
Maximum insertion length of ram (mm)	500
Ram reciprocation	9,12.5,18,25,36,50
Ram tilt angle (°)	±10
Table diameter (mm)	1000
Ram vertical adjustment distance (mm)	315
Distance between the support surface of the cutter head and the forearm of the bed(mm)	990
Distance from work surface to the lower end of the carriage (mm)	740
Worktable maximum longitudinal movement distance (mm)	700
Worktable vertical and horizontal maneuvering feed range (mm)	560
Worktable maximum turning angle (°)	360
Worktable rotary feed range (mm)	0.08-1.21
Worktable rotary feed range (mm)	0.052-0.783
Motor Power (kw)	7.5
Motor speed (calculated value) (r/min)	1440
Machine net weight (kg)	10300
Dimensions (mm)	3480 X2085 X3307

SHAPER MACHINE

Shaper Machine Detailed Introduction:

The ram moves horizontally and linearly. The tool post can rotate multiple angles in the vertical plane and can be manually fed. The worktable carries the workpiece for intermittent lateral or vertical feed movement for processing planes, grooves and Dovetail surface, etc., can also be used to process the formed surface, using the tool of the repetitive motion to cut the work-piece that has been fixed on the working platform of the machine tool.



Specifications	BC6050
Maximum planing length (mm)	500
Maximum horizontal movement distance of worktable (mm)	525
Maximum distance from bottom of ram to work surface (mm)	370
Maximum vertical movement distance of worktable (mm)	270
Size of working surface on worktable (length x width) (mm)	440 X360
Maximum stroke of tool post (mm)	120
Maximum turning angle of tool post (°)	± 60°
Maximum size of tool shaft (width X thickness) (mm)	20 X 30
Ram reciprocating times per minute (NO/min)	14 - 80
Table feed range horizontal feed	0.2-0.25
Table feed range Vertical feed	0.08-1
Fast moving speed of worktable Horizontal moving	0.95
Fast moving speed of worktable Move vertically	0.38
Central T-slot size of worktable (mm)	18
Main motor power (kw)	3
Net weight/Gross weight (kg)	1650/1750
Overall dimensions (length x width x height) (mm)	1900 X 1200 X 1450

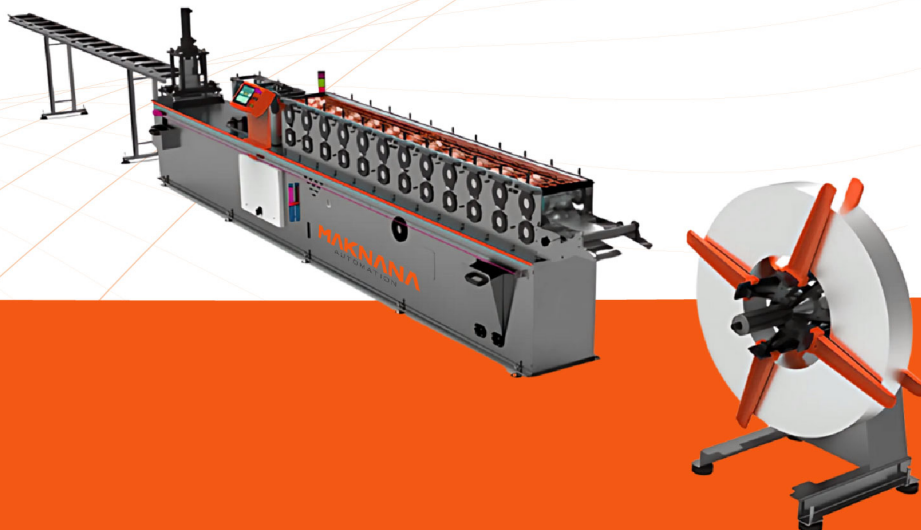
CUT TO LENGTH LINE

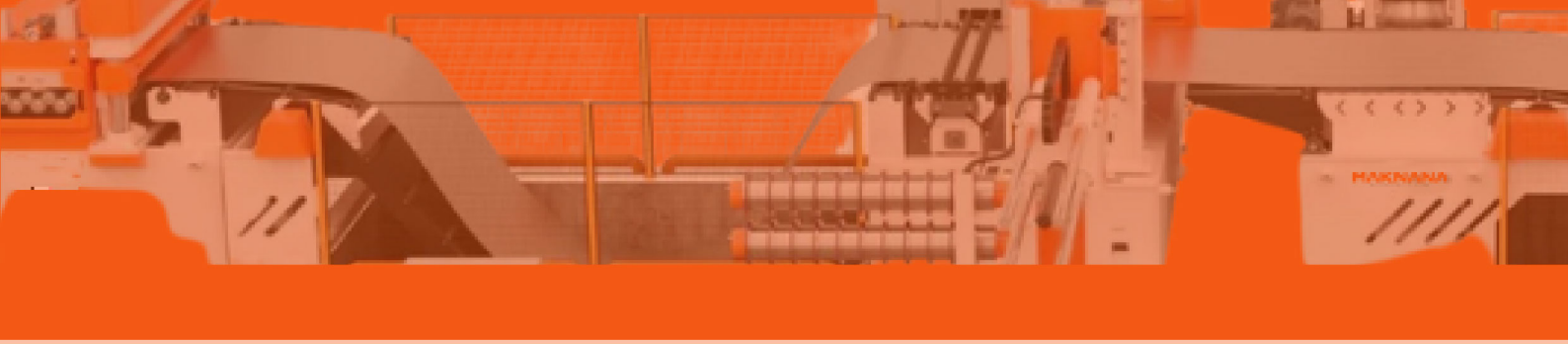


TECHNICAL PARAMETERS

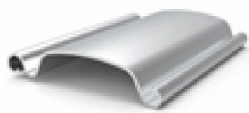
Material	Al, Hot/ Cold Rolled, GI, SS Coils
Material Thickness	0.3-25 mm
Max. Material Width	500-2000 mm
Line speed	10-50 m/min
Shearing Speed	20-23 Cuts/min (Length: 2000mm)

ROLL FORMING MACHINE





SHUTTER PROFILE ROLL FORMERS



Shutter



Sutter Double



Flat



Cambered

SHUTTER SIDE CHANNEL ROLL FORMERS



Side Channel

BOTTOM SLAT ROLL FORMERS



Bottom Slat



Reinforced Bottom Slat



Bottom Slat

STRUCTURAL STEEL ROLL FORMING



C-Profile



U-Profile



Z-Profile

CUSTOMIZED

Special Design Profiles

COIL SLITTING LINE

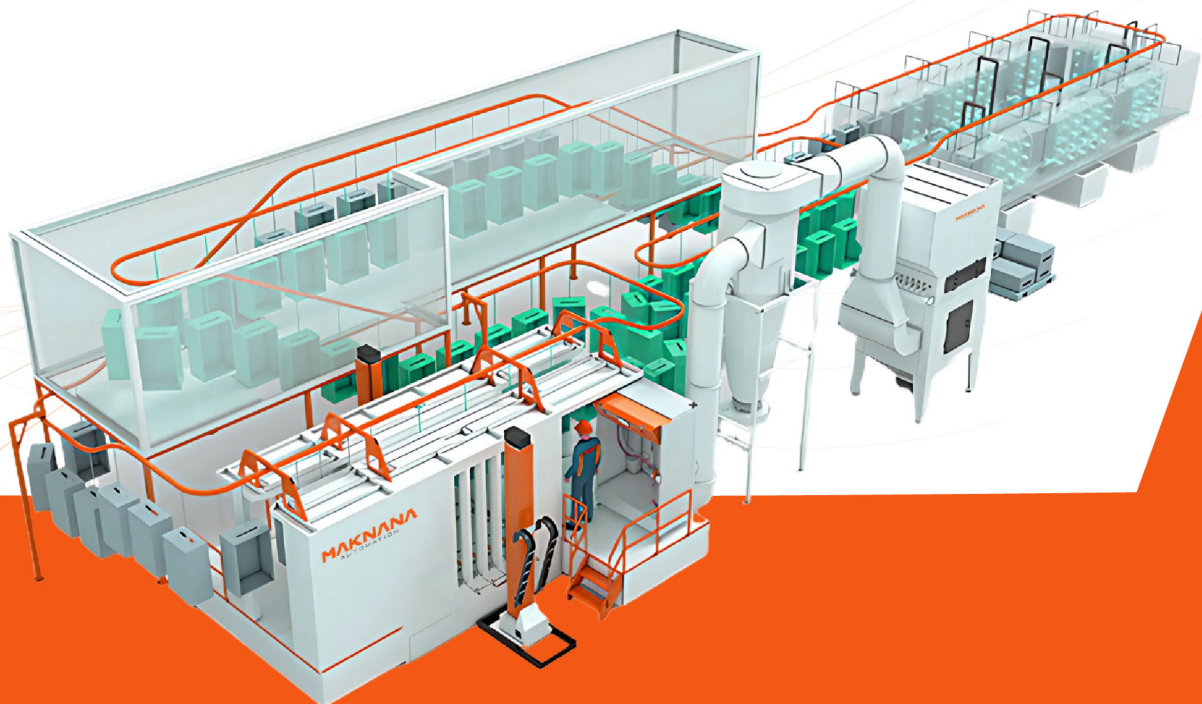


TECHNICAL PARAMETERS

Material	Al, Hot/ Cold Rolled, GI, SS Coils
Material Thickness	0.3-25 mm
Max. Material Width	2000 mm
Min. Width of Strip	30 mm
Max. Coil Weight	20 T

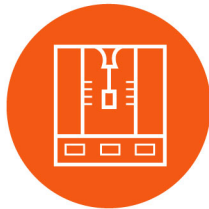
POWDER COATING LINE

The company combines design, research, and manufacturing to create customized solutions for clients.





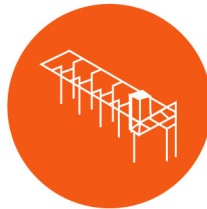
Powder Coating
Robot



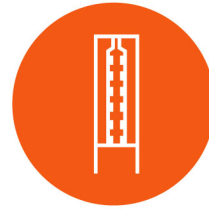
Powder Coating
Booth



Curing
Oven



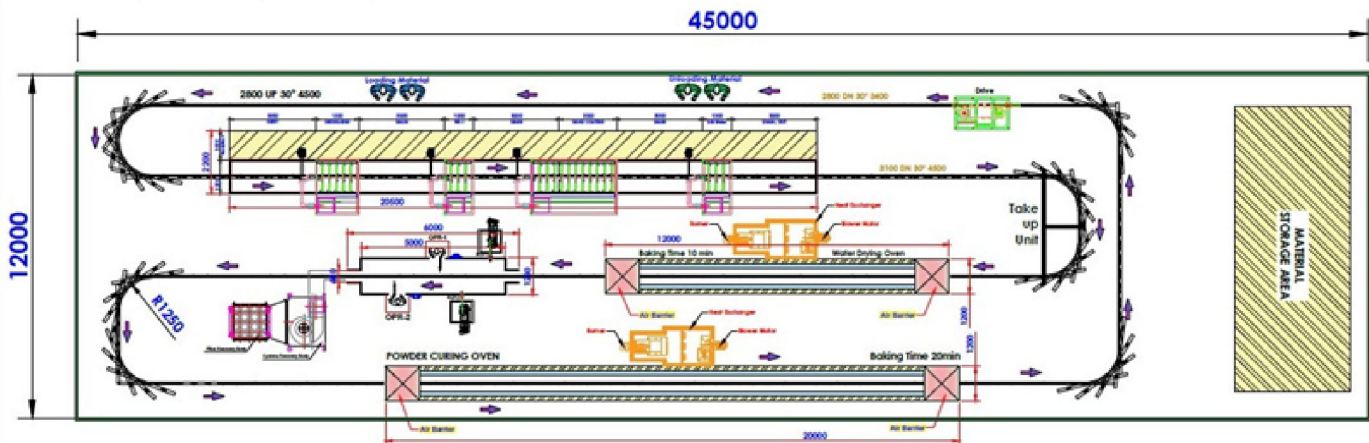
Conveyor
System



Pretreatment
System

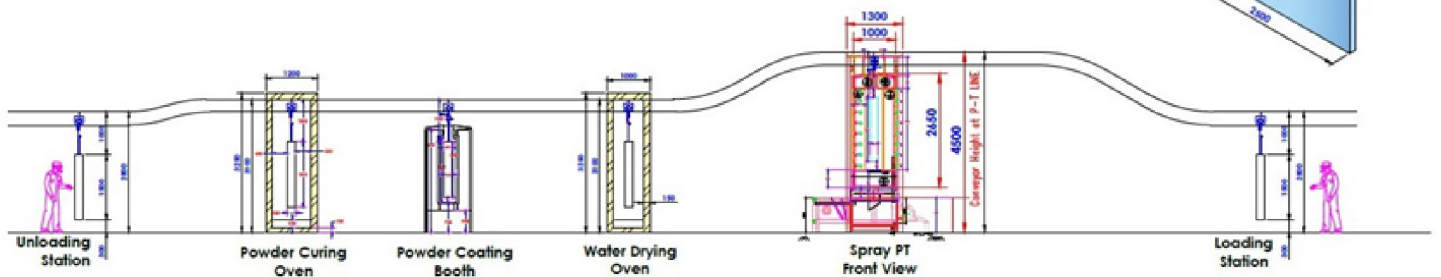
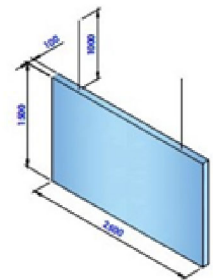


