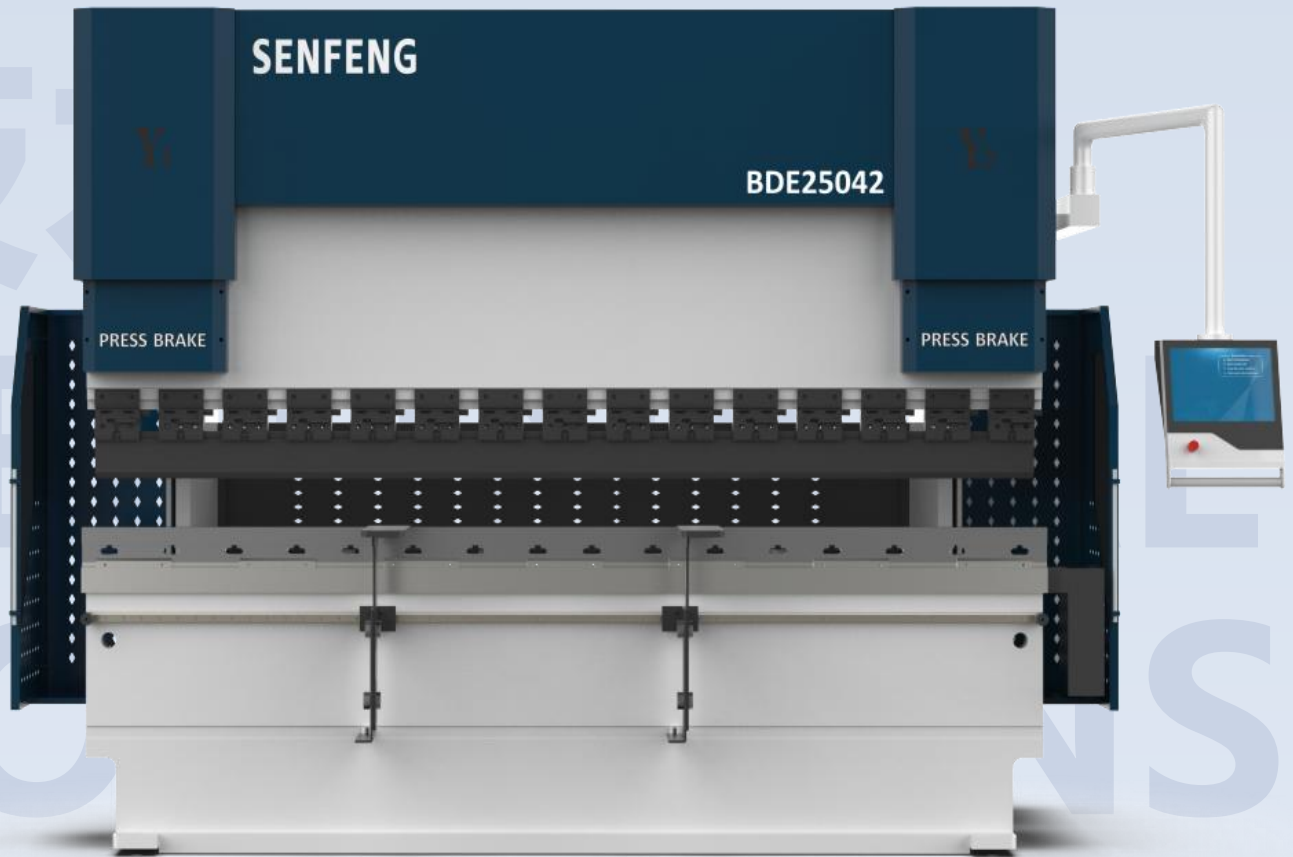


SENFENG

Quote No.:
(Validity period: 1 month)



BDE25042

Press Brake

Specifications: 4200 mm x 250 tons

DELEM DA53T CNC system, 4+1 axis control, Y1, Y2, X, R axis, standard CNC

Deflection compensation function

BDE25042

4+1-53T

The SENFENG CNC press brake, based on a proven traditional design, offers enhanced speed, stroke, opening height, and pressure compared to others. It features high precision, efficiency, stability, and ease of use.

