



Jiangsu Lingwei CNC Machine Tool Co.,Ltd

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江苏领维数控机床有限公司



Jiangsu Lingwei CNC Machine Tool Co.,Ltd

1 Provide cost-effective sheet metal bending equipment

Always adhering to the principle of quality first, we carefully select and use high-quality components while building a solid and stable machine structure. This ensures that every machine maintains excellent stability during long-term operation, providing reliable support for your production.

2 Professional technical team

We have a team of experienced technical engineers who with their extensive expertise and industry experience, can provide precise and comprehensive guidance for your machinery selection based on your specific needs, and customize scientifically sound solutions to help you optimize your production processes.

3 Strict manufacturing process

Strictly adhering to the lean production philosophy, we set up meticulous quality control points at every stage of manufacturing. From the inspection of raw materials upon storage to the final testing of finished products, we do not overlook any detail that could affect product quality, ensuring that every product meets high-quality standards.

4 Considerate after-sales service team

We fully understand the importance of after-sales service for your continuous production, which is why we have built a professional and attentive after-sales service team. Their goal is to respond quickly and solve problems efficiently, providing you with comprehensive after-sales services including timely technical support, equipment maintenance, and parts supply, so you can have peace of mind.



Strive to Lead ★ Reform the old and maintain the new



UPB Series CNC bending machine | 01



UPB Series Heavy-Duty CNC bending machine | 05



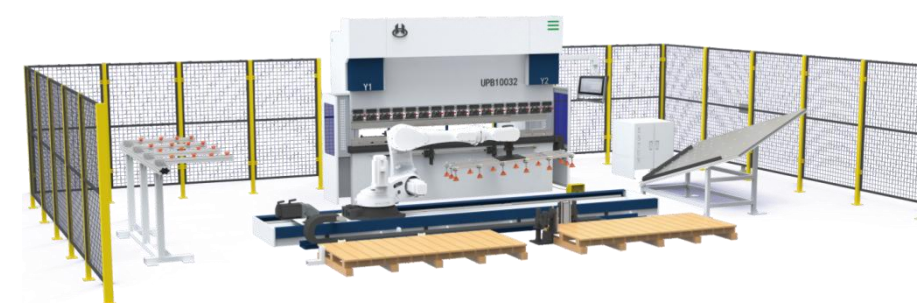
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| UPB Series CNC Bending Machine



NEW
All-new debut

CNC Hydraulic Sheet Metal Bending Machine

Parameter		Unit	63T			100T	
Model			63/1500	63/2100	63/2550	100/3200	100/4100
Nominal force		KN	630	630	630	1000	1000
Bending Length		mm	1500	2100	2550	3200	4100
Column spacing		mm	1200	1600	2050	2700	3600
Closed altitude		mm	580 (480)	580 (480)	580 (480)	580 (480)	580 (480)
Throat depth		mm	350	350	350	390	390
Main motor power		Kw	8.7	8.7	8.7	10.8	10.8
Fuel tank capacity		L	130	170	200	300	400
Stroke of each axis	Cylinder stroke	mm	215	215	215	215	215
	X-axis travel	mm	500	500	500	500	500
	R-axis travel	mm	200	200	200	200	200
	Z-axis travel	mm	600	1000	1400	2100	3000
Efficiency value	Y-axis downward speed	mm/s	185	185	185	220	220
	Y-axis feed rate	mm/s	19	19	19	17	17
	Y-axis return speed	mm/s	180	180	180	210	180
	X-axis feed rate	mm/s	400	400	400	400	400
	R-axis feed rate	mm/s	200	200	200	200	200
	Z-axis feed rate	mm/s	1200	1200	1200	1600	1600
Accuracy value	Y-axis repeat positioning accuracy	mm	±0.01	±0.01	±0.01	±0.01	±0.01
	X-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02
	R-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02
	Z-axis positioning accuracy	mm	±0.1	±0.1	±0.1	±0.1	±0.1
	V-axis positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02
Overall dimensions	Length	mm	2000	2600	3150	3720	4620
	Width	mm	1620	1620	1620	1720	1720
	Height	mm	2470	2470	2500	2550	2550

The dimensions in parentheses are the parameters of the hydraulic compensation structure.

Main Technical Parameters

Parameter		Unit	150T		220T(250T)		320T	
Model			150/3200	150/4100	220/3200	220/4100	320/3200	320/4100
Nominal force		KN	1500	1500	2200	2200	3200	3200
Bending Length		mm	3200	4100	3200	4100	3200	4100
Column spacing		mm	2700	3600	2700	3600	2700	3600
Closed altitude		mm	580 (480)	580 (480)	580 (480)	580 (480)	580 (480)	580 (480)
Throat depth		mm	405	405	405	405	405	405
Main motor power		Kw	13.2	13.2	16.7	16.7	22	22
Fuel tank capacity		L	300	400	300	400	360	480
Stroke of each axis	Cylinder stroke	mm	215	215	215	215	315	315
	X-axis travel	mm	500	500	500	500	500	500
	R-axis travel	mm	200	200	200	200	200	200
	Z-axis travel	mm	2100	3000	2100	3000	2100	3000
Efficiency value	Y-axis downward speed	mm/s	180	180	160	160	130	130
	Y-axis feed rate	mm/s	14	14	12	12	9.5	9.5
	Y-axis return speed	mm/s	180	170	160	150	120	120
	X-axis feed rate	mm/s	400	400	400	400	400	400
	R-axis feed rate	mm/s	200	200	200	200	200	200
	Z-axis feed rate	mm/s	1600	1600	1600	1600	1600	1600
Accuracy value	Y-axis repeat positioning accuracy	mm	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
	X-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
	R-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
	Z-axis positioning accuracy	mm	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
	V-axis positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
Overall dimensions	Length	mm	3780	4680	3830	4730	3830	4760
	Width	mm	1730	1730	1800	1800	2100	2100
	Length	mm	2600	2600	2670	2670	3250	3250

