

# ALTERNATIVE SHEET METAL

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**EXPERTISE IN SHEET METAL**



ALTERNA

*Alternative Solutions*

## ABOUT US

Founded on industry expertise over 70 years, ALTERNA was launched in 2024 to redefine efficiency and affordability in the metal processing sector. With a commitment to high quality and smart engineering, we rapidly position ourselves in the global market by offering both in-house production and OEM metal processing machines.

ALTERNA machines are designed to be reliable, durable, and precise, meeting universal standards in terms of quality, cost-effectiveness, and timely delivery. We offer a comprehensive range of solutions, from high-tech CNC machines for complex operations to affordable mechanical systems for standard applications—catering to various industries and budget requirements.

We collaborate with the world's most trusted brands, including Delem, ESA, Cybelec, Bosch-Rexroth, Hoerbiger-HAWE, Givi, Heidenhain, Raycus, Raytools, Wila, Rolleri, Eurostamp, Siemens, Schneider, Mitsubishi, Estun, Delta, and Yaskawa, to ensure that our machines meet the highest performance standards.

ALTERNA is more than a machine manufacturer; We are a forward-thinking partner in metal processing. By embracing the latest technological trends and prioritizing sustainability and energy efficiency, we shape the future of the industry—one smart solution at a time.

For ALTERNative Solutions.



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# Laser Cutting



# FE Series Single Table Fiber Laser Cutting Machine

- The single table fiber laser cutting machine, designed and produced entirely by ALTERNA, is built for high-precision cutting of carbon steel, stainless steel, aluminum alloy, brass, titanium alloy, and galvanized aluminum-zinc sheets.
- Featuring an open, space-efficient structure with a fully integrated design, the machine maximizes accessibility while minimizing footprint—ideal for modern production facilities with limited floor space.



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- The flange-mounted drive system ensures more stable and reliable mechanical performance by providing better alignment and reducing vibration during operation.
- The rear-mounted integrated control cabinet is positioned away from the cutting zone, effectively protecting electrical components from metal dust.
- Equipped with a constant temperature air conditioning unit, it significantly improves the stability and longevity of the electrical system.

Available with large-format open table configurations to meet diverse sheet cutting needs.



The machine frame and cutting table are independently designed to prevent thermal deformation during laser cutting and to absorb the impact caused by loading heavy sheets, ensuring long-term precision and structural stability.

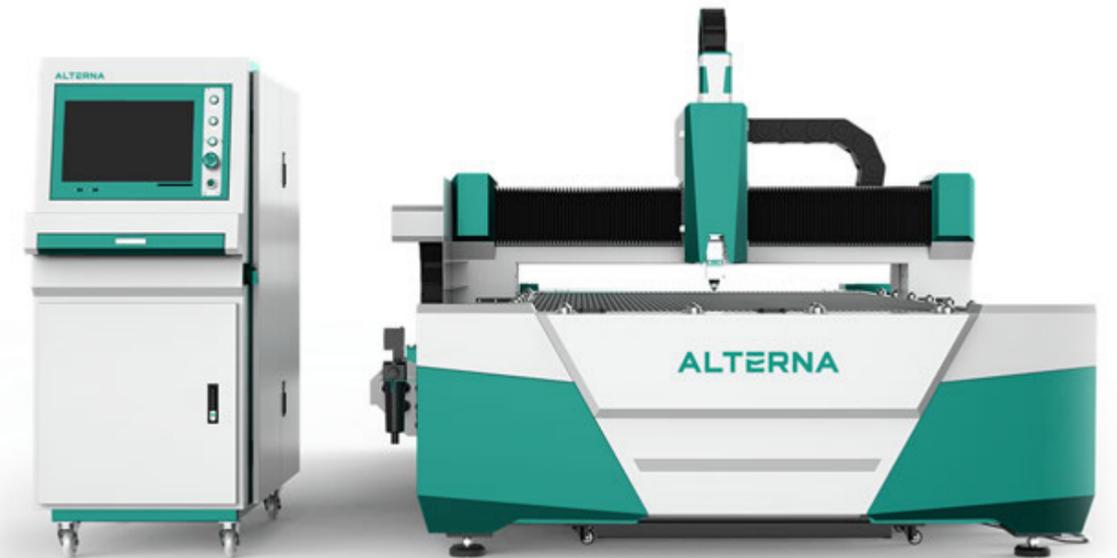
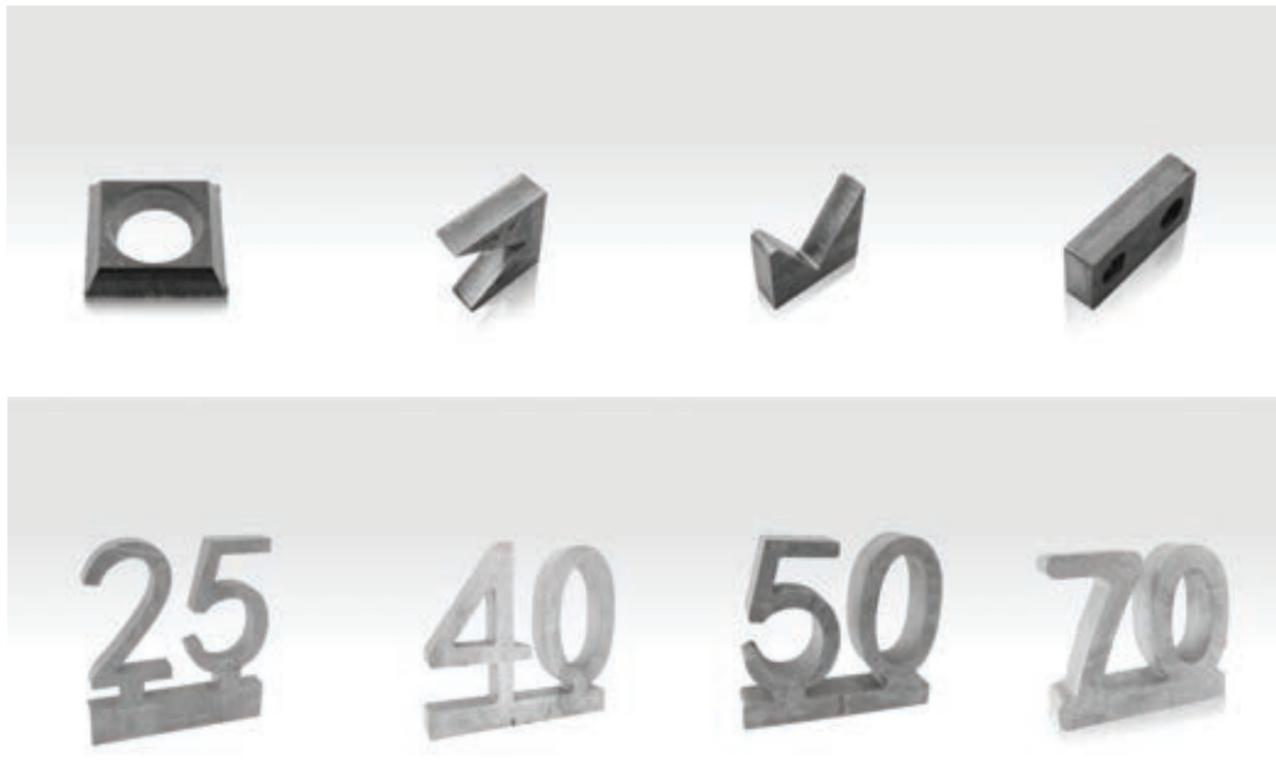
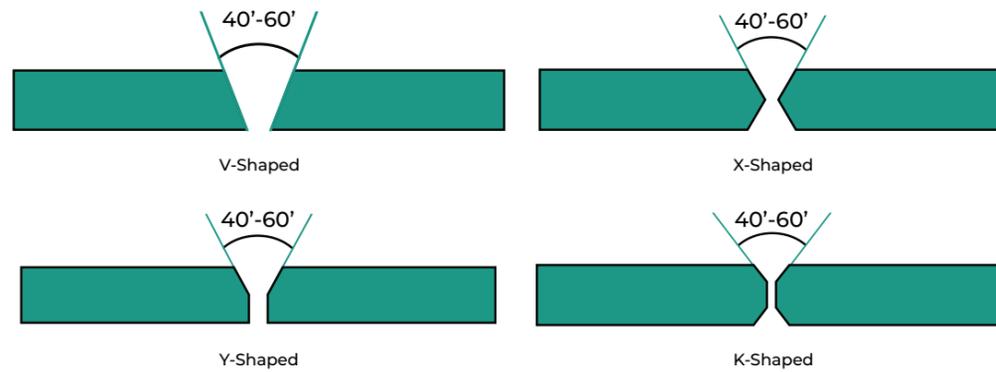
With its high load-bearing capacity and extra-large cutting area, the platform provides an ideal solution for full-panel cutting in large-scale applications. It is also capable of cutting high-thickness plates with outstanding efficiency and precision.



Equipped with a follow-up zonal dust removal system, the machine ensures a clean, safe, and environmentally friendly working environment by effectively extracting fumes and particles during cutting operations.

### Single-Step ±45° Bevel Cutting (Optional)

Capable of achieving ±45° cutting angles in a single operation for various bevel types such as X, Y, and K, this feature eliminates the need for separate beveling processes and significantly boosts production efficiency.



MODEL	Processing Area	Laser Power	Positioning Accuracy	Repeated Positioning Accuracy	Max. Cutting Speed	Max. Acceleration
FE3015	3000X1500mm	1500W-12000W	±0,03mm/m	±0,03mm/m	100-120m/min	1.0G-1.2G
FE4015	4000X1500mm	1500W-12000W	±0,03mm/m	±0,03mm/m	100-120m/min	1.0G-1.2G
FE6015	6000X1500mm	1500W-12000W	±0,03mm/m	±0,03mm/m	100-120m/min	1.0G-1.2G
FE6020	6000X2000mm	3000W-12000W	±0,03mm/m	±0,03mm/m	120m/min	1.2G
FG6025	6000X2500mm	6000W-80000W	±0,03mm/m	±0,03mm/m	120m/min	1.2G
FG13033	13000X3300mm	6000W-80000W	±0,03mm/m	±0,03mm/m	120m/min	1.2G
FG26033	26000X3300mm	12000W-80000W	±0,01mm/m	±0,01mm/m	60m/min	0.6G



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# FH Series Enclosed Design Fiber Laser Cutting Machine

- The fully enclosed fiber laser cutting machine, specially designed and offered by ALTERNA as a complete solution, is ideal for safe, efficient, and high-precision cutting of various metal sheets, including carbon steel, stainless steel, aluminum alloy, titanium alloy, and galvanized aluminum-zinc.
- Its enclosed design maximizes operator safety and environmental protection, making it perfectly suited for clean and controlled production environments.



- ◆ The integrated cabinet design helps reduce transportation and installation costs, offering a more efficient logistical solution.
- ◆ The fully enclosed structure ensures operator safety and supports eco-friendly production by containing dust, fumes, and noise.
- ◆ The active obstacle avoidance system intelligently detects potential collisions and prevents accidental contact with the laser cutting head, ensuring safer and more reliable machine operation.



## Available in Ultra High-Power, Heavy-Load Configuration

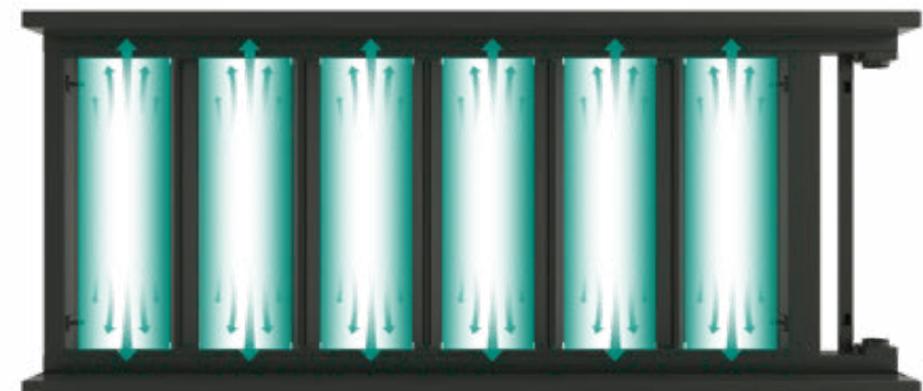


- Heavy-Load, Thermally Isolated Semi-Hollow Bed Structure

The bed frame is processed with industrial-grade annealing, delivering enhanced structural stability and durability. This ensures high rigidity, minimal thermal deformation, and low vibration, providing long-term precision and reliability in cutting operations.

- Intelligent Dust Removal System

The segmented follow-up extraction system efficiently captures dust and smoke at the source, quickly filtering out harmful gases and fine particles. This ensures a cleaner, safer, and more environmentally friendly production environment.



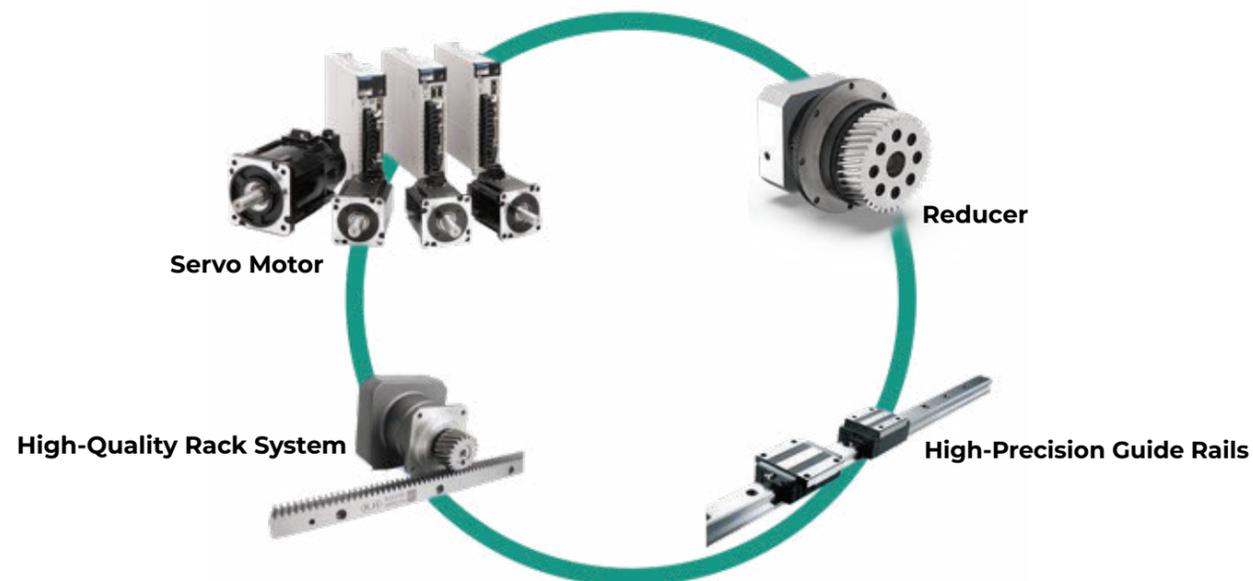
● **Advanced Intelligent Control System**

Equipped with a smart high-power cutting head, the system integrates 22 advanced technologies, including automatic slag removal and non-inductive perforation, delivering higher cutting speeds, greater material adaptability, and outstanding cutting quality across a wide range of applications.

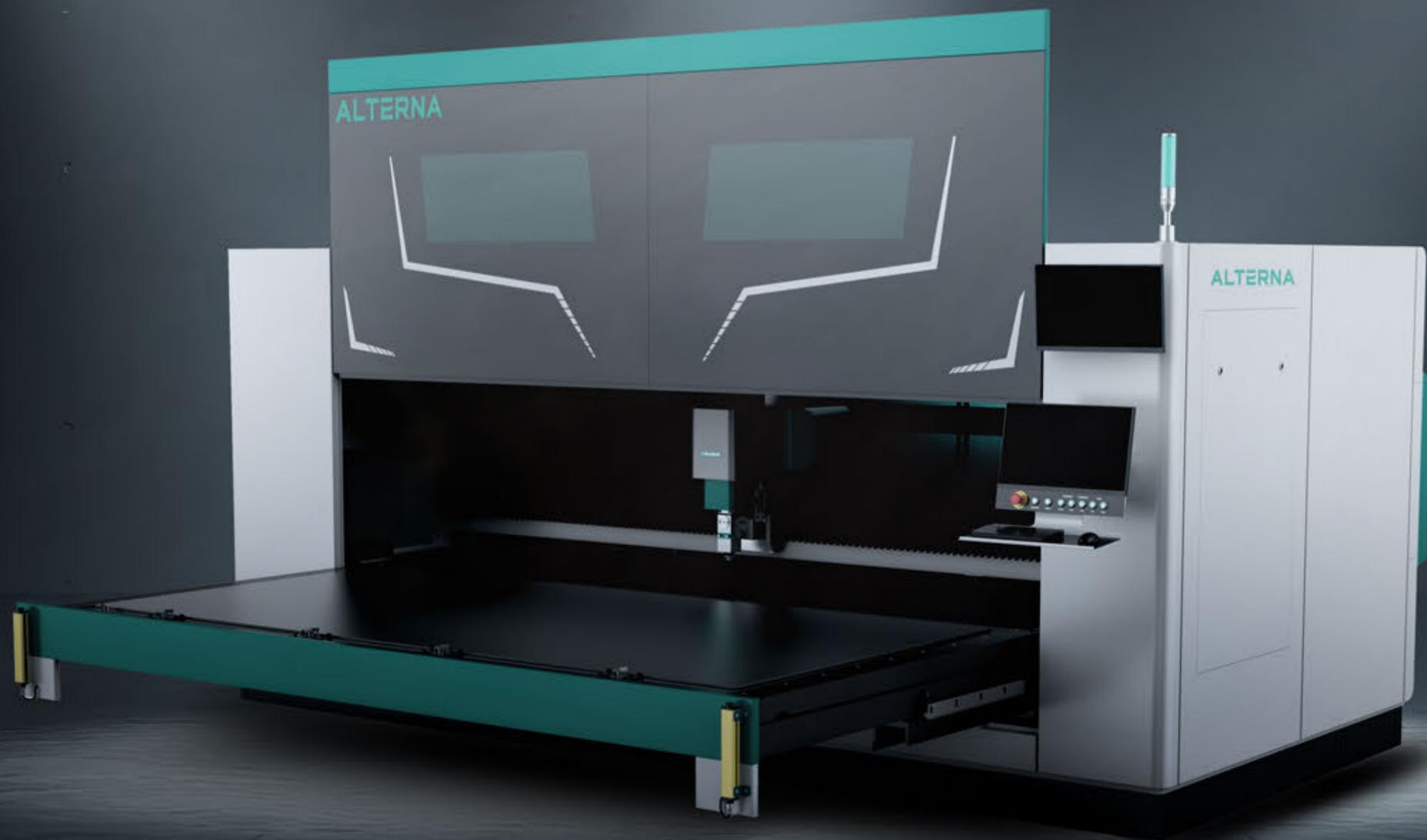


● **Superior Configuration Performance**

Core components are carefully selected from world-renowned premium brands, delivering high precision, exceptional stability, low failure rates, and a long service life—ensuring reliable operation even in the most demanding production environments.