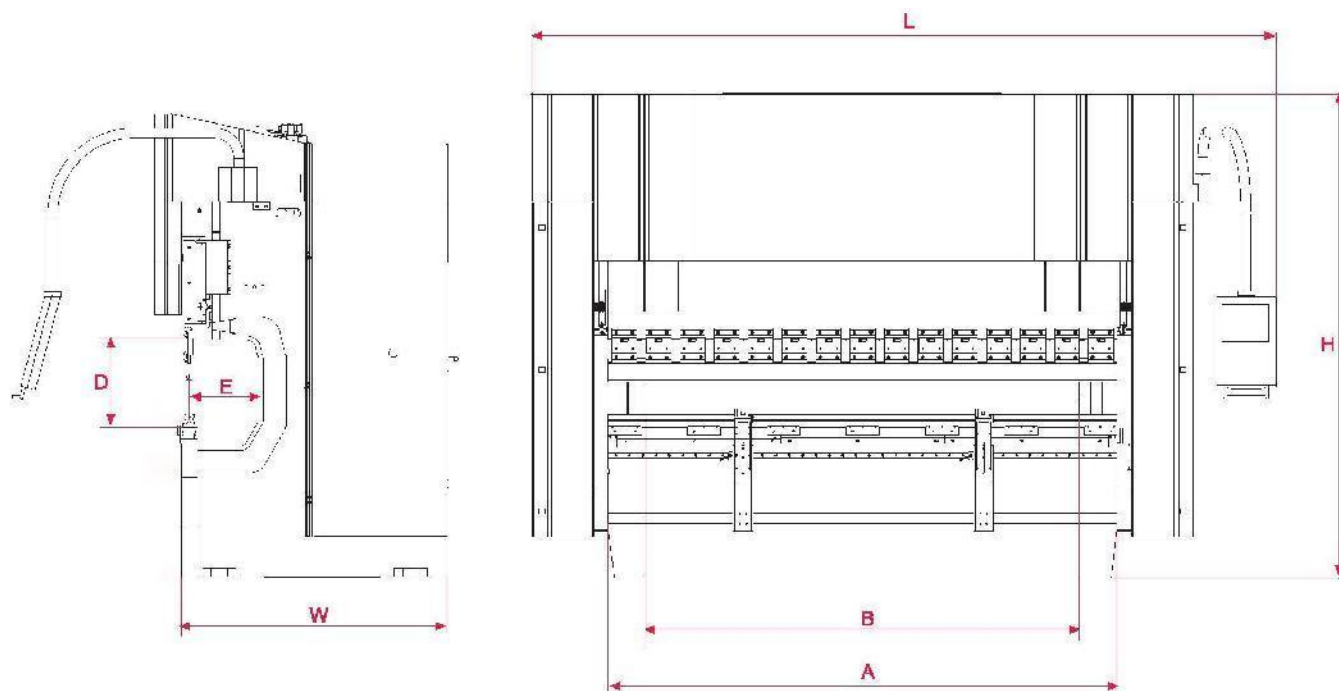


The following parts are included

- Hybrid energy-saving function
- Standard domestic Lane LPD-A light curtain, optional imported DSP light curtain
- Working area equipped with LED lighting
- Compensation workbench with mold base guide rail
- Sliding front support with full-length linear guide rail
- Additional control panel with smart factory LAN (optional)
- Hydraulic oil cooling device standard for equipment above 200T

※All images are for illustrative purposes only. The actual product appearance and dimensions may vary based on the final factory delivery.

Technical Parameters



Model	BDE25042
Nominal pressure	2500KN
Workbench length (A)	4200mm
Column spacing (B)	3400mm
Throat Depth (E)	400mm
Slider stroke	250mm
Opening height (D)	500mm
Size	4700*2120*2820 (L*W*H)

Technical Parameters

Model	BDE25042	
CNC Axis	Y1-Y2-X-R+V (4+1 axis)	
Slider running speed	quickly	130mm/s
	working	0-8mm/s
	Return	120mm/s
Main motor	18.5kw	
Total power consumption	24kw	
Machine weight	12500kg	
Bending thickness (Note: calculated by bending length of 4200mm)	≤7mm carbon steel ≤ 4.5mm stainless steel ≤10mm aluminum The thickness is more than 2mm, and the mold needs to be customized	
Bending Accuracy		
Consistent bending angle accuracy over full length	±30'(1° = 60') (carbon steel for example)	
Full-length straightness accuracy	±0.15mm (carbon steel for example)	
Overall bending length dimension	±0.15mm	
X-axis speed	400mm/s	
X-axis accuracy	±0.02mm	
R-axis speed	200mm/s	
R-axis accuracy	±0.05mm	

Main Configuration

Item	Brand
CNC System	DELEM-DA53T
Hydraulic control system	REXROTH
Oil Pump	HYTEK
Main motor	Innomotics
Magnetic scale	SENTEK
Transmission part	HIWIN
Cylinder seal original	SKF
Main electrical parts	SCHNEIDER
Compression fittings	EMB
Deflection compensation	HuangShi
Laser protection	LNTECH

Consumable parts

Name	Unit	Qty.	Physical picture
Relay 24VDC	Piece	2	
Ferrule connector card	Piece	2	
Ferrule connector card	Piece	2	
Two-end clamp for three-way connection	Piece	1	
Card holder three-way card	Piece	1	
O-ring	Piece	2	
O-ring	Piece	2	
O-ring	Piece	1	
Lower die fixing block	Piece	2	