For 320t and above, due to the larger tonnage, asynchronous motors are used.

| UPB Series Heavy-Duty CNC Bending Machine



NEW
All-new debut

CNC Hydraulic Sheet Metal Bending Machine

Main Technical Parameters

Parameter		Unit	320T		400T			
Model			320/5000	320/6000	400/3200	400/4100	400/5000	400/6000
Nominal force		KN	3200	3200	4000	4000	4000	4000
Bending Length		mm	5000	6000	3200	4100	5000	6000
Column spacing		mm	4400	5100	2700	3600	4400	5100
Closed altitude		mm	580	580	580(680)	580(680)	580	580
Throat depth		mm	405	405	405	405	405	405
Main motor power		Kw	22	22	30	30	30	30
Fuel tank capacity		L	700	800	500	600	700	800
Stroke of each axis	Cylinder stroke	mm	315	315	315	315	315	315
	X-axis travel	mm	500	500	500	500	500	500
	R-axis travel	mm	200	200	200	200	200	200
Efficiency value	Y-axis downward speed	mm/s	120	120	100	110	110	110
	Y-axis feed rate	mm/s	9	9	8	8	8	8
	Y-axis return speed	mm/s	100	100	90	85	85	85
	X-axis feed rate	mm/s	250	250	400	400	250	250
	R-axis feed rate	mm/s	200	200	200	200	200	200
Accuracy value	Y-axis repeat positioning accuracy	mm	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
	X-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
	R-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
	V-axis positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
Overall dimensions	Length	mm	5500	6500	3750	4650	5500	6500
	Width	mm	2150	2200	2200	2200	2200	2200
	Length	mm	3300	3650	3300	3300	3300	3650

Default with hydraulic compensation; the dimensions in parentheses are parameters for mechanical compensation.

Parameter		Unit	500T			600T	
Model			500/4100	500/5000	500/6000	600/5000	600/6000
Nominal force		KN	5000	5000	5000	6000	6000
Bending Length		mm	4100	5000	6000	5000	6000
Column spacing		mm	3600	4400	5100	4400	5100
Closed altitude		mm	580(680)	580	580	580	580
Throat depth		mm	500	500	500	500	500
Main motor power		Kw	37	37	37	37	37
Fuel tank capacity		L	600	700	800	700	800
Stroke of each axis	Cylinder stroke	mm	315	315	315	315	315
	X-axis travel	mm	500	500	500	500	500
	R-axis travel	mm	200	200	200	200	200
Efficiency value	Y-axis downward speed	mm/s	80	80	80	80	80
	Y-axis feed rate	mm/s	7	7	7	7	7
	Y-axis return speed	mm/s	70	70	70	70	70
	X-axis feed rate	mm/s	400	250	250	250	250
	R-axis feed rate	mm/s	200	200	200	200	200
Accuracy value	Y-axis repeat positioning accuracy	mm	±0.01	±0.01	±0.01	±0.01	±0.01
	X-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02
	R-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02
	V-axis positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02
Overall dimensions	Length	mm	5100	5800	6800	5850	6800
	Width	mm	2500	2550	2550	2900	2900
	Length	mm	3500	3300	3300	3500	3500

For 320t and above, due to the larger tonnage, asynchronous motors are used.