Electrical Control
System



LAYOUT DETAILS

1. Conveyor Speed - 1.0 Mtr/Min
2. Conveyor Length - 170 Mtrs Approx.
3. Conveyor Pitch - 12" / H Pitch - 24" Multiple
4. C.Radius - 1250 mm
5. Envelope Size - L 2500 x W/D 100 x H 1500 mm





Aluminum Solutions

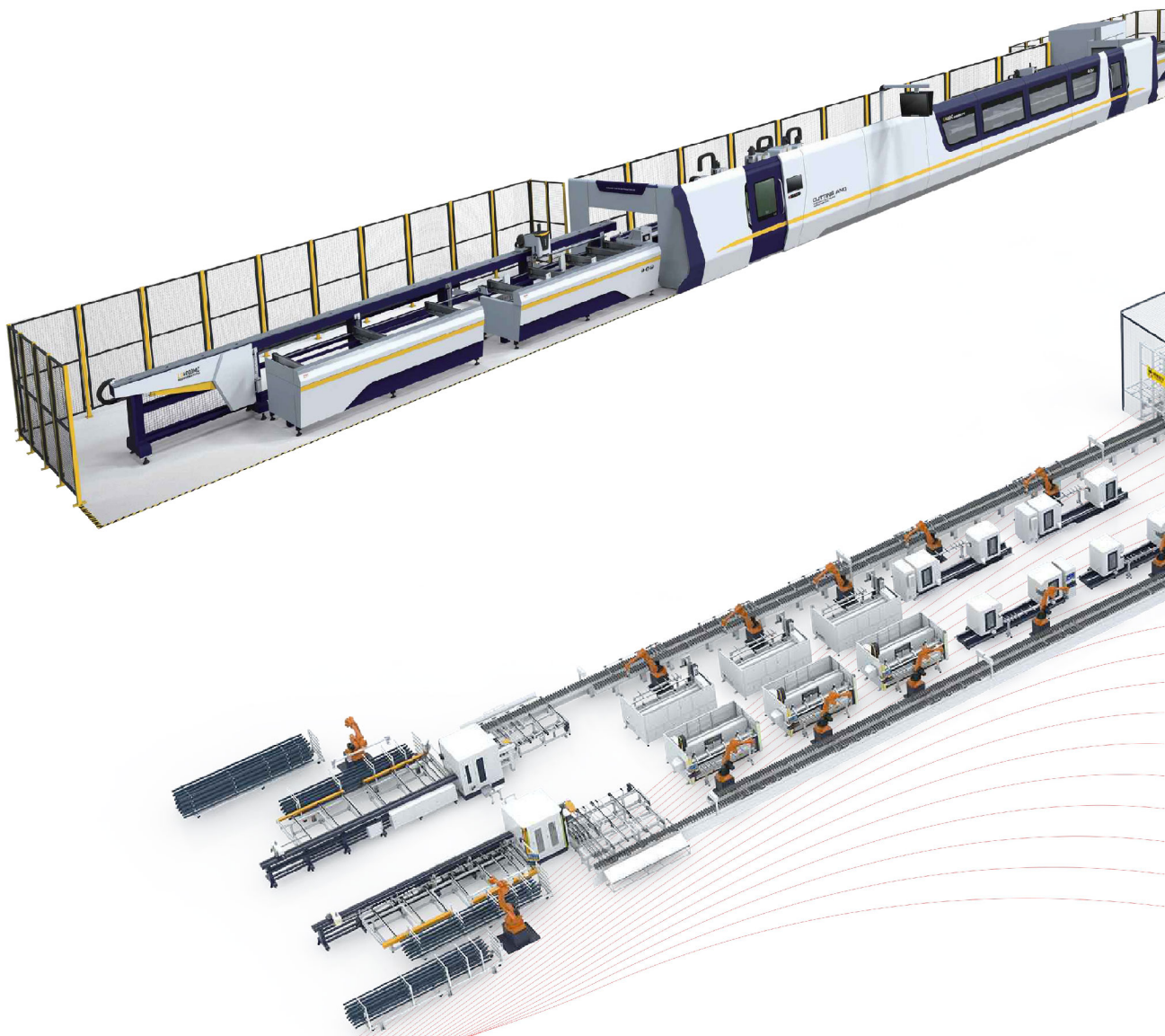
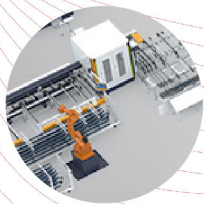
High Speed & Efficient

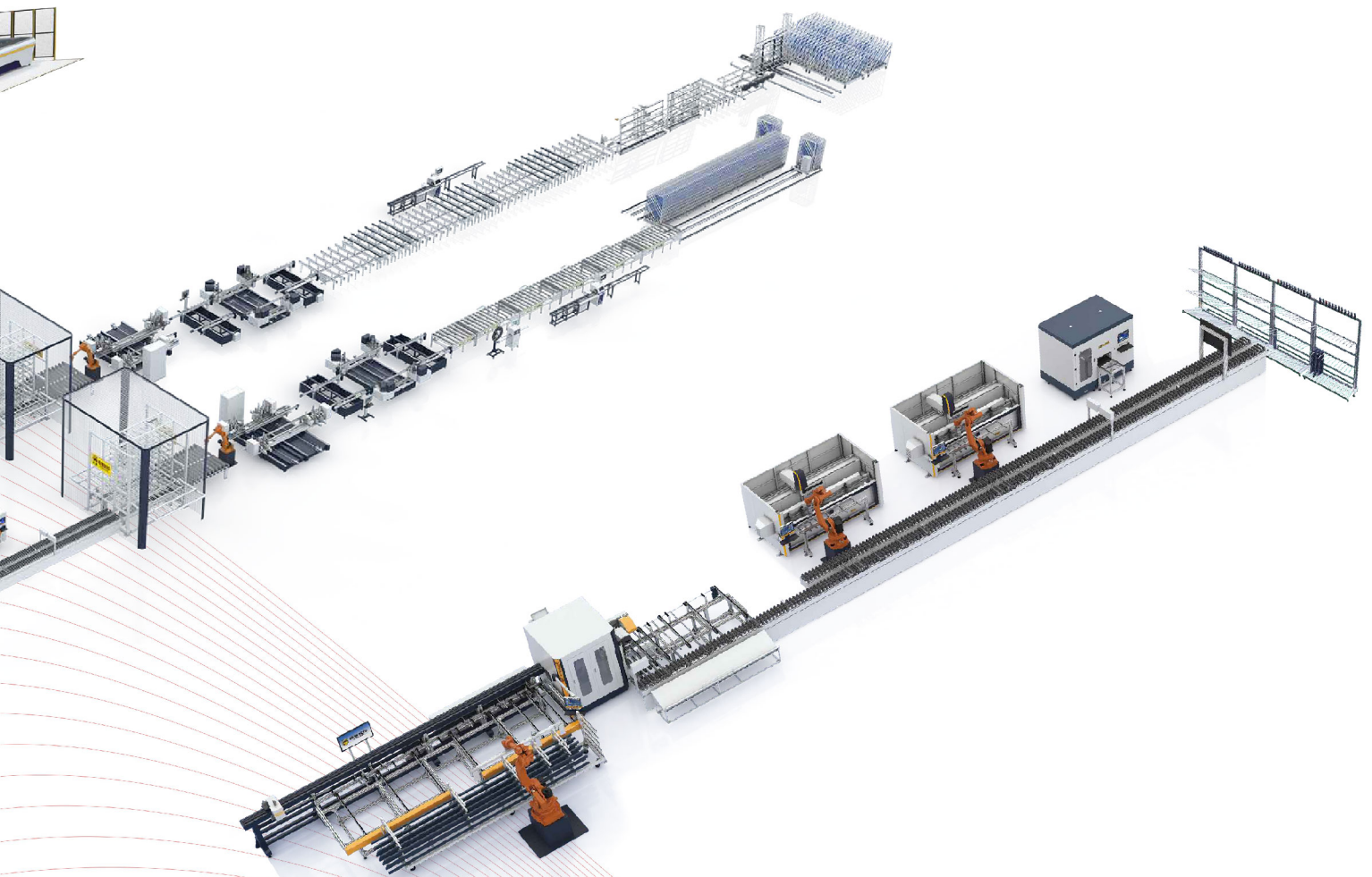
Our machines are built for fast, accurate cutting, bending, and finishing ideal for Automotive, Frames, and Architectural Use

MAKNANA
AUTOMATION

PRODUCTION MACHINES LINE

Fully Automatic Robot Window and Door Production Machines Line





1 Minute
to Train
Skilled Worker

2 People
Operate a
Production Line

3k
Square Meters
Workshop is
Required

EMERALD154

CNC Milling & Cutting Machining Center Integrated with Twin Laser Head



EQUIPMENT FEATURES

- Advanced CNC cutting and milling machining center integrated with laser technology applied for aluminum processing industry for higher efficiency and nice milling result.
- Strong function: saw milling compound one.550 saw blade: $-45^{\circ} \sim 45^{\circ}$ arbitrary Angle cutting, high power 3KW+ mirror cutting.
- High speed dual laser: back laser cutting and front laser line marking, especially mullion connecting point marking.
- High efficiency laser processing: laser cutting back, power can be adjusted along with the profile thickness automatic, good cutting quality. Cutting or cutting is performed by automatically switching cutting or cutting states according to technological requirements. Laser line cutting can be performed on both sides at the same time, accurate positioning and high efficiency.
- High-speed 4-sides milling: up and down front and back four sides milling at same time, higher processing efficiency.

MAIN ACCESSORY

Control System	PA(German)	Saw blade motor	Shenyi	Travel switch	Omron
Servo motor	Mitsubishi	Cylinder	Airtac	Terminal	Weidmiller
Servo drive	Mitsubishi	Airtube	Youshun	Ball screw	Yintai
Reducer	APEX	Rack	APEX	Fiber laser - Punching	1500W- Chuangxin
Push button switch	"Muller	Guide rail	HIWIN		

PARAMETER

Power supply	380 V / 50 hz	Power rating	27 kw
Maximum total power	34 kw	Pressure of	0.5 ~ 0.8 Mpa
Gas consumption	120 l/min	The cutting motor	3.0 KW 2800 r/min
Saw blade specifications from	550 x 30 x 4.4, Z = 120	Cutting length	300 ~ 7000 mm
Cutting width	120 mm	Sawing height	150 mm (Special Height is Optional)
Cutting Angle	45 ° to 45 ° at any Angle	Cutting accuracy	+ / - 0.1 mm
Manipulator maximum speed	100 m/min	Milling accuracy	±0.05mm
Cutting surface flatness	0.10 mm or less	Overall dimensions (including on both sides of the workbench)	15000 * 5500 * 2500 mm
Weight	8100kg		

SAPPHIRE C150

Cutting Center



EQUIPMENT FEATURES

- Used for auto cutting of 45° and 90° cutting of aluminum profile, U-PVC profile.
- High efficiency production. Finish one cutting within 12 seconds.
- Feeding-in manipulator controlled by 4 servo motors, can identify profile to positioned automatically, no need special jig.
- Can auto feeding 9 profiles at one time. High production efficiency. 3-4times higher than CNC Double head cutting saw.
- Schneider Servo motors controlled cutting movement to assure the high precision and high-volume production.
- Schneider controlling system, based on windows system. Easily communicating with ERP software and remote control for quick trouble shooting.
- Can print the bar code on production, easy for production management.