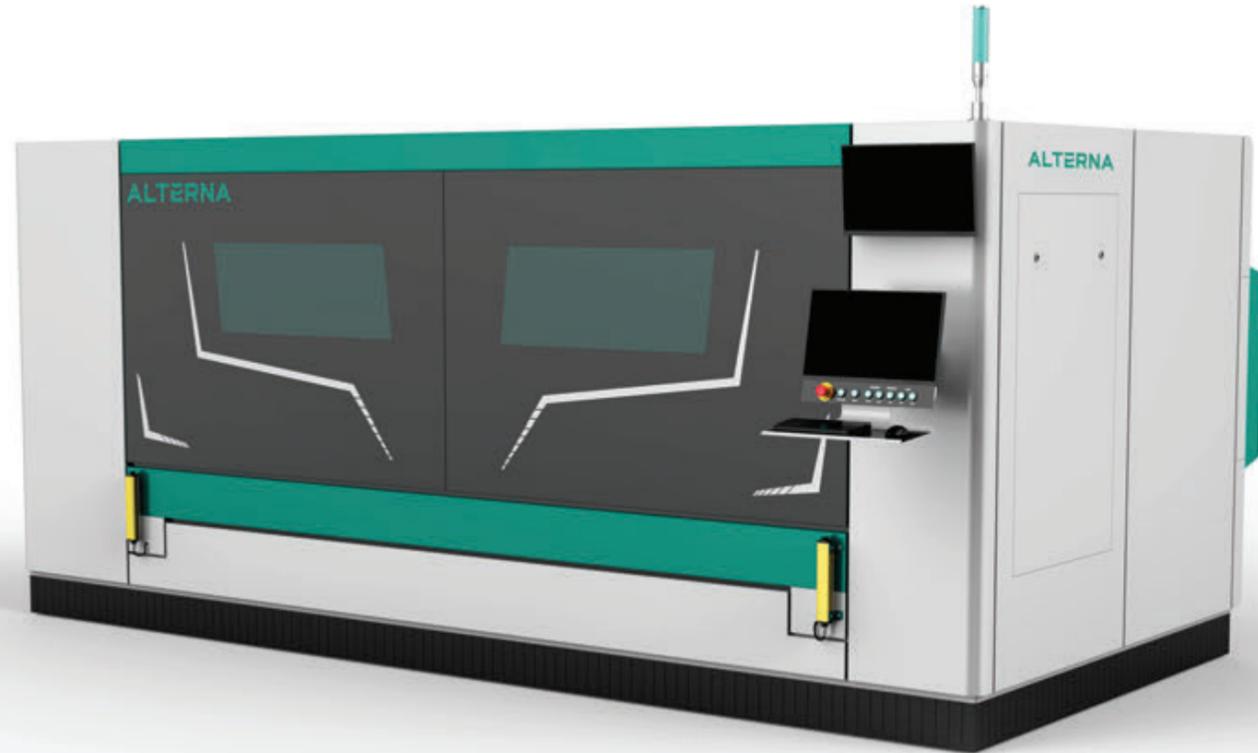
MODEL	Processing Area	Laser Power	Positioning Accuracy	Repeated Positioning Accuracy	Max. Cutting Speed	Max. Acceleration
FH3015	3000X1500mm	1500W-8000W	±0,03mm/m	±0,03mm/m	120-140m/min	1.5G - 1.8G
FH4020	4000X2000mm	3000W-8000W	±0,03mm/m	±0,03mm/m	120-140m/min	1.5G - 1.8G
FH6020	6000X2000mm	6000W-4000W	±0,03mm/m	±0,03mm/m	120m/min	1.5G
FH6025	6000X2500mm	6000W-4000W	±0,03mm/m	±0,03mm/m	120m/min	1.5G
FT6325	6000X2500mm	12000W-8000W	±0,03mm/m	±0,03mm/m	1,40m/min	1.8G
FT8025	8000X2500mm	12000W-8000W	±0,03mm/m	±0,03mm/m	140m/min	1.8G



# FM Series

## Enclosed Design-Single Table Fiber Laser Cutting Machine

- Fully enclosed, single-table fiber laser cutting machines offer the perfect balance between operator safety, cutting efficiency, and space optimization.
- The enclosed design prevents laser radiation, dust, and fumes from escaping, ensuring a safe and clean production environment. At the same time, the single-table layout ensures space-saving and operational



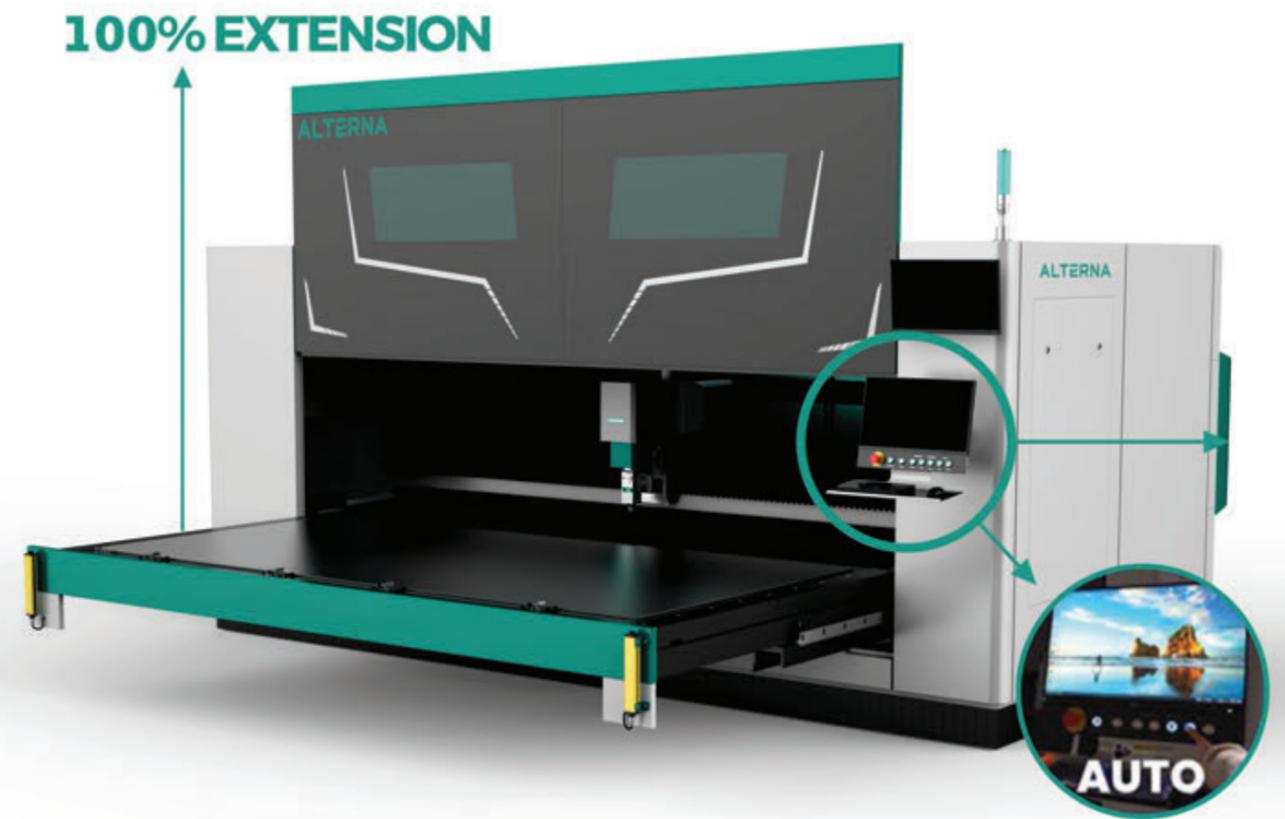
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Highly integrated single-platform design with a compact footprint optimized for easy installation and direct container loading for efficient transportation.



### Fully Automatic Pull-Out Platform (100% Extension)

Enables full-length extension for easy material loading and unloading, improving workflow efficiency and operator convenience through automated platform movement.



MODEL	Processing Area	Laser Power	Positioning Accuracy	Repeated Positioning Accuracy	Max. Cutting Speed	Max. Acceleration
FM3015	3000X1500mm	1500W-6000W	±0,03mm/m	±0,03mm/m	120m/min	1.2G

# FL Series Coil Fed Fiber Laser Cutting Machine

- Coil-Fed Fiber Laser Cutting System, a high-efficiency laser cutting solution designed for continuous production with minimal material waste. The coil feeding mechanism reduces manual intervention and ensures a steady, uninterrupted workflow, making it ideal for high-volume manufacturing.



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## Fully Automatic Intelligent Production Line

Integrating the four key functions of uncoiling, feeding, cutting, and unloading, this system transforms traditional single-sheet cutting into a fully integrated processing line. By handling multiple operations with a single machine, it greatly enhances production efficiency and automation.



- The coil-fed fiber laser cutting machine enables continuous production by eliminating downtime between batches. Its integrated straightening unit ensures that the coil material is flattened prior to cutting, resulting in highly accurate and consistent outputs.
- The automatic loop control system synchronizes the decoiler, straightener, and cutting head to ensure smooth, uninterrupted feeding. Ideal for high-speed, repetitive part production, this solution also helps lower labor requirements, increasing overall operational efficiency.

MODEL	Processing Area	Laser Power	Positioning Accuracy	Repeated Positioning Accuracy	Max. Cutting Speed	Max. Acceleration
FL3015	3000X1500mm	1500W-6000W	±0,03mm/m	±0,03mm/m	120m/min	1.2G



# Tube & Pipe

# TA Series Small Diameter Tube & Pipe Laser Cutting Machine

• TA Series (Ø120 Capacity) Engineered for precision cutting of round, square, and rectangular tubes up to 120 mm in diameter, this fiber laser system offers high-speed performance, stable clamping, and clean, burr-free results—ideal for structural components, furniture, and industrial tubing applications.



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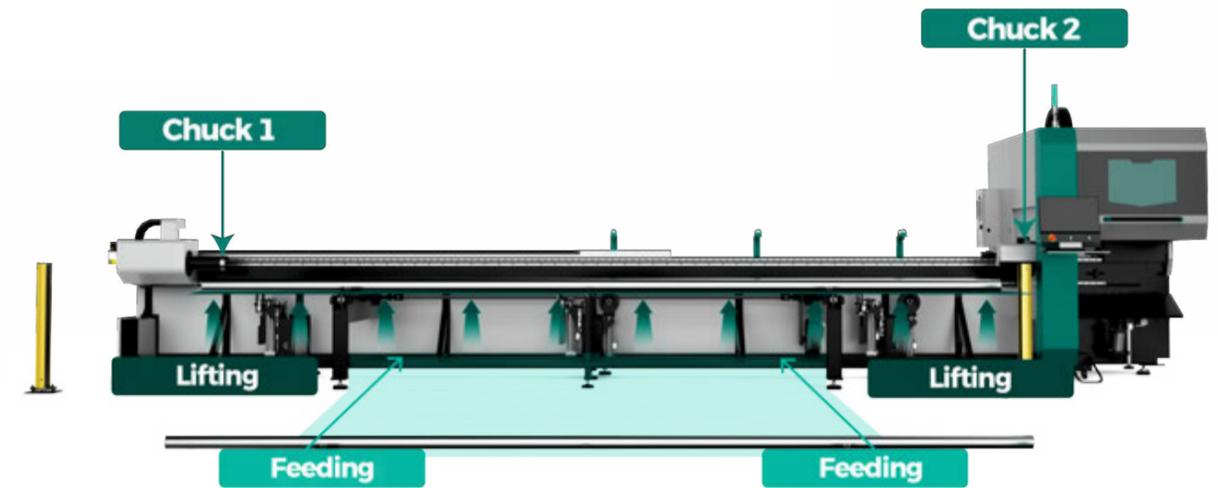


The TA Series, specially designed and made available by ALTERNA to meet user needs, is built for high-speed, high volume cutting of small metal tubes in a wide range of sizes and shapes. It delivers precise and reliable cutting for round, square, rectangular, channel, I-beam, angle iron, and custom-profile tubes made from stainless steel, carbon steel, and other metals—making it a smart choice for mass production needs.



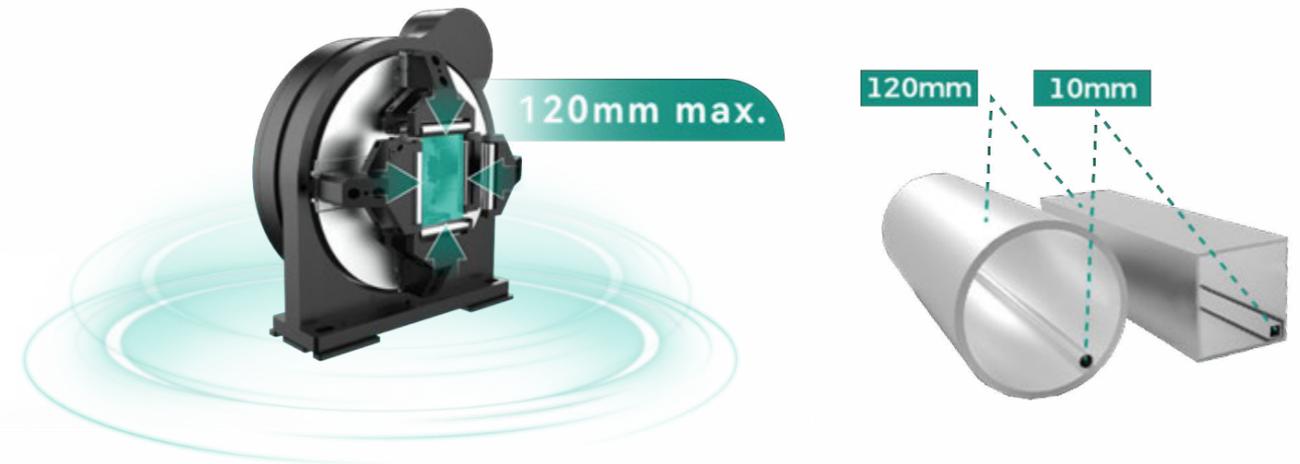
- ◆ Smart Control System
- ◆ Standard Loading System.
- ◆ Full-Stroke Precision Square Hole Chuck
- ◆ Smart Chuck Collision Prevention
- ◆ Side-Mounted Machine Bed

The two-chuck high-speed small tube laser cutting machine offers exceptional material handling flexibility, supporting a wide range of tube sizes with a maximum feeding length of 6.5 meters and tail material reduced to ≤60 mm. It ensures maximum material utilization and consistent high-speed cutting performance.



Equipped with industry-leading full-stroke precision square hole chucks, the system supports a single tube weight of up to 80 kg while ensuring secure clamping and high-speed cutting. It is compatible with a wide variety of tube shapes, including round, square, rectangular, and custom profiles

- Round Tube :  $\phi 10 - \phi 120$
- Square Tube :  $\square 10 - \square 120$



The side-hanging machine bed adopts a triangular structural design that enhances machine stability and enables faster, more efficient material loading and unloading. Equipped as standard on the TA Series, the variable-diameter wheel support system greatly improves the processing accuracy when handling a variety of tube sizes.

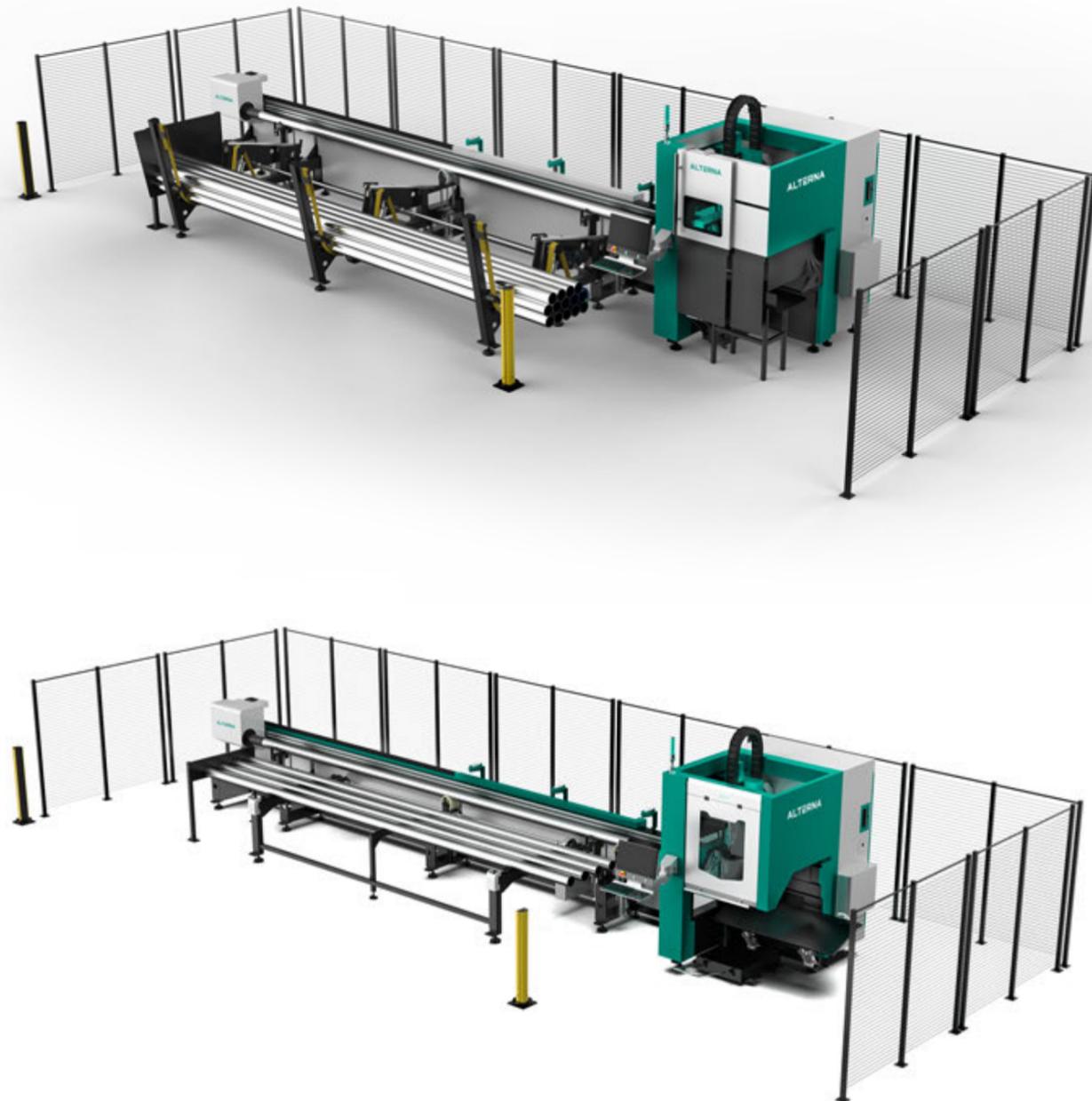
## Loading and Unloading Systems (Optional)

The system is user-friendly and supports versatile profile loading, including round, square, and rectangular tubes.

It comes with multiple follow-up unloading racks that move synchronously with the tube profile, boosting material discharge efficiency.

