

# QC12K HYDRAULIC SHEAR



## OUR COMPANY

For the past 40 years since 1982, our machines have been used by more than 50000 customers around the world. Over the years, ADH has focused on innovative research and development, and has become a leading manufacturer of metal sheet metal forming, laser cutting equipment and intelligent solutions.

- 40 years manufacturing & servicing experience
- Export to over 80 countries
- More than 40 technicians
- Rank top 5 in China



 EMPLOYEES

617

 PRODUCTION BASES

3

 ANNUAL SALES VOLUME

5000

 SALES/SERVICE OFFICE

67

# RELIABLE



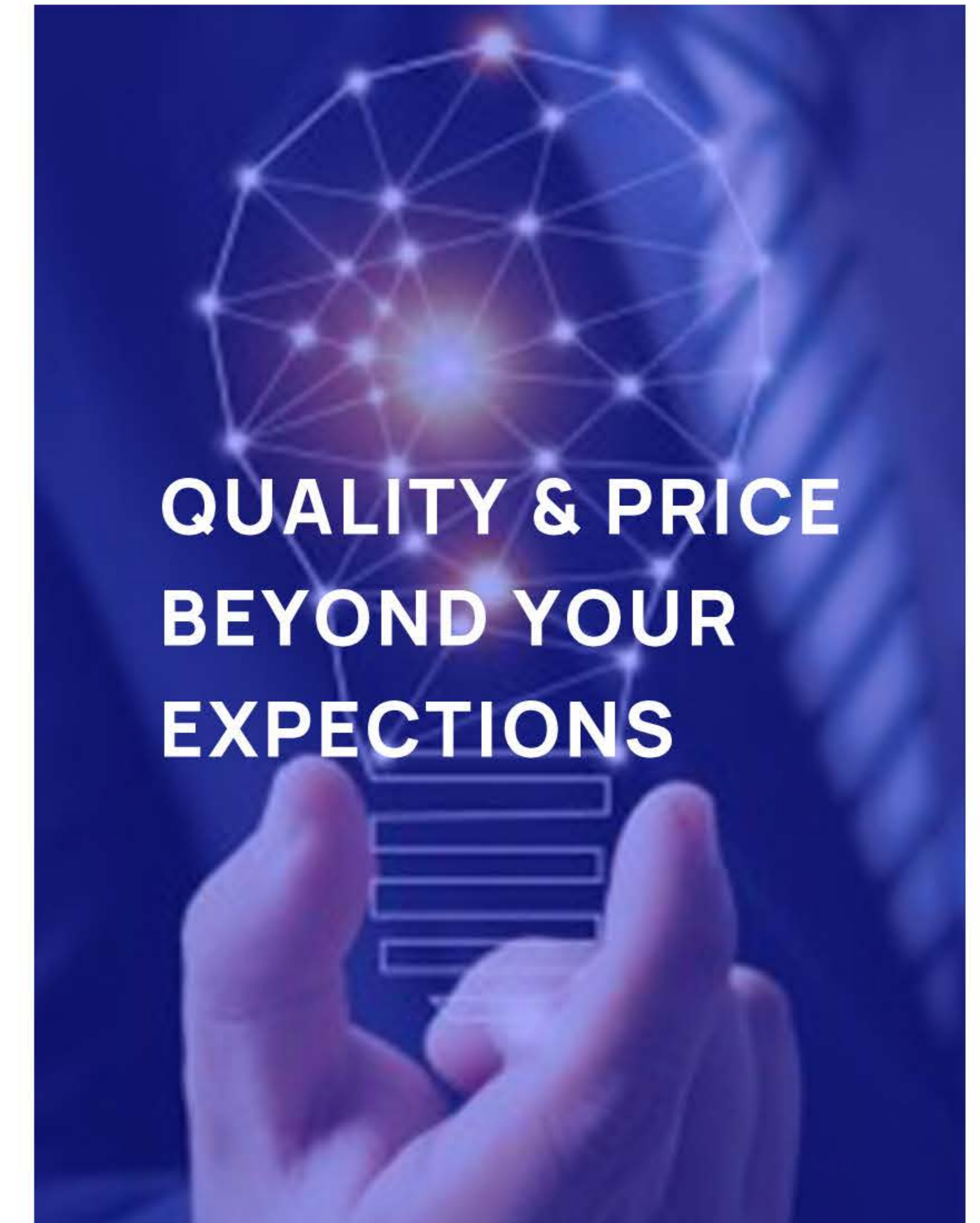
**STRONG AT  
AFTER-SALE SERVICES**



Press Brake Manufacturing

Laser Cutting Machine Manufacturing

Industrial Automation Manufacturing



**QUALITY & PRICE  
BEYOND YOUR  
EXPECTATIONS**

# HYDRAULIC SHEAR MACHINE

## QC12K SERIES

### SWING BEAM TYPE

- Steel plate welded structure
- Hydraulic transmission
- Nitrogen cylinder return
- Easy operation
- Reliable performance
- Beautiful appearance
- Light alignment device
- Overload protection
- Rolling material support ball
- Adopt safety protection fence
- Straightness: +0.10mm
- 50% faster than others
- Blade material 6CrW2Si/H13
- Heat treatment: 55-60HB
- Low noise (70bd)
- E21s,E200PS,DAC310S CNC system