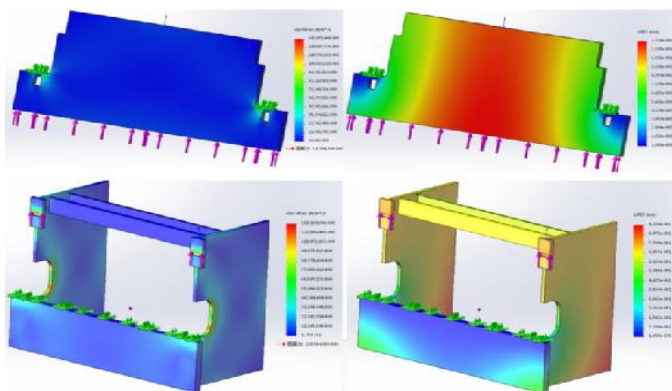
Machine bed

Our machine bed is made of Q235B steel, while most other manufacturers typically use standard Q235A carbon steel. SENFENG adopts a mortise-and-tenon (embedded) welding structure, ensuring greater welding strength. The machine bed offers high stability and precision. Both the frame and the ram are processed in one piece using a large high-precision floor-type boring and milling machine. The ram undergoes integral vertical machining to prevent deformation and rebound after processing.

1

Superior material performance

Q235B steel has better toughness and impact resistance. When subjected to heavy pressure, the Q235B steel bed is not easy to break, which extends the service life of the bed and ensures long-term stability.



2

Exquisite welding technology

Mortise and tenon (embedded) welding increases the welding contact area. The welding strength is greatly improved, the bed structure is more stable, and it will not loosen due to vibration during daily use.



3

Prevent deformation rebound

The slider adopts integral vertical processing, which optimizes the processing stress distribution and effectively prevents deformation and rebound after processing. It ensures that the flatness, verticality and other geometric tolerances of the slider meet high-precision standards and improves the overall accuracy of the bed.

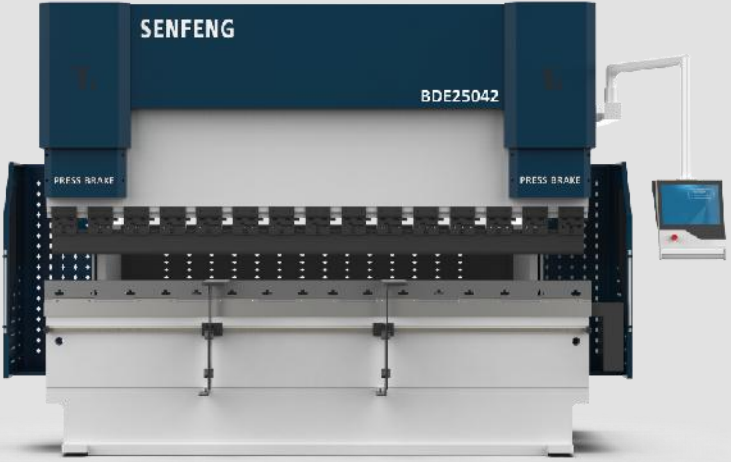
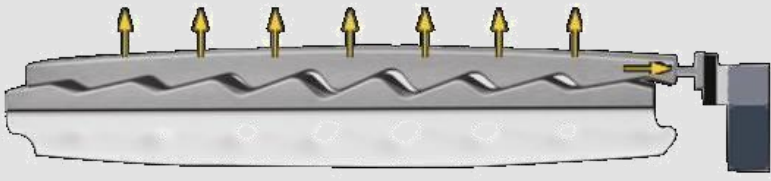


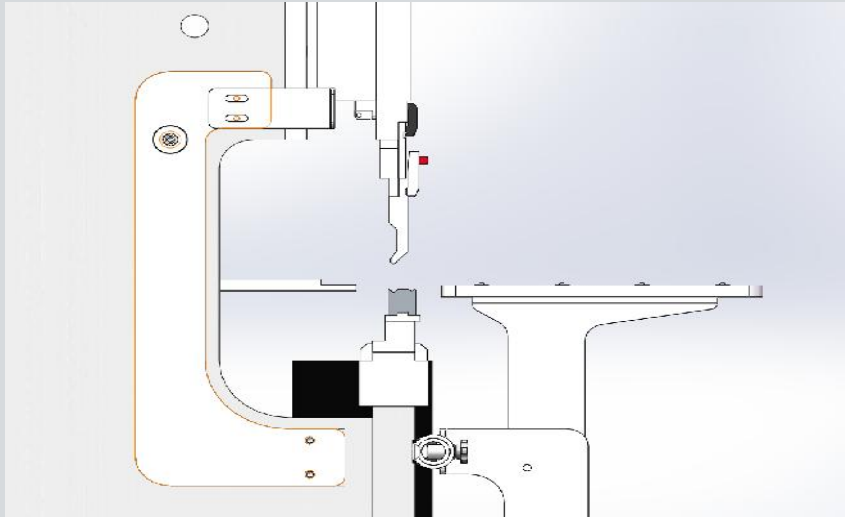
4. Overall processing advantages

The frame and slide are processed as a whole at one time, avoiding positioning errors caused by multiple clamping. The matching accuracy of the various parts of the bed is higher, the operation is more stable, and there will be no problem of accuracy reduction due to improper matching of parts in long-term use.