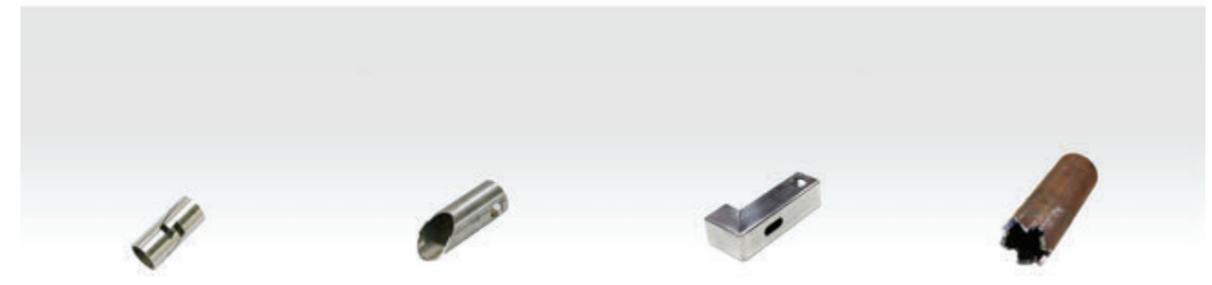
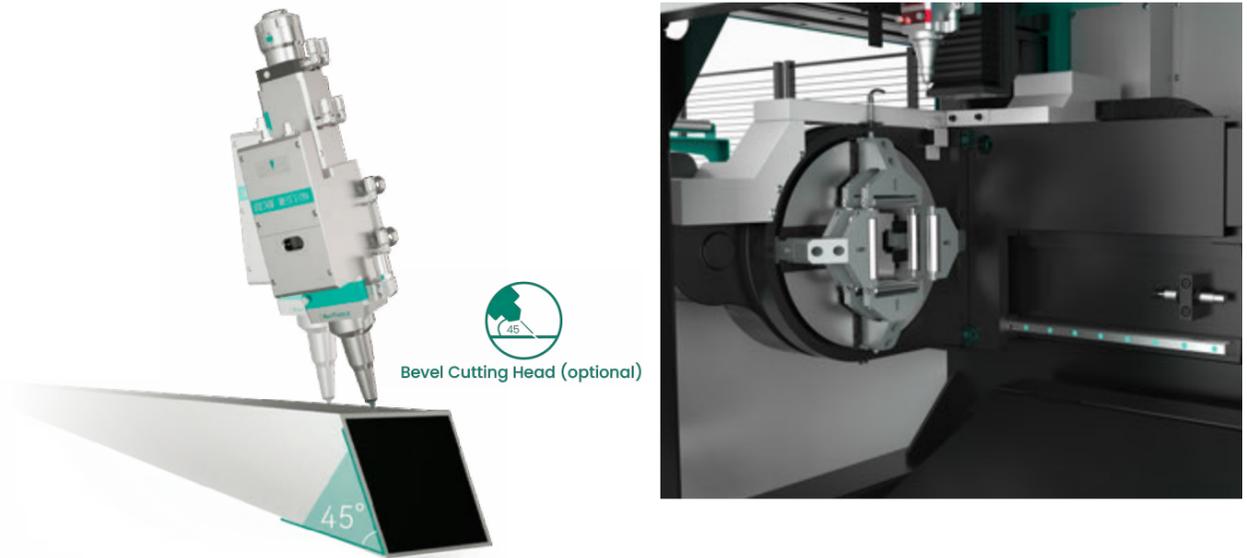
The modular rack design allows for flexible customization based on production needs, helping clients reduce acquisition and operational costs.

An automatic tube detection function enables hands-free batch loading, resulting in up to 40% improvement in overall processing efficiency.



## ±45° bevel cutting (Optional)

With optional bevel cutting from -45° to +45°, the system allows for precise edge preparation based on part geometry. It supports a variety of bevel types, including simple V- and X-seams, as well as more complex V- or K-joints, making it ideal for welding applications that require high precision.



MODEL	Pipe Processing Range	Laser Power	Tail Length	Maximum Acceleration	Max. Chuck Speed	Maximum Single Tube Loading Weight
TA SERIES	φ10-120mm □10-120mm Pipe Processing Length 6500mm	1500W-3000W	≤60mm	1.5G	180r/min	80kg



# TB Series Medium Diameter Tube & Pipe Laser Cutting Machine

• TB Series (Ø240 Medium Diameter Tube Laser Cutting Machine) specially designed and offered by ALTERNA to meet user needs, is tailored for high-speed cutting of large batches of small and medium-sized tube materials in various shapes and sizes. It ensures precise and reliable processing of round, square, angle iron, channel steel, H-beams, I-beams, and custom-profile tubes, made from stainless steel, carbon steel, and other metals—making it an efficient solution for diverse industrial applications.

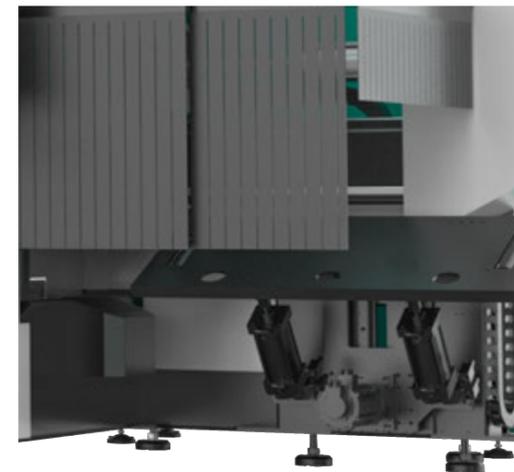


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- ◆ Full Stroke Precision Square Hole Chuck.
- ◆ Side-Mounted Machine Bed
- ◆ Cuts Over 90% of Common Industrial Tube Profiles
- ◆ Enhanced Load-Bearing Capacity
- ◆ Power & Precision



The loading system operates through an intelligent loading program, enabling fully automatic material feeding. Operators simply place the tubes on the platform—eliminating manual handling, reducing safety risks, and significantly improving overall efficiency.



The support and unloading system ensures smooth, stable, and safe material discharge. Working in tandem with a set of follow-up unloading racks, it can automatically unload workpieces up to 1.5 meters in length—minimizing manual handling risks and greatly enhancing tube material flow efficiency. Its components also feature excellent wear resistance, ensuring long-term durability.

MODEL	Pipe Processing Range	Laser Power	Tail Length	Maximum Acceleration	Max. Chuck Speed	Maximum Single Tube Loading Weight
TB SERIES	φ10-240mm □10-220mm Pipe Processing Length 6500mm	1500W-6000W	≤90mm	1.0G	140r/min	300kg

# TC Series

## Three Chucks Large Diameter Tube & Pipe Laser Cutting Machine

TC Series (Ø360 Three Chuck Large Diameter Tube Laser Cutting Machine), specially designed and offered to meet user needs by ALTERNA, is engineered for the high-speed, high-precision processing of longer and thicker metal tubes in a wide range of shapes and sizes. It delivers reliable cutting performance on round, square, angle iron, channel steel, H-beams, I-beams, and various custom-profile tubes made from stainless steel, carbon steel, and other metals—making it the perfect solution for heavy-duty industrial applications.

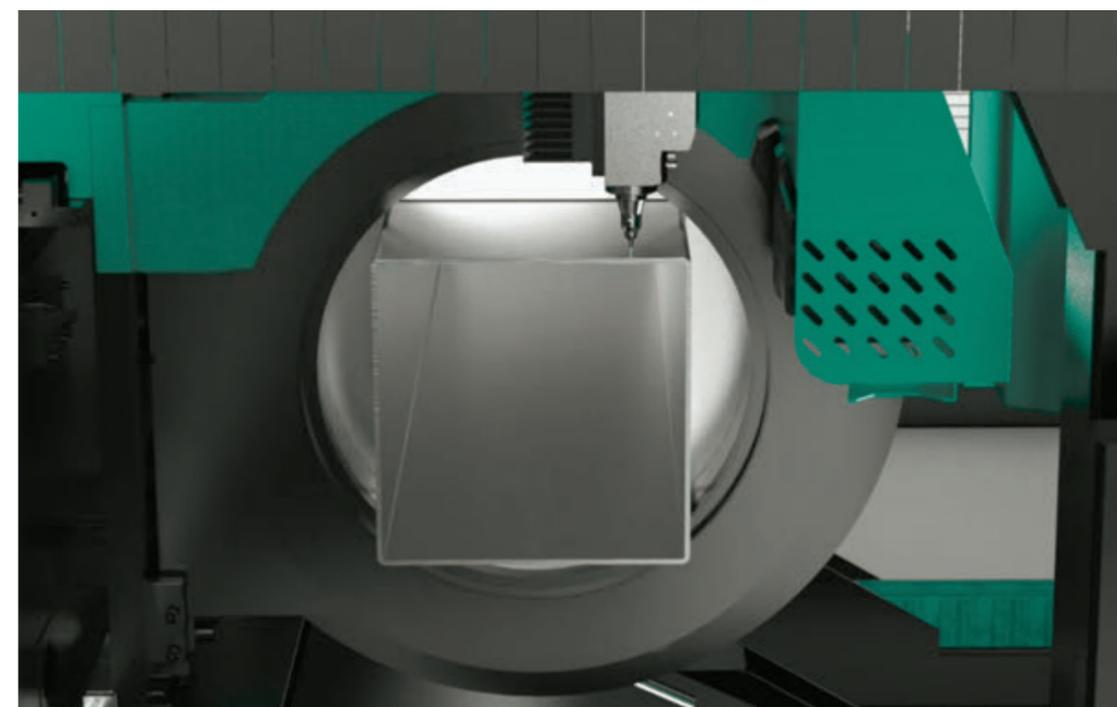
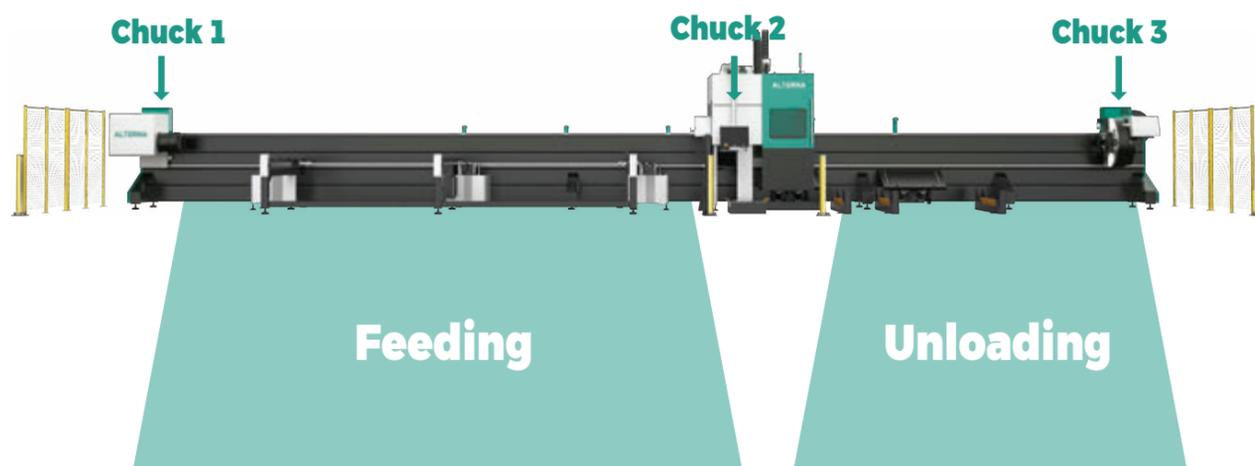


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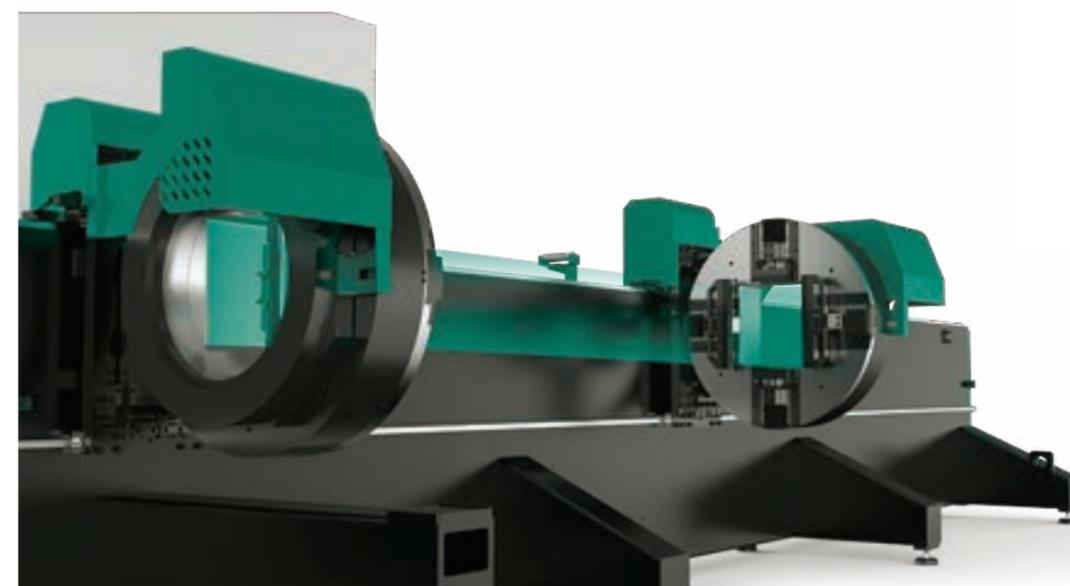
- ◆ 360 mm Heavy-Duty Triple Chuck System 360mm
- ◆ Smart Automation for Lower Operational Costs
- ◆ Zero Waste Material Processing
- ◆ Diversified Cutting Techniques
- ◆ Ultra-High Load Capacity

The TC Series offers a full range of material handling capabilities with zero-tail cutting, maximizing material utilization. Its three independently movable chucks ensure secure and non-damaging clamping and pulling, allowing for precise processing of large and heavy tubes without deformation.



### Zero Waste Processing

The independently movable triple chuck system enables non-damaging clamping and pulling of pipes, ensuring precise positioning and enabling zero-tail cutting for maximum material utilization.

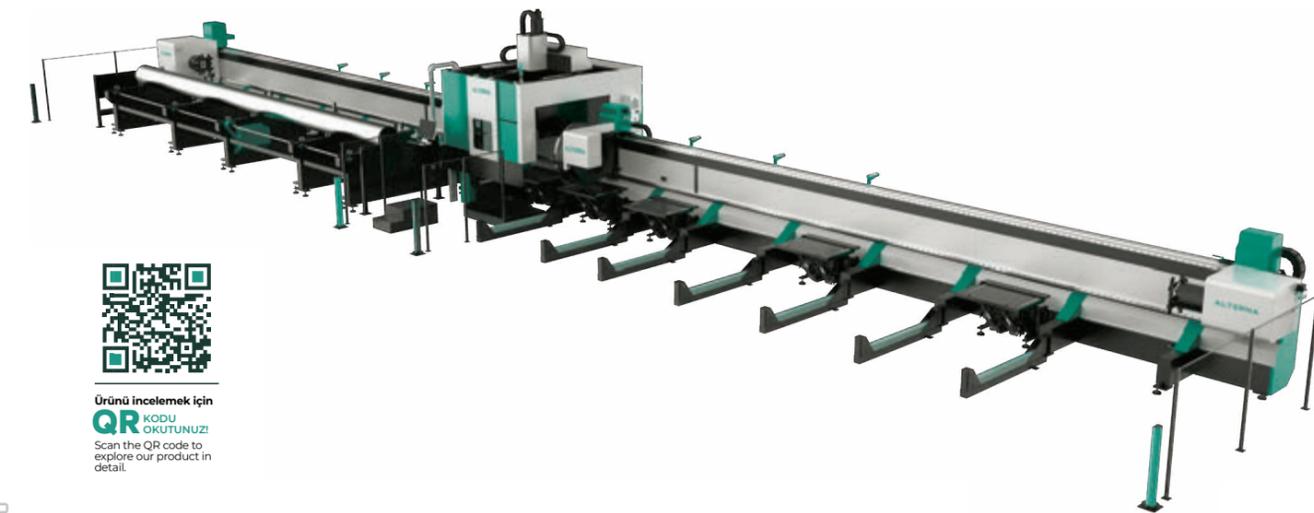
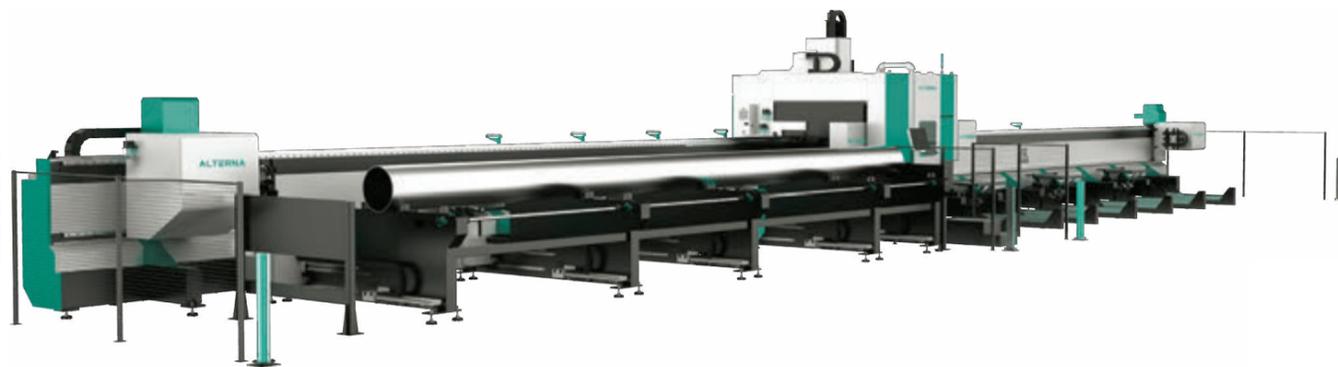


Heavy-duty three chuck  
Available in 360 mm size, it delivers strong clamping force for stable, precise cutting of large-diameter tubes.

MODEL	Pipe Processing Range	Laser Power	Tail Length	Maximum Acceleration	Max. Chuck Speed	Maximum Single Tube Loading Weight
TC SERIES	φ20-360mm □20-360mm Pipe Processing Length 12000mm	6000W-12000W	0	0.6G	60r/min	1000kg

# TD Series Four Chucks Large Diameter Tube & Pipe Laser Cutting Machine

The TD Series (Ø500 four chuck large diameter tube laser cutting machine), specially designed and offered by ALTERNA to meet advanced processing needs, is built for high-speed and high-precision cutting of larger, longer, and heavier metal tubes in a wide range of shapes and sizes. It ensures stable and efficient cutting of round, square, angle iron, channel steel, H-beams, I-beams, and special-shaped profiles, made from stainless steel, carbon steel, and other industrial-grade metals.



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- ◆ Ton-Level Load Capacity
- ◆ 500mm Heavy-Duty Four Chucks
- ◆ Zero Excess Materials Processing
- ◆ Safety Enhancement
- ◆ Diversified Cutting Techniques

## Heavy-Duty Four Movable Chucks

Coordinated clamping and support by four chucks ensures exceptional stability and control, effectively overcoming the challenges of processing extra-long and ultra-heavy pipes with precision and safety.