| DPB Series Dual-Servo CNC Bending Machine

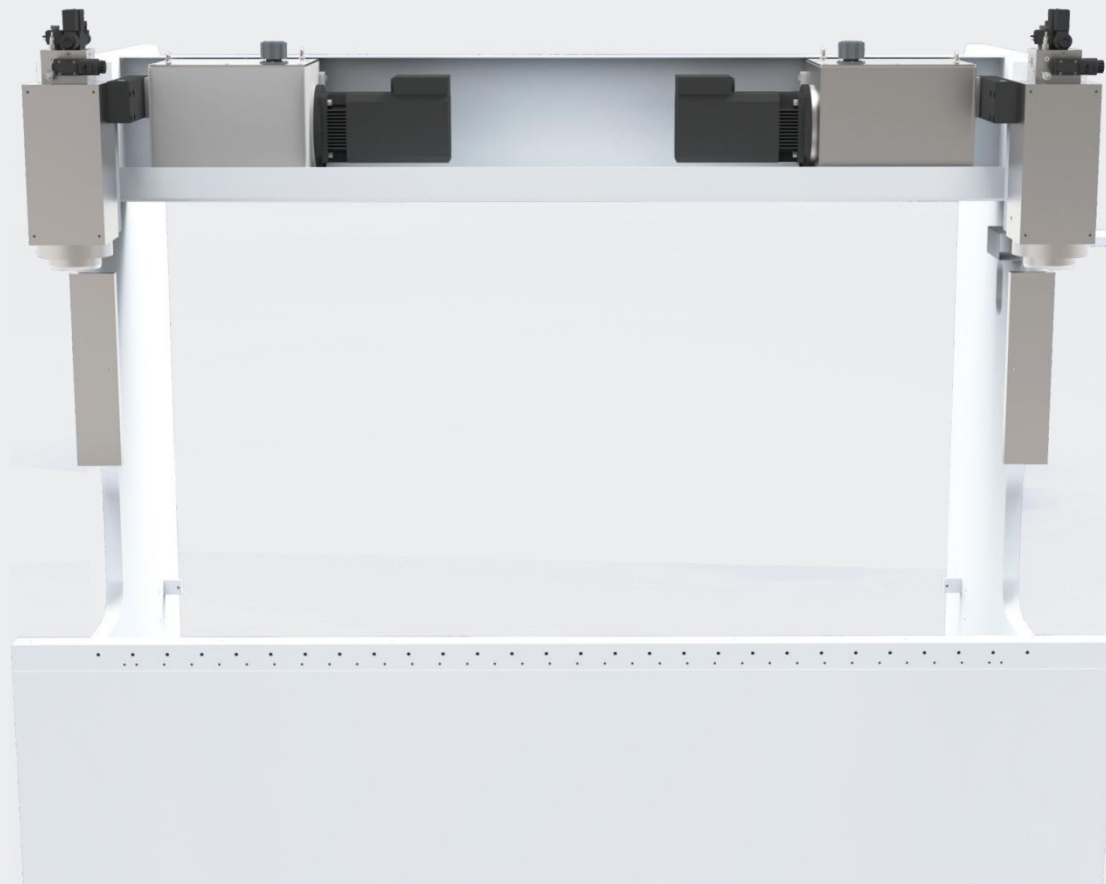


NEW
ALL-new debut

DPB Series Dual-Servo CNC Bending Machine

The DPB Series Dual-Servo CNC Bending Machine is built on a brand-new integrated design that combines the oil cylinder, oil pump and oil tank into a unified system. It brings multiple performance advantages compared with traditional electro-hydraulic bending machine:

- **Energy Saving:** Achieves 15% to 50% energy conservation
- **Compact Oil Tank:** The total oil tank volume is only 100L, which is over 60% smaller than that of traditional electro-hydraulic bending machine
- **Faster Slide Speed:** The slide running speed is increased by 10%



Main Technical Parameters

Parameter		Unit	110T		170T		200T	
Model			110/3200	110/4100	170/3200	170/4100	200/3200	200/4100
Nominal force		KN	1100	1100	1700	1700	2000	2000
Bending Length		mm	3200	4100	3200	4100	3200	4100
Column spacing		mm	2700	3600	2700	3600	2700	3600
Closed altitude		mm	580	580	580	580	580	580
Throat depth		mm	400	400	405	405	405	405
Main motor power		Kw	2×7.5	2x7.5	2x7.5	2×7.5	2×9	2×9
Fuel tank capacity		L	100	100	100	100	100	100
Stroke of each axis	Cylinder stroke	mm	200	200	200	200	200	200
	X-axis travel	mm	500	500	500	500	500	500
	R-axis travel	mm	200	200	200	200	200	200
	Z-axis travel	mm	2100	3000	2100	3000	2100	3000
Efficiency value	Y-axis downward speed	mm/s	250	250	220	220	200	200
	Y-axis feed rate	mm/s	20	20	18	18	16	16
	Y-axis return speed	mm/s	230	200	200	190	180	170
	X-axis feed rate	mm/s	400	400	400	400	400	400
	R-axis feed rate	mm/s	200	200	200	200	200	200
	Z-axis feed rate	mm/s	1600	1600	1600	1600	1600	1600
Accuracy value	Y-axis repeat positioning accuracy	mm	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
	X-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
	R-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
	Z-axis positioning accuracy	mm	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
	V-axis positioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
Overall dimensions	Length	mm	3720	4620	3780	4680	3830	4730
	Width	mm	1720	1720	1730	1730	1800	1800
	Length	mm	2550	2550	2600	2600	2670	2670

Note: Changes to parameters and configurations are subject to change without prior notice.

EPB Series CNC Fully Electric Servo Sheet Metal Bending Machine

Main Technical Parameters



✓ Product Highlights

- **Oil-Free & Eco-Friendly:** Direct-drive servo motor replaces hydraulic systems, keeping your worksp ace clean.
- **30%–70% Energy Savings:** Near-zero power use when the slide stops, cutting operational costs.
- **1-2X Faster Processing:** High-response servo motor delivers unmatched productivity.
- **Tailored Bending Performance:** Adjustable speed + algorithm optimization ensure high accuracy for all workpiece types.
- **Simplified High-Force Design:** No belts or reducers — servo motor directly drives the screw for strong bending force and fast feed speed.