MAIN ACCESSORY

Controlling system	PA(Germany)	Electrical button switcher	Schneider(French)
Servo motor & driver	Mitsubishi	Pneumatic components / Spindle motor	AirTAC (Taiwan) / CMT
Reducer	APEX(Taiwan)		



PARAMETER

Air pressure	0.5~0.8Mpa	Cutting angle	45°90°
Air consumption	100L/min	Manipulator feeding speed	100mm/min
Power	3N~50HZ 380V or customized	Blade specification	Ø550×4.4×Ø30, Z=120(Standard size)
Input power	22kw	Cutting accuracy	±0.1mm
Cutting motor power	3KW 2800r/min*3 sets	Cutting profile surface planeness	≤0.10mm
Cutting length	300~6500mm	Dimension	14810×5000×2500mm
Cutting width	150mm	Weight	7500kg
Cutting height	150mm		

OPTIONAL

Laser function

EMERALD F550

Five Axis Machining Center



EQUIPMENT FEATURES

- It can be used for processing aluminum, steel and upvc profiles.
- Online with ERP software, can realize scanning code and automatic processing.
- When the profile is clamped at one time, it can complete all the sawing, milling, drilling, tapping, thread drilling and notching at angle in all surface except bottom side. Avoid profile surface scratches and damages.
- Adopts moving beam and moving column gantry frame structure, the movement is more stable, improves the rigidity of machine.
- Adopts imported high-end CNC control system, Siemens or Italian OSAI.
- Moving tool magazine assure short tool change time and improve production efficiency, one additional special 400mm saw blade.
- Adopts pneumatic clamping worktable to improve the loading and unloading speed.
- Two separate working zones to improve production efficiency.
- UPS & AC is included for protecting operation system.

MAIN ACCESSORY

CNC system	PA(Germany)	Ball screw	PMI(Taiwan)
Servo motor	Mitsubishi	Rack	APEX (Taiwan)
Reducer	APEX(Taiwan)	Electricl button and switcher	Schneider (French)
Spindle	HSD or Hiteco (Italian)	Air cylinder	AirTAC (Taiwan)
Square rail	HIWIN (Taiwan)		

PARAMETER

Power supply	3N~50HZ 380V or customized	Power	25kw
Air pressure	0.5~0.8Mpa	Air consumption	80L/min
Spindle power/ speed	15kw/ 24000r/min	Taper hole of spindle	HSK-63F
X-axis stroke	7000mm	Y-axis stroke	1000mm
Z-axis stroke	550mm	B-axis rotation range	±185°
C-axis rotation range	±320°	X-axis moving speed	0~60m/min
Y-axis moving speed	0~30m/min	Z-axis moving speed	0~30m/min
B-axis working speed	Max7°/'	C-axis working speed	Max7°/'
Tool magazine type	Carrousel type	Tool magazine capacity	11
Lubrication / cooling system	Self-lubrication / Micro atomization cooling	Dimension	11200×3000×3200mm
Weight	11000kg		

OPTIONAL

Vertical disc type tool magazine is optional.

T-type worktable is optional.

Optional Length: 4meter, 8 meter, 10 meter or customized

EMERALD F260

Four Axis Machining Center



EQUIPMENT FEATURES

- Suitable for aluminum profile and other light alloys as well as u-PVC profile processing.
- The machine completes milling, drilling, tapping, grooving, steel drilling in one time.
- Magazine is equipped with 6 as standard to ensure efficient processing.
- Double working zone for two kinds of profile loading, milling one after another, interactive feeding, non-interference.
- Operation system based on the windows environment. Friendly interface and remote control for quick trouble shooting.
- USB Connection, CAD input or writing by hand on the computer. Online with ERP software can realize scanning code and automatic processing.
- Gantry Type structure. High strength welding structure, heat aging and annealing processing, guarantee high rigidity and high stability.
- UPS & AC is included for protecting operation system.

PARAMETER

Air consumption	60L/min	Air pressure	0.5-0.8Mpa
Input power	16kw	Power Specification	3N~50HZ 380V or customized
X-axis feed rate	0~60m/min	Y-axis feed rate	0~30m/min
Z-axis feed rate	0~30m/min	Spindle speed/power	0-24000r/9kw
Spindle rotation range	-90°~+90°	Processing range (top surface, standard clamp device)	7000X600X260mm
Processing range (top surface, special clamp device)	7000X900X260mm	Processing range(top&side surface, standard clamp device)	7000X400X260mm
Tool magazine	9 tool position	Cutting tool installation length	150mm
Dia of blade	Ø80~Ø150mm	Clamp station	8
Positioning accuracy	±0.03mm	Repeat positioning accuracy	±0.02mm
Machine Size	9000×2200×2250mm	Weight	4300kg

MAIN ACCESSORY

CNC system	PA (Germany)	Rack	APEX (Taiwan)
Servo motor	Mitsubishi	Electrical button and switcher	Schneider (French)
Spindle	HSD (Italian)	Air cylinder	AirTAC (Taiwan)
Square rail	HIWIN (Taiwan)	Reducer(A-axis)	SPINEA(Slovak)
Ball screw	PMI(Taiwan)	Reducer(X-axis)	APEX(Taiwan)

OPTIONAL

Max Milling height 400mm

Optional Length: 4meter, 8 meter, 10 meter or customized

EMERALD T300

Three Axis Machining Center



EQUIPMENT FEATURES

- Suitable for aluminum profile and other light alloys as well as u-PVC profile processing.
- The machine completes milling, drilling, tapping, grooving, steel drilling in one time.
- Magazine is equipped with 6 as standard to ensure efficient processing.
- Double working zone for two kinds of profile loading, milling one after another, interactive feeding, non-interference.
- Operation system based on the windows environment. Friendly interface and remote control for quick trouble shooting.
- USB Connection, CAD input or writing by hand on the computer. Online with ERP software can realize scanning code and automatic processing.
- Gantry Type structure. High strength welding structure, heat aging and annealing processing, guarantee high rigidity and high stability.
- UPS & AC is included for protecting operation system.

OPTIONAL

Optional length: 4 meter, 8 meter, 10 meter or customized



PARAMETER

Air consumption	60L/min	Power Specification	3N~50HZ 380V
Input power	13KW	Y-axis feed rate	0~30m/min
X-axis feed rate	0~60m/min	Spindle speed/power	0-24000r/7.5kw
Z-axis feed rate	0~30m/min	Processing range (special clamp device)	7000X800X300mm
Processing range (standard clamp device)	7000X500X300mm	Cutting tool installation length	135mm
Tool magazine	6 tool position	Clamp station	8
Dia of blade	Ø80~Ø150mm	Repeat positioning accuracy	±0.02mm
Positioning accuracy	±0.03mm	Cutting surface roughness	Ra12.5µm
Machine Size	9000x1800x2150mm	Weight	4300kg
Air pressure	0.5-0.8Mpa		

MAIN ACCESSORY

CNC system	PA(Germany)	Ball screw	PMI(Taiwan)
Servo motor	Mitsubishi	Rack	APEX (Taiwan)
Reducer	APEX(Taiwan)	Electrical button and switcher	Schneider (French)
Spindle	HSD (Italian)	Air cylinder	AirTAC (Taiwan)
Square rail	HIWIN (Taiwan)		

EMERALD T140

Three Axis Machining Center



EQUIPMENT FEATURES

- The machine completes milling, drilling, tapping, chamfering, grooving, steel drilling and other multi-functional precisely in one time.
- Worktable will be positioned at 0°, +90° and -90° driven by pneumatic cylinder.
- Auto lift up safety cover assure operator safety.
- Automatic tool change: standard equipped with hidden 6-position tool magazine, standard equipped with 3 tool holders.
- Operation in Windows environment Industrial PC with 19" color monitor. Friendly machine interface with user-friendly operation.
- Online with ERP software, can realize scanning code and automatic processing.
- Adopting Italian HSD 7.5kw electrical spindle, high torque assures high processing quality.
- Double-layer shock absorber fixture: It is convenient for processing of heterotypic profile and reduces vibration and noise.
- Standard equipped with guide rail and ball screw automatic lubrication device to extend the service life of the whole machine.
- Chip bin is standardly included.
- Extension for longer profile is workable.

PARAMETER

Power supply	3N~50HZ 380V	Z-axis speed	max30m/min
Power	13KW	Processing profile height	140mm
Air pressure	0.5~0.8Mpa	Processing profile width	140mm
Air consumption	50L/min	Processing profile length	3000mm
Spindle power	9.0KW	Tool number	6 pieces(optional)
X-axis speed	max97.5m/min	Dimension (length×width×height)	4300×2200×2000mm
Y-axis speed	max30m/min	Weight	3000kg

MAIN ACCESSORY

CNC system	PA(Germany)	Ball screw	PMI(Taiwan)
Servo motor	Mitsubishi	Rack	APEX (Taiwan)
Reducer	APEX(Taiwan)	Electrical button and switcher	Schneider (French)
Spindle	HSD (Italian)	Air cylinder	AirTAC (Taiwan)
Square rail	HIWIN (Taiwan)		

EMERALD T140T

Four Axis Machining Center



CMC3-2500

Aluminium Window & Door CNC Copy Routing Machine

EQUIPMENT FEATURES

- Advanced industrial CNC 3-axis profile machining systems.
- Suitable for Aluminum, PVC, and other light metal material processing.
- The machine completes milling, drilling, grooving and other multi-functional precisely in one time.
- Worktable with pneumatic positioning $-90^{\circ}/0^{\circ}/+90^{\circ}$.Optional 45 degree milling function is available.
- Adopts high precision ball screws to ensure smooth motion, positioning and processing in high precision.
- The operating platform of the system: Linux platform.English, Chinese, Thai, Korean and Vietnamese language are available.
- The latest version of the system: 4-core 4G memory, fast & smooth operation.
- Additional one meter Support table for special long profile processing.
- 400mm height safety cover for safety operation.



MAIN ACCESSORY

X-axis Traveling	2500mm	Processing range(+90)	110*110mm	Working Pressure	0.6~0.8MPa
X-axis feed rate	0~30/min	Processing range(-90)	110*110mm	Spindle Speed	8000~18000rpm
Y-axis traveling	320mm	Processing range(0 degree)	170*120mm	Air consumption	100L/min
Y-axis feed rate	0~30m/min	Rotated angle	Inside and outside 90°	Machinery Weight	1600kg
Z-axis traveling	300mm	Spindle Power	3.5kW	Power of Machine	5kW
Z-axis feed rate	0~30m/min	Power Specification	380V50HZ	Machine Size	2600×1500×1950mm

PARAMETER

Servo Motor	Delta (Taiwan)	Frequency converter	Delta
Servo Driver	Delta (Taiwan)	Cylinder	AirTAC(Taiwan)
Switching Mode Power Supply	Delta / Schneider	Screw	2010-2015-2510-2505
Low voltage electrical apparatus	Schneider	Bearing	Humanistic / Shanghai
Cable	Shielding / high flexibility	Protective curtain	Spindle motor milling protection
Spindle motor	JST ER32Collet	Lifting shield	Equipment front / second protection

CMC4-1200

Aluminum Window CNC Copy Routing Machine



EQUIPMENT FEATURES

- Suitable for Aluminum, PVC, and other light metal material processing;
- The machine completes milling, drilling, grooving and other multi-functional precisely in one time.
- Worktable with pneumatic positioning $-90^{\circ}/0^{\circ}/+90^{\circ}$. Optional 45 degree milling function is available.
- Adopts high precision ball screws to ensure smooth motion, positioning and processing in high precision.
- The operating platform of the system: Linux platform. English, Chinese, Thai, Korean and Vietnamese language are available.

