

CNC TURRET PUNCH PRESS

ES30P / M30P / M50P / J21S



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CONTACT US

COMPANY PROFILE

Established in 2002, ADH Company is situated in Ma'anshan City, Anhui Province, just 30 kilometers from Nanjing Lukou Airport. Our expansive 2,000,000 square meter facility specializes in manufacturing press brakes, hydraulic shearing machines, laser cutting machines (including automatic production units), CNC turret punches, intelligent flexible bending centers, and sheet metal automation equipment. As a leading high-tech manufacturer prioritizing R&D and innovation, we hold numerous patents and industry certifications.

2002

Founded

6000 +

Annual Production

120 +

R&D Personnel

100 +

Exported Countries



Mission

We are committed to research and development, improving product and service quality, in order to establish a globally renowned sheet metal manufacturing machinery center.



Vision

Our goal is to become a highly respected sheet metal support service provider, earning the trust of customers and the pride of employees.



Values

Innovation, Lean Manufacturing, Integrity, Win-Win.

CNC TURRET PUNCH PRESS

All Electric Single Servo

ES30P Series



- German servo control, 2300 hpm.
- Rexroth five-axis system.
- 21-inch touch HMI.
- Efficient rolling and cutting.
- Energy-saving, eco-friendly.
- Strike frequency: 2000 hpm.
- Self-developed servo system.
- Precision processes.
- Low energy, low noise.

Specifications

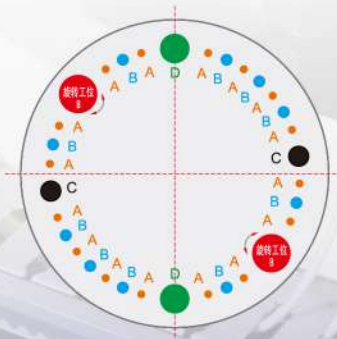
ES30P Series

SPECIFICATIONS			
Name		Unit	
Press Capacity		300	KN
Transmission Type		Servo	/
Frame Construction		O-frame	/
Max. Sheet size: X axis		5000 (With one re-positioning)	mm
Max. Sheet size: Y axis (Thorat)		1250 1500√ 2000	mm
Max. Sheet Thickness		6.35	mm
Max. Diameter		Φ88.9	mm
Max. Punching Stroke		32	mm
Max. Nibbling Speed		1800	hpm
1 mm pitch, 6mm punch stroke		750	hpm
25.4mm pitch, 4mm punch stroke		400	hpm
No. of Clamps		3	pcs
No. of Re-positioning Cylinder		2	set
Turret Stations		32	pcs
No. of Controlling Axis		5 (X, Y, T, C, A)	pcs
Tool Distribution		16A/ 10B/ 2Bi/ 2C/ 2D	/
Worktable Structure		Brush and ball mixed	/
Max. Feeding Speed: X axis		90	m/min
Max. Feeding Speed: Y axis		80	m/min
Max. Feeding Speed: X, Y combined		110	m/min

SPECIFICATIONS			
Name		Unit	
Turret Speed		30	rpm
Rotational Tool Speed		40	rpm
Punching Accuracy		±0.10	mm
Max. Sheet Weight		150	kg
Air Pressure		0.6	mpa
Clamp Dead Area Detection		Yes	/
Clamp Splint Loose Alarm Device		Option	/
Plate Warping Alarm		Yes	/
Clamp Automatically Float Down		Yes	/
Roller Auxiliary Feeding		Yes	/