## STANDARD

- Hydraulic Valve: Rexroth
- Electrics: Schneider
- Oil Pump: Sunny
- Oil Cylinder: Made in China
- 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
- Blade: Standard materials: 9GrSi/6CrW2Si
- Pedal Switch: Simple Emergency Stop Type
- Controller: E21S

## OPTIONAL

- Main Motor: WNM
- Ball Screw Rod: HIWIN
- Linear Guide: HIWIN
- Front Support: Scale Adjustment Support/Angle Adjustment Support
- Line Alignment Device: Laser Marking Device/Line Alignment
- Front Fence: Light Curtain Protection/Section Upturned
- Rear Protection: Light Curtain Protection/Rear Fence
- Pneumatic Support: Pneumatic Rear Support
- Hydraulic Oil Cooling Device: Air Cooling Device
- Blade: H13
- Pedal Switch: Roller Pedal Switch

# EQUIPMENT FEATURES



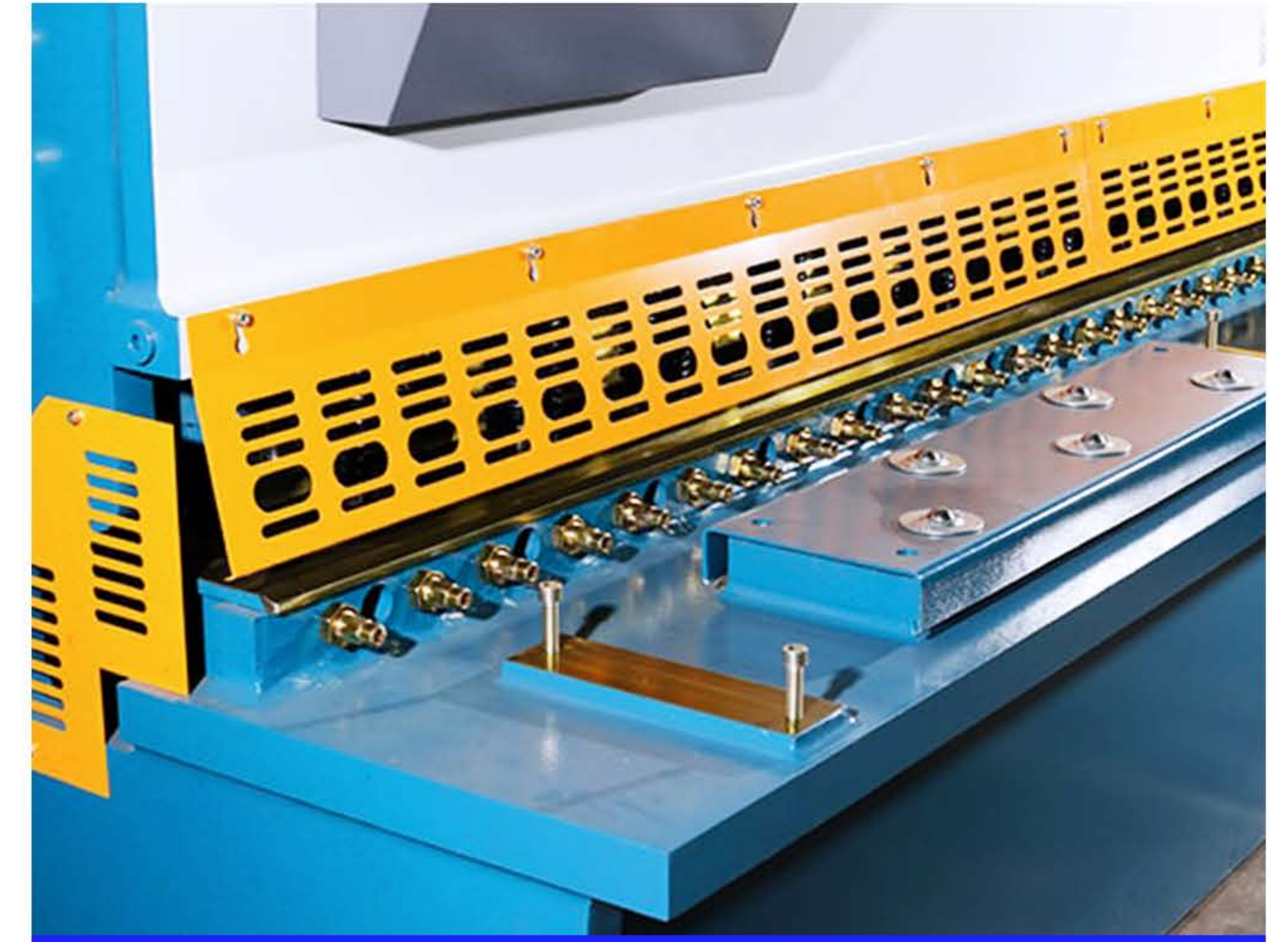
## FRONT VIEW

- The frame and the tool holder adopt the overall welded structure, which is relieved by annealing, has high mechanical strength, good rigidity and good precision retention.



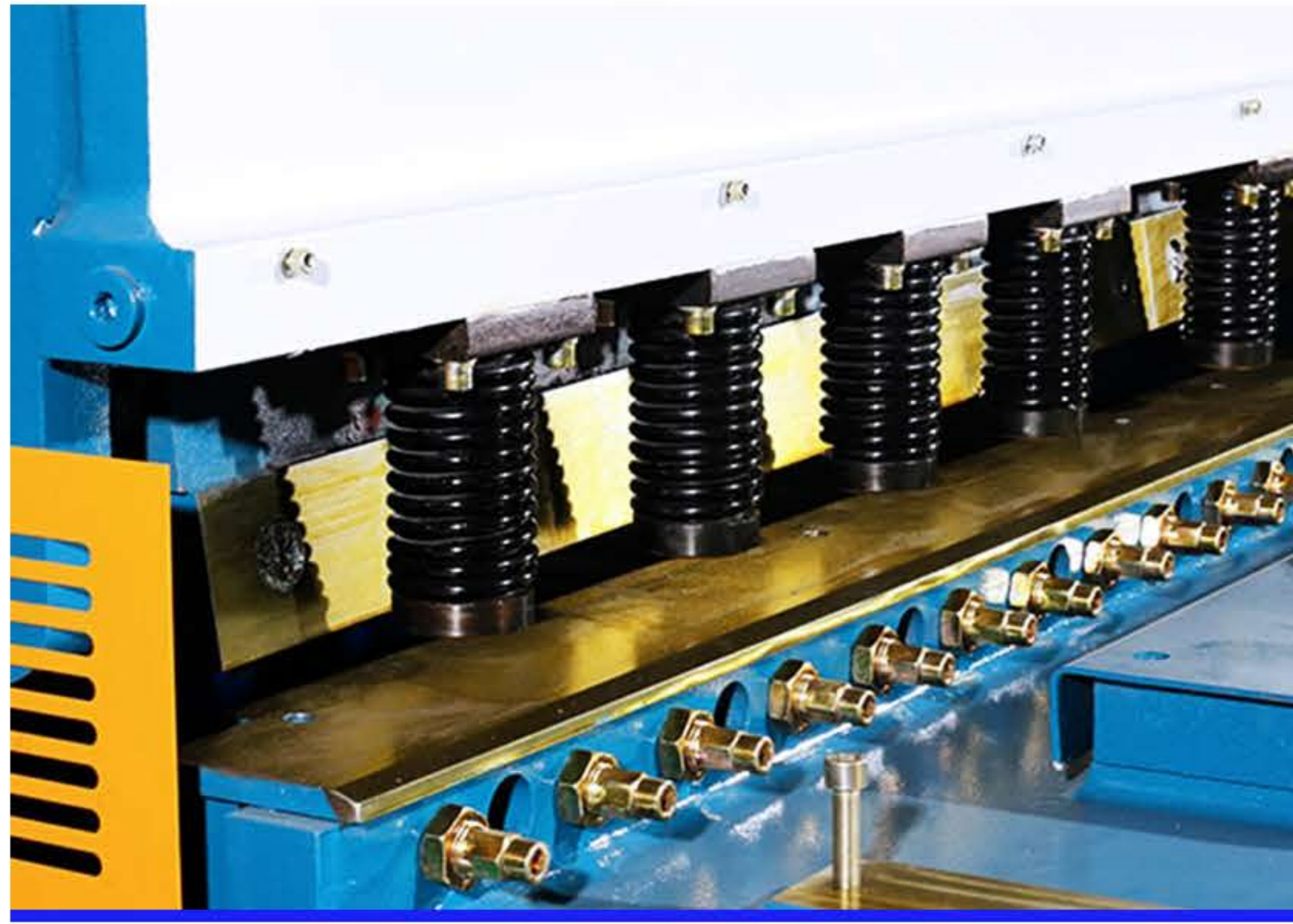
## BACK VIEW

- The tool holder body adopts a three-point support rolling guide rail, and the three fulcrums are all in the form of rollers, which minimizes the friction force and ensures the gapless rolling during the movement of the tool holder.