Parameter		Unit	60T		
Model			6015	6021	6025
Nominal force		KN	600	600	600
Bending Length		mm	1500	2100	2550
Column spacing		mm	1200	1600	2050
Closed altitude		mm	520	520	520
Throat depth		mm	300	300	300
Main motor power		Kw	2*15	2*15	2*15
Stroke of each axis	Cylinder stroke	mm	165	165	165
	X-axis travel	mm	500	500	500
	R-axis travel	mm	200	200	200
	Z-axis travel	mm	600	1000	1400
Efficiency value	Y-axis downward speed	mm/s	180	180	180
	Y-axis feed rate	mm/s	30	30	30
	Y-axis return speed	mm/s	160	160	160
	X-axis feed rate	mm/s	400	400	400
	R-axis feed rate	mm/s	200	200	200
	Z-axis feed rate	mm/s	1200	1200	1200
Accuracy value	Y-axis repeat positioning accuracy	mm	±0.01	±0.01	±0.01
	X-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02
	R-axis repeat positioning accuracy	mm	±0.02	±0.02	±0.02
	Z-axis positioning accuracy	mm	±0.1	±0.1	±0.1
	V-axis positioning accuracy	mm	±0.02	±0.02	±0.02
Overall dimensions	Length	mm	2200	2800	3200
	Width	mm	1880	1880	1880
	Length	mm	2600	2600	2600

Note: Changes to parameters and configurations are subject to change without prior notice.

| Dual-machine Linked CNC Bending Machine



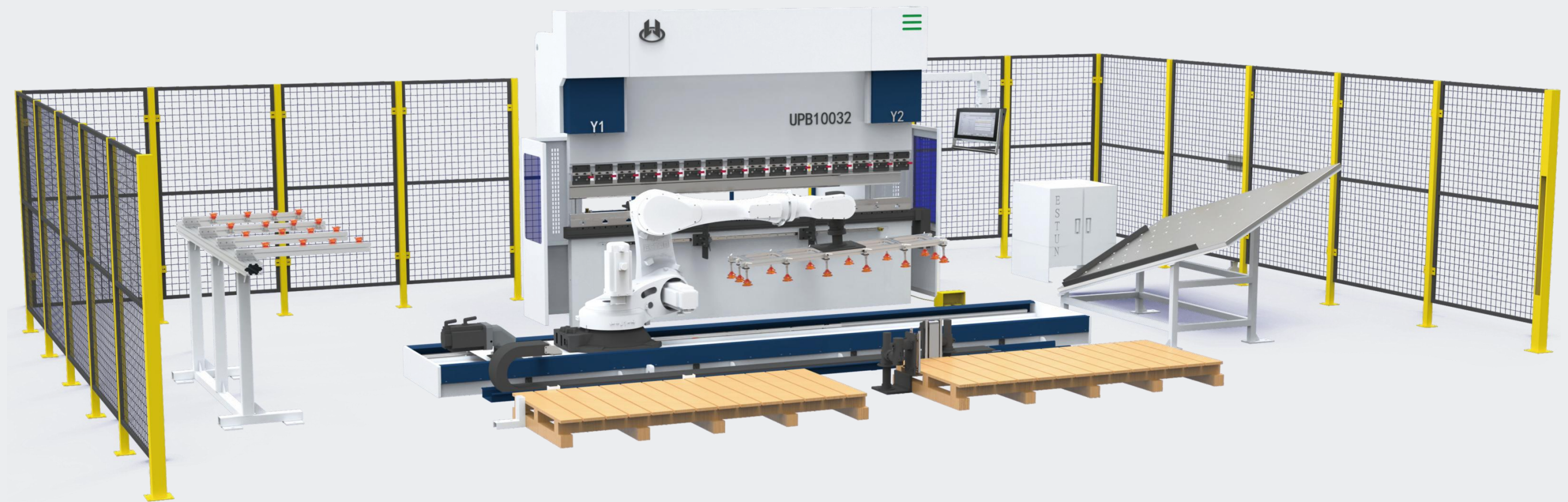
- ➡ Double-machine tandem bending machines can be customized according to requirements.
- ➡ Can be used in dual-machine linkage or single-machine operation, flexible and efficient

APB Series Robot Bending Cell

■ The seventh axis of the robot is self-made by the company, with controllable quality and arbitrarily configurable guide rail travel.

■ Can be equipped with the full range of CNC press brakes

■ Various robotic automation bending solutions can be customized according to customer requirements.



■ Effectively reduce workers' labor intensity and improve production efficiency

■ Flexible grabbing: multiple types of grippers are available to match different workpieces as per customer needs

■ High-precision displacement sensor, rear stop refers to real-time closed-loop control.

CNC System Selection Guide



Standard configuration

DELEM 53TX CNC System

- 15.6" high-resolution true-color TFT display.
- Standard 4-axis control (Y1, Y2, X, R axes), with optional Z1 and Z2 axes.
- 1GB internal storage capacity
- USB storage interface, RS232 interface
- Die library: 30 upper dies, 30 lower dies
- Built-in programmable PLC, stable and reliable, reduces hardware wiring via logic adjustment
- One-page parameter rapid programming, navigation shortcuts keys.
- Automatic Calculation of Worktable Deflection Compensation.
- Standard data programming; optional graphic programming, supporting large arc and bottoming bending
- Automatic calculation of bending force, die safety zone
- Online analytics tool.
- Angle Correction Database.
- System Diagnostic Function.
- Dellem-Linux operating platform: ensures stable operation, supports instant shutdown; standard offline programming software
- Optional dual-machine linkage function.
- Diagnosis function: monitors I/O digital quantity, analog quantity and axis status
- Automatic accumulation of machine working hours and bending count.