Turret Layout

32 Stations(16A/12B/2C/2D)				
Station (mm)	A < Φ12.7	B < Φ31.7	C < Φ50.8	D < Φ88.9
32	16	12	2	2



32 Stations Mosaic Turret,
Prevent Wear
(16A/ 12B / 2C / 2D)

CONFIGURATION OPTION



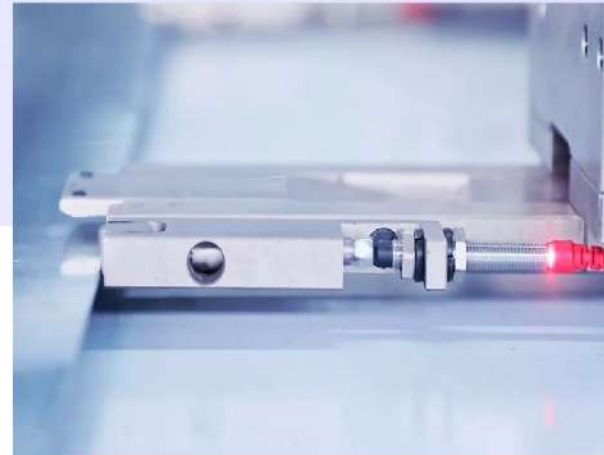
Customized Turret (4B Auto-index)

- Automatic transfer, precision stamping, efficient production, stable quality. Standard and customized stations can be flexibly combined to meet various processing needs.
- Durable design reduces maintenance, suitable for batch and customized production, unleashing workshop potential.



46 Station (Dual Circle + T die base)

- One setup, efficiently completes multiple processes. Combined with a T-slot base for precise positioning and excellent impact resistance, ensuring accurate positioning and stable precision.
- High-strength material, durable and long-lasting, worry-free maintenance, helps reduce costs and increase efficiency.



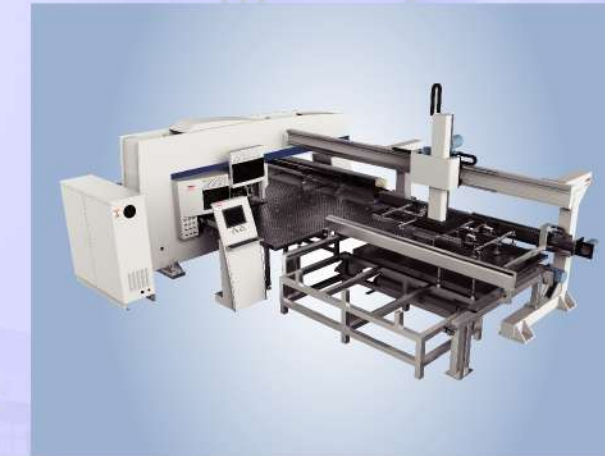
Clamp Stripping Protection

- Real-time protection of clamp position to prevent offset or disengagement, reducing scrap rate and ensuring smooth processing.
- Reduce equipment wear and tear, extend lifespan, and improve production line efficiency and stability.



Scrap Collection Device

- Designed for efficient waste disposal, ensuring rapid collection and clean discharge, protecting equipment operation, and optimizing the production environment. Precision engineering combined with a high-capacity design makes waste disposal more worry-free and efficient.
- Automated transfer systems reduce manual intervention, offer stable operation with low maintenance costs, helping you focus on improving production efficiency and product quality. Time-saving, labor-saving, and reliable.