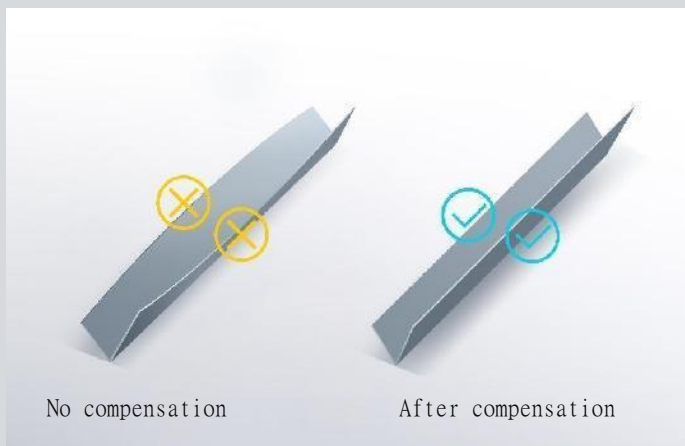
Axis number indication

Y1-Y2-X-R+V	Sketch Map
Y1-axis	
Y2-axis	
X-axis	
R-axis	
V-axis	

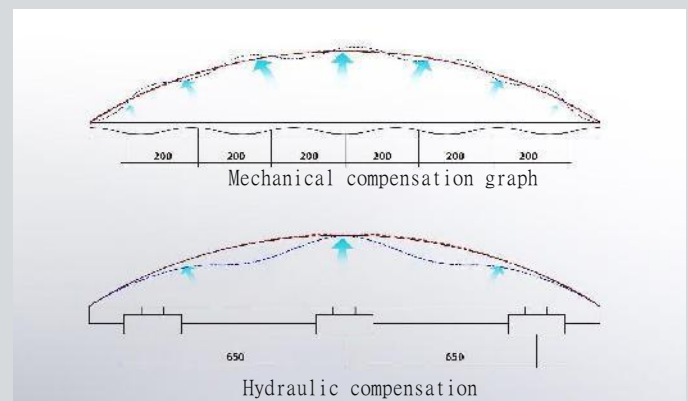


- The machine's throat depth can be customized, offering ample space for a wide range of bending operations.
- It comes equipped with European-style upper and lower dies as standard.
- The opening height is also customizable, representing an innovative advancement in the field of bending machines.
- A universal crowning workbench is included as standard.
- Optional features include VERA hydraulic upper and lower clamps and double-sided quick clamps.

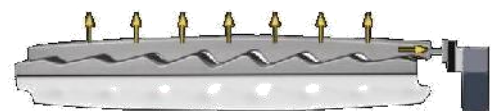
Deflection compensation workbench



■ Ideal compensation ■ Actual compensation



- It consists of uniquely processed and heat-treated wedges. Each set is designed to compensate for the deformation of the upper and lower beams during operation. The CNC system calculates the required compensation based on the bending load and automatically adjusts the wedges to effectively correct beam deflection and deformation.



Optional DSP safety light curtain



DSP laser safety protection device

DSP laser safety protection device fully guarantees the personal safety of the bending machine operator and avoids the danger caused by the rapid movement of the slide on the machine tool. The bending tool tip forms a block protection area to protect the front, middle and back areas of the tool tip.

- CLASS 1M block laser transmitter
- Safety level reaches CAT. 4 and SIL3
- Complies with European CE certification
- Protection level IP65
- System response time is 5MS
- With stop distance detection function
- Can manually adjust the shielding point at will, easy to set up, and provide continuous monitoring

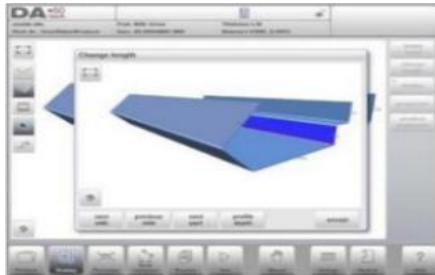


The DA series CNC system offline programming software maximizes machine efficiency and enhances the production capacity of bending machines. With Profile-T, users can perform offline programming and simulation of bending processes, including production preparation, manufacturability checks, operator training, and adding production notes. Combined with the DA-Touch controller, Profile-T supports advanced 2D/3D programming. The intuitive interface guides users from program creation to system transfer, displaying real-time, full-scale graphical representations of the workpiece. Product visualization identifies feasibility issues, potential collisions, required dies, and adapters. Special bends such as flanging and large arcs are also supported with real-time previews. The software mirrors the CNC system interface, making it easy to download and run programs directly for production.