## ±45° Bevel Cutting (Optional)

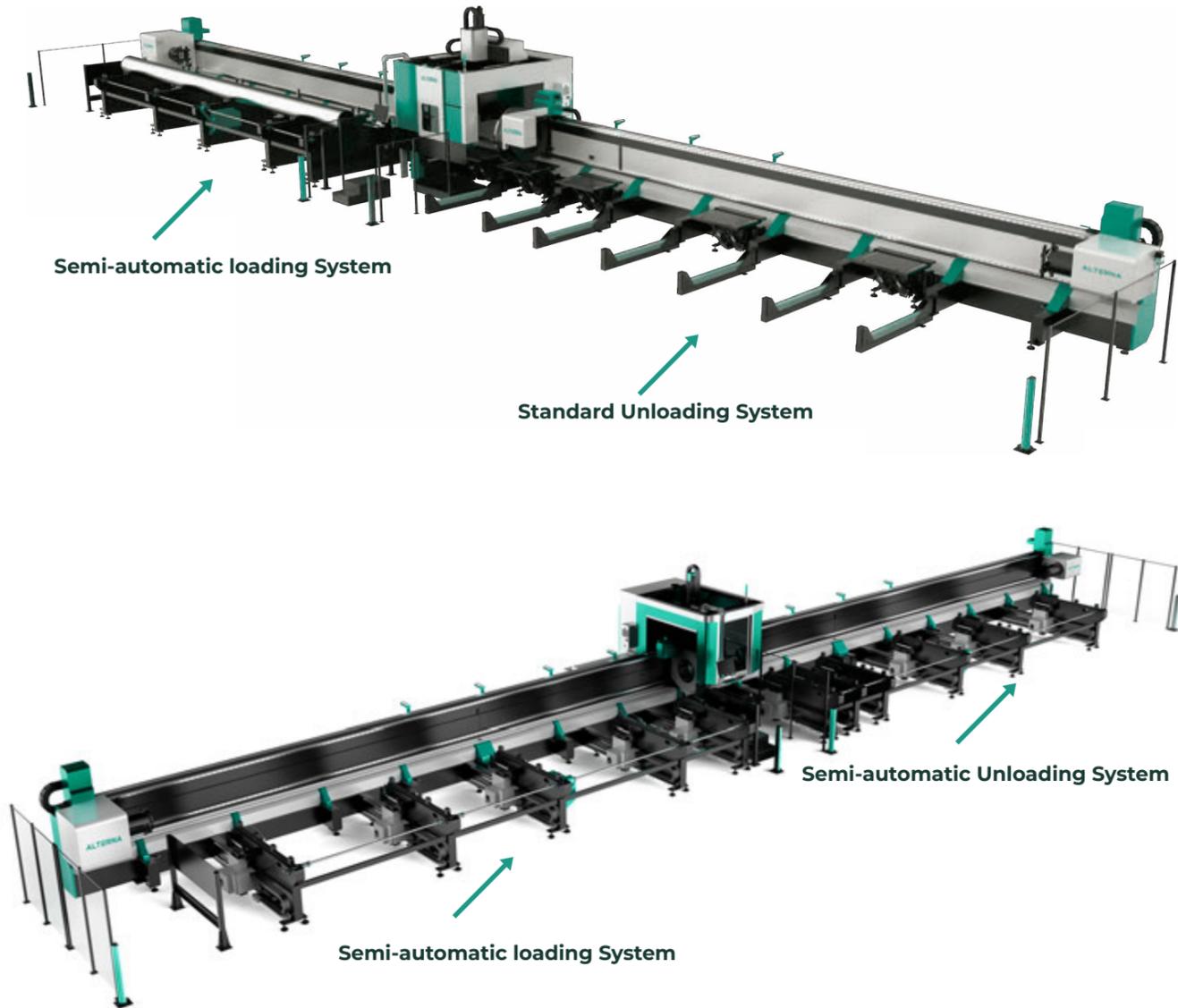
The system can be equipped with bevel cutting from -45° to +45°, enabling precise edge preparation. Depending on the part geometry, it supports simple V- and X-seams, as well as more complex V- or K-type bevels, meeting the demands of advanced welding applications.



Bevel Cutting Head (optional)

Intelligent automation

Standard semi-automatic loading and follow-up unloading racks significantly reduce overall loading and unloading time, offering a more efficient workflow while effectively lowering labor costs.



# FW Series Handheld Fiber Laser Welding Machine

The FW Series is a portable fiber welding machine designed and launched by Alterna, standing out with its flexibility and ease of use. A single device performs welding, cutting, and post-weld surface cleaning operations with precision. It is specially developed for joining, cutting, and surface cleaning of thin and medium-thickness metal materials such as carbon steel, stainless steel, aluminum alloys, galvanized sheets, and electrolytic sheets—delivering clean, accurate, and efficient results.

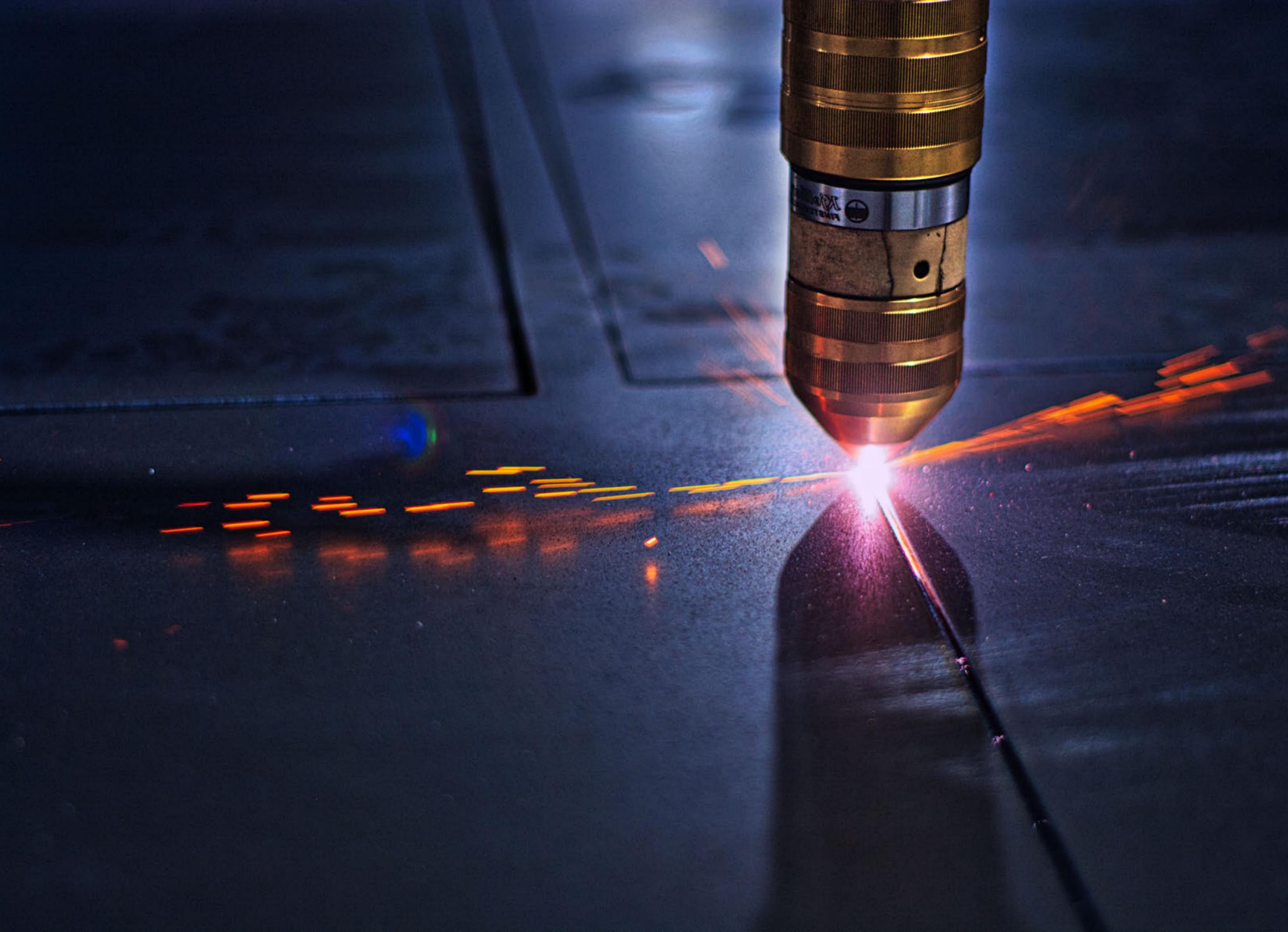


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 <p><b>LASER SOURCE</b></p> <ul style="list-style-type: none"> <li>• High electro-optical conversion efficiency</li> <li>• Wide frequency modulation range</li> <li>• High-quality beam quality</li> </ul>	 <p><b>LASER WELDING GUN</b></p> <ul style="list-style-type: none"> <li>• Safe and foolproof</li> <li>• Time-saving and efficient</li> <li>• Aesthetically pleasing welding</li> </ul>
 <p><b>WATER CHILLER</b></p> <ul style="list-style-type: none"> <li>• Dual cooling function</li> <li>• Real-time alarm</li> <li>• Machine protection</li> </ul>	 <p><b>SINGLE WIRE FEEDER</b></p> <ul style="list-style-type: none"> <li>• Supports a variety of wire feeding modes</li> <li>• Wide range of applications</li> <li>• Ensures stable results</li> </ul>

MODEL	Pipe Processing Range	Laser Power	Tail Length	Maximum Acceleration	Max. Chuck Speed	Maximum Single Tube Loading Weight
TD SERIES	φ50-500mm □50-500mm Pipe Processing Length 12000mm	6000W-12000W	0	0.4G	40r/min	2000kg

MODEL	Laser Power	Fiber Length	Welding Depth	Overall Power	Power Input	Cooling Mode
FW 1500	1500W	10m	0.5-4mm	4kW	220V	Water Chiller
FW 2000	2000W	10m	0.5-5mm	5.5kW	220V	Water Chiller
FW 3000	3000W	10m	0.5-6mm	6.5kW	380V	Water Chiller



# FC Series

## Single Table Tube & Sheet Fiber Laser Cutting Machine

- Versatile and compact, this single table fiber laser machine offers seamless cutting for both tubes and sheets on a single platform. Designed for flexibility and speed, it ensures precise results with minimal setup time. Ideal for manufacturers seeking space-saving efficiency without compromising on cutting quality.

# FD Series

## Enclosed Design Tube & Sheet Fiber Laser Cutting Machine

- With its fully enclosed design, this double table fiber laser cutting machine maximizes safety and cleanliness while combining tube and sheet cutting in one highly efficient system. The automatic table exchange enables uninterrupted operation, delivering high-precision cuts with consistent quality. It's the perfect solution for manufacturers seeking fast, safe, and versatile industrial performance.



MODEL	FC 3015	FC 4015
Processing Area	3000x1500mm	4000x1500mm
Pipe Processing Range	φ20-240mm □20-240mm Pipe Processing Length 6500mm	φ20-240mm □20-240mm Pipe Processing Length 6500mm
Laser Power	1500W-6000W	1500W-6000W
Positioning Accuracy	±0,03mm/m	±0,03mm/m
Repeated Positioning Accuracy	±0,03mm/m	±0,03mm/m
Maximum Cutting Speed	100m/min	100m/min
Maximum Acceleration	1.0G	1.0G

MODEL	FD 3015	FD 4020
Processing Area	3000x1500mm	4000x2000mm
Pipe Processing Range	φ20-240mm □20-240mm Pipe Processing Length 6500mm	φ20-240mm □20-240mm Pipe Processing Length 6500mm
Laser Power	1500W-6000W	1500W-6000W
Positioning Accuracy	±0,03mm/m	±0,03mm/m
Repeated Positioning Accuracy	±0,03mm/m	±0,03mm/m
Maximum Cutting Speed	100m/min	100m/min
Maximum Acceleration	1.0G	1.0G



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# F Loader Series Automatic Loading and Unloading System

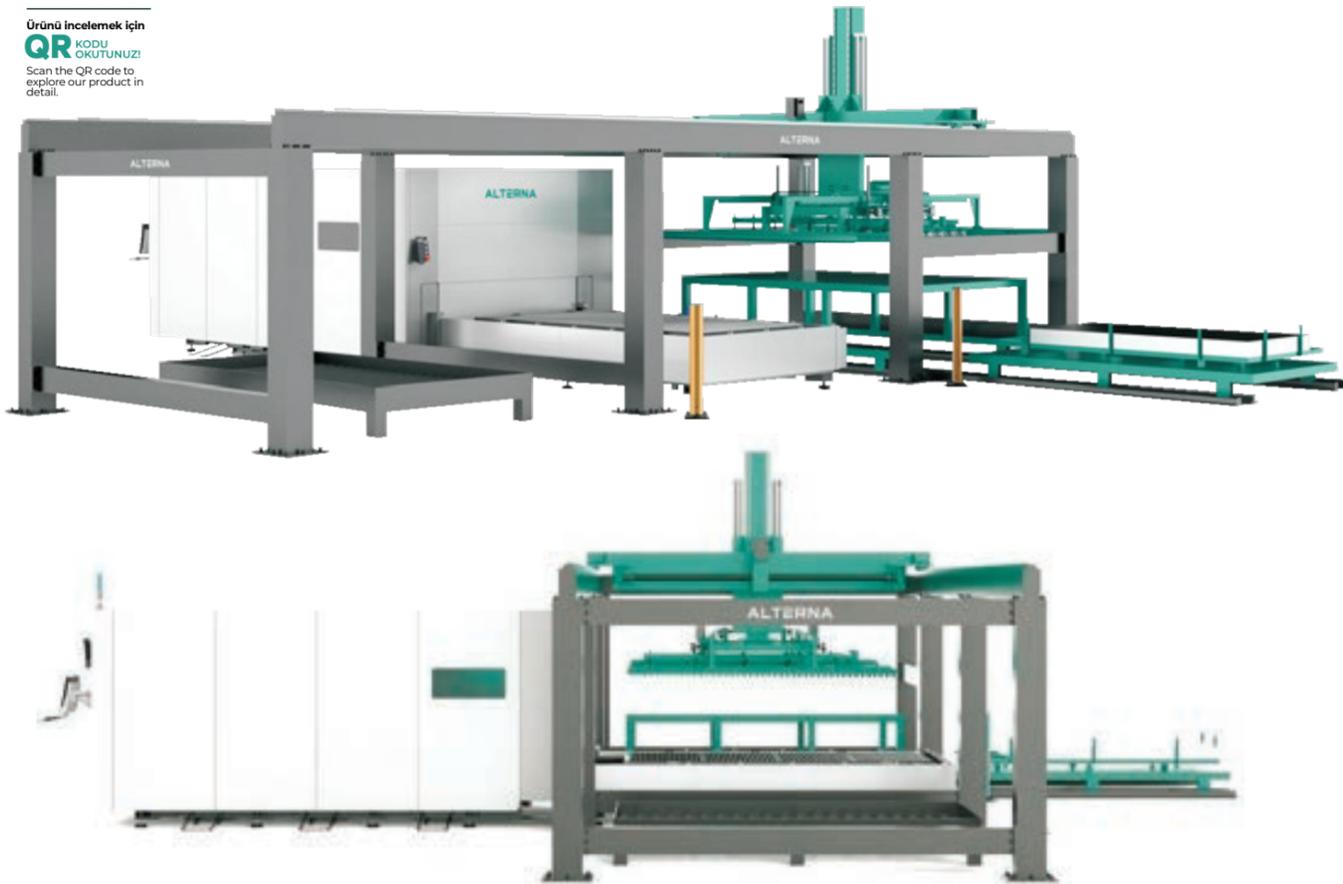
• Our Flexible Automatic Loading and Unloading Cutting Line delivers high-speed cutting with maximum efficiency and minimal labor. Optimized to respond quickly to changing production demands, this smart system enables seamless transitions between different part sizes and shapes, ensuring flexibility and continuity on your production floor. Its advanced control infrastructure integrates smoothly with central production management systems, maximizing process efficiency. With a user-friendly interface and intelligent automation options, it minimizes the need for operator intervention. Easy to install and manage, the system allows for rapid deployment and a quick start to production.

# F Tower Series Storage and Loading-Unloading Tower

• Our Storage Tower system enables organized and secure stacking of sheet metal, helping you utilize your production space more effectively. Seamlessly integrated with automated loading and unloading systems, it saves time during production, reduces human error, and enhances workplace safety. With its multi-level structure, it offers maximum storage in minimal space, while the intelligent control system ensures the right material is delivered to the right machine at the right time.



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MODEL	Processing Area	Laser Power	Maximum Cutting Speed	Maximum Acceleration	Rated Load Weight	Max. Sheet Thickness	Air Supply Pressure	Air Consumption
LOADER 3000	3000X1500mm	3000W-6000W	120m/min	1.5G	200kg-1000kg	10.0mm	0.55MPa	1.5m <sup>3</sup> /min
LOADER 4000	4000X2000mm	3000W-6000W	120m/min	1.5G	200kg-1000kg	10.0mm	0.55MPa	1.5m <sup>3</sup> /min

MODEL	Plate Loading Thickness	Max. Sheet Metal Size	Min. Sheet Metal Size	Max. Speed of Horizontal Movement-X	Max. Speed of Vertical Movement-Z	X-axis Stroke	Z-axis Stroke
TOWER3000	1-5mm	3000x1500mm	1000x1000mm	36m/min	15m/min	8000mm	950mm
TOWER4000	1-5mm	4000x2000mm	1000x1000mm	36m/min	15m/min	8000mm	950mm
TOWER6000	1-5mm	6000x2000mm	1000x1000mm	36m/min	15m/min	8000mm	950mm



# Press Brake



# APC HYDRAULIC CNC PRESS BRAKE

- Modern & dynamic design, CNC hydraulic press brake that combines sleek aesthetics with industrial power built for speed, precision, and longlasting structural integrity.
- Advanced electro-hydraulic control, closed-loop servo system ensures perfect synchronization of the upper ram (Y1-Y2), delivering smooth, consistent bends in every cycle.
- Crowning system, mechanical compensation and throat deformation adjustment maintain exact bending angles and superior strength across the entire work length.
- High-precision backgauge, driven by a digital servo motor with ball screw and linear guide technology, offering fast, repeatable positioning for flawless part alignment.



### QUALITY CONTROL

In line with our high quality standards, our machines are secured through rigorous testing and meticulous quality control before being delivered.



- Different tonnage and bending length options.
- Optional features and auxiliary axes.
- Various configuration possibilities.



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### STANDARD FEATURES

- HOERBIGER(HAWE) hydraulic valves
- Y1, Y2, X and Crowning axes as standard(3+1)
- Ball screw linear guide (backgauge)
- DELEM/ESA/CYBELEC control units
- SIEMENS/WN main motor
- GIVI MISURE linear scales for Y1 and Y2 axes
- SCHNEIDER electrical components
- European type punch and die holder
- Fast clamp
- Foot pedal with emergency stop button
- Side and back safety gates
- Backgauge fingers moving with linear guide
- Amada type standard punch and die



High Quality Cylinders

High-precision machining, oil seal for leak-proof performance,robust construction, high-strength steel body, wear and corrosion resistance.



Have Valve-Germany

Equipped with HAWE's integrated hydraulic valve (Germany) to maintain precise bending performance.



Main Motor

The powerful main motor provides stable torque output, supporting precise and efficient bending even under heavy workloads.



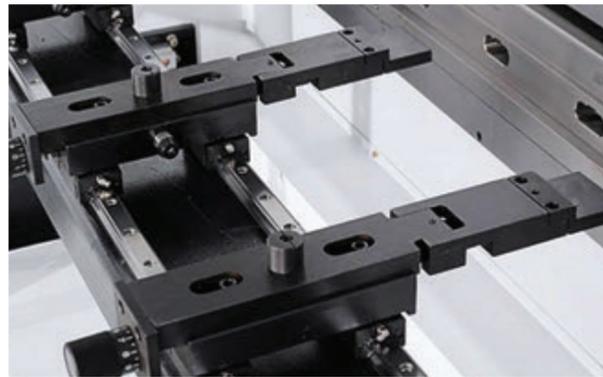
Dual Linear Guide

The front support arm with dual linear guides ensures stable and smooth material handling.