Automatic Loading and Unloading

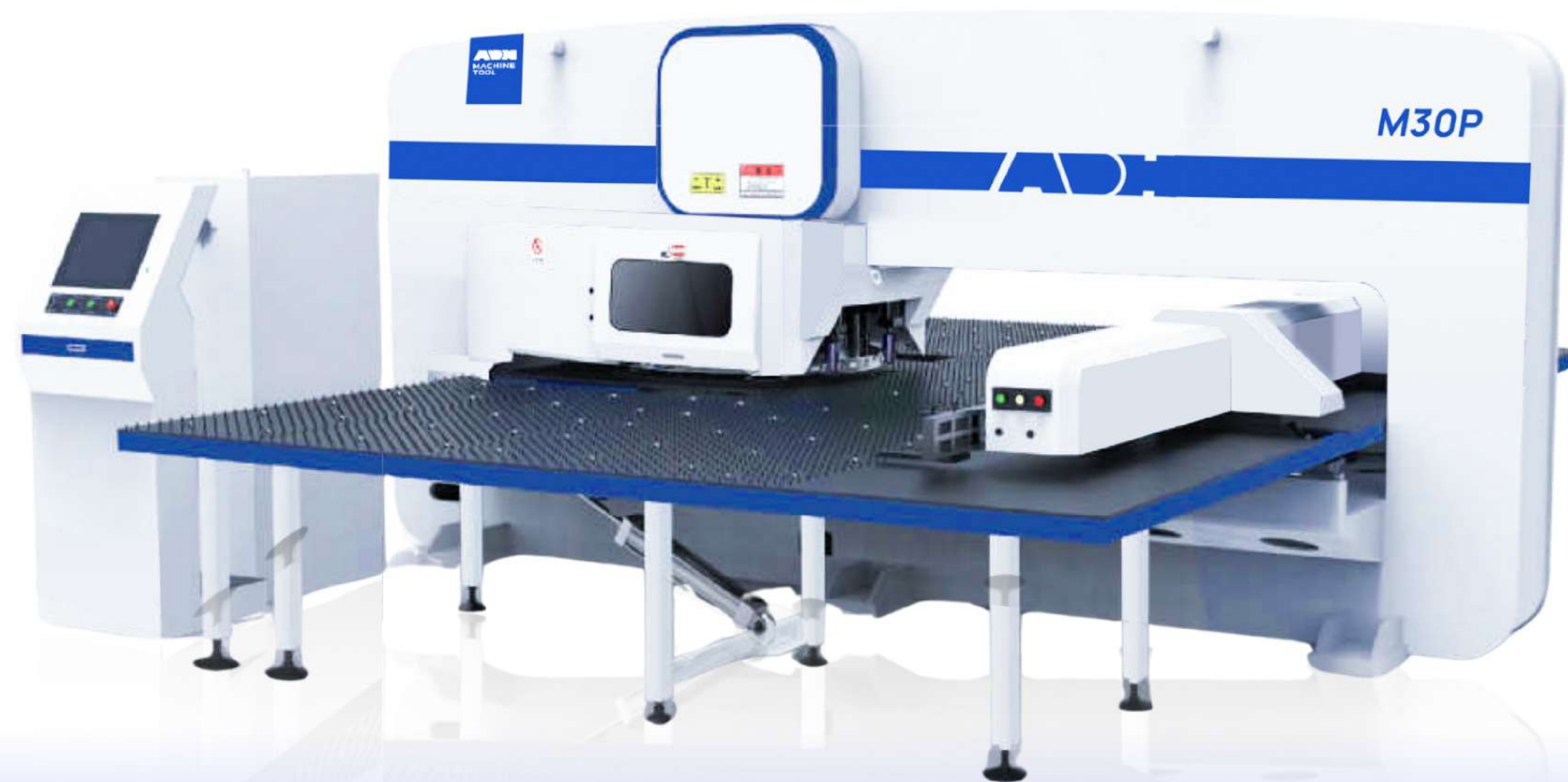
- Significantly improve production efficiency through full-process automation. The entire process of raw material loading and finished product unloading requires no manual intervention, shortening delivery times and significantly reducing costs.
- Precise robotic arm design and intelligent path planning ensure efficient loading/unloading and processing stability. Choose this technology to usher in a new era of efficient production, injecting strong momentum into your factory.

Diverse configurations, custom-tailored solutions. Whether it's workstation, stamping force, or level of automation, every design is precisely tailored to your production capacity, accuracy, and cost objectives, empowering productivity and enhancing competitiveness