## BALL INTEGRATED FRONT TABLES

- Rolling steel balls will be helpful to reduce surface scratches on the sheet.



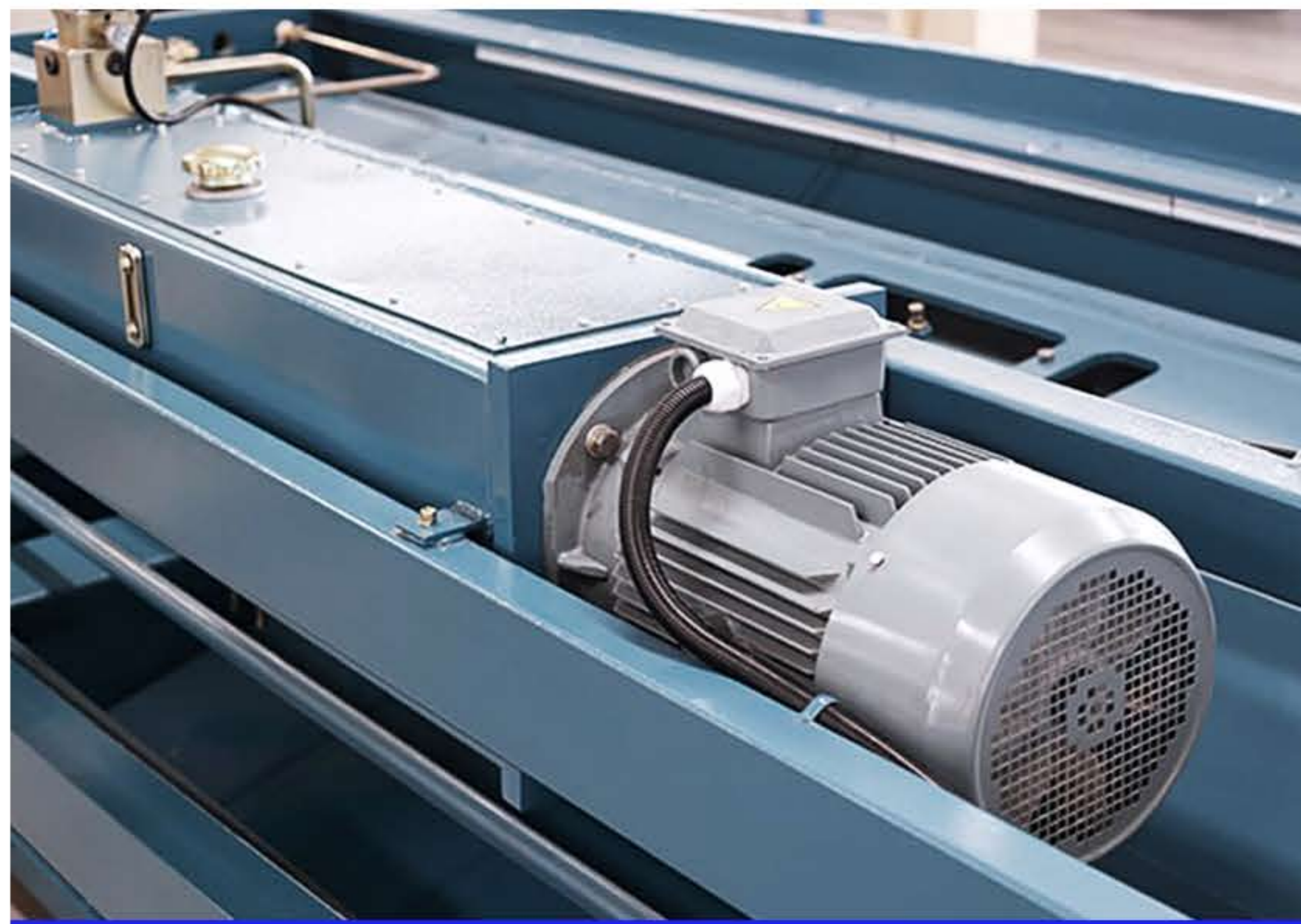
## HYDRAULIC HOLD-DOWN PADS

- The lower end of the press cylinder is made of non-metal material, which has certain elasticity and large friction coefficient.
- When cutting the sheet, the press pad can be in close contact with the material plate to provide sufficient friction to effectively prevent the plate from being shaken during the shearing process.