Fast Clamp

The standard fast clamp allows quick punch changes, reducing setup time and boosting efficiency.



Backgauge Finger

The APC Series CNC press brake is equipped with three backgauge fingers, each offering four adjustable positioning ranges.



X Axis Backgauge

The X-axis backgauge system ensures precise positioning of the workpiece, allowing accurate and repeatable bending operations—ideal for both single parts and batch production.



Motorized Crowning

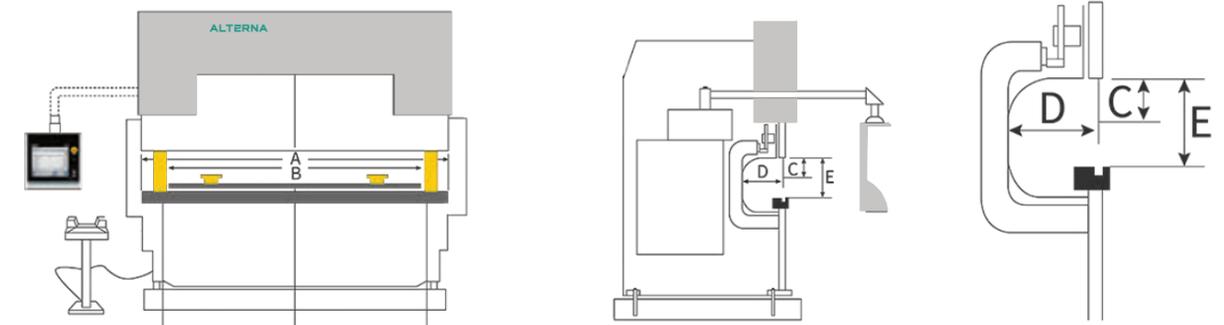
The motorized crowning system ensures consistent bending angles across the entire length, even with long or thick materials. Automatically adjusting without the need for manual input, it saves time and minimizes operator errors.



Rear Safety Doors

Equipped with a safety interlock system, the rear door prevents access while the machine is in operation, ensuring maximum protection. The safety switch automatically cuts power when the rear door is opened, reducing the risk of accidents during service.

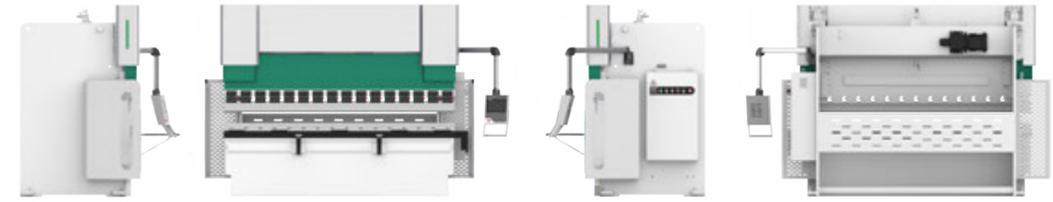
MODEL	Bending Length (A)	Approaching Speed	Working Speed	Return Speed	X-Axis Stroke	R-Axis Stroke	Distance Between Columns (B)	Throat Depth (D)	Stroke (C)	Daylight (E)	Main Motor
	mm	mm/s	mm/s	mm	mm	mm	mm	mm	mm	mm	kW
50T/1300	1300	160	13	160	500	200	1120	250	150	460	5.5
50T/1600	1600	160	13	160	500	200	1300	250	150	460	5.5
70T/2500	2500	220	13	160	500	200	2050	300	150	460	5.5
80T/2500	2500	220	12	145	500	200	2050	300	150	460	7.5
110T/2500	2500	220	12	160	500	200	2050	400	200	480	11
110T/3200	3200	220	12	160	500	200	2700	400	200	480	11
110T/4000	4000	220	12	160	500	200	3100	400	200	480	11
110T/4100	4100	220	12	160	500	200	3600	400	200	480	11
135T/3200	3200	220	10	130	500	200	2700	400	200	480	11
135T/4000	4000	220	10	130	500	200	3100	400	200	480	11
135T/4100	4100	220	10	130	500	200	3600	400	200	480	11
170T/3200	3200	160	10	100	500	200	2700	450	200	480	15
170T/4000	4000	160	10	100	500	200	3100	450	200	480	15
170T/4100	4100	160	10	100	500	200	3600	450	200	480	15
220T/3200	3200	160	9	105	500	200	2600	450	200	480	18.5
220T/4000	4000	160	9	105	500	200	3100	450	200	480	18.5
250T/3200	3200	100	8.5	100	500	200	2600	450	250	540	22
250T/4000	4000	100	8.5	100	500	200	3100	450	250	540	22





# APH HYBRID PRESS BRAKE

- Experience the perfect blend of performance and control with our state of the art hybrid press brake. Designed for modern production needs, it delivers fast, accurate, and consistent results—every time.
- Sleek and robust design combines high-speed operation with outstanding bending precision and long-term durability.
- Advanced electro-hydraulic servo system with closed-loop control ensures smooth, synchronized ram movement for flawless bends.
- Intelligent crowning system guarantees perfect angles, even on long or thick materials.
- High-precision backgauge driven by a digital servo motor, equipped with ball screw and linear guide technology for exact and repeatable positioning.



A complete product portfolio offering a wide range of tonnages and bending lengths to meet diverse production needs.

The electro-hydraulic system ensures high synchronization of the dual cylinders, delivering exceptional accuracy in both bending and repositioning.

PRESS BRAKE



PRESS BRAKE

## STANDARD FEATURES

- 25% less energy consumption
- Low noise during pressing and return
- Quiet, waiting and fast down
- EU streamlined design
- Hydraulic synchronization control
- HOERBIGER(HAWE)/BOSCH-REXROTH hydraulic valves
- Y1, Y2 , X , R and Crowning axes as standard
- Ball screw linear guide (backgauge)
- DELEM/ESA/CYBELEC control units
- SIEMENS main motor
- GIVI MISURE linear scales for Y1 and Y2 axes
- SCHNEIDER electrical components
- European type punch and die holder
- Fast clamp



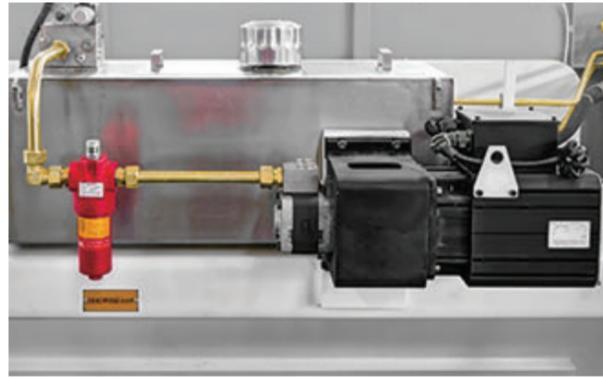
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The integrated hydraulic control system minimizes piping, prevents oil leakage, enhances overall stability, and contributes to a cleaner, more refined machine design.

The servo-driven hydraulic pump significantly reduces energy consumption—offering up to 25% savings over conventional AC motor systems.

PRESS BRAKE

ALTERNA



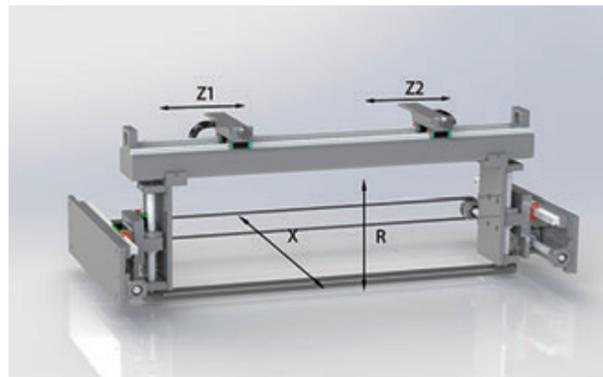
Servo Main Motor

The servo motor, as the main power source of the press brake, ensures precise bending control and quick response times for consistently accurate results.



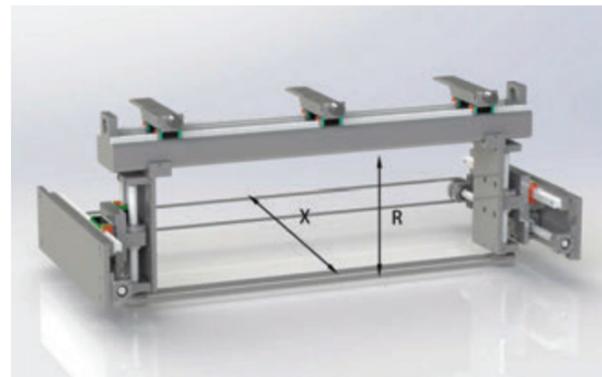
Brush Front Support (optional)

Brushed front support minimizes surface damage on the sheet, ensuring clean processing and reliable positioning throughout the operation.



X-R-Z1-Z2 Back Gauge

The back gauge system equipped with X, R, Z1, and Z2 axes allows for precise, multi-dimensional positioning of the material, enabling flexible and accurate bending operations even for complex or asymmetrical parts.



X-R Back Gauge

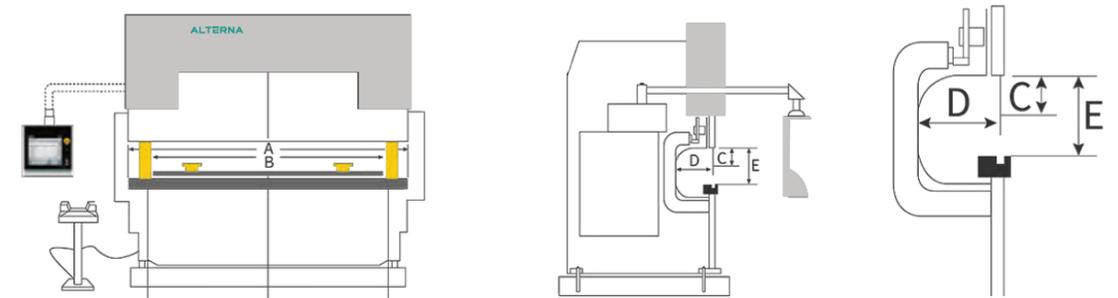
With X-axis for front-back movement and R-axis for vertical adjustment, the advanced back gauge system delivers excellent versatility and repeatability in every bend.



Tandem Press Brake Solutions

AP-Sheet Follower front support

MODEL	Bending Length (A)	Approaching Speed	Working Speed	Return Speed	X-axis Stroke	R-axis Stroke	Distance Between Columns (B)	Throat Depth (D)	Stroke (C)	Daylight (E)	Main Motor
	mm	mm/s	mm/s	mm	mm	mm	mm	mm	mm	mm	kW
50T/1300	1300	160	0-15	200	500	200	1120	250	150	460	6
50T/1600	1600	160	0-15	200	500	200	1300	250	150	460	6
70T/2500	2500	220	0-15	200	500	200	2050	300	150	460	6
80T/2500	2500	220	0-15	185	500	200	2050	300	150	460	8.7
110T/3200	3200	220	0-15	200	500	200	2700	400	200	480	10.8
110T/4000	4000	220	0-15	200	500	200	3100	400	200	480	10.8
110T/4100	4100	220	0-15	200	500	200	3600	400	200	480	10.8
135T/3200	3200	220	0-13	160	500	200	2700	400	200	480	10.8
135T/4000	4000	220	0-13	160	500	200	3100	400	200	480	10.8
135T/4100	4100	220	0-13	160	500	200	3600	400	200	480	10.8
170T/3200	3200	160	0-12	130	500	200	2700	450	200	480	13.2
170T/4000	4000	160	0-12	130	500	200	3100	450	200	480	13.2
170T/4100	4100	160	0-12	130	500	200	3600	450	200	480	13.2
220T/3200	3200	160	0-12	135	500	200	2600	450	200	480	16.7
220T/4000	4000	160	0-12	135	500	200	3100	450	200	480	16.7
220T/5000	5000	160	0-12	135	500	200	4000	450	200	480	16.7
220T/6000	6000	160	0-12	135	500	200	4800	450	200	480	16.7
250T/3200	3200	100	0-11	135	500	200	2600	450	250	540	16.7
250T/4000	4000	100	0-11	135	500	200	3100	450	250	540	16.7
250T/5000	5000	100	0-11	135	500	200	3800	450	250	540	16.7
250T/6000	6000	100	0-11	135	500	200	4800	450	250	540	16.7
300T/3200	3200	100	0-11	130	500	200	2600	500	250	570	21.4
300T/4000	4000	100	0-11	130	500	200	3100	500	250	570	21.4
300T/5000	5000	100	0-11	130	500	200	3800	500	250	570	21.4
300T/6000	6000	100	0-11	130	500	200	4800	500	250	570	21.4

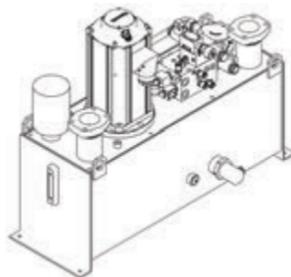
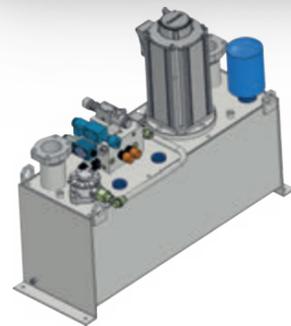


# APH+ FULL HYBRID PRESS BRAKE

- Dual Servo Motor Hybrid Press Brake – Precision Meets Power
- Engineered with two independent main servo motors, this hybrid press brake offers unmatched synchronization, energy efficiency, and bending precision.
- Each motor controls one side of the ram (Y1-Y2), allowing perfectly balanced motion, faster cycle times and ultra-consistent results—even on long or asymmetrical workpieces.
- With minimized hydraulic usage and intelligent control, it combines the best of servo efficiency and hydraulic force.



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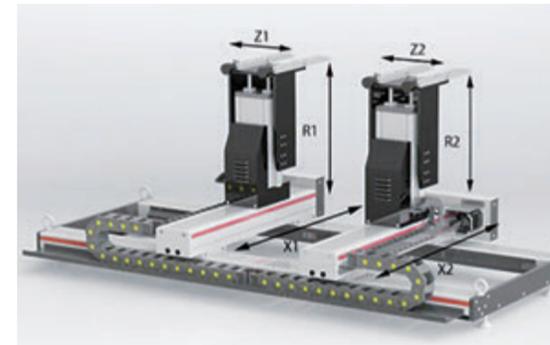
### Hybrid System

Servo-hydraulic press brakes, used for precise bending of metal sheets, are equipped with variable speed drives for energy efficiency and productivity. Thanks to the use of intelligent drives and optimal setpoints for torque and rotational speed, the motor-pump system delivers performance tailored to the needs of each phase of the cycle.

The higher the proportion of operation at partial load, the greater the potential for savings, as only the energy needed for moving the masses and bending during the cycle is consumed. The components required for the servo-hydraulic drive are configured according to specific requirements based on the principle of modular design. Additionally, the system can be extended with tool clamping and/or crowning. Servo-hydraulic systems are part of the energy reduction strategy for machines and systems.



Servo Main Motor



X1-X2-R1-R2-Z1-Z2 axes Back Gauge(Optional)



MODEL	Bending Length (A)	Approaching Speed	Working Speed	Return Speed	X-Axis Stroke	R-Axis Stroke	Distance Between Columns (B)	Throat Depth (D)	Stroke (C)	Daylight (E)	Main Motor
	mm	mm/s	mm/s	mm	mm	mm	mm	mm	mm	mm	kW
70T/2500	2500	300	30	260	500	200	2050	300	150	460	2*5.5
110T/3200	3200	300	23	260	500	200	2700	400	200	480	2*5.5
110T/4000	4000	300	23	300	500	200	3100	400	200	480	2*5.5
135T/3200	3200	270	20	250	500	200	2700	400	200	480	2*7.5
135T/4000	4000	270	20	250	500	200	3100	400	200	480	2*7.5
170T/3200	3200	250	15	220	500	200	2700	450	200	480	2*7.5
170T/4000	4000	250	15	220	500	200	3100	450	200	480	2*7.5
220T/3200	3200	200	20	200	500	200	2600	450	200	480	2*11
220T/4000	4000	200	20	200	500	200	3100	450	200	480	2*11
250T/3200	3200	200	15	200	500	200	2600	450	250	540	2*11
300T/3200	3200	150	12	150	500	200	2600	500	250	570	2*11



# APS

SERVO PRESS BRAKE



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detail.

## STANDARD FEATURES

- Up to 35% lower energy consumption compared to conventional systems
- Low noise levels during pressing and return strokes for a more comfortable working environment
- Silent standby mode and high-speed downward motion for improved efficiency
- Streamlined industrial design with refined European aesthetics
- High-precision Y1/Y2 positioning using optical or magnetic linear scales
- Closed-loop feedback system enables consistent and highly accurate bending results
- Fully electric servo drive system ensures fast response and maximum bending efficiency
- Y1, Y2, and X axes included as standard configuration
- Back gauge equipped with ball screw and linear guide for precise positioning
- Linear scales on Y1 and Y2 axes by GIVI MISURE for excellent repeatability
- Premium SCHNEIDER-brand electrical components ensure long-lasting reliability
- European-style punch and die holders for easy tool installation

## All-Electric Servo CNC Bending Machines: Precision Without Compromise

Our all-electric servo CNC press brakes set a new standard in sheet metal bending, delivering unmatched accuracy, dynamic performance, and intelligent design for today's manufacturing demands.

The machine features exceptional bending speed and precision, supported by an ergonomic design and modern industrial aesthetics for optimal user experience.

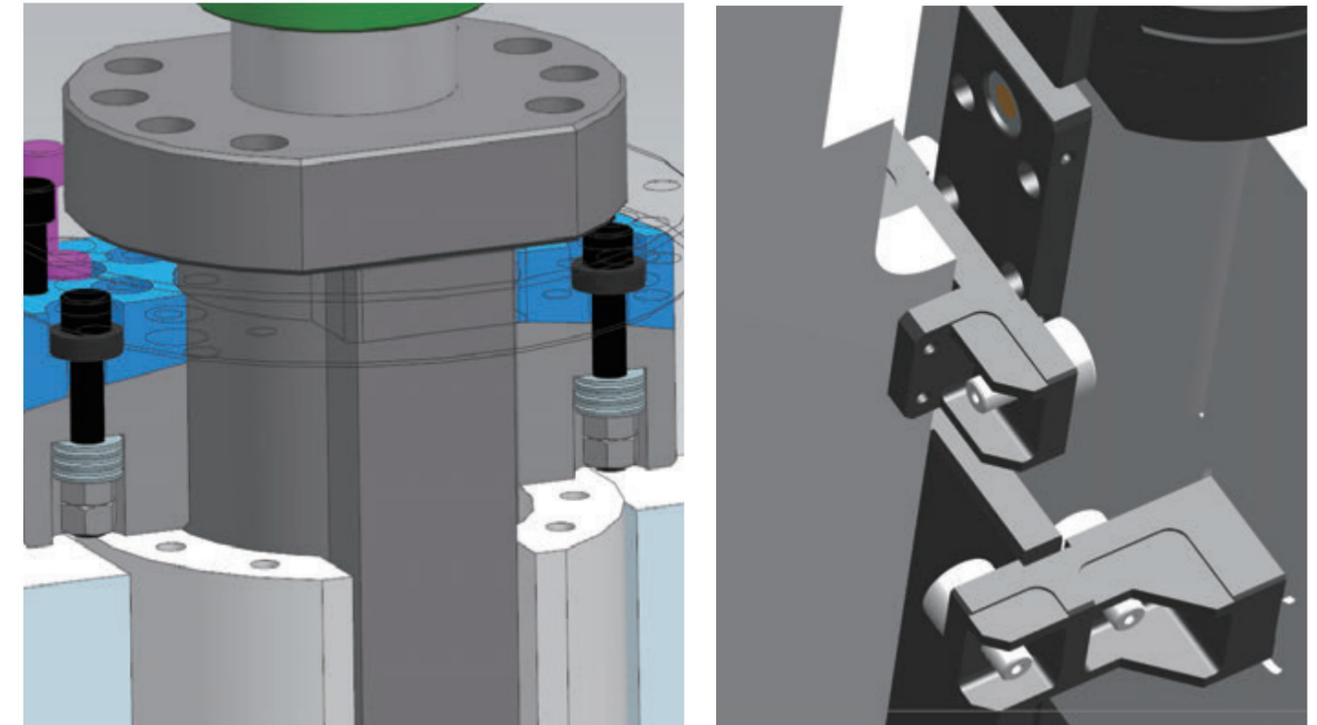
Equipped with a dual-servo drive system, high-performance large-caliber ball screws and a wheel-guided mechanism, it ensures smooth and stable bending even under heavy workloads.