CNC TURRET PUNCH PRESS

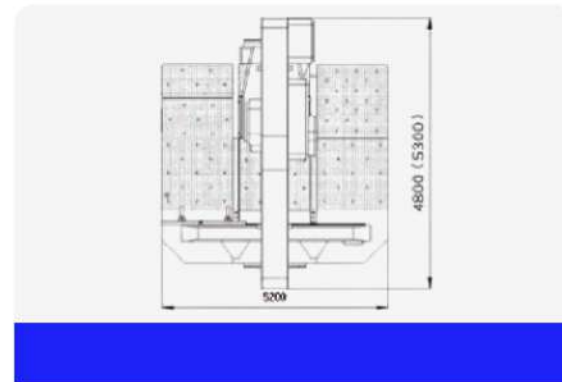
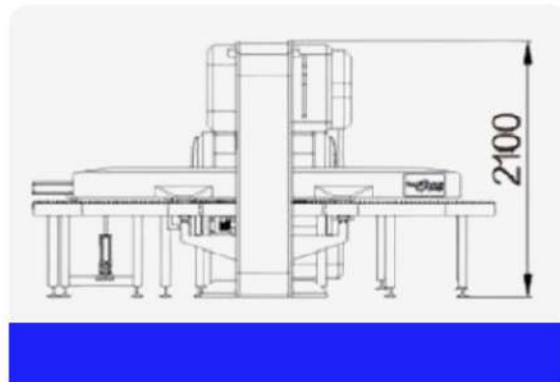
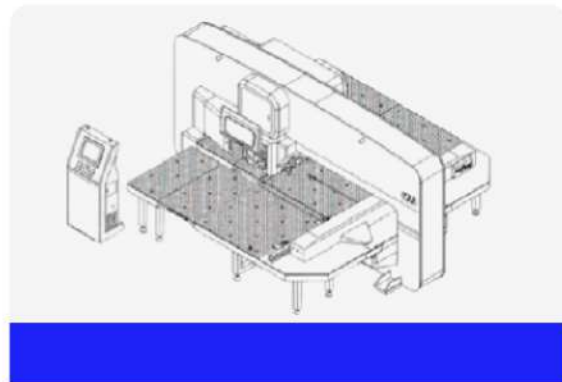
O-frame

M30P Series

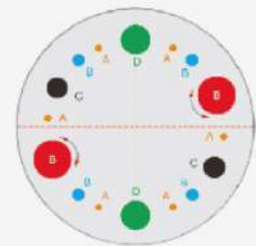


- Robust O-frame structural design.
- 16/24/32 station turret options.
- 3/4-axis CNC precision control.
- Processes sheets up to 4mm thick.
- ± 0.1 mm precise punching accuracy.

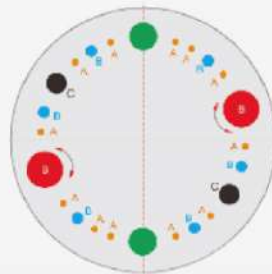
Machine Layout



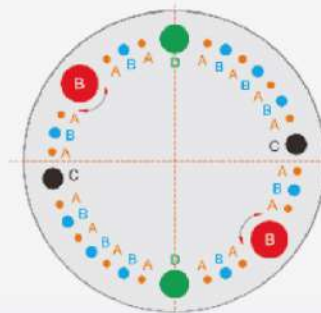
Machine Layout



16-station
(6A/6B/2C/2D)



24 stations
(12A/8B/2C/2D)



32 stations
(16A/12B/2C/2D)

Specifications

M30P Series

SPECIFICATIONS		
Model	M30P	
Name	Specifications	Unit
Press Capacity	300	KN
Hit Rate	240	hpm
Max. Sheet Size	2500x1250	mm
Max.Sheet Size (With-one-reposition)	5000x1250	mm
Max.Diameter	φ88.9	mm
Max.Sheet Thickness	4	mm
Punching Accuracy	±0.1	mm
Feeding Speed	≤110	m/min
Turret Stations (Auto-index station)	16/24/32	pcs
Tool Configuration	30	rpm
No. of Controlling Axis	3/4 (XYTC)	/
Power (Main motor)	5.5	kw
Air Pressure	0.65	mpa
Dimension Length	4800/5200/2300	mm

CNC TURRET PUNCH PRESS

O-frame

M50P Series



- Own developed control system.
- Tonnage customization.
- Famous brand components.
- Special designed for thick material.



CNC TURRET PUNCH PRESS

CNC Feeding Table

J21S Series



- CNC automation eliminates manual labor completely.
- Precise, consistent punching results every time.
- Deep throat design handles larger workpieces easily.
- Versatile tooling adapts to any production need.
- Maximum productivity at minimum cost.