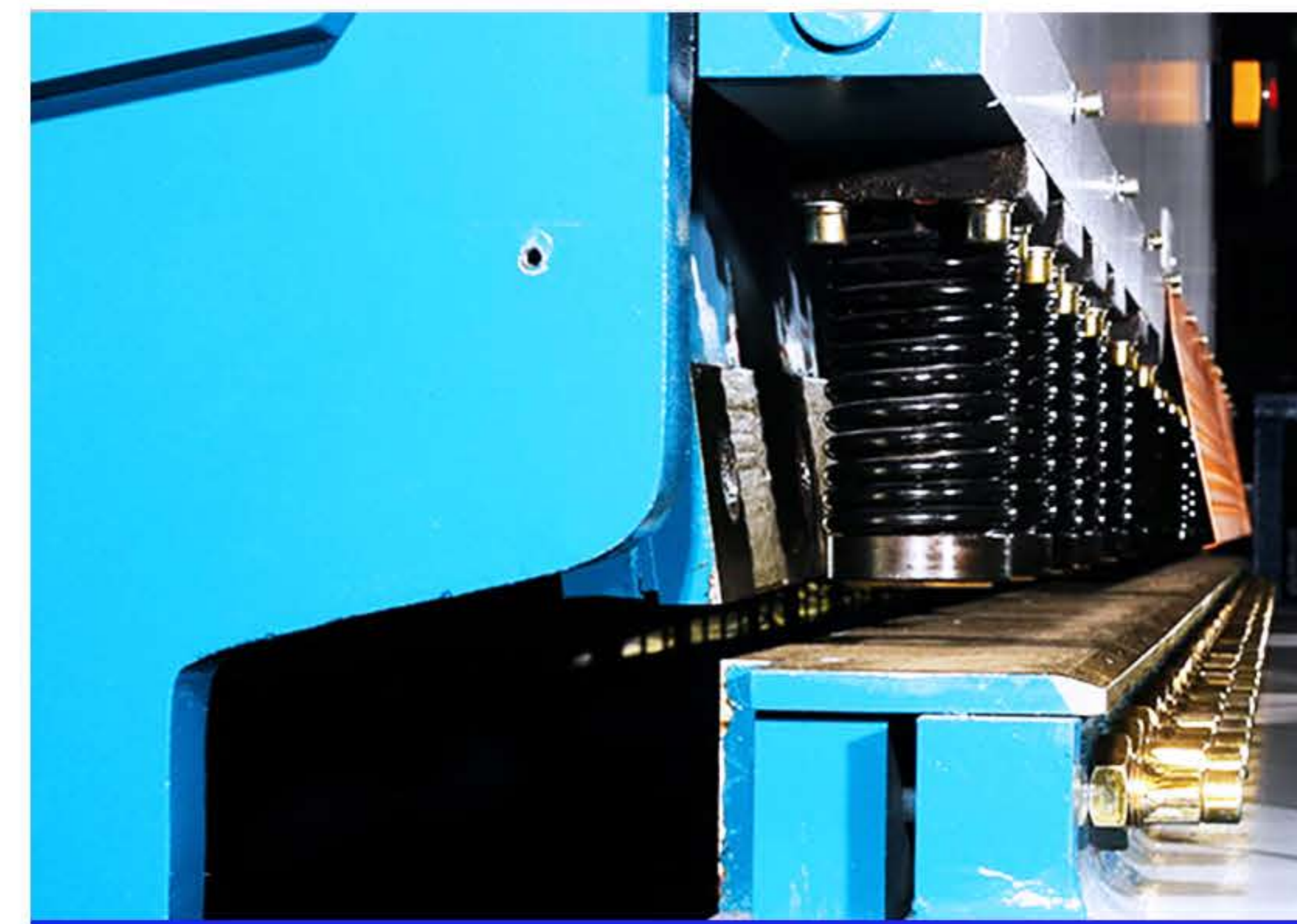
## BALL SCREW

- Taiwan HIWIN ball screw is adopted to ensure the movement of the backgauge in high precision.



## SIEMENS MOTOR

- We're using the Siemens motor to ensure the service life of the machine.



## BLADE

- Blade material 6CrW2Si.
- Only the highest quality cutting blades are used to ensure the longest service life and the least number of sharpenings.