Profile-T Features

- Completely offline programming
- Graphical product programming and bending process generation
- Product feasibility analysis and production preparation
- 2D/3D automatic bending process calculation
- Collision detection
- DXF tools and product import
- 3D CAD product import
- Product sharing via Windows-based network connection to the press brake
- Machine setup preparation, including print function
- Production time calculation
- DXF-out including bend tolerances

Profile T is an application for programming and simulation of press brakes with CNC to increase productivity, reduce downtime and minimize material waste.



Perform expansion operation



Mold: Support mold segmentation configuration



Bending: Provides a graphic display of each bend

Profile-T Features

- Directly import data from SolidWorks, Solid Edge and Inventor software
- Import and unfold 3D parts in IGES and STEP formats
- Support segmented mold configuration
- Automatic backgauge position setting function
- Automatic calculation of backgauge retraction distance
- Perform dynamic collision analysis (e.g. collision analysis when backgauge moves)
- Perform 3D simulation of the bending process with collision detection function
- Provide mold information and mold setting details

	2D	3D
Profile TL	●	-
Profile T2D	●	-
Profile T3D	●	●
PC RA	●	●
Radbend	●	●

DELEM 4+1 53T

Dutch DELEM-DA53T CNC system: The new compact DA-53T adds a state-of-the-art complete touch control solution for synchronized press brakes. Offering easiest CNC programming based on the Delem graphical touch screen user interface.

This panel based control, standard capable of controlling up to 4 axes, can be integrated in cabinets as well as used in an optional pendant arm housing.



DA-53T Features

- "Hot-key" touch navigation
- 10.1" high resolution colour TFT
- Up to 4 axes (Y1,Y2 + 2 aux. axes)
- Crowning control
- Tool / material / product library
- Servo and frequency inverter control
- Advanced Y-axis control algorithms for closed-loop as well as open-loop valves.
- TandemLink (option)
- USB memory stick interfacing
- Profile-T offline software

Optional WILA new standard clamping system

SENFENG

1 Improve production efficiency

- Wila's "New Standard" tooling system has become a market leader in press brakes. WILA's advanced clamping system, combined with the Smart Tool Locator® (STL)*, offers the option for ultra-efficient tool changes, which makes the tool change process easier and safer. Premium is available as an option.



2 Intelligent tool positioner® (STL) Optional

- Improve your bending machine's productivity
- The Smart Tool Locator (STL) can further improve your bending machine's productivity. During tool installation, the system indicates the correct clamping position of the tool through a built-in LED light and displays the tool position in use in production mode.
- The Smart Tool Locator offers significant advantages in terms of speed, precision and flexibility.



Features

- Adopt hydraulic power source;
- Suitable for quick clamping of European molds
- Clamping can be completed with a simple button operation;
- The maximum load capacity of the cutter head/shoulder is 180 tons/meter;

Tool Rack New Standard Pro

The WILA® system allows the user to compensate for the deformation of the crossbar during the bending process. As a result, the bending angle remains constant over the entire length of the sheet.

Standard

- Tool slot CNC- Deephardened®
- Drive unit CNC, motor at one end
- Designed for press brakes, UPB- II hole pattern

Optional

- Smart Tool Locator® (STL)*
- Drive unit CNC, motor fully integrated
- WILA CNC crown adjustment