Specifications

M50P Series

SPECIFICATIONS			
Model	M50P		
Name	Specification	Unit	
Capacity	500	KN	
Hite Rate	160	hpm	
Sheet Size	2500X1250	mm	
Max Sheet Size (With One-reposition)	5000x1250	mm	
Max.Sheet Thickness	≤6.35	mm	
Accuracy	±0.1	mm	
Feeding Speed	50	m/min	
Station	16/24/32	pc	
Air Pressure	0.55	mpa	
Dimension	5000x5200x2300	mm	

Specifications

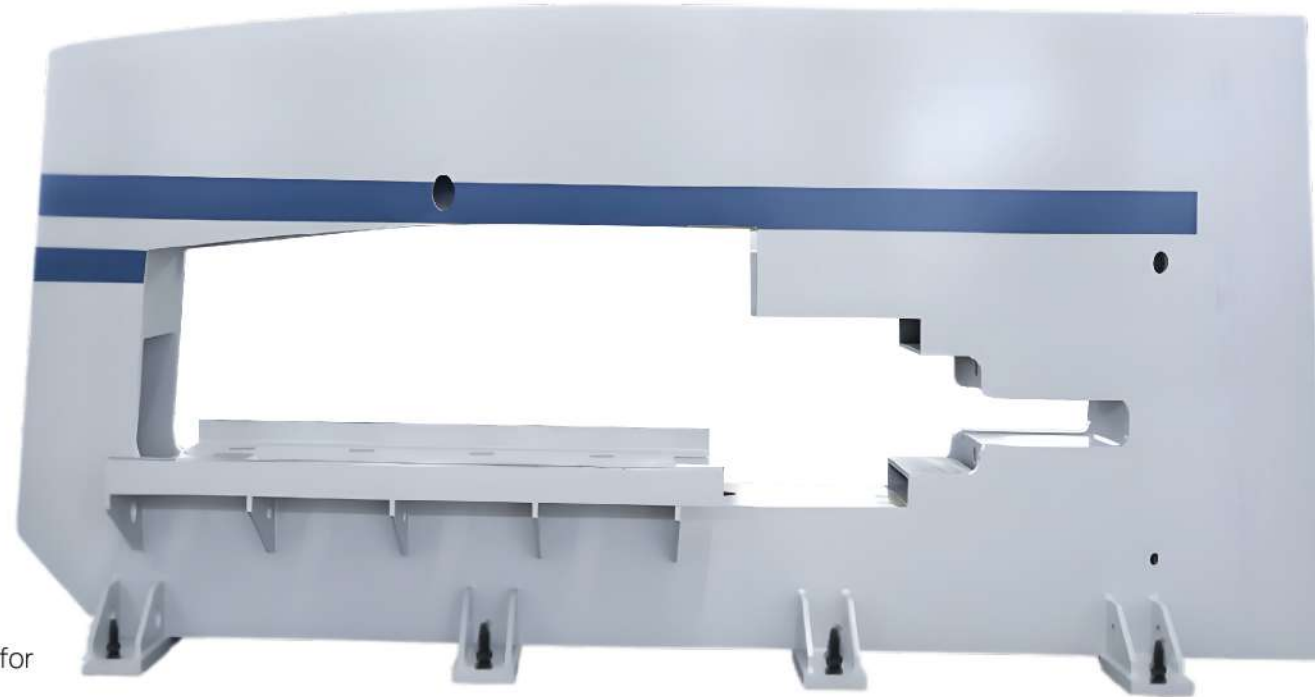
J21S Series

SPECIFICATIONS						
Model	J21S					
Capacity Range (KN)	63-1250	63-1250	63-1250	63-1250	63-1250	63-1250
Sheet Size (mm)	1000x1000	2500x1250	3000x1250	3500x1250	4000x1250	5000x1250
Processing Accuracy(mm)	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
Feeding Speed (m/min)	30	30	30	30	30	30
Fuselage	Welding					
Clamp	Automatic					
Worktable	Overall sheet metal and universal ball			Reinforcement channel		
Motor	Servo					
Guide Linear & Screws	Steep Lead			Wide		Imported Rack