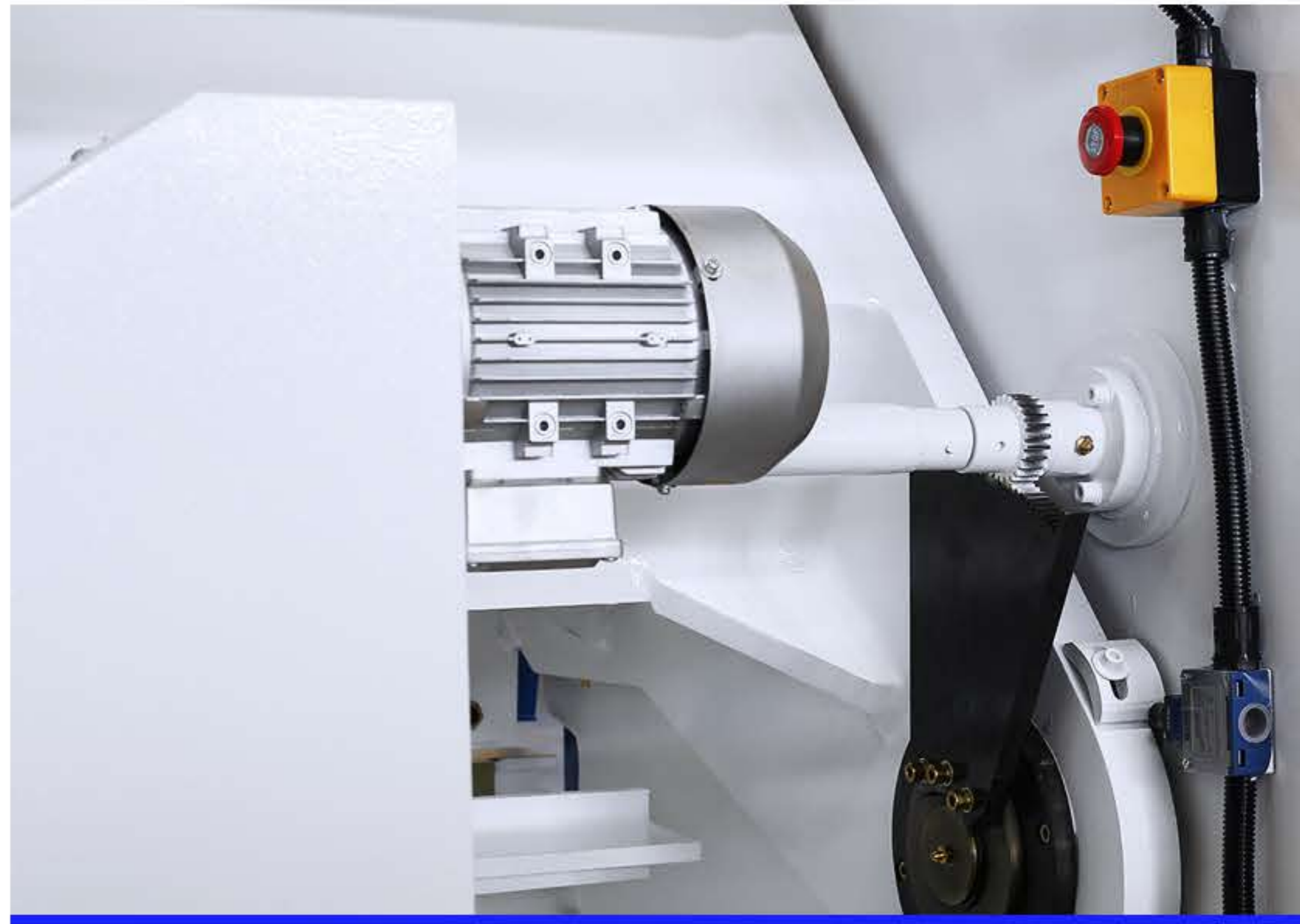
## HYDRAULIC VALVE

- The BOSCH (Rexroth) integrated hydraulic system is compact.
- The system pressure control adopts electro-hydraulic portional pressure valve, and the whole process pressure can be programmed and controlled to ensure stable and reliable machine performance.



## BACKGAUGE MOTOR

- The backgauge motor is step motor.