The machine body, including the ram, frame, and vertical plates, is built with high-end manufacturing technology to guarantee long-term durability and consistent motion accuracy.

The use of a large-diameter screw and self-aligning arc mechanism ensures smooth guidance and balance of the ram, even during off-center bending operations. A closed-loop position control system with dual linear scales ensures high repeatability and exact positioning in every cycle.

The fully automatic lubrication system eliminates manual maintenance and keeps critical components in optimal condition for decades.

A reliable, quiet, and oil-free solution designed for precision-focused production environments.





• Dual-load ball screw structure ensures superior efficiency and precision by maintaining a rigid, tightly integrated connection between the bearing seat and the machine frame.



• The dual grating ruler system ensures superior synchronization and structural stability, effectively preventing accuracy loss caused by guide rail wear.

MODEL	Bending Force	Bending Length	Approaching Speed	Working Speed	Return Speed	X-Axis Stroke	Distance Between Columns	Throat Depth	Stroke	Open Height	Main Motor
	Kn	mm	mm/s	mm/s	mm/s	mm	mm	mm	mm	mm	kW
10T/400	100	400	200	1-30	200	200	320	200	200	420	3.1
10T/500	100	500	200	1-30	200	200	450	175	200	420	3
12T/600	120	600	200	1-30	200	200	520	200	200	420	5.5
14T/500	140	500	200	1-30	200	200	450	175	200	420	5.5
14T/600	140	600	200	1-30	200	200	450	175	200	420	7.5
20T/1200	200	1200	200	0.15-50	200	400	920	200	150	420	2X5.5
40T/1600	400	1600	200	0.15-30	250	400	1250	255	150	420	2X15
60T/2000	600	2000	200	0.15-30	250	500	1600	300	200	470	2X20
80T/2500	800	2500	200	0.15-30	200	500	2000	460	200	470	2X25
100T/3200	1000	3200	200	0.15-30	200	500	2700	460	200	470	2X25

### Control Units



MODEL	Axis	Screen	2D Graphic View	2D Drawing	3D Graphic View	3D Graphical Programming	3D Drawing	Automatic Bending Sequence And Collision Check	Hard Disk	Operation System	Offline Software
	mm	mm/s	mm/s	mm	mm	mm	mm	mm	mm	mm	kW
S875W	4-128	21"	+	+	+	+	+	+	256GB	Windows	3D
S860W	4-8	18.6"	+	+	+	optional	optional	+	256GB	Windows	2D
S840	4-6	15"	+	+	-	-	-	+	512MB	-	2D
S830	3-4	10"	+	+	-	-	-	+	512MB	-	2D
S640	4-6	15"	+	+	-	-	-	+	512MB	-	2D
S630	3-4	10"	+	+	-	-	-	+	512MB	-	2D
DA-69S	4-12	24"	+	+	+	+	+	+	4GB	Linux	3D
DA-66S	4-8	24"	+	+	+	optional	optional	+	4GB	Linux	2D
DA-58Tx	3-6	18.6"	+	+	-	-	-	+	1GB	Linux	2D
DA-53Tx	3-4	15"	+	+	-	-	-	semi	1GB	Linux	2D
DA-58T	3-4	15"	+	+	-	-	-	+	1GB	Linux	2D
DA-53T	3-4	10"	optional	optional	-	-	-	semi	1GB	Linux	2D
VisiTouch 24MX	4-24	24"	+	+	+	+	+	+	-	Windows	3D
VisiTouch Pac	4-12	19"	+	+	+	-	-	+	-	Windows	2D
CybTouch 15	4-6	15"	+	+	-	-	-	+	-	-	2D
CybTouch 12	3-4	12"	+	+	-	-	-	optional	-	-	2D
CybTouch 8	3-4	7"	+	+	-	-	-	optional	-	-	2D



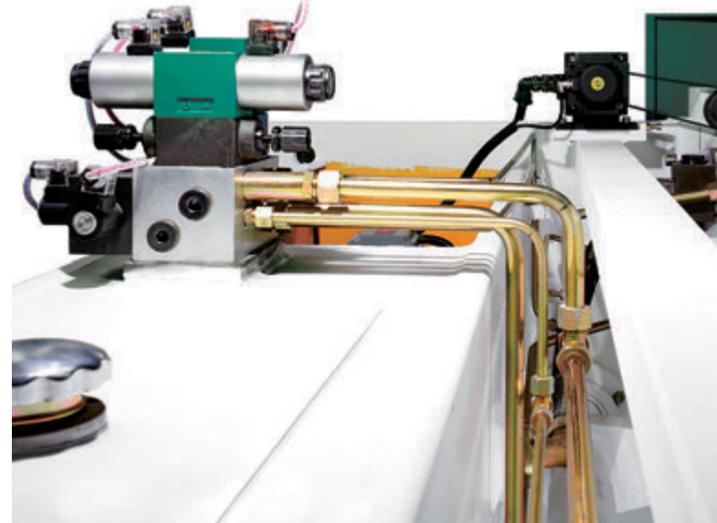
# APN<sup>NC</sup> PRESS BRAKE



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### STANDARD FEATURES

- HOERBIGER (HAWE) hydraulic valves
- Y1, Y2, X, and Crowning axes (3+1 system)
- Back gauge system with ball screw and linear guide
- DELEM / ESA / CYBELEC CNC controllers
- SIEMENS or WN main motor
- GIVI MISURE linear scales on Y1 and Y2 axes
- SCHNEIDER electrical components
- European-style punch and die holders
- Quick-release fast clamp
- Foot pedal with emergency stop button
- Side and rear safety gates
- Back gauge fingers mounted on linear guides
- Standard Amada-type punches and dies



### Robust and Optimized Mechanical Structure

The core mechanical structure of the press brake consists of the frame, columns, ram, work table, main cylinders, and back gauge.



### Hydraulic System

Our press brake is equipped with a BOSCH-REXROTH integrated hydraulic control system, which significantly reduces the number of pipe connections.



### Punch & Die

The standard top punch and multi-V bottom die are suitable for bending sheet metal in a wide range of thicknesses.

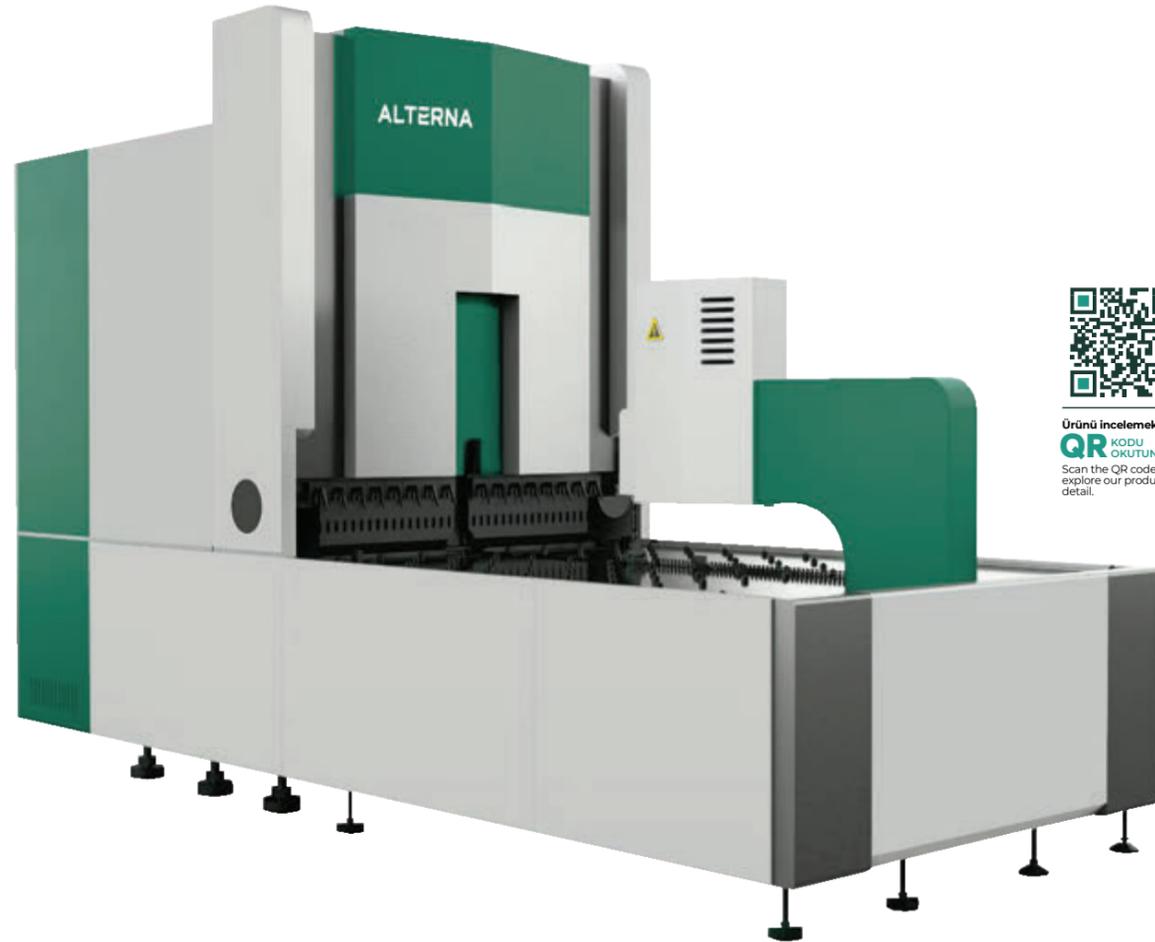


### Fast Clamp

The standard fast clamp allows for quick and easy replacement of the top punch, significantly reducing setup time. A convenient, time-saving solution that increases overall efficiency.

MODEL	Bending Length	Oil Tank	Approaching Speed	Working Speed	Return Speed	Distance Between Columns	Throat Depth	Stroke	Open Height	Main Motor
	mm	mm/s	mm/s	mm	mm	mm	mm	mm	mm	mm
30t/1600	1600	80	120	17	160	1300	200	80	320	5.5
30t/2000	2000	100	140	17	160	1600	200	80	320	5.5
40t/2500	2500	170	110	15	90	2030	250	100	340	5.5
63t/2500	2500	170	100	10	70	2050	250	120	340	5.5
63t/3200	3200	170	120	10	70	2510	250	120	340	5.5
80t/2500	2500	170	110	10	80	2050	250	120	350	5.5
80t/3200	3200	170	130	10	80	2510	250	120	350	5.5
100t/2500	2500	260	90	7.5	70	2050	320	160	420	7.5
100t/3200	3200	260	100	7.5	70	2510	320	160	420	7.5
100t/4000	4000	260	120	7.5	70	3100	320	160	420	7.5
100t/4000	4000	260	120	7.5	70	3100	420	160	440	7.5
125t/3200	3200	260	95	7	65	2510	320	160	420	7.5
125t/4000	4000	260	110	7	65	3100	320	160	420	7.5
160t/2500	2500	260	100	10	100	2050	350	200	470	11
160t/3200	3200	260	110	10	100	2510	350	200	470	11
160t/4000	4000	260	120	10	100	3100	350	200	470	11
160t/5000	5000	260	130	10	100	3800	350	200	470	11
160t/6000	6000	260	140	10	100	4600	350	200	470	11
200T/3200	3200	435	110	10	100	2510	350	200	470	15
200T/4000	4000	435	120	10	100	3100	350	200	470	15
200T/5000	5000	435	120	7	80	3800	350	250	540	15
200T/6000	6000	435	120	7	80	4600	350	250	540	15
250T/3200	3200	435	90	9	100	2600	400	250	580	18.5
250T/4000	4000	435	100	9	100	3300	400	250	580	18.5
250T/5000	5000	435	110	8	100	3800	400	250	580	18.5
250T/6000	6000	540	120	8	100	4600	400	250	580	18.5
300T/3200	3200	540	90	8	75	2600	400	250	580	18.5
300T/4000	4000	540	100	8	75	3100	400	250	580	18.5
300T/5000	5000	550	110	8	75	3800	400	250	580	18.5
300T/6000	6000	560	130	8	75	4600	400	250	580	18.5

# PB PANEL BENDER



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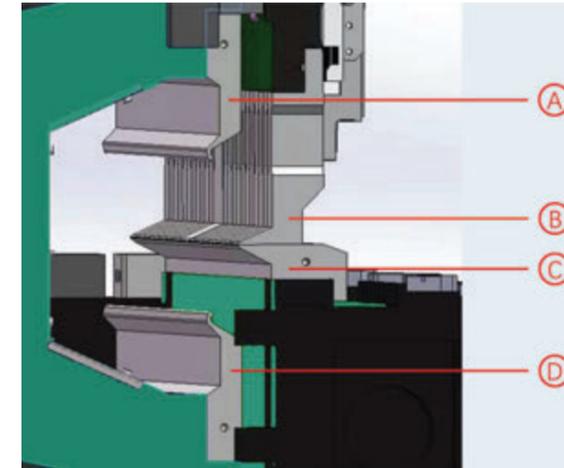
- Intelligent Servo Panel Bending – Fast, Flexible, and Fully Automated
- After years of dedicated R&D, our intelligent panel bender introduces a servo-electric flexible bending center that meets internationally advanced standards.
- Every aspect of the machine—from software and drivers to hardware circuits and mechanical components—has been independently developed to ensure full system integrity and technological innovation.
- As a non-hydraulic bending solution, the servo-electric panel bender offers outstanding speed, accuracy, repeatability, and reliability, making it ideal for high-performance sheet metal production.
- Engineered specifically for the sheet metal industry, this intelligent bending system helps manufacturers increase production efficiency, reduce labor intensity, and enhance their professional image.
- With fully automated panel processing, including automatic rotation of the workpiece, the operator's role is limited to loading and unloading—eliminating the need for manual guidance during bending.
- Thanks to the flexibility of its advanced bending head, the machine can perform positive, negative, radius, and flattening bends with ease—no manual handling required.
- Depending on the complexity of the parts, this system can replace the workload of up to three conventional bending machines, dramatically improving production output.



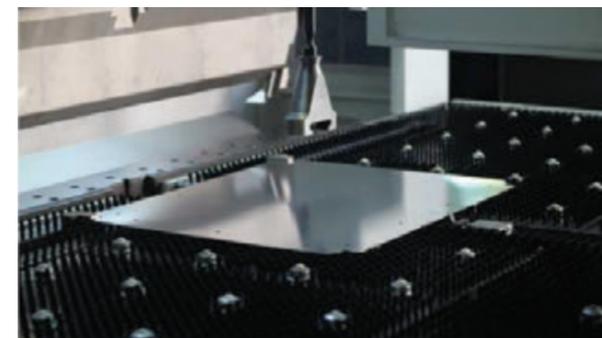
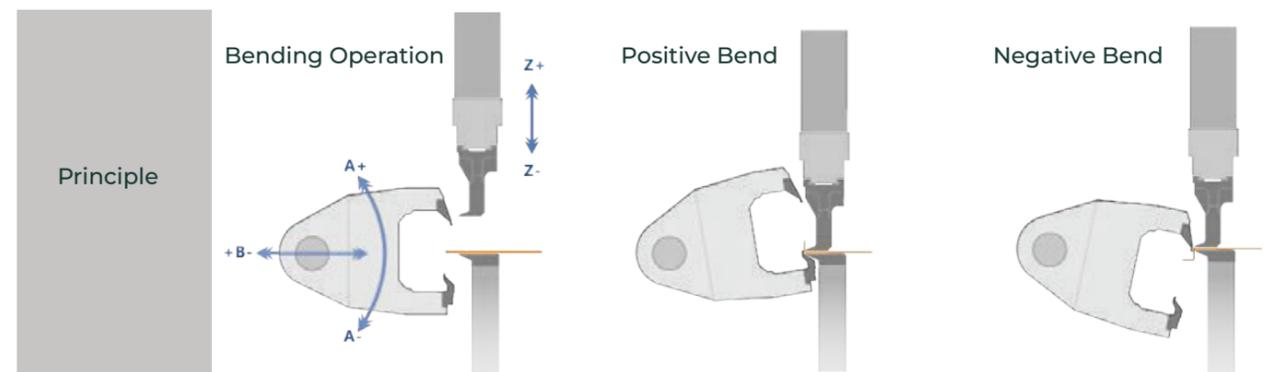
**Ball Screw**  
Heavy load grinding grade screw rod is selected to ensure more stable transmission and higher accuracy.



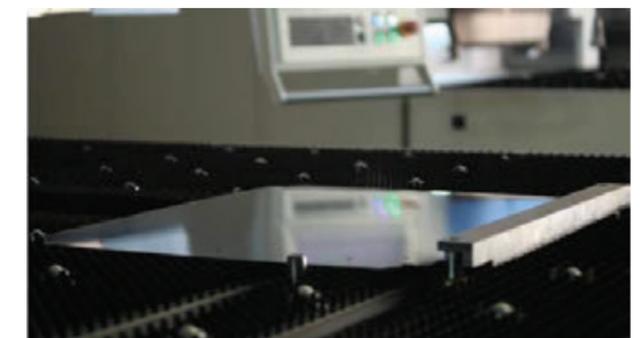
**High-Grade Cast Body**  
-The core frame of the equipment is made of high grade QT500-7 and gray iron 250 castings.  
-Long term operation is stable and reliable.



-The upper and lower bending tools (A, D) bend upward or downward during operation.  
-The upper press tool (B) works simultaneously with the bending tool and the lower press tool to fix and bend the place accurately and efficiently. The lower press tool (C) clamps the sheet during bending.



Pre-set material modes and precise secondary positioning of the machine tool enable smaller minimum sizes for more flexible movement.