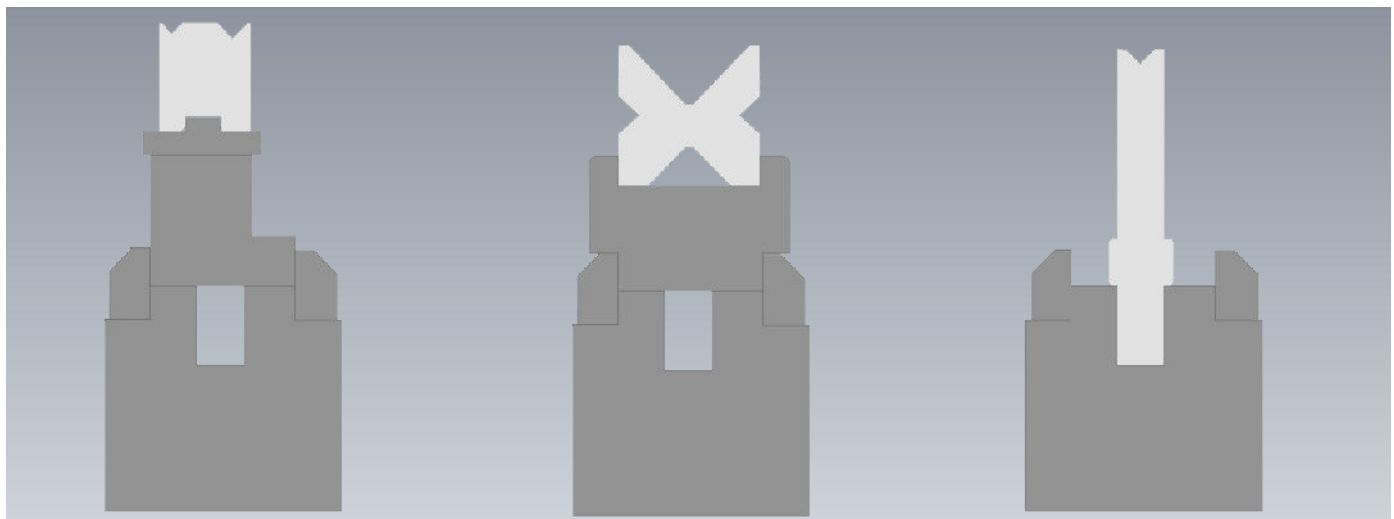
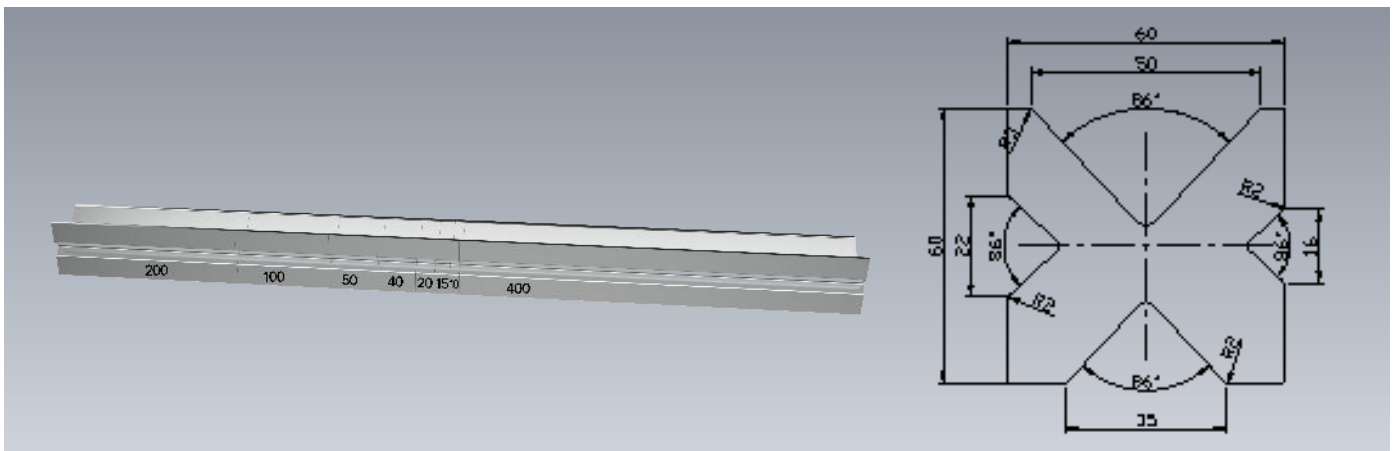
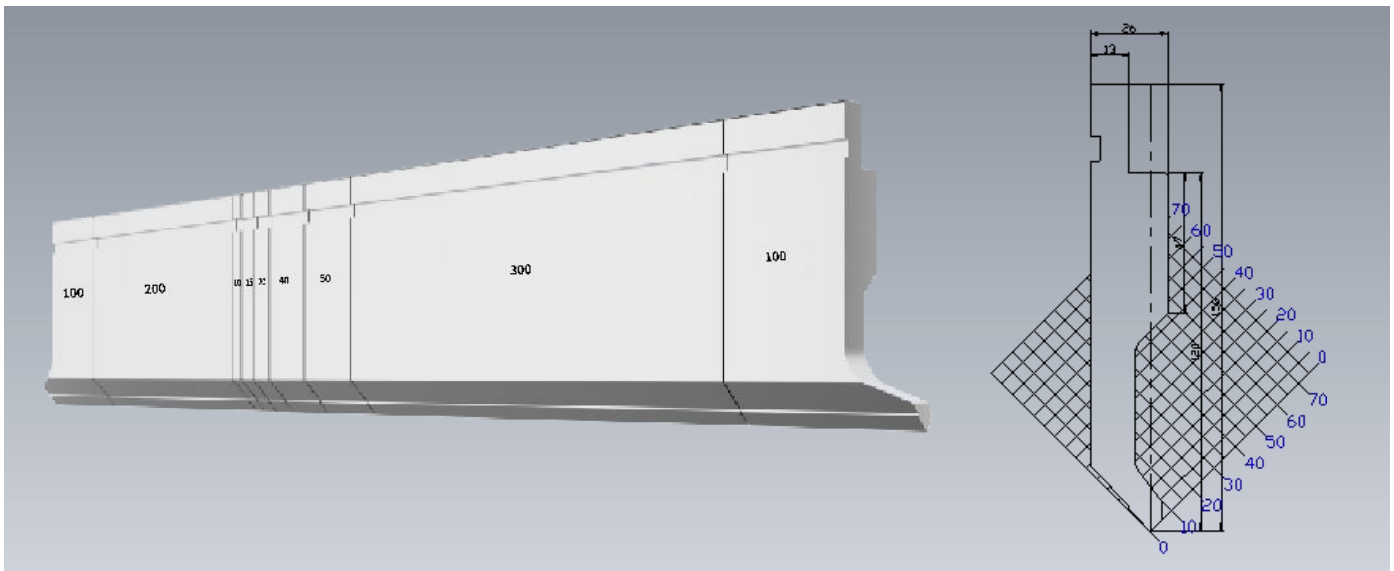
Features