Laimore MT15 CNC System

- Linux operating system, supports instant shutdown
- Multi-language selection, configurable Chinese interface for easy operation
- Stylish, user-friendly design that prioritizes human-centric operation
- Three programming modes: data product programming, graphical product programming, debugging-specific programming.
- 15.6" TFT capacitive touch screen, supports multi-touch, 32-bit color, 1920*1080 resolution.
- Supports servo pumps, built-in pressure amplifier, quad-core processor, 1.8GHz main frequency,
- Standard USB port, network port, and I/O communication port.
- Stores up to 100,000 products and 9999 die sets
- Maximum 999 work step cycles, maximum 9999 counts
- Programmable bending speed per step, real-time die graphic display
- Automatic calculation of bending process, opening height, unfolding length and X/R axis positions
- Optional deflection compensation (hydraulic or mechanical); automatic bending force calculation and proportional control
- Curve analysis, pre-commissioning analysis, expandable angle correction database
- Die safety zone calculation, automatic large arc calculation
- Supports electro-hydraulic hybrid or all-electric bending machines, Supports robot interaction and double-machine linkage, Supports multi-unit follow-up material support
- Can be integrated into automated production lines
- Optional 6+1 axes and 8+1 axes

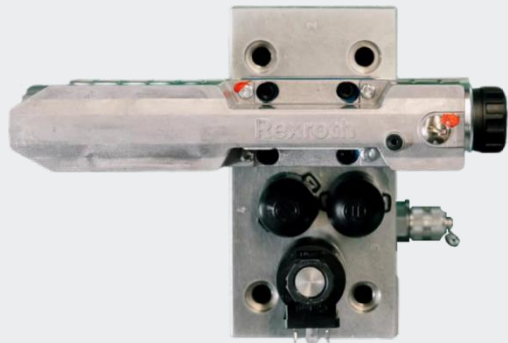
Optional configuration

DELEM 66S CNC System(Optional)

- Adopts a real-time Linux embedded OS, enabling instant shutdown.
- Multi-language selection, configurable Chinese interface for easy operation.
- Stylish, user-friendly design that prioritizes human-centric operation.
- Intelligent modular structure, the system can flexibly expand to 24 axes
- Memory capacity: 4G.
- 24" TFT high-brightness LCD display touch screen: multi-touch support, 32-bit color, 1920×1080 resolution.
- Built-in programmable PLC: stable and reliable, reducing hardware wiring via logic.
- Standard ports: USB, flash drive, network, RS232 communication, angle gauge, and safety PLC.
- Automatic accumulation of machine working hours and bending counts.
- Product annotation/comment editing, product marking, calculator functions.
- Digital and 2D graphical full-touch programming, 3D viewing of bending processes, automatic generation of bending sequences, and bending simulation.
- 1:1 scalable graphics of machine appearance, dies and workpieces.
- Digital and graphic die programming: supports flattening dies, large arc dies, multi-V-slot dies, and variable V-slot dies; die quick-clamp function included.
- Automatic angle correction database, self-learning bending tolerance table, and omnidirectional collision detection function error warning system to prevent operational mistakes.
- Built-in production management software for productivity statistics.
- Remote and on-site diagnosis functions: monitors I/O digital/analog quantities, axis status, and real-time machine data via dedicated analysis software.
- Bending-specific offline programming software: reduces programming time and improves efficiency.
- Embedded PDF browser, file management system, text editor.



Standard Configuration



Hydraulic System

Bosch Rexroth components for low noise + leak-free, clean oil circuit.

Main Servo System

Energy-saving servo motors, lower oil temp, longer hydraulic part life.



Mechanical Compensation System

Domestic leading device, multi-point slope compensation, fits double/single-V dies.



Die Installation

Die Installation: Push-pull quick-clamping (upper die); quick/ultra-quick solution (lower die), supports single-V/mechanical clamping.

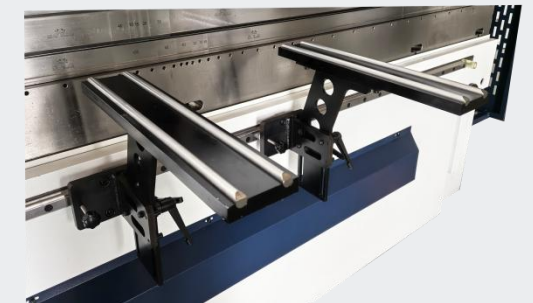


Push-Pull Quick Clamp

- High-precision mechanical push-pull clamp (upper die)
- No loosening/falling; minimal small-angle bending interference
- Optional double-sided quick clamp

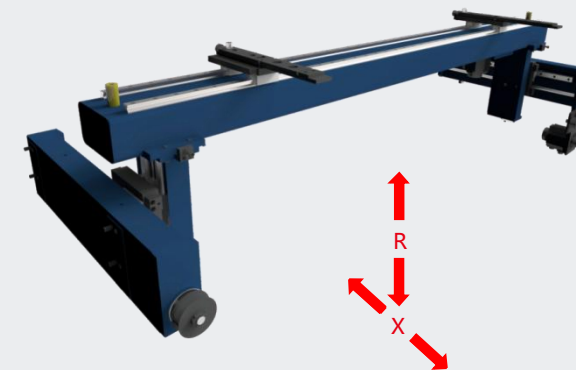
Front Material Support Device

- Flexible worktable positioning
- Sleek aluminum alloy table; 180° rotatable (avoids workpiece interference)
- Optional mobile support frame