PARAMETER

X-axis Traveling	1200mm	Processing range(+90)	110*110mm	Working Pressure	0.6~0.8MPa
X-axis feed rate	0~30/min	Processing range(-90)	110*110mm	Spindle Speed	8000~18000rpm
Y-axis traveling	320mm	Processing range(0 degree)	170*120mm	Air consumption	100L/min
Y-axis feed rate	0~30m/min	Rotated angle	Inside and outside 90°	Machinery Weight	453kg
Z-axis traveling	300mm	Spindle Power	3.5kW	Total Power of Machine	5kW
Z-axis feed rate	0~30m/min	Power Specification	380V50HZ or customized	Machine Size	1740*1550*1700mm

OPTIONAL

Industrial computer model
3+1 axis model

CMC4-1200

Aluminum Window CNC Copy Routing Machine

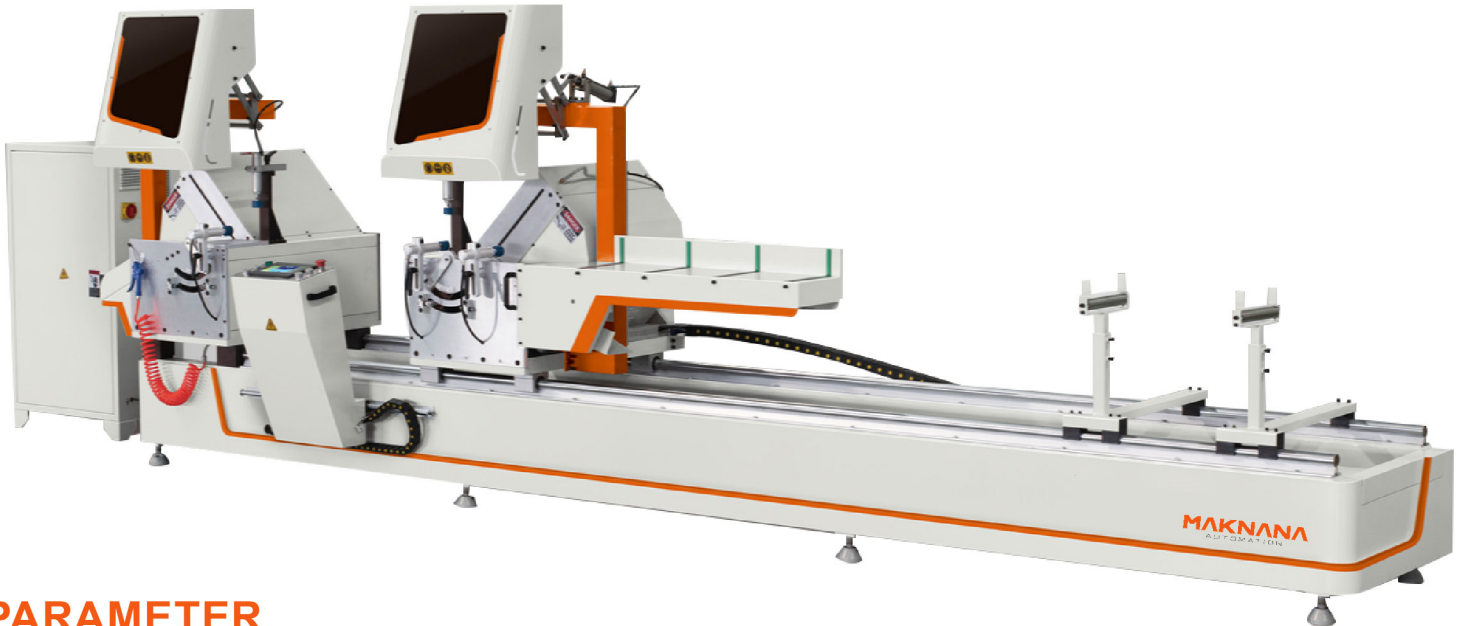


ADS550X4200

Aluminum Window CNC Double Head Cutting Saw

EQUIPMENT FEATURES

- Automatic cutting Aluminum&UPVC profile.
- Adopting the most advanced numerical controlling system driving machine moving and position automatically. High precision and easy operation.
- Unique swing arm feeding system assure high quality cutting result.
- Auto -45°~ 90°cutting change
- Auto safety cover for safety operation.
- Imported linear guiding pair ensured steady processing accuracy.
- Saw blade rotates smoothly due to high accuracy spindle.
- Hydraulic feeding systems ensure precise and stable feeding.
- Carbide saw blade is of accurate processing and high efficiency.
- Two heads can work together or single, when together work, one time can cut off the required length and angle cut can be cut at one time.



PARAMETER

Power supply	3N~50Hz 380/220V or As Customer Specification
Saw-head motor	2×2.2KW
Operation air pressure	0.5 ~ 0.8MPa
Cutting motor rotary speed	2800r/min
Blade specification	ø550×ø30×4.4×120T
Cutting Range	170*170mm at 90° 150*150mm at 45°
Cutting length	410-4200mm 90°
Cutting angle	-45°~90°
Repeat locating length tolerance	±0.2mm

MAIN ACCESSORY

Saw blade	Wagen
Solenoid valve	AirTAC(Taiwan)
Cylinder	AirTAC(Taiwan)
Motor	Anhui Sanyang (Best Chinese Motor Brand)
Air Filter Device	AirTAC(Taiwan)
Electrical Button and Switcher	Schneider
AC Contactor and Circuit Breaker	Schneider
Servo Motor	Schneider
Approach Switcher	Turck

TADS600×6000

Aluminum Window CNC Double Head Cutting Saw



EQUIPMENT FEATURES

- This machine is mainly used in doors and Windows curtain wall or industrial profile composite any corner cutting.
- Workbench rotation angle of 22.5° -140, Saw blade fillet range 90° -45°
- The damping method is adopted to ensure that the incoming knife is stable and fast retreat, and the knife is avoided from shaking during the use process.
- The maximum outer diameter of diamond saw blade up to 600mm, high line speed, high machining precision
- The high precision servo electric cylinder drive for rotation and length positioning is servo and closed loop.

MAIN ACCESSORY

PLC	Japan Omron
Solenoid valve	Airtec
Cylinder	Airtec
Air Filter Device	Airtec
Electrical Button and Switcher	Schneider
AC Contactor and Circuit Breaker	Schneider
Cable	Igus
Chain	Igus

PARAMETER

Power Supply:	380V 50Hz
Cutting Motor Power	2×4kW
Motor Rotatry Speed	2840 r/min
Saw Blade Diameter	Φ600*Φ30*144T
Operation Air Pressure	0.6~0.8MPa
Air Consumption	30L/min
Max. Cutting Length	480-6000mm
Cutting Height	260*185(600)mm
Cutting Angle	-45°、90°
Saw Blade feeding speed	0-3m/min
Saw Blade return speed	3m/min
Workbench rotation angle	-22.5°~90°~140°
Overall Dimension	9000*1550*2000mm
Weight	3500Kg

DSD500×4300

Double Head Cutting saw



EQUIPMENT FEATURES

- The main material for aluminium alloy curtain wall, window material cutting and can also be used for plastic profile cutting.
- The use of carbide saw blades, diameter up to 500 dia, line of high speed high precision machining.
- Right heads feeding adopts pitch ball screw-lead motion, with high accurate driving, locating and smooth working.
- This machine uses the numerical control technology, profiles of different specifications can completed automatically under the expected size.
- Machine during operation, two saw blade can separate cutting.
- The blade from the bottom to the top, sawing profile is more safe and reliable, and the cutting height and cutting width are large.
- With digital display for showing exacting cutting position. Friendly using.

MAIN ACCESSORY

Saw blade	Wagen	Air Filter Device	AirTAC(Taiwan)
Solenoid valve	AirTAC(Taiwan)	Electrical Button and Switcher	Schneider
Cylinder	AirTAC(Taiwan)	AC Contactor and Circuit Breaker	Schneider
Motor	Anhui Sanyang (Best Chinese Motor Brand)	Linear Bearing System	South Korean Brand



SPECIFICATION

Power supply	380V, 50HZ	Operation air pressure	0.6-0.8MPa	Max cutting section	135*200mm.
Cutting motor power	5.9kw	Air consumption	60L/min	Cutting angle	45, 90 degree
Angle accuracy	+±0.5 degree	Blade specification	500*25.4	Contour dimension	5750*1300*1500mm
Dimensional accuracy	±0.1mm	Cutting length	400mm-4500mm	Weight	2500kg
Cutting motor rotary speed	2800r/min	Cutting width	150mm		

OPTIONAL

CNC Model: ADS500X4300

UC600

Single Head Cutting Saw



AGBS350

CNC Glazing Bead Cutting Saw



EQUIPMENT FEATURES

- The machine is suitable for cutting aluminium glazing bead at 90 degree. 45 & 135 degree cutting is optional.
- Equipped with portable wireless measuring system. Precise and easy measuring.
- High precision spindle saw blade motor, stable performance.
- The machine adopts square rail, imported gear rack drive, speedy and high repeat positioning accuracy.
- Schneider PLC, Servo motor and Schneider servo driver assure long time & stable running.
- Excellent processing accuracy 0.1mm.

MAIN ACCESSORY

Saw blade	Japan WAGEN
Electric button and switcher	Schneider(French)
Pneumatic Components	AirTAC(Taiwan)
Servo motor	Schneider(French)
Touch Screen	Schneider(French)
Measurement ruler	SEIQ
Spindle motor	SEEIMEC(Italian)
Reducer	Apex(Taiwan)

PARAMETER

Air pressure	0.5~0.8Mpa	Cutting capacity	70×70mm
Air consumption	8L/min	Blade specification	Ø350×3.2×Ø30, Z=100
Power supply	3N~50HZ 380V or customized	Cutting accuracy	±0.1mm
Total power	2.0kw	Dimension	8200X900X1700mm Including two side support frames
Cutting motor power	1.3kw	Weight	710kg
Motor rotary speed	2800/min		

OPTIONAL

45° and 135° cutting

LJK-600

Aluminum Notching Saw



EQUIPMENT FEATURES

- Specially for aluminium curtain-wall and lighting skylight processing with the special angle at the profile end surface.
- With magnetic grid control system, reliazed cutting angle and worktable height digital display.
- Two saw blade freely change at $-45^{\circ}\sim 45^{\circ}$

LXDB-250

Automatic End Milling Machine



LJMJA-CNC-500

Automatic Corner Key Cutting Saw



EQUIPMENT FEATURES

- Large cutting capacity for wide profile or several working piece cutting with support of cutting jig to accommodate profile shape.
- PLC , servo motor and ball screw assure easy and precise setting and cutting.
- Hydro-pneumatic cylinder assure smooth cutting surface.
- Special collected box receive corner key.

PARAMETER

Power supply	3N~50HZ 380V	Auto-feeding length	3-500mm
Total power	4kw	Cutting width X length	135X140mm
Cutting motor power	3kw	Cutting speed	0-3m/min
Motor rotary speed	2800r/min	Blade specification	ø500×ø30×4X Z120
Operation air pressure	0.5~0.8MPa	Contour dimension	5670×1300×1450mm(L×W×H)
Air consumption	30L/min	Weight	700kg

MAIN ACCESSORY

control system	MITSUBISHI(Japanese)
Saw blade	Wagen
Electricl button and switcher	Schneider(French)
Phneumaticcompments	AirTAC(Taiwan)

EM200

End Milling Machine



CR370

Heavy Duty Copy Router



EQUIPMENT FEATURES

- Powerful spindle motor assure nice milling result
- Unique designing assure profile clamping stably before milling to avoid profile damage because of wrong operation.
- Quick adjustment for different length drilling bit.

PARAMETER

Air Pressure	0.5~0.8(MPa)	Copy-routing range	370×125(mm)
Air Consumption	10(L/min)	Profile section	W200×H150mm
Input Voltage	3N~50HZ 380V or customized	Overall Dimension	2180×1000×1700mm
Input Power	2.2(kW)	Weight	225(kg)
Milling tool diameter	Ø8		

CEM350

CNC Five-axis End Milling Machine



EQUIPMENT FEATURES

- Five-axis automatic end milling machine, no need change end milling cutters, no need additional end milling cutter cost.
- High processing accuracy: high power Italian spindle motor with higher processing quality. No Burrs.
- Two separate sets of 3.5mm saw blade, one of which can be adjusted at 0° and 90°. Completely solving gap headache issue.
- Same section with different length profile can be milled in one time. High volume production.

MAIN ACCESSORY

Linear guide	HIWIN
Ball screw	PMI
Phneumatic compments	AirTAC (Taiwan)
Electrical Button and Switcher	Schneider(French)
Servo motor	Schneider(French)
Touch screen	Schneider(French)
Spindle motor	Seimec (Italy)

PARAMETER

Power supply	3N~50HZ 380V	Feeding stroke of workable	1200mm
Total power	12kw	Workable measurement	480×420 mm
Air pressure	0.5 ~ 0.8Mpa	Milling tool	Ø350
Air consumption	250L/min	Milling tool number	4 nos
Sawing and milling motor power	3kw×2	Dimension	2500×1700×2200 mm
Motor rotary speed	3000r/min	Weight	2400kg
Motor spindle diameter	Ø30mm	Tool adjustment stroke	Transverse: 100 mm; Longitudinal: 600mm

CR350

Copy Router



CCM160

Corner Crimping Machine



EQUIPMENT FEATURES

- It is driven by air pressure, the action is faster and more stable.
- Fast cutter locking device, adjust tool up and down (magnet type) faster.
- Corner crimping height 160 mm, Five seconds one corner.
- The left and right corner combining cutter can be adjusted separately, have good synchronism and high quality of corner combining.
- Kinds of assistant position system suit for different window dimension.