- Tool can be easily reversed
- Hydraulic clamping
- Quick clamping mold

European standard mold

Improve the productivity of your bending machine

All raw materials used by SENFENG are provided by qualified suppliers and their chemical composition complies with international standards. Therefore, the yield strength and tensile strength of the raw materials are guaranteed. The mold is equipped with a standardized safety groove of 8.4 x 3.5 mm to prevent the tool from falling.



Providing Global Users with Automated Metal Fabrication Solutions

SENFENG provides automated metal fabrication solutions globally, integrating cutting, bending, welding, cladding, automation, and new energy. With core technologies in laser cutting, welding, and cladding, the company also offers intelligent manufacturing systems like flexible laser processing lines and sheet metal bending centers. These solutions serve industries including automotive, construction, energy, and petrochemicals, and are used in over 100 countries.



03

International PCT Patents

577

Chinese technology patents

SENFENG has developed key components like laser generators, processing heads, Feng Cloud systems, and CNC systems, used in cutting, welding, cladding, and automation. The company offers a complete industry chain, including laser cutting, welding, cladding, cleaning machines, bending centers, and flexible production lines. These solutions are used in sectors like power towers, construction machinery, shipbuilding, bridges, and aerospace, helping businesses accelerate production and reduce costs for greater economic benefits.

SENFENG

5-star Fast Service

Efficient

- Our repair hotline is available 24/7.
- A professional engineer will respond to customer inquiries within 10 minutes and provide a repair plan within 1 hour.



Professional

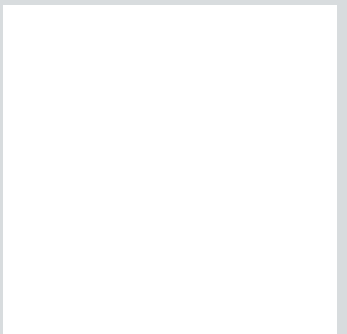
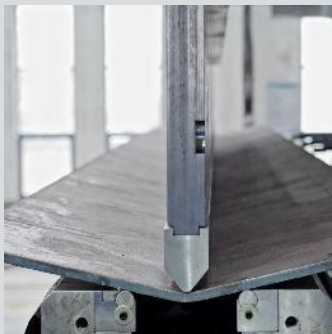
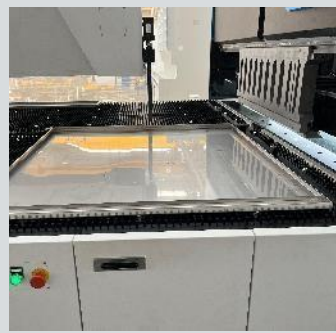
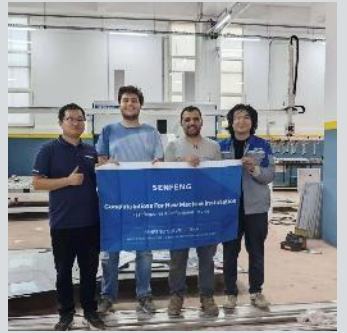
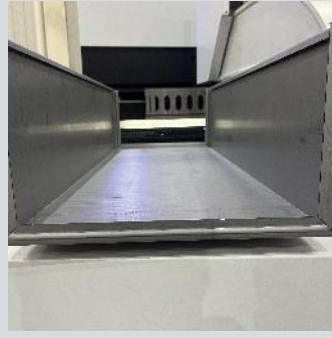
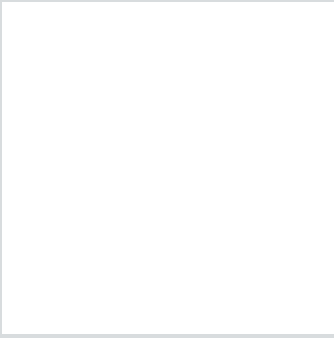
- **Custom Service:** Tailored service plans based on the specific needs of the customer.
- **Service Engineer Certification System:** Each service engineer undergoes rigorous training and assessment before being certified to work.
- **Common Issues Training:** Create a manual for common issues based on equipment models, with certified engineers providing customer training.
- **Online Guidance:** Experienced senior engineers offer support through phone or video calls to help customers resolve issues.
- **Professional Technical Support:** The equipment is properly calibrated during the first installation, and similar issues are resolved in one go.