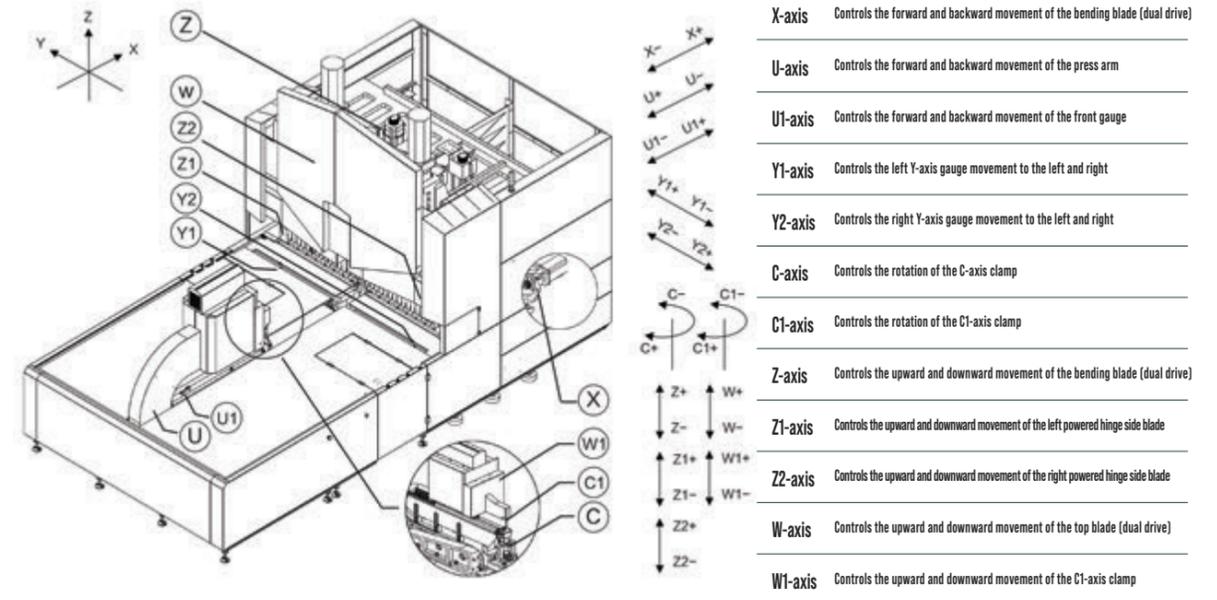
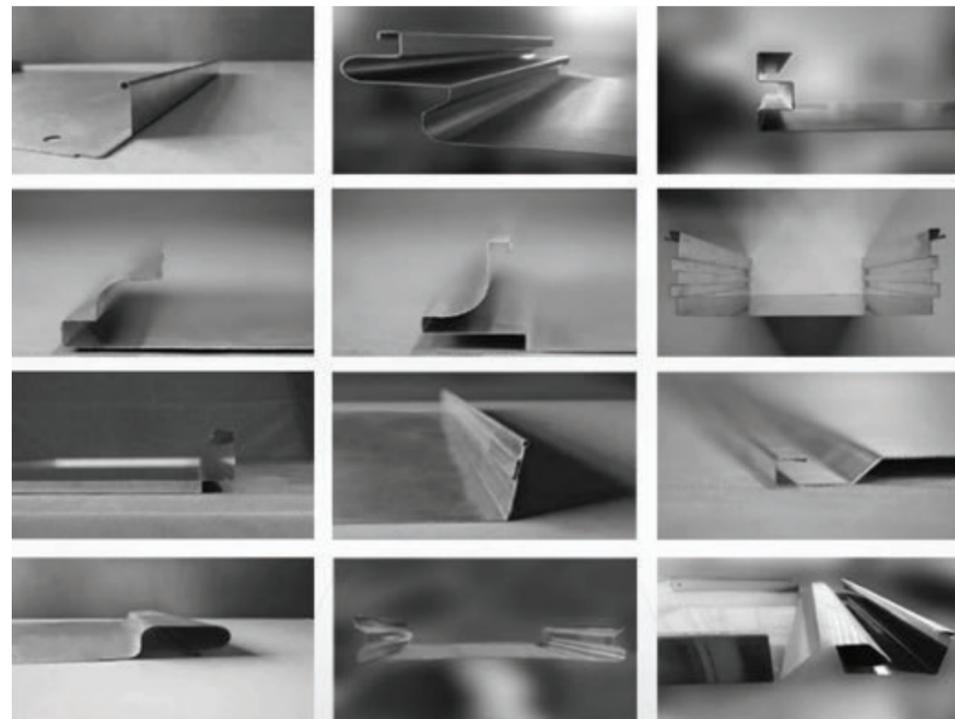
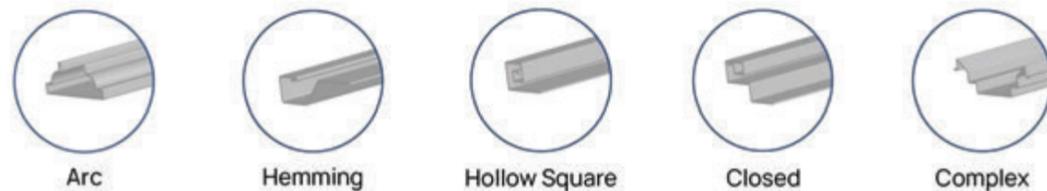
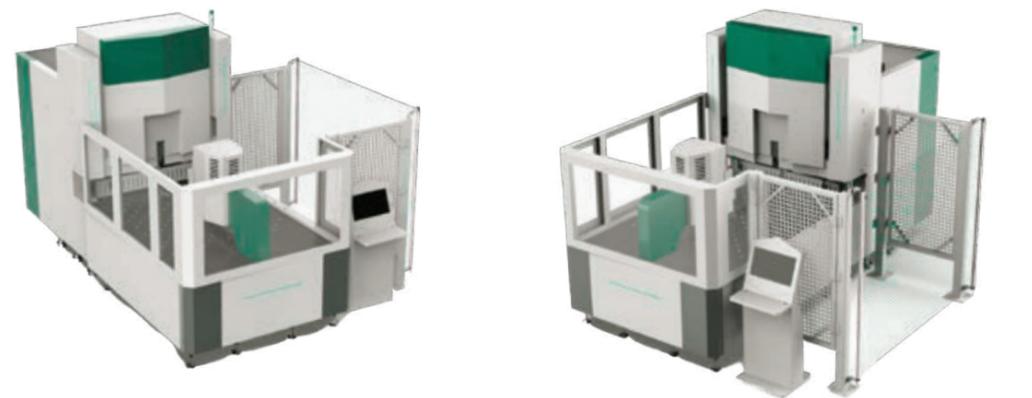


Compact machine structure, provides more space for material placement and eases material loading and unloading.

# Panel Bender

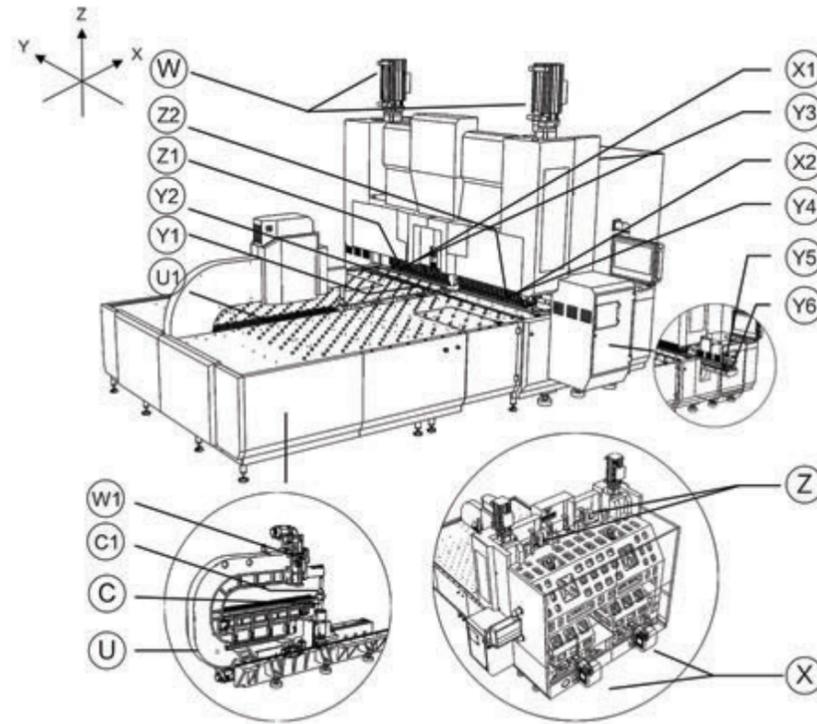
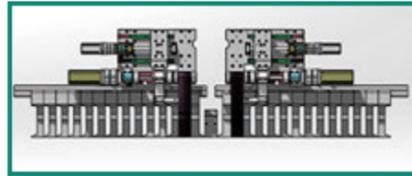
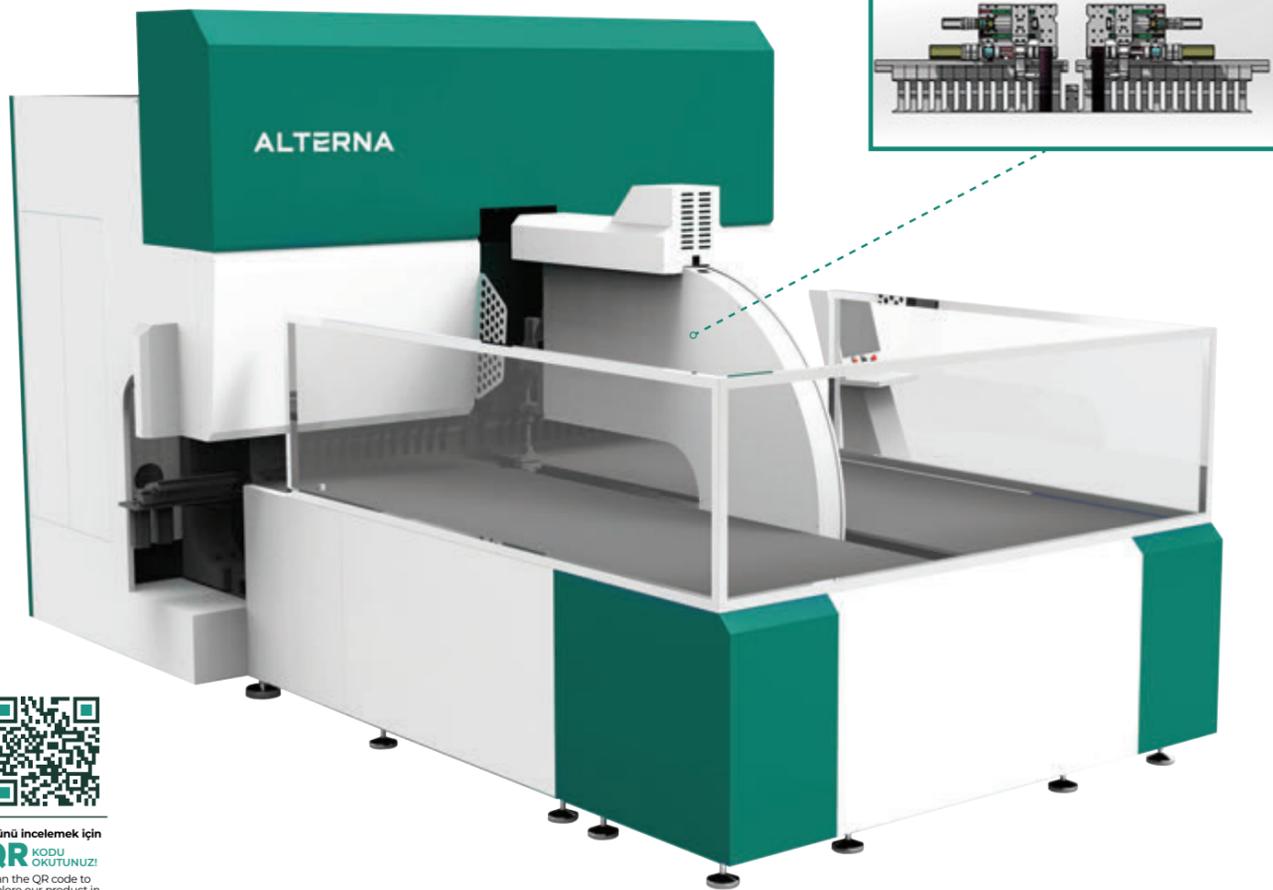
The machine features full electric servo control, in addition to high speed, efficiency, and precision, it also has the following advantages:

- ✔ One-time positioning for multi-sided bending
- ✔ Automatically calculates sheet metal size, supports secondary positioning
- ✔ Bending range from -45° to +45°
- ✔ Supports bending downwards with the last bend on
- ✔ Special shapes and custom bending actions
- ✔ Automatic tool length adjustment for tool stacking



	PB-M1600	PB-M2100	PB-M2600	PB-M3200
Feeding Structure	Press arm type	Press arm type	Press arm type	Press arm type
Workbench Structure	Brush	Brush	Brush	Brush
System Minimum Accuracy	0.001 mm	0.001 mm	0.001 mm	0.001 mm
Fastest Bending Speed	0.2sec / bending	0.2sec / bending	0.2sec / bending	0.2sec / bending
Max. Shipping Speed	90m/min	90m/min	90m/min	90m/min
Max. Bending Width	1600mm	2190mm	2600mm	3200mm
Max. Bending Size	L1600mm*W1200mm	L2190mm*W1200mm	L2600mm*W1200mm	L3200mm*W1200mm
Max. Bending Height	180mm	180mm	180mm	180mm
Maximum Bending Plate Thickness (mild steel)	1.5mm (450N/mm <sup>2</sup> )	2mm (450N/mm <sup>2</sup> )	2mm (450N/mm <sup>2</sup> )	2mm (450N/mm <sup>2</sup> )
Minimum Arc Radius	0.5mm	0.5mm	0.5mm	0.5mm
Rated Voltage	380V	380V	380V	380V
Total Motor Power	38KW	76KW	108KW	154KW
Average Power	27KW	54KW	76KW	110KW
Noise	50 decibel	50 decibel	50 decibel	50 decibel
Dimensions	L455cm*W275cm*H275cm	L565cm*W275cm*H320cm	L635cm*W301cm*H330cm	L690cm*W410cm*H350cm
Gross Weight	9T	21T	24T	30T
User Operating Environment	Win7 or above operating system	Win7 or above operating system	Win7 or above operating system	Win7 or above operating system
Maximum Bending Thickness	UTS 515N/mm <sup>2</sup> 201SS 1.0mm UTS 410N/mm <sup>2</sup> MS 1.5mm UTS 265N/mm <sup>2</sup> AL 2.0mm	UTS 515N/mm <sup>2</sup> 201SS 1.2mm UTS 410N/mm <sup>2</sup> MS 2mm UTS 265N/mm <sup>2</sup> AL 2.5mm	UTS 515N/mm <sup>2</sup> 201SS 1.2mm UTS 410N/mm <sup>2</sup> MS 2.0mm UTS 265N/mm <sup>2</sup> AL 2.5mm	UTS 515N/mm <sup>2</sup> 201SS 1.0mm UTS 410N/mm <sup>2</sup> MS 1.5mm UTS 265N/mm <sup>2</sup> AL 2.0mm
Minimum Material Thickness	0.35mm	0.35mm	0.35mm	0.35mm
Minimum Inner Dimensions of Four-Side Forming	280mmx180mm	280mmx180mm	280mmx180mm	280mmx180mm
Minimum Inner Dimension of Double-Sided Forming	180mm	180mm	180mm	180mm
Bending Angle	0-180 Degree	0-180 Degree	0-180 Degree	0-180 Degree
Number of Axes	15	15	15	15
Optional	Bending Height 300mm	Bending Height 300mm	Bending Height 300mm	Bending Height 300mm

# PB+ Automatic Tool-Changing PANEL BENDER



- X-axis Controls the forward and backward movement of the bending blade (dual drive)
- X1-axis Controls the forward and backward movement of the Z1 power folding blade holder
- X2-axis Controls the forward and backward movement of the Z2 power folding blade holder
- U-axis Controls the movement of the press arm forwards and backwards
- U1-axis Controls the movement of the front gauge forwards and backwards
- Y1-axis Controls the left Y-axis gauge left and right movement
- Y2-axis Controls the right Y-axis gauge left and right movement
- Y3-axis Controls the left and right movement of the Z1 power folding blade holder's tapping device
- Y4-axis Controls the left and right movement of the Z2 power folding blade holder's tapping device
- Y5-axis Controls the lateral movement of the left auxiliary blade
- Y6-axis Controls the lateral movement of the right auxiliary blade
- C-axis Controls the rotation of the C-axis clamp
- C1-axis Controls the rotation of the C1-axis clamp
- Z-axis Controls the upward and downward movement of the bending blade (dual drive)
- Z1-axis Controls the upward and downward movement of the left powered hinge knife side blade
- Z2-axis Controls the upward and downward movement of the right powered hinge knife side blade
- W-axis Controls the upward and downward movement of the top blade (dual drive)
- W1-axis Controls the upward and downward movement of the C1-axis clamp

PROJECT / PROJE	Unit Birim	PB+16	PB+21	PB+26
Bending Length	mm	1630	2190	2610
Bending Height	mm	200	200	200
Minimum Size For Four-Sided Forming	mm	370*180	370*180	370*180
Minimum Size For Two-Sided Forming	mm	180	180	180
Minimum Bending Height	mm	4	6	6
Minimum Arc Radius	mm	4	4	4
Maximum Forming Size	mm	1600*1300	2200*1300	2470*1300
Bending Angle	°	-90°~180°	-90°~180°	-90°~180°
Bending Speed	sec/time	0.2	0.2	0.2
Number of Axes	m/min	22	24	24
Mild Steel	mm	2	2	2
Stainless Steel	mm	1.5	1.5	1.5
Aluminum Sheet	mm	3.5	3.5	3.5
Galvanized Steel Sheet	mm	2	2	2
Hot Rolled Steel Sheet	mm	2	2	2
Feeding Structure	-	Pressure arm	Pressure arm	Pressure arm
Maximum Feeding Speed	m/min	800	800	800
Tool Changing Method	-	Automatic	Automatic	Automatic
Upper and Lower Auxiliary Blades	-	Optional	Optional	Optional
Worktable Structure	-			
Total Power	kW	44	77	103
Peak Power	kW	43	83	118
Overall Dimensions (L*W*H)	mm	4550*2750*2750	5650*3650*3150	6200*4100*3350
Total Weight	t	10t	22t	28t

-The system employs a modular blade assembly with four-sided positioning capability. It supports different pressing widths on all four sides and enables eccentric bending and secondary positioning, achieving functionalities beyond standard bending centers. Tool changes are quick and smooth, taking only 0.5 seconds, ensuring precise bending.

-Featuring proprietary patented technology, the product requires positioning only once at the start of the bending process, eliminating the need for adjustments. The sheet metal and rotational structure remain constant during bending. With a resolution of 0.01 degrees, it guarantees high production flexibility. The fully automated bending process and versatile bending dies combine efficiency with adaptability, automatically accommodating various geometric shapes without the need for machine stoppage or manual die changes. This enables both batch and complete set production.

Utilizing automatic tool-changing bending technology, we have independently developed multi-axis concurrent motion control and a proprietary patented automatic tool assembly algorithm. This allows for automatic tool assembly when changing workpieces, offering high speed and precision. The maximum processing dimensions are 2600\*1600 mm.