PARAMETER

Power supply	220V 50Hz	Adjustable range of the corner crimping head	70mm
Air pressure	0.6-0.8MPa	Internal positioning corner stroke	130mm
Air consumption	120L/min	Corner crimping tool stroke	0-20mm
Processing profile height	160mm	Dimensions	1100 * 1000 * 1300 (mm)
Total corner crimping pressure	40KN	Weight	500Kg

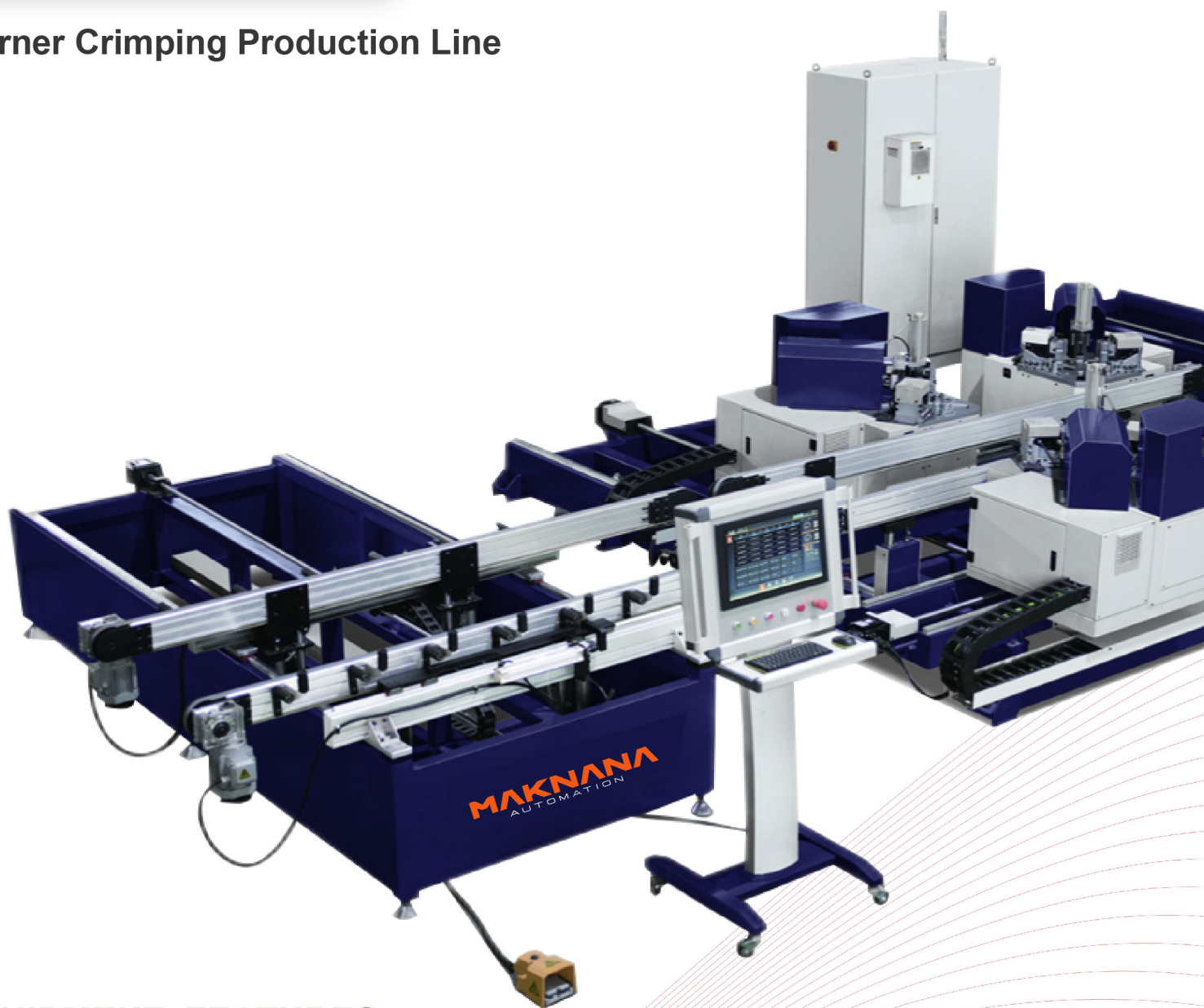
CCM120

Corner Crimping Machine



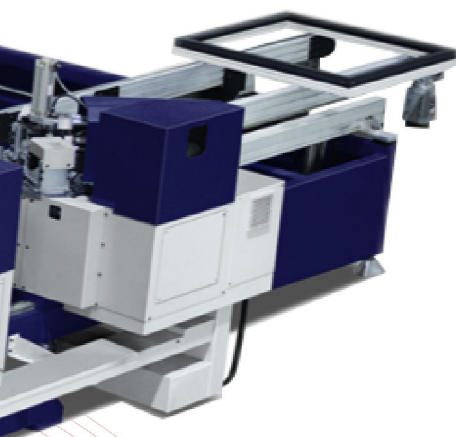
BARITE 150F

Corner Crimping Production Line



EQUIPMENT FEATURES

- Aluminum door and window intelligent mass production corner crimping line, which can complete the corner key type riveting connection of four corners of the door and window at a time.
- Professional corner crimping result for aluminum doors and Windows
- High efficiency: perfect crimping result without adjusting crimping knife
- Smart operation: scan the code processing, all positions are automatically adjusted by the servo mechanism
- Large range: crimping height 150 mm; window size up to 1800x3000 mm
- High quality: flat corner crimping result, no dislocation
- High automation: the corner crimping process does not require personnel participation, 25 servo axes in total to ensure the window automatically output, reduce operators and reduce cost.
- More environmental protection: the angular power source of the unit is compressed air to avoid environmental pollution by the hydraulic system.



MAIN ACCESSORY

Controller system	PA (Germany)	Linear guide rail	Hiwin (China Taiwan)
Servo motor	Mitsubishi (Japan)	Air pressure parts	Airtac(China Taiwan)
Bearing	NSK(Japan)	Electrical parts	Schneider (France)
Transmission wire rod	PMI (China Taiwan)	Total power switch	Schneider(France)

PARAMETER

Power supply	380V 50Hz	Corner combining height	Max 150mm
Total combining pressure	0.6-0.8Mpa	Crimping cylinder stroke	Max 10mm
Power	18 KW	The max size of the window	1800x3000mm
Air consumption	20L/min	The min size of the window	about 480×700 mm

MHD7

Multi-Head Drilling Machine



HPM90

Punching Machine



GYJ-01

Rolling Machine(6WD)



BM20T

CNC Bending Machine



WDAL2800x2500

Window & Door Assembling Line



KCJ-01

Knurling Machine

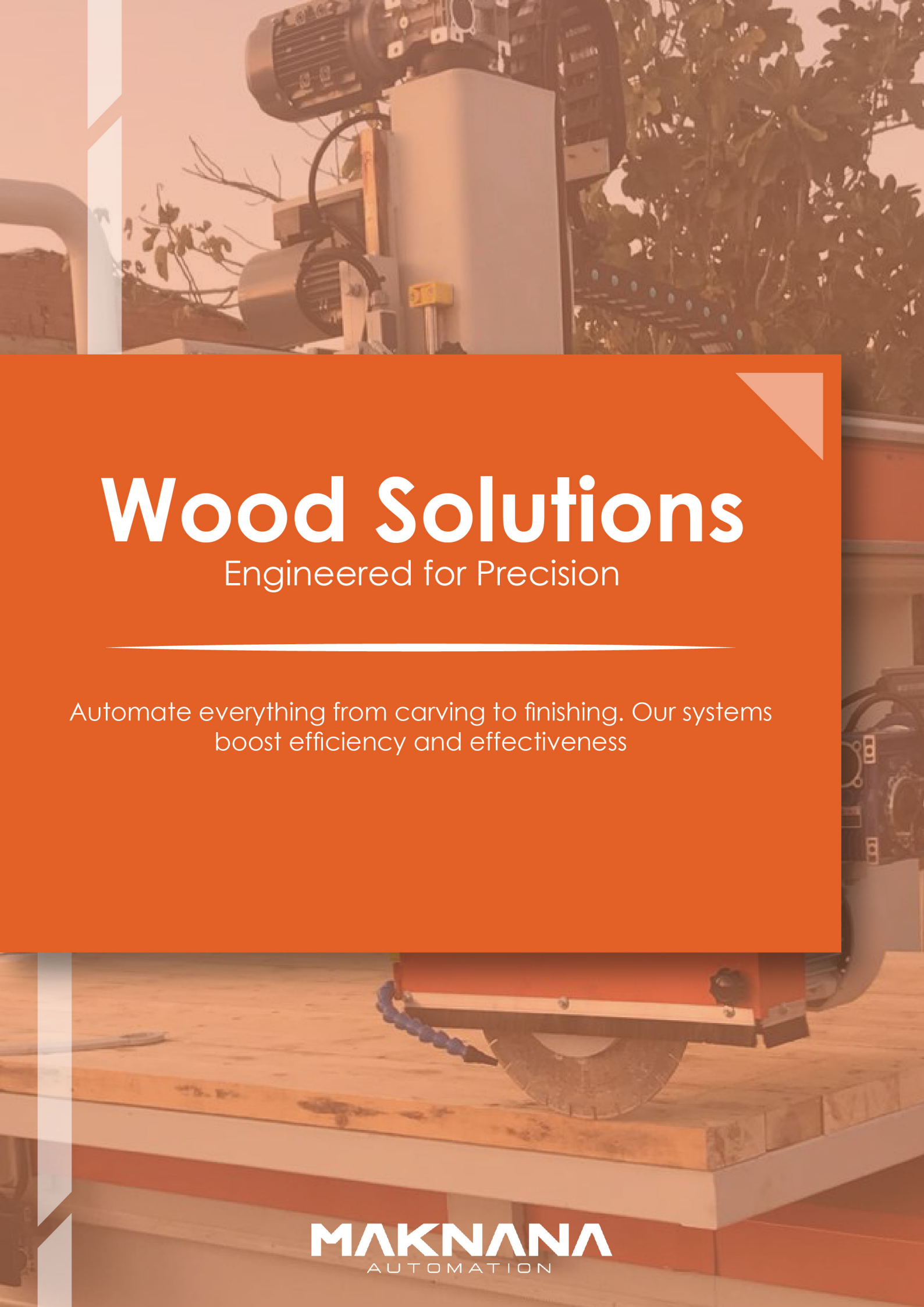




CS2500

CNC Stopper



The background of the entire page is a photograph of industrial machinery used for wood processing. The top half shows a large machine with a motor and various components, partially obscured by an orange overlay. The bottom half shows a close-up of a circular saw blade cutting through a piece of wood. The orange overlay is a large, semi-transparent rectangle that covers the middle section of the image, containing the main text.