Rear Material Blocking Device

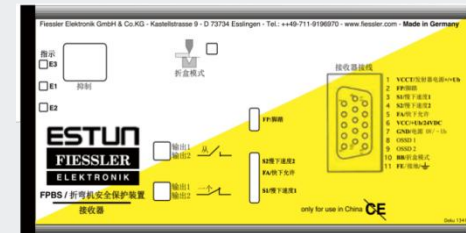
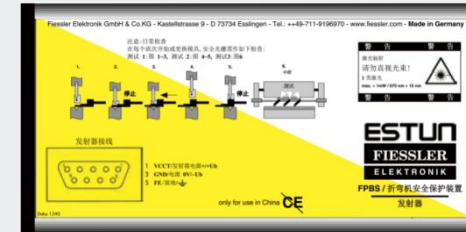
- Standard X/R axis; double-row linear guides (stable, easy to operate)
- Steel-welded structure + thickened beam (high deformation resistance)
- Smooth operation + precise positioning; expandable axis options



Optional Equipment

Hydraulic Compensation System (Optional)

- Auto deflection compensation for better workpiece straightness/bending angles
- Available for select models



Safety Light Curtain(Optional)

- Instant alarm + machine stop if foreign objects enter the work area

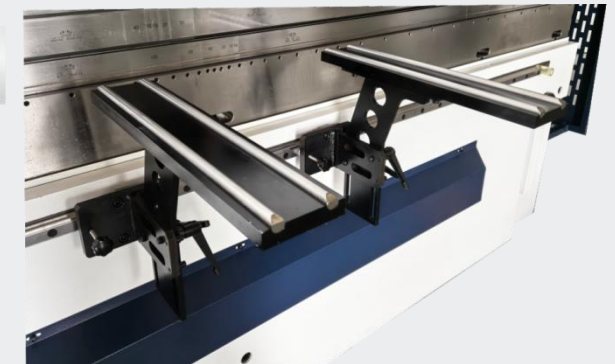


Automatic Clamping System (Optional)

- Cost-effective domestic hydraulic clamping (70% faster die setup)
- Compatible with universal sliders; auto die clamping/calibration

Mobile Front Material Support (Optional)

- Left/right movable (linear guides)
- Wear-resistant high-strength steel support; up/down adjustable
- Single load $\leq 80\text{kg}$



Bending Follow-Up Device (Optional)

- Reduces labor intensity
- Optional floor-mounted and machine-integrated installation structures.
- Existing machines can also be retrofitted (only floor-mounted).
- Multiple load models for any bending machine



Optional original Dutch WILA hydraulic clamping (For select models)

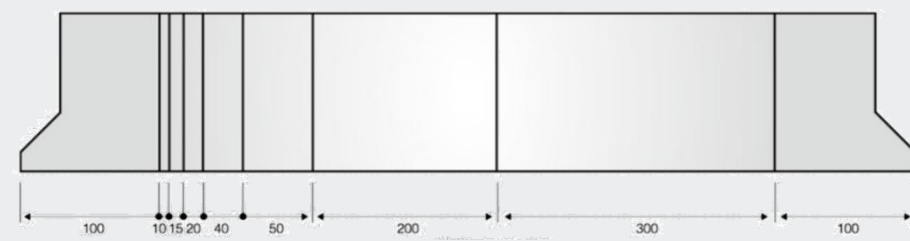
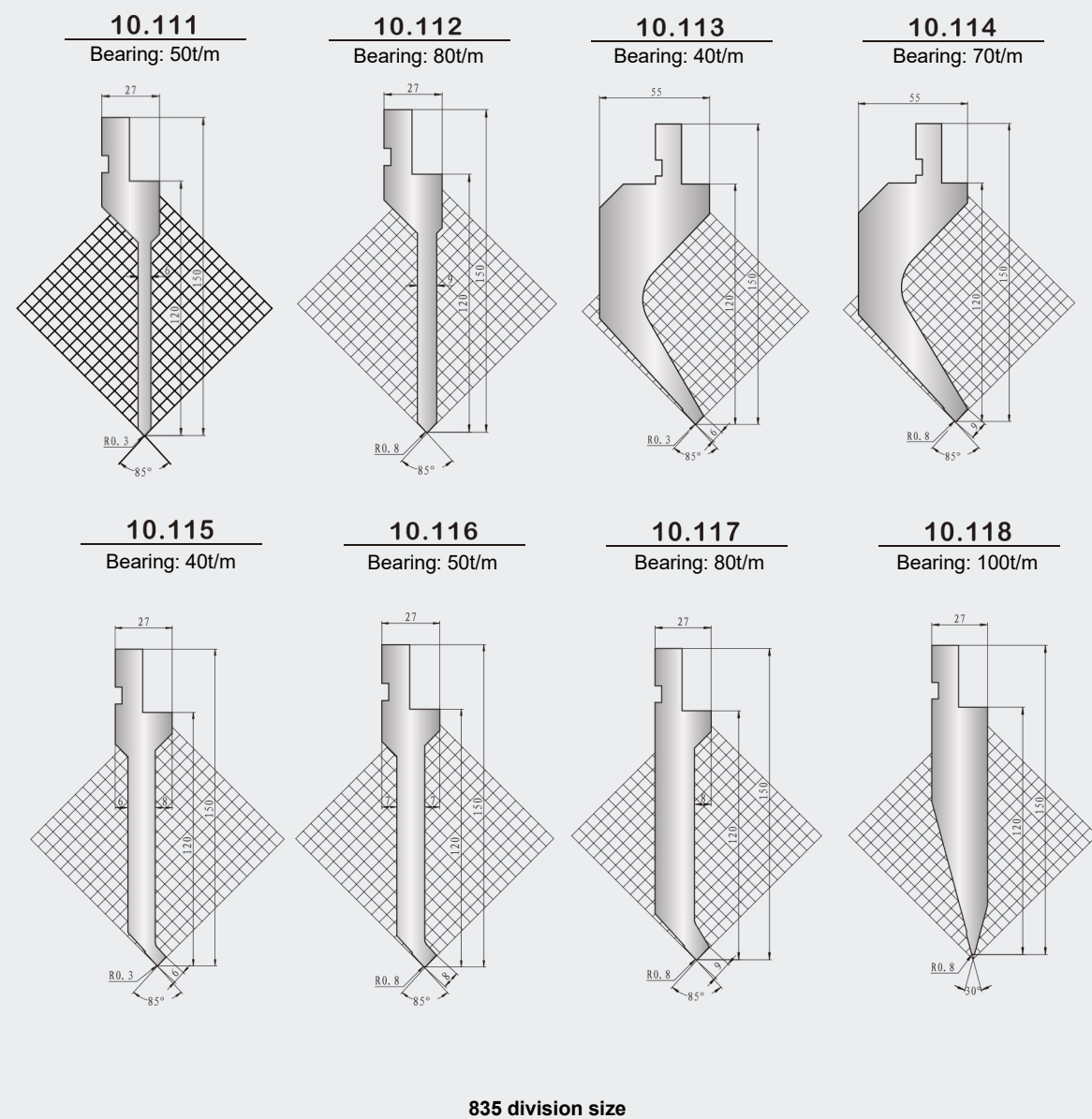