PRODUCT DETAILS

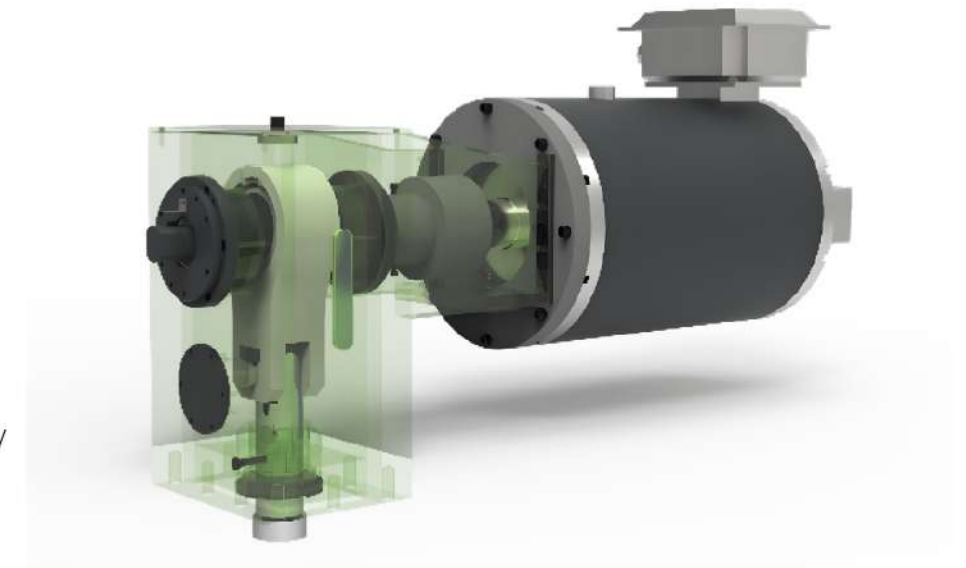
Frame

- Introducing our O-type welding press frame for servopunch presses: robust, precise, and durable. Designed for high tonnage and long-lasting accuracy, it extends machine life and enhances precision and reliability.



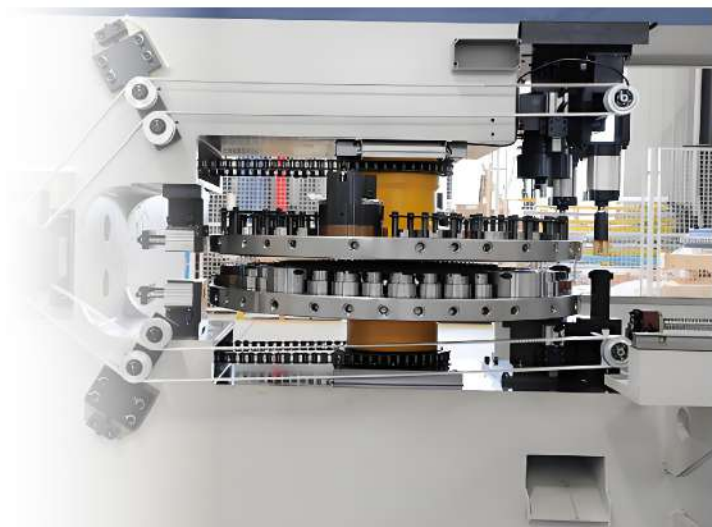
Servo Transmission Technology

- Our servo motor with crankshaft linkage ensures high precision, low noise, longevity, and minimal maintenance.
- With servo closed-loop motor technology, it enhances forming results without hydraulics, reducing noise and heat.
- Its energy-saving design recycles braking energy, cutting energy consumption and operational costs, while offering versatile forming functions.



Servo Motor

- High-torque servo motor delivers direct power for versatile processing, exceptional energy efficiency, and quiet, maintenance-free operation, boosting overall productivity.



C Axis Transmission

- Auto-index driving structure the whole German imported Continental brand synchronous belt.



Worktable

- Featuring seamless folding design with hard brush surface, steel ball technology, aluminum edge protection, and side loading rollers - engineered for quiet operation, effortless sheet handling, and maximum durability.



Advanced and Reliable of Servo System

- The different thickness of the material automatically choose the stroke, can be very easy special crat processing, such as shuters, knock down hole the whole trip of constant pressure and make the stamping quality reach a high level.