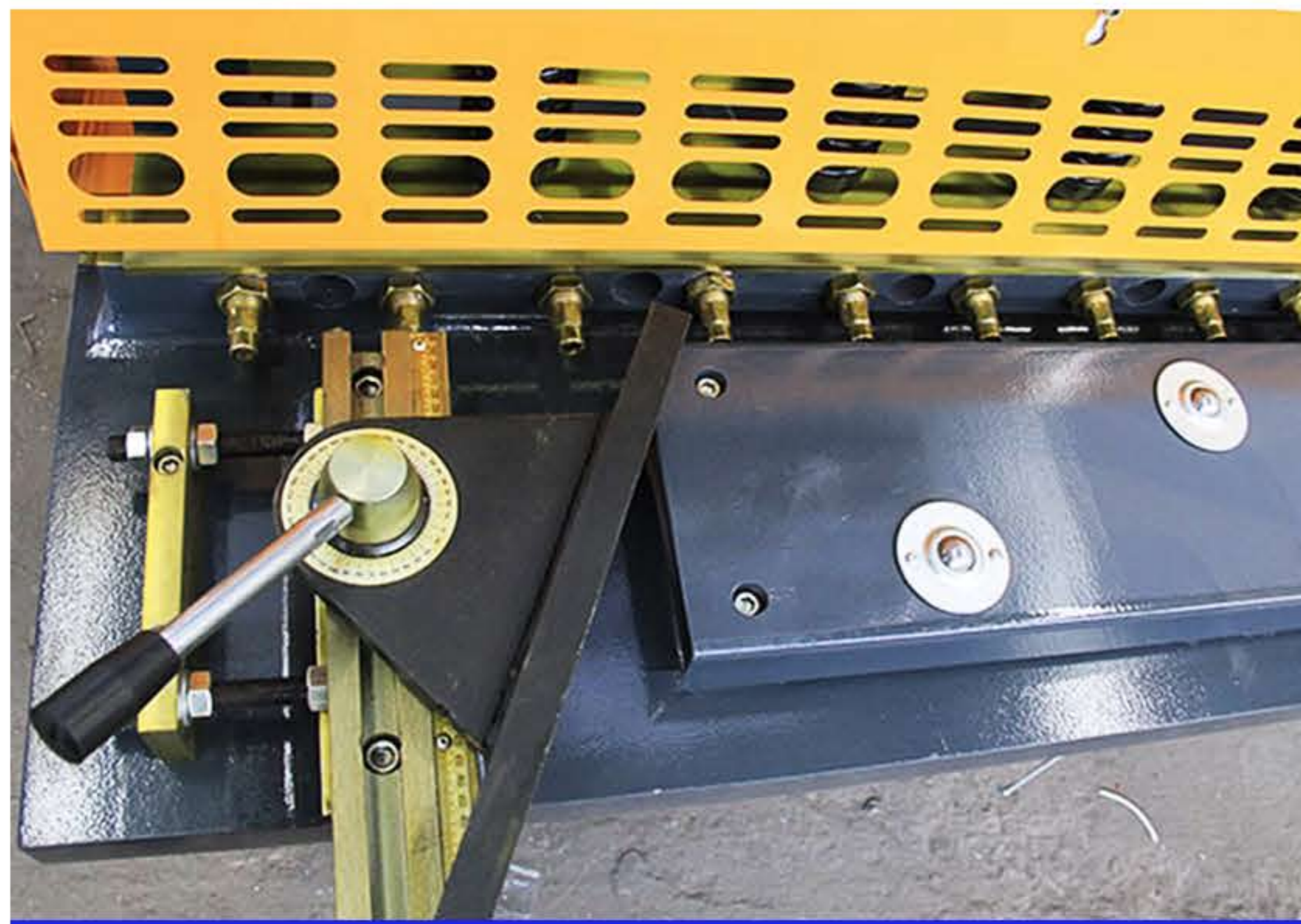
## EMERGENCY STOP

- The emergency stop button will be used if you need to stop the machine in emergent condition.



## PREMIUM BACKGAUGE

- With high quality and precise backgauge which is controlled by servo motor.