Wood Solutions

Engineered for Precision

Automate everything from carving to finishing. Our systems boost efficiency and effectiveness

MAKNANA
AUTOMATION

PRO ELITE CNC ROUTER



FEATURES

- Working Size: 1300mm*2500mm / more
- Spindle: 9KW HQD With Auto Tool Changer
- Controller: LNC
- Motor: YASKAWA Servo Motor
- Transmission: Linear Guide on 3 Axis
- Voltage : 220v-410v/ 3ph
- Included: 7.5 KW Vacuum Pump, Dust Collector
- Compatible with Aspire, Vcarve, Fusion360, Enroute etc

E SEREIS CNC ROUTER

FEATURES

- Working Size(mm): 1300*2500, 1500*3000/ more
- 3KW Water/ Air Cooling Spindle
- DSP Controller
- Qualified Stepper Motor & Drive
- All-Steel Reinforced Gantry & Frame
- High Precision Linear Guide
- High-Precision Gear Rack
- Compatible with Aspire, Vcarve, Fusion360, Enroute etc



CNC BEAM SAW



PARAMETER

Parameter	Value		
Max. cutting length	3800mm	Saw carrier driving motor power	2kw (AC Servo)
Max. cutting thickness	120mm	Automatic feeding motor	2kw (AC Servo)
Main saw blade	Φ380mm(option450mm)	High-pressure blower motor	3kw+2.2kw
Main saw shaft diameter	Φ75mm	Side aligner motor	0.25kw
Main saw shaft rotation speed	4000rpm	Total power	30.15kw
Scoring saw blade diameter	Φ200mm	Automatic Feeding speed	85m/min
Scoring saw shaft diameter	Φ50	Air pressure	5-7kg/cm ²
Scoring saw shaft rotation speed	5200rpm	Worktable height	980mm
Saw carriage forward speed	0-100m/min	Net weight	6300kg
Saw carriage backward speed	0-120m/min	Machine size	7060*6040*2060mm
Main saw motor power	18.5kw	Air floating table quantity	4
scoring saw motor power	2.2kw		

6 SIDES CNC DRILLING MACHINE



Parameters	Values	
Processing Size Range	Min. Width of work-piece	50mm
	Max. Width of work-piece	1200mm
	Max. Length of work-piece	5000mm
	Min. Length of work-piece	250mm
	Max. Thickness of work-piece	48mm
	Min. Thickness of work-piece	10mm
Working Stroke and Max Position Speed	X axis:	5410mm & 130m/min
	Y axis:	1630mm & 85m/min
	Z axis:	140mm & 30m/min
	U axis	5410mm & 130m/min
	V axis	1340mm & 80m/min
	W axes	110mm & 30m/min
	A axis:	1190mm & 30m/min
	Y2 axis:	1630mm & 85m/min
	Z2 axis:	130mm & 30m/min

TOP Drilling unit	Vertical drilling bits	Top:12pcs Bottom:9pcs
	Horizontal drilling bits	16pcs
	Drilling head motor speed	2800rpm
	Drilling head motor power	2.2kw*2
	Router Motor power	3.5kw speed18000rpm
Bottom Drilling unit	Vertical drilling bits	9
	Horizontal drilling bits	0
	Drilling head motor speed	2800rpm
	Drilling head motor power	2.2kw
	Router Motor power	3.5kw speed18000rpm
Other Data	Working table height	960mm
	Total Power	24.85KW
	Voltage	380V/50Hz
	working air pressure	0.7-0.8Mpa
	Vacuum flow	9400m³/h
	Weight	3850KG
	Overall size	6480*2840*2200mm

EDGE BANDING MACHINE



Parameter	Value
Model	Full automatic edge banding machine
Functions	Pre-milling, Gluing, End cut, Rough trim, Fine trim, Corner round, Scraping, Buffing
Workpiece thickness	10-60mm
Feed speed	13-23m/min
Workpiece width	≥60mm
Total power	13.5kw
Workpiece length	≥100mm
Air press	0.6Mpa
Edge height	15-65mm
Weight	2200kg
Edge thickness	0.4-3mm
Overall size	6550*750*1550mm

A410 PRO / A510 PRO

Surface Planer



TECHNICAL DATA

Specification	Unit	A410PRO	A510PRO
Cast iron surface planers	mm	410 × 2650	530 × 2900
Planer square dimension	mm	1500 × 155	1500 × 155
Tilting planer guides	degrees	90° – 45°	90° – 45°
Planer shaft speed	rpm	4500	4500
Max removal	mm	8	8
Diameter of suction hood	mm	140	160
Planer motor (400 Volt 50 Hz)	HP	5.5	7.5
Dimension and weight	cm / kg	270 × 120 × 120h / 660 kg	300 × 120 × 120h / 810 kg

AD415

Surface Planer - Thicknesser Combined Machine





TECHNICAL DATA

Technical Specification	Unit	AD415
Cast iron surface planers	mm	2100 x 415
Planer square dimensions	mm	1200 x 150
Planer tilting guide	degrees	90° – 45°
Planer shaft speed with 4 blades Ø 100 mm	rpm	5000
Max. thickness removal	mm	5
Max. surface removal	mm	6
Min/Max thickness height	mm	3 – 240
Dimension of surface thickness	mm	700 x 415
Advancing speed	m/min	6.5 – 13
Planer motor speed (400 Volt, 50 Hz)	Hp	4
Surface planer noise emission (EN27960 standard)	db(A)	79.6 / 87
Thickness planer noise emission (EN27960 standard)	db(A)	79.3 / 85.9
Dimension and weight	Cm / kg	220 x 100 x 120 h / 510

D515

Planer Thicknesser



Specification	Unit	Value
Dimensions of Thicknesser Surface	mm	515 × 970
Useful Working Width	mm	515
Useful Working Height	mm	3 – 230
Max. Removal	mm	6
Thicknesser Advancing Speed	m/min	7 / 11 / 15 / 19
Planer Shaft Speed	rpm	5000
Planer Shaft Diameter	mm	110
Three-phase Motor Power (400 Volt / 50 Hz)	HP	5.5
Machine Dimension (L×W×H)	cm	130 × 100 × 120 h
Weight	Kg	550

S315 PRO

Circular Saw With Tilting Blade

DESCRIPTION



Double piece stop



Large trolley with clamping and goniometer for angle cutting



TECHNICAL DATA

Specification	Unit	Value
Trolley Dimension	mm	3200 × 385
Work Surface Dimension	mm	500 × 850
Squaring Frame Dimension	mm	580 × 915
Max. Saw Blade Diameter / Bore (tilting 45°)	mm	315 / 30
Max. Cutting Height at 45° (with Ø 315 mm blade)	mm	80
Max. Cutting Height at 90° (with Ø 315 mm blade)	mm	100
Saw Rotating Speed	rpm	5000
Engraver Blade Diameter / Bore	mm	120 / 20
Engraver Blade Speed	rpm	
Main Three-Phase Motor Power (400V / 50Hz)	HP	
Engraver Motor Power	HP	
Weight	Kg	

CU410C

Universal Combined Machine



TECHNICAL DATA

Surface Planer and Thicknesser:

Feature	Unit	Value
Useful working area width	mm	410
Diameter of planer shaft	mm	72 / 3
Standard planer blade dimensions	mm	410 × 30 × 3
Max. removal at planer	mm	4
Total length of surface planer	mm	1800
Thicknesser planer dimension	mm	605 × 410
Thicknesser advancing speed	m/min	7
Min. – Max. working height of thicknesser	mm	3 – 230

Circular Saw:

Feature	Unit	Value
Cast-iron moulder-saw surface dimension	mm	1115 × 335
Blade tilting	degrees	90° – 45°
Max. saw blade diameter (with engraver)	mm	315
Max. blade extension (90° / 45°)	mm	100 / 78
Maximum squaring capacity (standard)	mm	1600
Parallel guide cutting width	mm	900

Moulder:

Feature	Unit	Value
Useful shaft length	mm	100
Shaft rotation speeds	rpm	3500 / 7000 / 10000
Max. profiling tool diameter	mm	210
Max. tool diameter below work surface (at 90°)	mm	180

Additional Technical Characteristics:

Feature	Unit	Value
Three-phase motor power	HP	6.6
Suction hood diameter	mm	120
Available moulder shaft diameters	mm	30 / 32 / 35 / 40 / 50
Weight	Kg	650

SN 700-800-900

Belt saws



TECHNICAL DATA

Specification	UNIT	SN700	SN800	SN900
Motor Power	HP	4	5.5	7.5
Cast-Iron Flywheel Ø	mm	700	800	900
Flywheel Width	mm	40	40	50
Cutting Width	mm	670	785	885
Max. Cutting Height	mm	430	500	560
Belt Width	mm	10 / 40	10 / 45	10 / 55
Belt Speed	m/sec	18	25	25
Work Surface	mm	700 × 930	1130 × 800	1130 × 800
Weight	Kg	420	620	730



Upper blade guide



Lower blade guide



Small square for
angle cutting

DG60

Disc Sander



Tilting work surface from
0° to +/-45°



TECHNICAL DATA

Technical Data	Unit	Value
Disc Dimension Ø	mm	600
Work Surface Tilting	degrees	0° – 45°
Vertical Tilting of Belt Unit	degrees	0° – 90°
Motor Power (400 Volt / 50 Hz)	HP	3
Belt Speed	m/sec	9
Useful Length of Work Surface	mm	700
Belt Width	mm	150
Belt Extension	mm	1860
Work Surface Dimension	mm	700 × 350
Weight	Kg	200

CMA72

Oscillating sander



Curved work piece sanding unit



TECHNICAL DATA

Specification	SN700	SN800	SN900
Motor Power (HP)	4	5.5	7.5
Cast-Iron Flywheel Ø (mm)	700	800	900
Flywheel Width (mm)	40	40	50
Cutting Width (mm)	670	785	885
Max. Cutting Height (mm)	430	500	560
Belt Width (mm)	10 / 40	10 / 45	10 / 55
Belt Speed (m/sec)	18	25	25
Work Surface (mm)	700 × 930	1130 × 800	1130 × 800
Weight (Kg)	420	620	730

CM2000-CME

Slot Cutting Machine for Mechanical Shutters



Pitch adjustment from
20 to 60 mm



TECHNICAL DATA

Specification	Unit	CM2000	CM/E
Complete with stands and rack (standard pitch)	mm	27 / 36 – useful 2800	27 / 36 – useful 2800
Inclination	degrees	20° – 45°	20° – 45°
Slot Depth	mm	0 – 20	0 – 20
Maximum Slot Length	mm	0 – 120	0 – 120
Max Wood Post Dimensions	mm	100 × 110	100 × 110
Min Wood Post Dimensions	mm	20 × 40	20 × 40
Motor Power (400 Volt, 50 Hz)	HP	3	3
Spindle Speed	rpm	9600	9600
Spindle Attachment Diameter	mm	10	10
Weight	Kg	340	310

CPP/5

Automatic Pneumatic Drilling Slot Cutting Machines 0°-90°



Pneumatic clamps
on racks



Bits tilting from
0° to 90°



TECHNICAL DATA

Specification	Unit	Value
With supports and standard pitch racks	mm	6.5
Adjustable tilting	degrees	0° – 90°
Slot depth	mm	30
Maximum length of slots	mm	120
Maximum size of wooden uprights	mm	100 × 120
Minimum size of wooden uprights	mm	20 × 40
Spindle motor (400 Volt, 50 Hz)	HP	2
Oscillating motor (400 Volt, 50 Hz)	HP	1
Spindle speed	rpm	12,000
Spindle attachment	mm	10
Weight	Kg	510

L5EXP – L5SP

Universal Sharpening Machine



TECHNICAL DATA

Feature	Unit	L5EXP	L5SP
Wheel diameter	mm	150 – 200	75 – 200
Vertical run	mm	240	240
Grinding wheel motor power	kW	0.55	0.55
Speed (rotation)	N/min	3000	3000 – 6000
Rotation of grinding motor	degrees	360° – 0°	360° – 360°
Machine weight	Kg	180	200
Machine dimensions	mm	900 × 800	900 × 800
Divider axis height	mm	125 – 50	125 – 50
Cutter diameter – length	mm	250 – 200	250 – 200

ECO W45C

Spindle Moulder with Fixed or Tilting Spindle



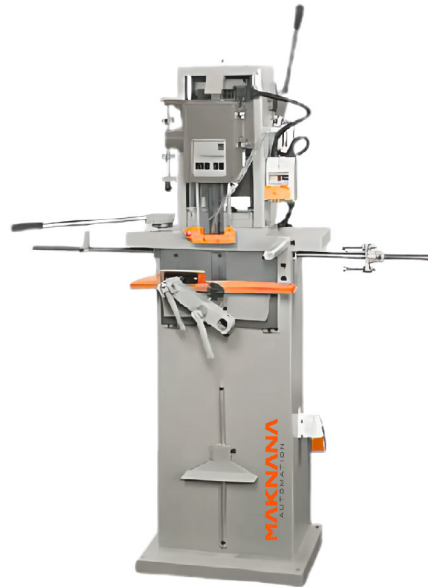


TECHNICAL DATA

Specification	Unit	Value
Working trolley size with telescopic guide and 2 stops	mm	270 × 125 × 1000
Max useful spindle length (with spindle ¾)	mm	100 (70)
Diameter of suction hood	mm	120
Maximum tool diameter when profiling	mm	210
Spindle moulder speed	rpm (g/min)	3500 / 7000 / 10000
Max. tool size retractable under the table at 90°	mm	180
Main motor power	kW (HP)	5 (6.6)