Feeding System

- Rexroth feeding motors. The big space between guider will benefit with processing accuracy while fabricate large size sheet, and it has the better balance capacity while moving in high speed. The auxiliary platform can move with the sheet, reduce 30% of the friction force between the plate and brush platform.

Ball Screw and Guide Liner

- Line guider and ball screw import from or German Rexroth, ensure the accuracy and long service life. The imported pneumatic, and electric parts ensure the overall performance reliability. Centralized lubricating system, reduce the friction of all moving parts, prolong the service life of the machine.





Floatable Pneumatic Clamps

- The pneumatic floatable clamps reduce the deformation of the plate. The self-protection function makes no dead area for punching on sheet. The clamp automatically floats when clamping the plate, convenient for the plate clamp. Automatic unloading when the clamp returns



Tooling

- Adopts Japanese AMADA international standard long guide tooling, features standard thick turret design, a rational station layout, strong tool versatility, precise guiding, long service life, and processing accuracy.



Full Auto Indexed Station

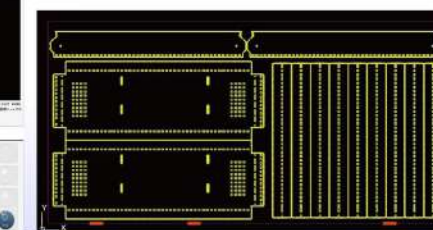
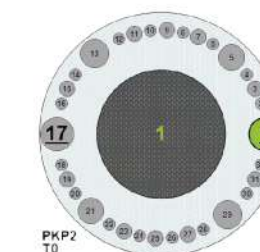
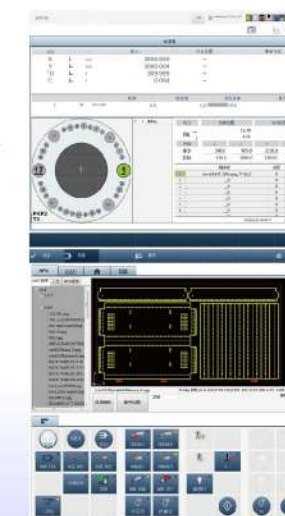
- Unique worm gear structure to ensure the accuracy of positive and negative bidirectional transmission. Single import synchronous belt drive to ensure synchronization between up and down.