CNC Hydraulic Bending Machine

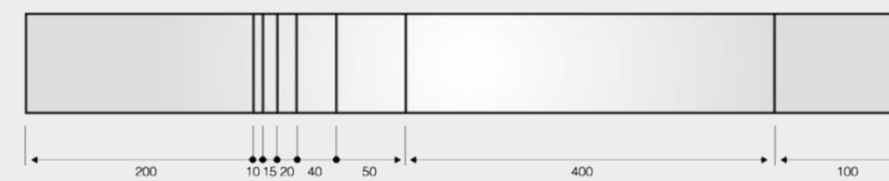
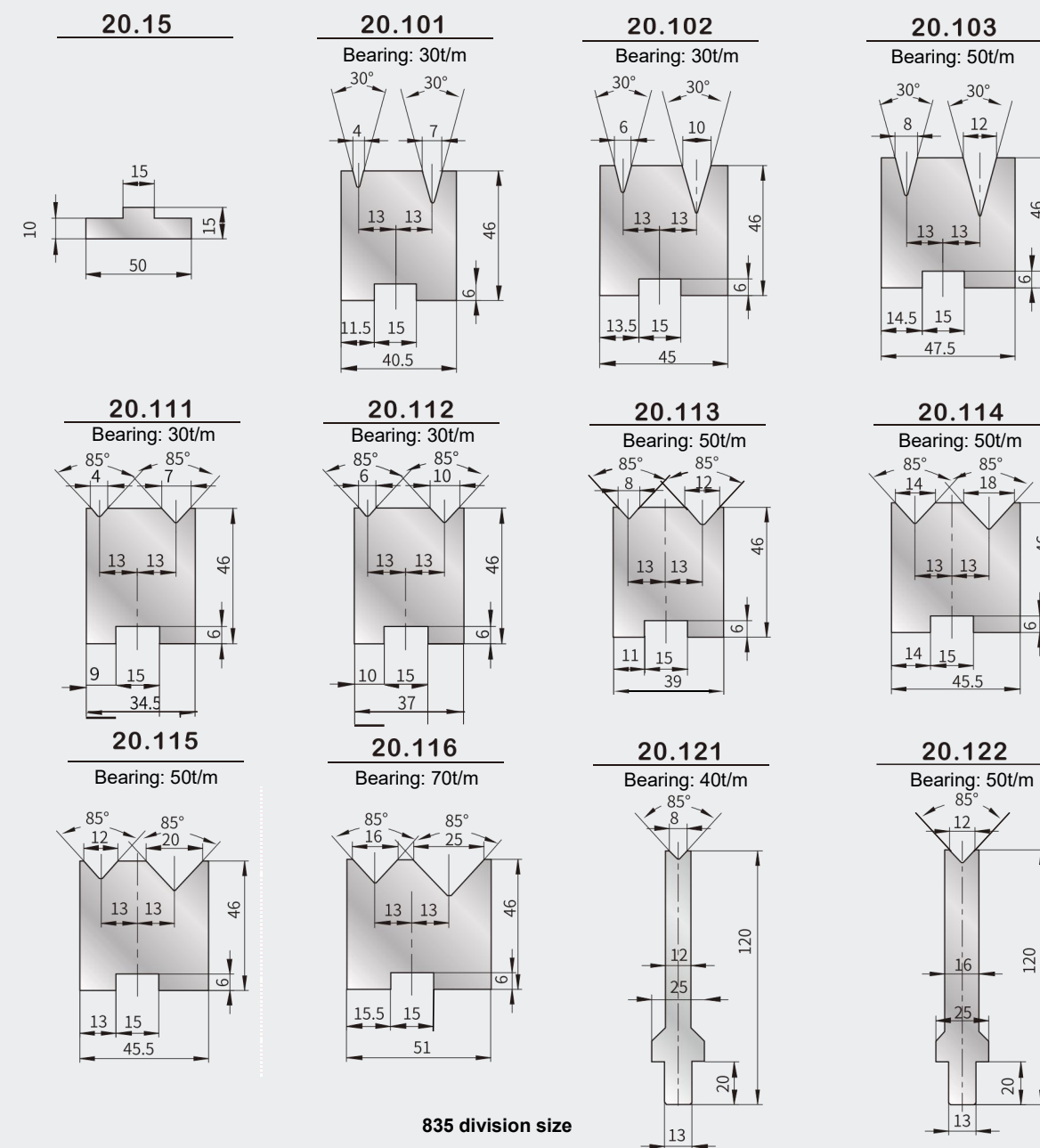
Standard upper die