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### Safety Options



**AKAS II**  
Laser Front Safety



**AKAS III**  
Laser Front Safety



**DSP**  
Laser Front Safety



**REAR SAFETY**  
Light Curtain



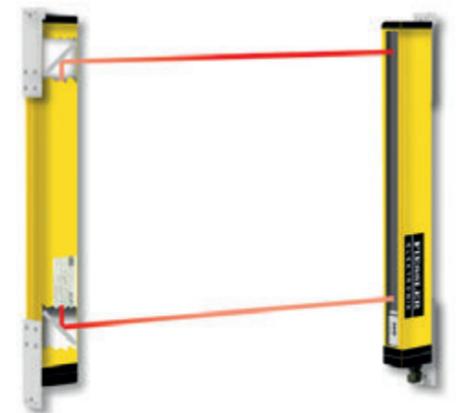
**AKAS FPSC**  
Laser Front Safety



**MSD**  
Laser Front Safety



**BACKSIDE PROTECTION**  
Backside Doors



**REAR SAFETY**  
Light Barrier



**Shear**

# SW

## Swing Beam Shear Series

- Robust steel plate welded frame with hydraulic drive system and nitrogen cylinder return ensures reliable performance, easy operation, and a modern, elegant appearance.
- Equipped with edge adjustment indicators for smooth, quick, and stepless positioning.
- Illumination along the cutting line and adjustable stroke of the upper beam for enhanced usability and precision.
- Includes a finger protection cover safety guard for operator protection.



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### STANDARD FEATURES

Hydraulic Valve: Rexroth  
Electrics: Schneider  
Oil Pump: Sunny  
Main Motor: Siemens  
Ball Screw Rod: Zeen/PMI  
Linear Guide: Zeen/Schneeberger  
Front Support: Normal Type

Back Support: Support Plate  
Line Alignment Device: Light  
Front Fence: Sheet Metal Type  
Rear Protection: Warning Tape  
Lubrication Device: Manual/Automatic Lubrication Device  
Pedal Switch: Emergency Stop Type  
CNC Controller: Elgo P40 T

### ELGO P40T



- 5.7"
- Easy to handle, intuitive operation and practical functions
- 1000 steps program memory
- Multi language

### ELGO P52T



- Selectively with 7" widescreen
- Easy to handle, intuitive operation and practical functions
- Compact up to 4 axes
- Program memory with any number of programs (up to 999 steps per program)
- Multi language support

### esa 820



- 7"
- Compact and easy learning interface
- Dual and triple gauge axes control\*(ESA S830)
- Large cutting sequences and programs can be memorized
- Multi language support

### CYBELEC



Touch 8G

- 7"
- Constantly guide the operator, as simple as a "go-to controller"
- 200 Programs (24 steps per program)
- Multi language support

### CYBELEC



Touch 12G

- 12"
- Constantly guide the operator, as simple as a "go-to controller"
- Multi-axes controller manages up to 2 back gauges axes and 2 front gauges axes
- Large cutting sequences and programs can be memorized
- Multi language support

### Delem DAC 360



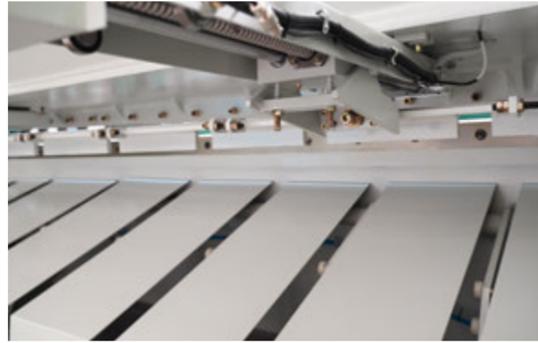
- 7"
- Compact and versatile touch CNC controller
- Dual and triple gauge axes control \*(DAC-362T)
- 100 Programs (25 steps per program)
- Multi language support

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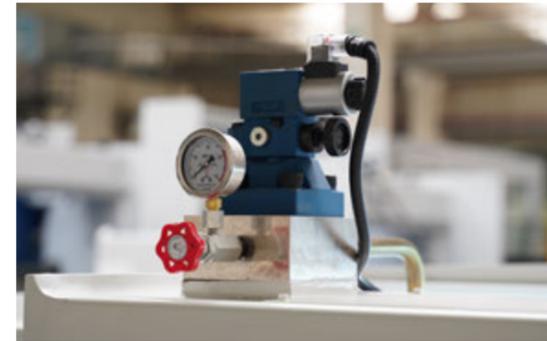
Siemens Main Motor

We use a Siemens motor to ensure long service life, stable performance, and trusted quality across all machine operations.



Ball Screw

HIWIN ball screw is adopted to ensure the high precision movement of the back gauge, delivering consistent accuracy and smooth operation in every cycle.



Hydraulic Valve

The system uses an electro-hydraulic proportional pressure valve for pressure control, allowing the entire process pressure to be programmed and precisely regulated. This ensures stable, reliable, and consistent machine performance across all operations.



Rear Light Curtain (Optional)

Designed for the protection of the back side, ensuring operator safety and preventing unauthorized access during machine operation.



Pneumatic Sheet Support System (Rear Type), (optional)

The machine is equipped with a pneumatic rear sheet support system, designed to support thin or large-format sheets during the cutting process.



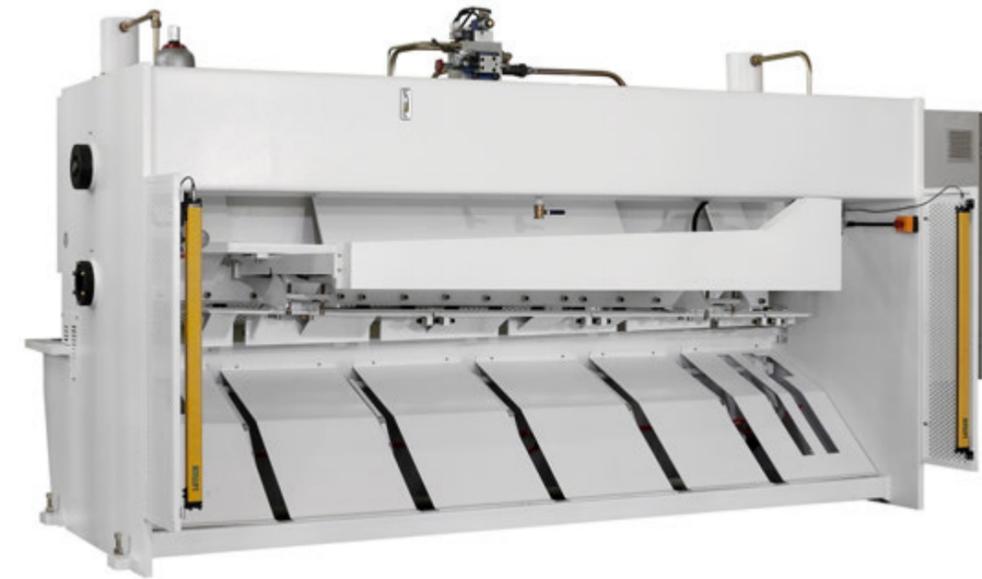
Hydraulic Hold-Down Pads

The lower end of the press cylinder is made from a high friction, non-metallic material that provides a degree of elasticity, enhancing grip and stability during pressing operations.

MODEL	Cutting Thickness	Width	Oil Tank	Stroke Times	Back Gauge Range	Cutting Angle	Main Power
	mm	mm	L	times/min	mm	°	kW
SW-4*2500	4	2500	140	33	20-650	1.5	7.5
SW-4*3200	4	3200	190	26	20-650	1.5	7.5
SW-4*4000	4	4000	190	23	20-800	1.5	7.5
SW-4*5000	4	5000	320	16	20-800	1.5	7.5
SW-4*6000	4	6000	440	12	20-800	1.5	15
SW-6*2500	6	2500	190	17	20-650	2	7.5
SW-6*3200	6	3200	190	17	20-650	1.5	7.5
SW-6*4000	6	4000	190	15	20-800	1.5	7.5
SW-6*5000	6	5000	320	11	20-800	1.5	15
SW-6*6000	6	6000	440	8	20-800	1.5	15
SW-8*2500	8	2500	190	13	20-650	2	11
SW-8*3200	8	3200	190	13	20-650	1.5	11
SW-8*4000	8	4000	190	12	20-800	1.5	15
SW-8*5000	8	5000	320	10	20-800	1.5	18.5
SW-8*6000	8	6000	440	9	20-800	1.5	18.5
SW-10*2500	10	2500	190	13	20-800	2	15
SW-10*3200	10	3200	190	13	20-800	1.5	15
SW-10*4000	10	4000	400	9	20-800	1.5	22
SW-10*6000	10	6000	440	6	20-800	1.5	22
SW-12*2500	12	2500	400	12	20-800	2	22
SW-12*3200	12	3200	400	10	20-800	2	22
SW-12*4000	12	4000	400	8	20-800	1.75	22
SW-12*5000	12	5000	440	6	20-800	2	22
SW-12*6000	12	6000	440	5	20-800	2	22
SW-16*2500	16	2500	400	13	20-800	2.5	22
SW-16*3200	16	3200	400	10	20-800	2	22
SW-16*4000	16	4000	600	9	20-800	1.75	22
SW-20*2500	20	2500	500	8	20-800	2.5	30
SW-25*2500	25	2500	550	7	20-800	3	37

# SG Guillotine Shear Series

- Equipped with an advanced compact hydraulic valve unit, minimizing pipe connections to enhance system reliability and ease of maintenance.
- Serially linked oil cylinders ensure the shear angle remains constant during operation, delivering uniform cutting results.
- Accumulator-based return system offers smooth and swift blade retraction.
- Manual blade gap adjustment is fast, accurate, and easy to operate.
- Adjustable angle reduces plate distortion and adapts to various material thicknesses.
- Motorized backgauge with position display improves precision and convenience.



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detail.

## STANDARD FEATURES

Hydraulic Valve: Rexroth  
Main Motor: Siemens  
Ball Screw Rod: Zeen/PMI  
Linear Guide: Zeen/Schneeberger  
Front Support: Normal Support

Line Alignment Device: Light Front  
Fence: Welded Type  
Pedal Switch: Emergency Stop Type  
CNC Controller: Elgo P40T  
Electrics: Schneider

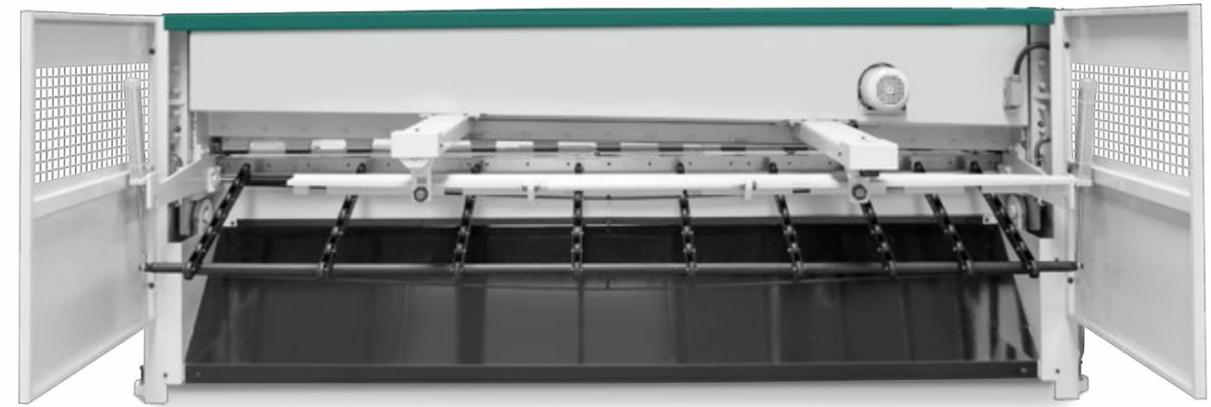
MODEL	Cutting Thickness	Width	Oil Tank	Stroke Times	Backgauge range	Cutting Angle	Main Power
	mm	mm	L	times/min	mm	°	KW
SG-6*2500	6	2500	300	16-25	20-800	30`-1°30`	7.5
SG-6*3200	6	3200	300	14-20	20-800	30`-1°30`	7.5
SG-6*4000	6	4000	340	12-17	20-800	30`-1°30`	7.5
SG-8*2500	8	2500	300	13-20	20-800	30`-1°30`	11
SG-8*3200	8	3200	300	11-18	20-800	30`-1°30`	11
SG-8*4000	8	4000	340	9-16	20-800	30`-1°30`	18.5
SG-13*2500	13	2500	405	10-20	20-800	30`-2°	22
SG-13*3200	13	3200	405	9-18	20-800	30`-2°	22
SG-13*4000	13	4000	405	8-16	20-800	30`-2°	22
SG-13*6000	13	6000	1020	6-12	20-1000	30`-2°	30
SG-16*2500	16	2500	475	9-18	20-800	30`-2°30`	22
SG-16*3200	16	3200	475	8-17	20-800	30`-2°30`	22
SG-16*4000	16	4000	595	7-15	20-800	30`-2°30`	22
SG-16*6000	16	6000	1020	6-11	20-1000	30`-2°30`	37
SG-16*8000	16	8000	2060	4-8	20-1000	30`-2°30`	45
SG-20*2500	20	2500	510	7-16	20-800	30`-3°	30
SG-20*3200	20	3200	510	6-15	20-800	30`-3°	30
SG-20*4000	20	4000	640	6-14	20-800	30`-3°	37
SG-20*6000	20	6000	1500	5-11	20-1000	30`-3°	30*2
SG-25*2500	25	2500	750	5-14	20-800	30`-3°30`	37
SG-25*3200	25	3200	820	5-10	20-800	30`-3°30`	37
SG-30*2500	30	2500	780	5-12	20-1000	30`-3°	45



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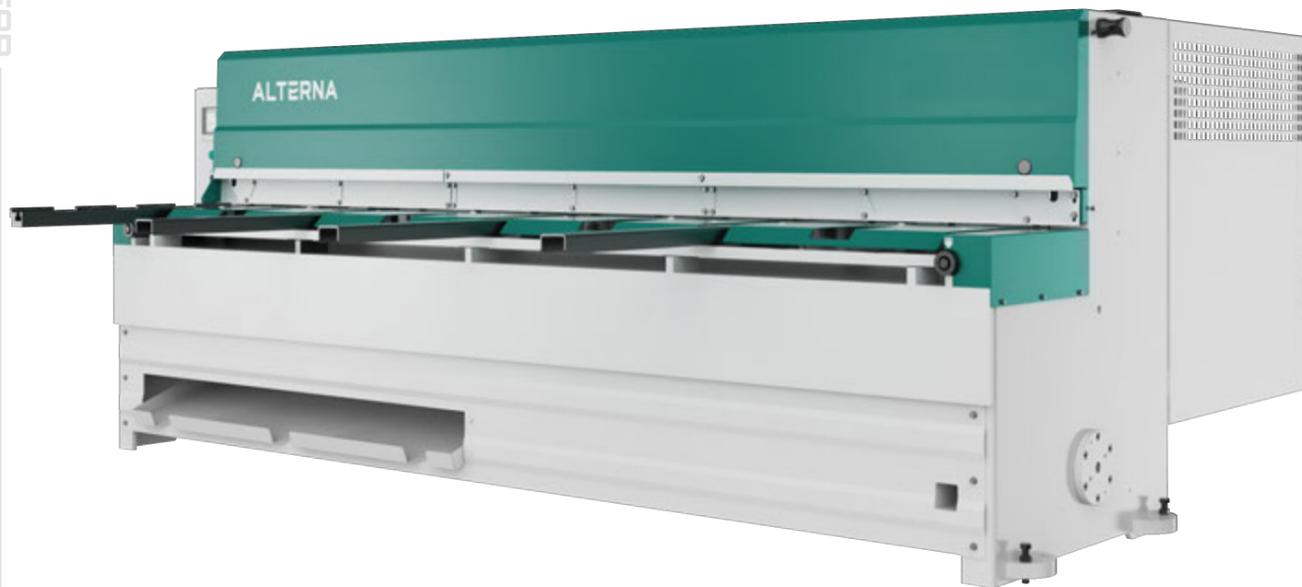
# SM Mechanical Shear Series

• Our mechanical shears offer durability, precision, and cost-effective performance in sheet metal cutting. Their compact structure makes them ideal for workshop use. With a powerful motor system and rigid frame, they ensure long-lasting operation with minimal maintenance. A simple operator panel allows for easy use and quick setup.



SHEAR

SHEAR



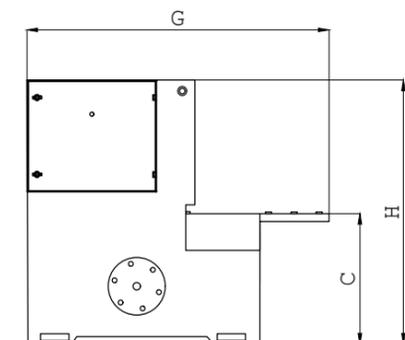
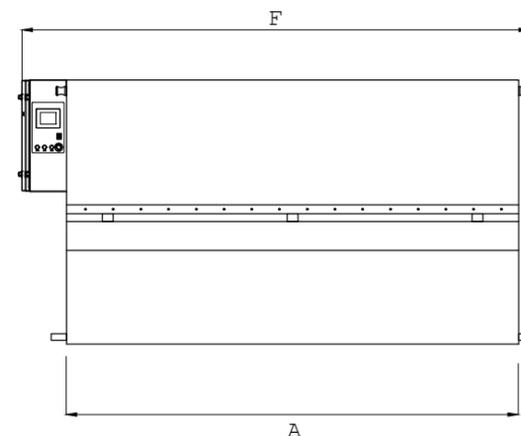
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## STANDARD FEATURES

- ELGO P40T Touch screen control unit
- Rigid welded monoblock frame providing maximum cutting accuracy
- Controlled motorized 750 mm back gauge travel
- Upper blade 2 edges / Bottom blade 4 edges.
- Mechanical hold down system (holds the sheet metal in place during the cutting process)

- Simple blade gap adjustment system
- Front table with roller bearings
- Front support arms with scale
- Illuminated cutting line
- Front finger protection guard
- Foot pedal
- Rear safety guards
- Emergency stop button

Machine Type	(450N/mm <sup>2</sup> )	Length	Angle	Speed	Height	Dimensions			Power	Weight
	mm	A	Degree	hpm	C	Length x Width x Height (L x W x H)			kW	Kg
		mm	°			mm				
SM-03*1360	3	1360	2.1	41	800	2050	2300	1350	4	1250
SM-03*1560	3	1560	1.83	41	800	2250	2300	1350	4	1500
SM-03*2060	3	2060	1.3	41	800	2600	2250	1400	4	1750
SM-02,5*2560	2,5	2560	1.3	41	800	3100	2250	1400	4	1950
SM-03*3060	2	3060	1.3	41	800	3600	2250	1400	4	4000
SM-06*1100	6	1100	2	41	800	1750	2300	1350	7,5	2000
SM-06*1360	6	1360	2	41	800	2050	2300	1350	7,5	2300
SM-05*1560	5	1560	2	41	800	2250	2300	1350	7,5	2500
SM-04*2060	4	2060	1.3	41	800	2600	2250	1400	7,5	3000
SM-04*2560	4	2560	1.3	41	800	3100	2250	1400	7,5	3500
SM-04*3060	4	3060	1.3	41	800	3600	2250	1400	7,5	4000
SM-04*3700	4	3700	1.3	35	800	4250	2250	1400	7,5	4900



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*Alternative Solutions*