MC30-MC50-MC60

Slot-Cutting Chain Machines



TECHNICAL DATA

Specification	Unit	MC30	MC50	MC60
Motor power	HP	2	3	3
Motor revolutions	rpm	2800	2800	2800
Motor shaft diameter	mm	16	16	16
Motor power of vertical spindles	HP	—	—	0.5
Centre distance between vertical spindles	mm	—	—	85
Vertical spindle run	mm	—	—	70
Vertical & horizontal spindle revolutions	rpm	—	—	6000
Horizontal spindle motor power	HP	—	—	1
Min – Max centre distance between horizontal spindles	mm	—	—	55 – 105
Work surface dimensions	mm	540 × 110	540 × 110	600 × 110
Head vertical run	mm	180	180	180
Head cross run	mm	80	150	150
Head longitudinal run	mm	200	260	260
Vertical movement of work surface	mm	160	190	190
Tilting of work surface	degrees	+45° / -45°	+45° / -45°	+45° / -45°
Head rotation	degrees	+45° / -45°	+45° / -45°	+45° / -45°
Maximum door width size	mm	900	1000	1050
Weight	Kg	210	370	500

CMA72

Bit Morsing Machines



Bit for square bore



Bit for square bore



TECHNICAL DATA

Specification	Units	Value
Work Surface Dimension	(mm)	600 × 300
Maximum Depth of Slot	(mm)	140
Maximum Length of Slot	(mm)	250
Vertical Bit Run (mm)	(mm)	165
Westcott Universal Spindle	(mm)	0 – 20
Spindle Speed	(rpm)	2800
Motor Power (400V / 50Hz)	(HP)	3
Weight	(Kg)	180

WOOD SANDER MACHINE



PARAMETER

Parameter	Value		
Working width	450, 630, 1000, 1300, 1600mm	First motor	5.5, 11, 22, 37, 45kw
Min. Working length	500mm	Second motor	5.5, 7.5, 15, 22, 30kw
Working thickness	3-110mm	Third motor	11, 22kw
Feeding speed	6-30m/min	Feeding motor	0.75, 1.5, 4.5kw
First roller	190, 240mm	Lifting motor	0.37, 0.55kw
Second roller	190, 240mm	Working air	0.6Mpa
Third roller	210mm	Volume of dust	8000, 9600, 14000m³/h
Abrasive belt size	470*1930, 650*1930, 1020*2020, 1320*2220mm, 1620*2220mm		
Overall dimensions	1800*9502*100, 2700*2100*2100, 3000*2400*2100mm		
Weight	1100, 2200, 3200, 5300, 6500kg		

veneer pack guillotine shear



PARAMETER

Parameter	Value
Max. cutting length	3100mm
Max. cutting thickness	50mm
Max. pressure	14Mpa
Oil pimp power	3.7kw
Feeding motor	0.18kw
Cutting size	3190×90×10mm
Overall size	4180×1600×1540mm
Weight	2800kg

COLD / HOT PRESS



Type	Values
working table size (mm)	2500*1300/3000*1300
max. pressure (T)	50/70/100/120/160

VENEER SPLICING MACHINE



PARAMETER

Parameter	Value
Throat depth	1200mm
Suitable thickness	0.4-3mm
Feeding speed	10-15m/min
Feeding power	0.17kW
Heating power	0.4kW
Air pressure	0.2-0.3Mpa
Overall size	2140x720x1650mm
Weight	520kg



Glass Solutions

Engineered for Precision and Efficiency

Our systems cut, drill, and finish glass with absolute control
perfect for architecture, interiors, and automotive needs

MAKNANA
AUTOMATION

LJBZ2030/LJBZ2535/LJBZ2540

Vertical Insulating Glass Processing Line



PERFORMANCE

- Germany Siemens PLC control system, touch screen interface
- Automatic identification of coated and Low-E glass
- 3 pairs of soft brushes can wash online and offline Low-E glass
- The washing machine adopts SS material and waterproof device
- Water tank with automatic temperature control and water washing system
- Air heating system
- Air Fan automatic start and stop setting
- Noise reduction system
- Online display of washing speed
- Intelligent intermittent work, saving energy
- Adjustable pressing board to keep the plate pressing surface straight
- Connection mode of aviation plug
- Applicable to produce triple IG and shaped IG

OPTIONAL

- Pre-washing
- Automatically accurate positioning for 3 or 4 side step IG
- Automatic Gas filling can set gas value and display the process of filling online with high gas concentration

	Unit	LJBZ2030	LJBZ2030	LJBZ2535	LJBZ2535	LJBZ2535	LJBZ2540
Voltage		380V 50Hz 3P					
Total power	kW	39.5	36	41	39.5	44	39.5
Washing speed	m/min	2-10					
Maximum working speed	m/min	45					
Minimum glass size	mm	450*280					
Maximum glass size	mm	2000*3000		2500*3500	2500*4000	2500*4500	2500*4000 2500*4500
Flat glass thickness	mm	3-15 (custom 3-30)					
Washing brushes	pieces	6					
Max insulating glass thickness	mm	60					
Total gas consumption	L/min	1200					
Conveyor roll height	mm	520					
Dimensions (LWH)	mm	20200*3500*3200	20200*3500*3200	23850*3500*3700	27200*3500*3700	27200*3500*3700	24330*3500*3700
Glass press & auto gas fill		Single plate pressing without auto gas filling	Single plate pressing with auto gas filling	Single plate pressing without auto gas filling	Single plate pressing with auto gas filling	Double plate pressing with auto gas filling	Single plate pressing with auto gas filling

LJCM2030/LJCM2545/LJCM3370

Vertical Edge Deleting Machine



PERFORMANCE

- Six sets of servo motors, British TRIO system
- Inlet-outlet with two-direction , 4 directions are available
- Automatically measure glass size
- Automatically distinguish Low-E coating
- The width of edge deletion is adjustable
- PLC control system, touch screen interface
- Intelligent control system, can recognize batch processing

PARAMETER

Description	Value
Voltage	380V 50Hz 3P
Max. glass processing size	2000mm*3000mm / 2500mm*4500mm / 3300mm*7000mm
Min. glass processing size	300*400mm
Glass thickness	3-15mm
Edge deleting width	10-500mm
Glass conveying speed	0-30m/min
Edge deleting speed	2-29m/min
Grinding wheel width	10 / 12 / 15mm
Total power	15kW
Dimension	6700*2500*2900mm / 9700*2500*3400mm / 14700*2500*4200mm
Weight	1900kg / 2600kg / 3900kg

LJTJ2030/LJTJ2540/LJTJ2852

Automatic Sealing Robot



PERFORMANCE

- Japan Yaskawa servo control system, full automatic and high-efficiency
- Automatic memory function, no need to input parameters repeatedly
- Automatically repair glass corners with scraper and roller
- Machine has four sections, can store glass
- Automatically measure glass size and glue depth, adjust sealing speed
- Adopt timing belt, smooth transfer and accurate position
- Every auto-function is with manual operation
- Can coat double glass, shaped glass, step glass, triple glass
- One set of booster pump controls two groups of sealants
- Automatic timing sealant discharging function
- The sealant mixing system adopts anti-blocked structure and is easy to clean

Description	Value
Max. glass size	2000*3000mm / 2500*4000mm / 2800*5200mm / 3000*7000mm / 3300*7000mm
Min. glass size	400*300mm
Glass thickness	12-56mm / 12-56mm / 12-80mm / 12-80mm / 12-80mm
Working speed	5-40m/min
Air pressure	0.6-0.8MPa
Squeeze pressure	<35MPa
Voltage	380V 50Hz 3P
Power	13kW / 15kW / 20kW
Overall dimension	6700*2500*3000mm / 8700*2500*3500mm / 12000*2500*3500mm / 15000*2500*4300mm / 15000*2500*4300mm
Weight	4300kg / 5000kg / 5800kg / 6300kg / 7000kg

LJCNC-2620

Automatic Glass Cutting Line



PERFORMANCE

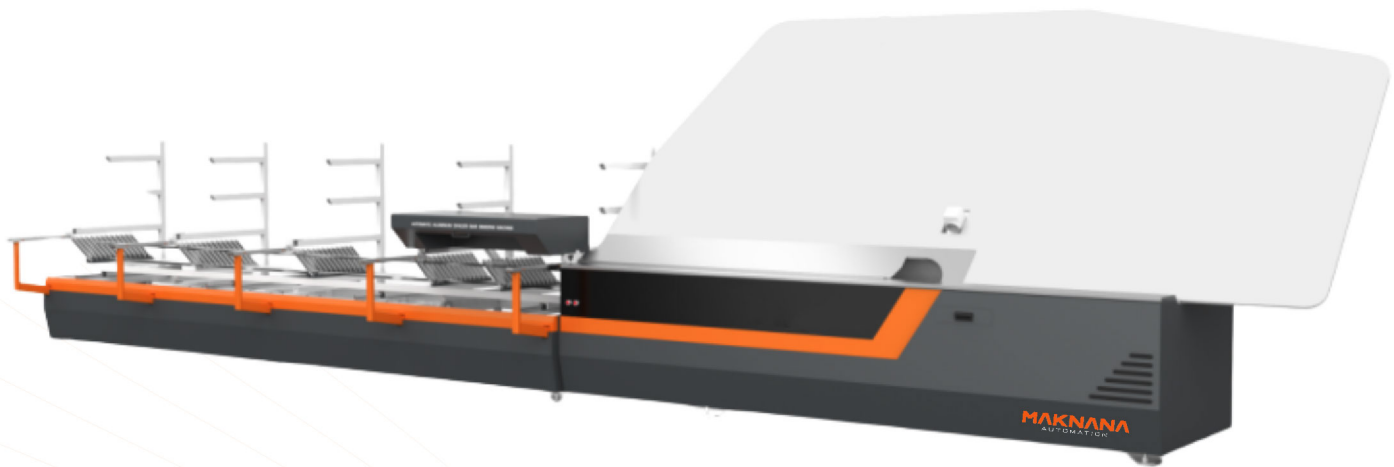
- The equipment adopts car grade paint, which is beautiful and elegant
- The computer adopts a genuine Chinese and English windows system without random code, And has high configuration, and the use is smooth without jamming
- The cutting table conforms to the mechanical principle, and the gantry milling is used for integrated molding, So there is no joint make sure the work table is not deformed in the future and a high cutting accuracy.
- Air floating +conveying belt function for cutting table, which can cut small size glass
- Yaskawa 7 series for servo motor is more stable than M series
- Remote service : quick reply & solve problem, After-sale engineer who has nearly 20 years working experience
- The chip loading table is driven by gear

PARAMETER

Model	Maximum Glass Size (mm)	Thickness of Glass (mm)	Linear Precision (mm/m)	Glass Cutting Speed (m/min)
LJCNC-2620	2600×2000	3-19	±0.02	0-210
LJCNC-4228	4200×2800	3-19	±0.25	0-210
LJCNC-5133	5100×3300	3-19	±0.30	0-210
LJCNC-6133	6100×3300	3-19	±0.40	0-210

LJZW2020D

Automatic Spacer Bending Machine



PERFORMANCE

- Adopts 12 material storage units with automatic switching
- Adopts floating cutter head i.e., each type of aluminum bar can be switched freely without replacing the cutter head
- Adopts computer control, can be connected to the factory ERP system (scan code to read data)
- Stainless steel bending, laser coding function (optional)
- Automatically generate and print bar code, convenient for the next process to read the data (optional)
- Code scanning function can be added, automatically import data to complete the filling task (optional)

Specification	Value
Max. bending size	1800*2000mm (In once) / 2500*4000mm (In twice)
Min. bending size	150*300mm
Aluminum spacer width	5.5-26.5mm
Spacers racks	12
Spacer size error	±0.5mm
Angle error	±1°
Conveying speed	1250mm/s
Air pressure	≥0.65MPa
Voltage	380V 50Hz 3P
Total power	3.5KW
Dimension	10500mm*2200mm*2600mm
Weight	1580kg

LJGZ2020D

Automatic Desiccant Filling Machine

PERFORMANCE

- Germany Siemens PLC control system, stable performance
- Automatically drilling, filling and sealing
- The machine height can be adjusted according to the size of spacer
- Automatically import data to complete the filling task (optional)
- Automatically loading and replenish molecular sieve
- Advanced feeding device designed according to the principle of gas flow
- Adopt industrial plastic spraying treatment of all frames
- Core parts adopt famous imported brand