Mold Standard Configuration

Standard lower die



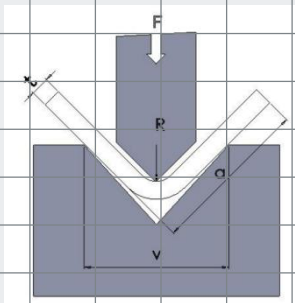
Upper mold standard division diagram



Lower mold standard division diagram

Bending Tonnage Calculation Table

V	a	R	0.5	0.8	1	1.2	1.5	2	2.5	3	4	5	6	8	10	12	16	18	20
6	4.5	1	2.5	7	11														
8	5	1.2		4.8	8	12													
10	7	1.6			6	9	15												
12	8.5	2				7	12	23											
16	12	2.5					8	16	26										
18	13	2.8						13	22										
20	15	3						12	20	30									
24	17	3.5						9.5	15	24	44								
32	23	5							11	16	31	53							
35	25	5.5								14	28	47							
40	28	6								12	23	43	61						
50	35	8									18	31	45	88					
60	43	9.5										25	36	69					
63	45	10										34	65	110					
80	57	12											47	80	120				
100	71	15.5											36	60	90				
120	85	19												47	71	140			
130	92	21												43	65	125			
140	100	23												39	58	115	148		
150	105	24.5													55	105	135		
160	115	26													50	95	125		
180	130	28														81	110	140	
190	135	30														80	100	130	
200	140	32														71	95	120	
230	160	36															80	110	
260	180	40																90	



The inner diameter R is approximately 16% of the die opening width V; for free bending, it is recommended to use die opening width V

Material thickness (mm)	0.5~2.5	3~8	9~10	>12
Lower die opening width V	6 × t	8 × t	10 × t	12 × t

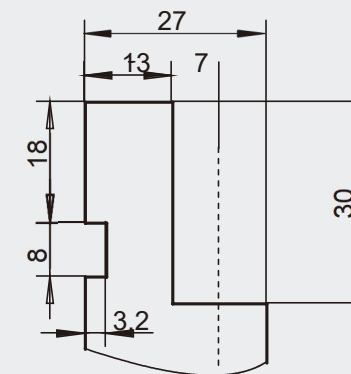
Bending Force

Aluminum	δb=300 MPa	F= F (Chart) × 0.65
Stainless steel	δb=700 MPa	F= F (Chart) × 1.6

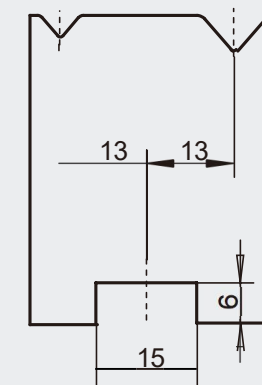
Bending Pressure Tonnage Calculation Formula (Reference Value) : F(Chart)=65×t²/V(Ton/m)

Standard upper and lower die connection and clamping method

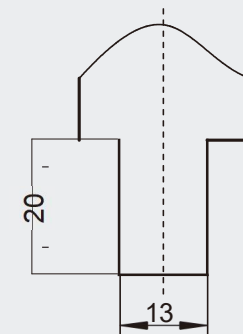
Standard European-style upper mold interface



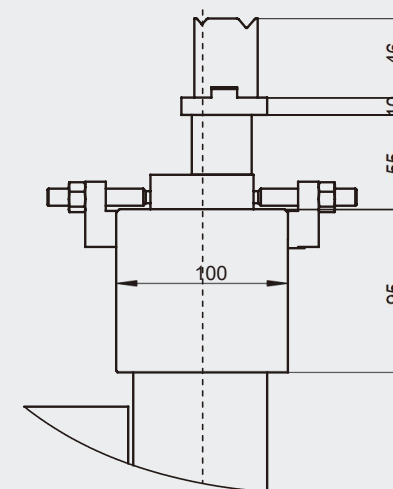
Standard double V lower die joint



Standard single V lower die joint



Double V lower die clamping method
(It can also be used for mechanical compensation with grooves)



Single V Lower Die Clamping Method