Turret

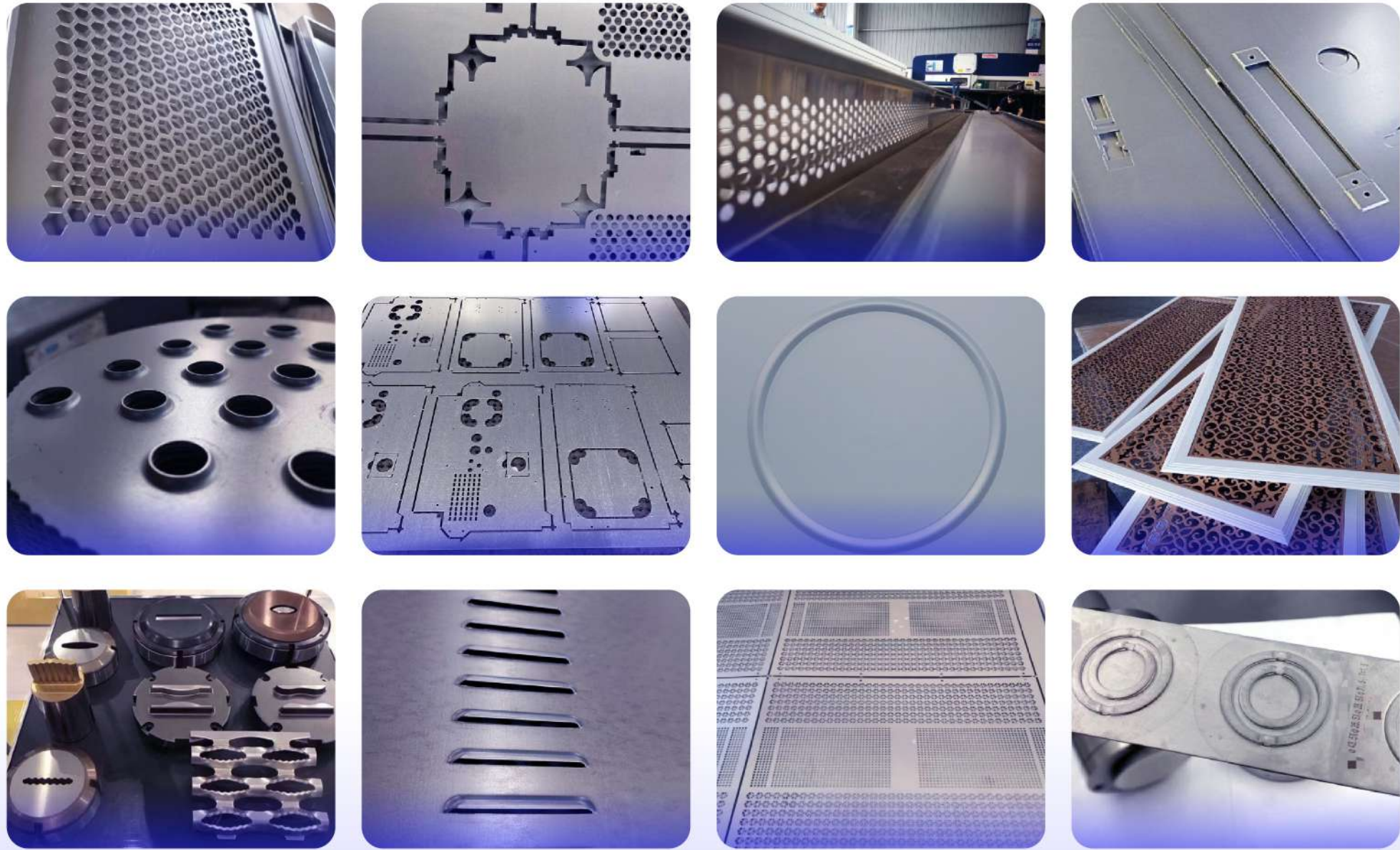
- The turret adopts a thick turret inlaid sleeve structure, which has high strength, good wear resistance, and good guiding performance, extending the service life of the turret.

Rexroth CNC System

- Our high-speed CNC turret punch system offers unparalleled integration with CNC, drives, PLC, I/O, and servo motors, minimizing external connections to reduce labor costs and enhance efficiency.
- The energy-saving Total DC drive with DC bus further optimizes power usage, offering cost-effective solutions.
- Rexroth provides a complete set of products, including cabling, line filters, and braking resistors, ensuring exceptional stability and reliability.



Application



Configuration

ES30P Series

Configuration		
Name	Model	Supplier
CNC SYSTEM	MTX INDRA MOTION	Rexroth, Germany
SERVO MOTOR	MTX INDRA MOTION	Rexroth, Germany
BEARING	Tapered Roller Bearings 32220	Leipzig, Germany
SYNCHRONOUS TOOTH BELT	8M Timing Belt	Continental, Germany
COUPLING	Y25T/42T	Japan MIKI PUIIEY
COUPLING	Y25T/35T	Japan MIKI PUIIEY
LINE GUIDER	R205540331-2450	Rexroth, Germany
LINE GUIDER	R205530331-4000	Rexroth, Germany
LINE GUIDER	R205570331-3000	Rexroth, Germany
BALL SCREW	R40-40K2-FSC-1881	Rexroth, Germany
BALL SCREW	R40-40K2-FSC-2900	Rexroth, Germany
AIR SOURCE TREATMENT QUADRUPL	GFC300-10	Airtac
SMC	4V220-08	Airtac
TWO-POSITION THREE WAY MAGNETIC	4V210-08	Airtac
REDUCTION	VRBZ-140	Japan Shimpo
BREAKER	ABS53B 40A	LS, KOREA
CONTACTOR	LC1E160M5N	Schneider, France
BUTTON	YW1B-M1E10	IDEC, Japan
CHAIN	16A	Tsubaki, Japan