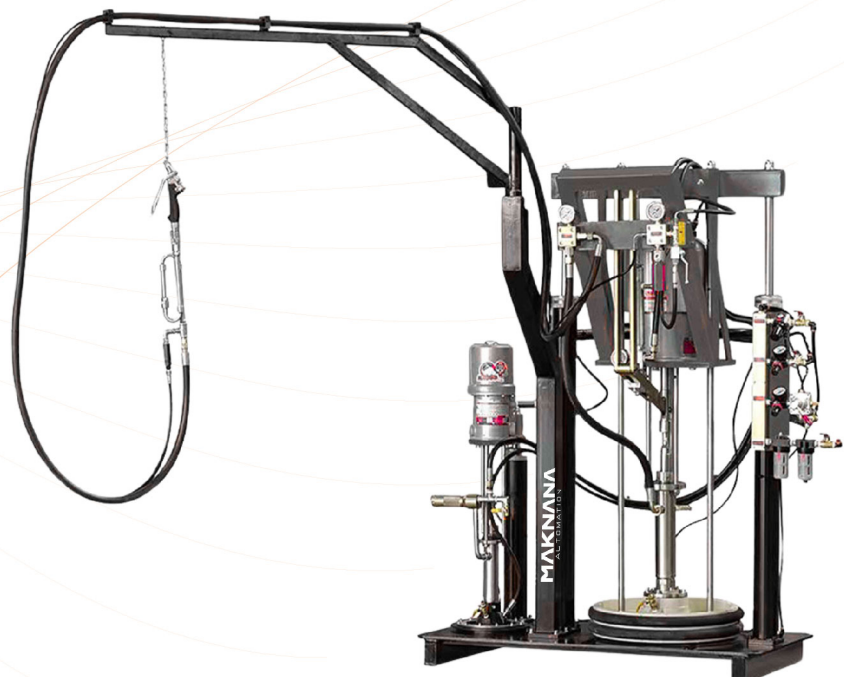
PARAMETER

Specification	Value
Max. frame size	2000mm*2000mm
Min. frame size	300mm*250mm
Aluminum specifications	5.5–26.5mm
Air pressure	≥0.65MPa
Voltage	AC220V 50Hz
Power	1kW
Molecular sieve diameter needed	0.5–0.9mm (optional: 1.0–1.5mm)
Dimension	1400*1200*3600mm
Weight	300kg



LJST03

Two Pump Sealant Spreading Machine



PERFORMANCE

- Use cylinder to provide power
- The famous sealant gun in China, stainless steel mixer
- High pressure protect device
- Anti-back flow control structure
- Mixed rate detector can control the rate of two kinds of sealant

PARAMETER

Specification	Value
Working air pressure	≥0.6MPa
Sealant spreading pressure	15–20MPa
Sealant volume	4L/min
Diameter of A/B sealant	570mm / 280mm
Mixed rate	6:1–14:1
Air supply	Flow 0.8m³/min
Air pressure	≥0.8MPa
Dimension	1700*1100*1900mm
Weight	600kg

LJZT02

Rotated Sealant Spreading Table

PERFORMANCE

- Easy to operate, simple and flexible
- It is used for fixing and rotating glass when sealing
- Middle sucker for small piece of glass



Specification	Value
Power supply	380V 50Hz
Total power	0.37kW
Operating dimension	1500*1500mm / 2000*2000mm
Dimension	600*550*985mm
Weight	75 / 48kg

LJTB01

High Speed BUTYL Extruder



PARAMETER

Specification	Value
Voltage	3P 380V 50Hz
Power	5.7kW
Butyl extrusion pressure	10–25MPa
Temperature	110–140°C
Glue thickness	0.3–0.5mm
Glue width	3.5mm
Aluminum spacer width	5.5–26.5mm
Speed	0–47m/min
Diameter of butyl cylinder	200mm
Air supply	Flow 0.4m³/min
Air pressure	≥0.6MPa
Dimension	2800*700*900mm

PERFORMANCE

- The butyl extrusion speed can reach 47 m/min.
- Saves butyl compared to ordinary machines — glue output can reach 7 g/m.
- Automatic exhaust, simple operation.
- Uses non-adhesive synchronous belt; no talc powder needed for cleaning.
- Main accessories are German brand, with PLC program control for stable performance.
- Movable vertical butyl release and horizontal extrusion, convenient and practical.
- Automatic glue head width adjustment ensures double-sided gluing aligns with quick-opening valve integrated control.
- Beam height adjustment is convenient and effectively solves the problem of white lines.
- Touch screen operation, simple trial use.
- Automatic butyl output adjustment according to speed changes.
- Uses branded hydraulic system for uniform and full rubber output.
- Pull-up structure in the butyl cylinder for easy butyl replacement

LJQJ02

Spacer Cutting Machine



PERFORMANCE

- It is used for cutting aluminum spacers
- Can cut multiple aluminum spacers at the same time, high efficiency

PARAMETER

Specification	Value
Power supply	380V 50Hz
Total power	0.55kW
Dimension	50001050415mm
Weight	100kg

GLASS GRINDING MACHINE

Vertical Glass Grinding Machine (swing head)



PERFORMANCE

- Suitable for different size and thickness flat glass grinding.
- Rough grinding, fine grinding, arris, polishing can be finish on the same one time.
- Processing speed adjusted by CVT with large coverage adjustment and stable speed change.
- During processing the glass, both feed-in speed and grinding qty can be adjusted.
- Adjust front rail to match different glass thickness.
- GLASS GRINDING MACHINE is equipped with automatic clamping system and pressure stabilizing system.
- Easy operation, high precision and efficiency, it's widely used in flat glass processing.

PARAMETER

Specification	Value
Max. Size	3000×3000mm
Min. Size	80×80mm
Glass thickness	3~25mm
Feed-in speed	0.5-6m/min
Total Power	18kw
Base face max. grinding stock	3mm
Arris width grinding	2.5mm
Dimension	6800×1000×2500mm
Swing degree	0~45°

LJGSL-9243

Glass Straight Line Edging Machine (9 Motor)

PERFORMANCE

gLass straight line edging machine is designed for grinding straight edges or 45 angles and flat glass of different sizes and thickness. Crude grinding, refine grinding, polishing, and angle making can be completed in one procession.



PARAMETER

Specification	Value
Grinding speed	0.5~5m/min
thickness	3~19mm
Minimum size of glass	100 x 100mm
Maximum size of glass	2440 x3660mm
total power	19kw
weight	2700kg
occupation area (L x W x H)	6500 x 1500 x 2200mm

GLASS TEMPERING FURNACE

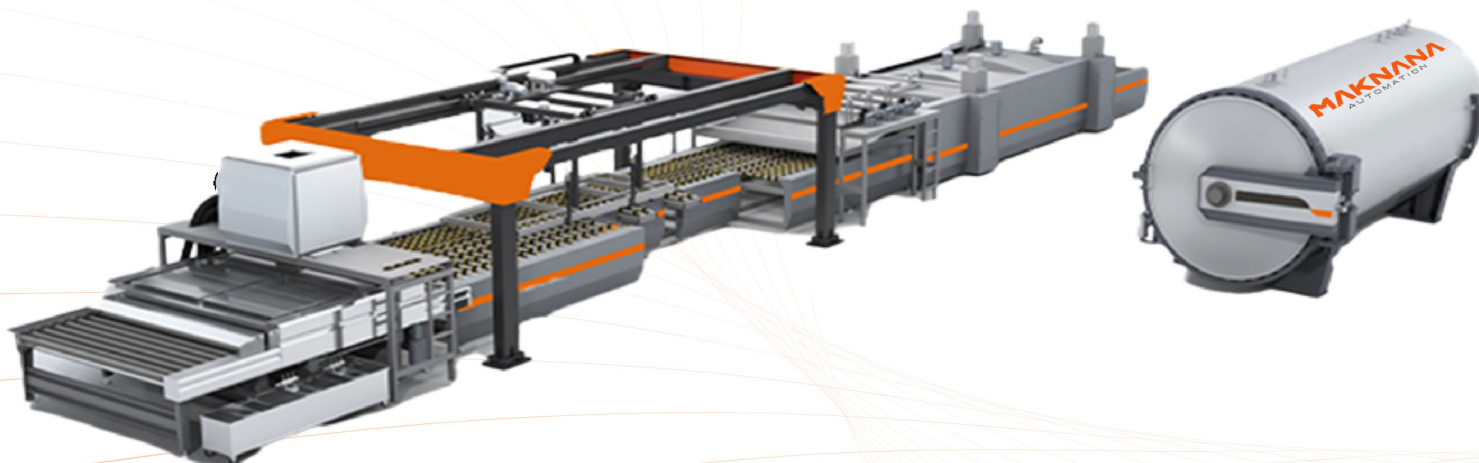
Horizontal Roller Hearth Flat Glass Tempering Furnace



PARAMETER

Specification	Value
Maximum processing size	2500mm×1200mm
Minimum processing size	300mm×100mm

LAMINATED GLASS PRODUCTION LINES



Specification	Value
Regular glass size (more than three pieces)	2500x3500mm
Large size (two pieces)	2500x6000mm
Minimum glass length	420mm
Minimum glass width	300mm
Glass thickness	6~80mm
Total length	28.81m
Total power	200Kw

The background of the entire page is a photograph of an industrial stone processing machine. A robotic arm with a blue motor and a white vertical column is positioned above a large, light-colored stone slab. The machine is set in a workshop environment with various cables and components visible. The image has a warm, orange-toned overlay.

Marble Solutions

Stone Crafting Reimagined with Automation

Achieve flawless cuts, polish, and engraving with automation that enhances quality and reduces waste ideal for flooring, kitchens, and monuments.

MAKNANA
AUTOMATION

BRIDGE SAW CUTTING MACHINE

The Five-Axis Bridge Cutting Machine is a versatile and cost-effective tool that has revolutionized the stone-processing industry. Its precise cutting and shaping capabilities ensure high-quality results every time, making it a great choice for businesses looking to increase efficiency and production. With its advanced features and user-friendly operation, it is an ideal investment for businesses across related industries.



PARAMETER

Name	Unit	HKNC-450	HKNC-500
Diameter of saw blade	mm	Φ350-Φ450	Φ400-Φ500
Dimensions of working platform	mm	3500 × 2100	3500 × 2100
Max. cutting length	mm	3500	3500
Max. cutting thickness	mm	95	120
Max. lifting stroke	mm	250	300
Max. lifting weight by suction cups	kg	200	200
Power of main motor	kw	15	18.5
Power of cutter frame reciprocating motor	kw	2	2
Power of crossbeam shifting motor	kw	1.1	1.1
Power of hydraulic station motor	kw	2.2	2.2
Power of lifting motor	kw	0.85	0.85
Gross power	kw	22	27
Water consumption	m³/h	2	2
Gross weight	kg	4000	5800
Dimensions (L × W × H)	mm	5900×3380×2950	5900×3380×3000

CNC WATER JET CUTTING MACHINE

High pressure water jet cutting machine, is a tool used for slicing stone and other materials using a jet of water at high velocity and pressure, featuring a low noise, no pollution, high precision and high reliability. Our machine is applied to cut bevel surface, straight surface, conical surface, circular surface, rotating surface, groove, chamfer, and arbitrary surface.



PARAMETER

Model	Unit	HLRC-3020	HLRC-4020
Workspace	centimeter	330 × 210	410 × 210
X-axis travel	mm	3200	4000
Y-axis travel	mm	2000	2000
Z-axis travel	mm	80-130	80-130
Maximum angle of C-axis rotation	°	± 360	± 360
Maximum angle of shaft swing	°	± 60	± 60
Cutting accuracy	mm	± 0.1	± 0.1
Repeat accuracy	mm	± 0.05	± 0.05
Lateral speed	mm/min	5000 / 15000	5000 / 15000
Main motor power	kilowatt	37	37
Dimensions (length × width × height)	centimeter	443 × 278 × 220	494 × 280 × 222

MARBLE POLISHING

Automatic Continuous Stone line polishing Machine specially fits for griding and polishing the slabs and strips of granite and other natural and engineered stones, moving on a conveyor belt, using a series of griding heads or resin abrasive disc.



PARAMETER

Specification	Unit	HLMJX-12	HLMJX-16
Number of grinding head	pc	12	16
Power of spindle motor	kW	5.5 / 7.5	5.5 / 7.5
Gross power	kW	96	126
Useful working width	mm	600-1200	600-1200
Useful working thickness	mm	15-30	15-30
Speed of belt advance	mm/min	0-2000	0-2300
Water consumption	m³/min	17	20
Gross weight	kg	12000	14000
Dimension (L × W × H)	cm	750×215×220	880×215×220

AUTOMATION

MAKNANA

AUTOMATION

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