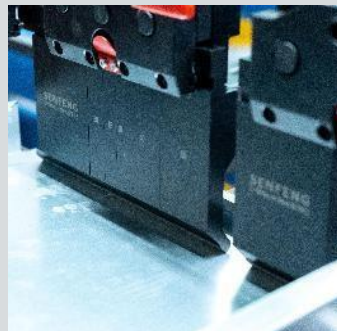


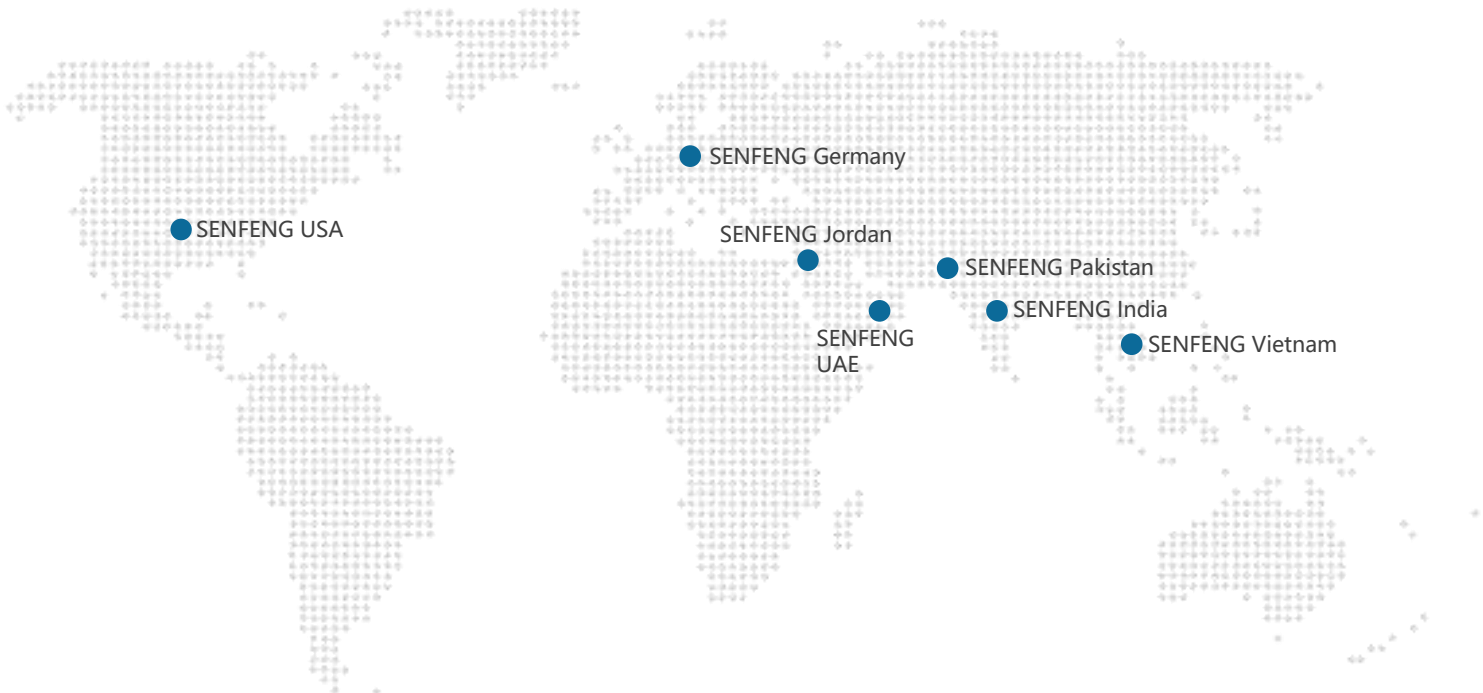
Comprehensive

- **Pre-service:** Theoretical and hands-on operation training, common fault self-diagnosis training, quick repair guidance for troubleshooting, usage reminders.
- **Regular Service:** Regular maintenance reminders, on-site services, periodic promotional activities.
- **Value-added Service:** Equipment software and hardware upgrades, financing lease services, extended warranty services.









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