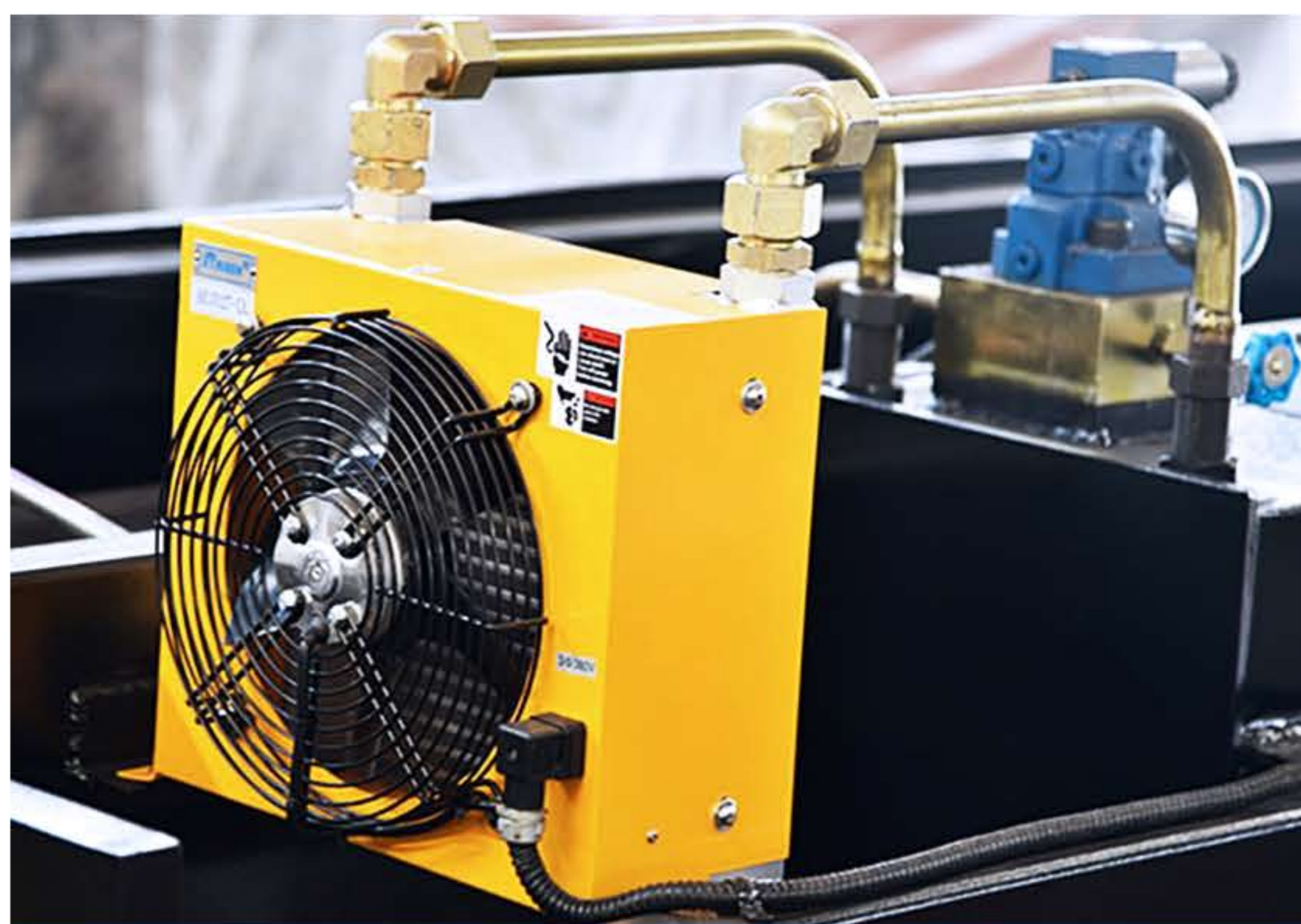
## ANGLE POSITIONING

- The angle positioning device has a scale rod, which is quickly processed and applied by a manual positioning lock to cut irregular sections.
- It can rotate 360.



## REAR LIGHT CURTAIN

- For the protection of the back side.



## COOLING SYSTEM

- Cooling hydraulic oil.



## CONTROLLER

- The E21S system provides Chinese-English operation interface, which can store 40 programs, 25 steps per program, and has a workpiece counting function.
- The E21S system can control the back gauge through the inverter plus the ordinary motor, and has a single-bilateral positioning function and a back-off function.



QUALITY  
IS  
WHAT  
WE  
PURSUE



# QC12K HYDRAULIC SHEAR



## ESTUN E21S

- HD LCD display, with both Chinese and English language options, a display programming parameters, faster and more convenient programming
- Backgauge control: Smart positioning, can also be manually adjusted as needed to remove the mechanical hand positioning device.
- Cut Stroke: Built-shearing time relay, simple operation, cost savings
- Shear angle: Built shear angle adjustment function, eliminating the angle indicators and buttons
- Blade gap: encoder feedback, time display blade gap size, simple operation
- Having a key parameter backup and restore functionality, you can always restore the parameters as required, reducing maintenance costs
- All keys on the panel are micro-switches, through EMC, high temperature, vibration and other rigorous testing to ensure product stability and service life.
- CE certified to meet the needs of overseas markets.

## ESTUN E200PS



- Color HD LCD display, with both Chinese and English language options, a display programming parameters, faster and more convenient programming
- CAN bus technology, servo control X, Y-axis, high control accuracy, resolution up to 0.001; simple to install wiring, improve system reliability.
- Built blade clearance, cutting stroke, concessions and other control functions delay, according to the actual need to set the parameters of the gap, cut away concessions and other real-time control.
- Having machine motion control features that simplify the electrical wiring cabinet, reduce costs and improve reliability.
- With self-diagnosis and real-time alarm functions, debugging and maintenance more convenient.
- Reservation security interface for easy expansion.
- Having a key parameter backup and restore functionality, you can always restore the parameters as required, reducing maintenance costs
- All keys on the panel are micro-switches, through EMC, high temperature, vibration and other rigorous testing to ensure product stability and service life.
- CE certified to meet the needs of overseas markets.

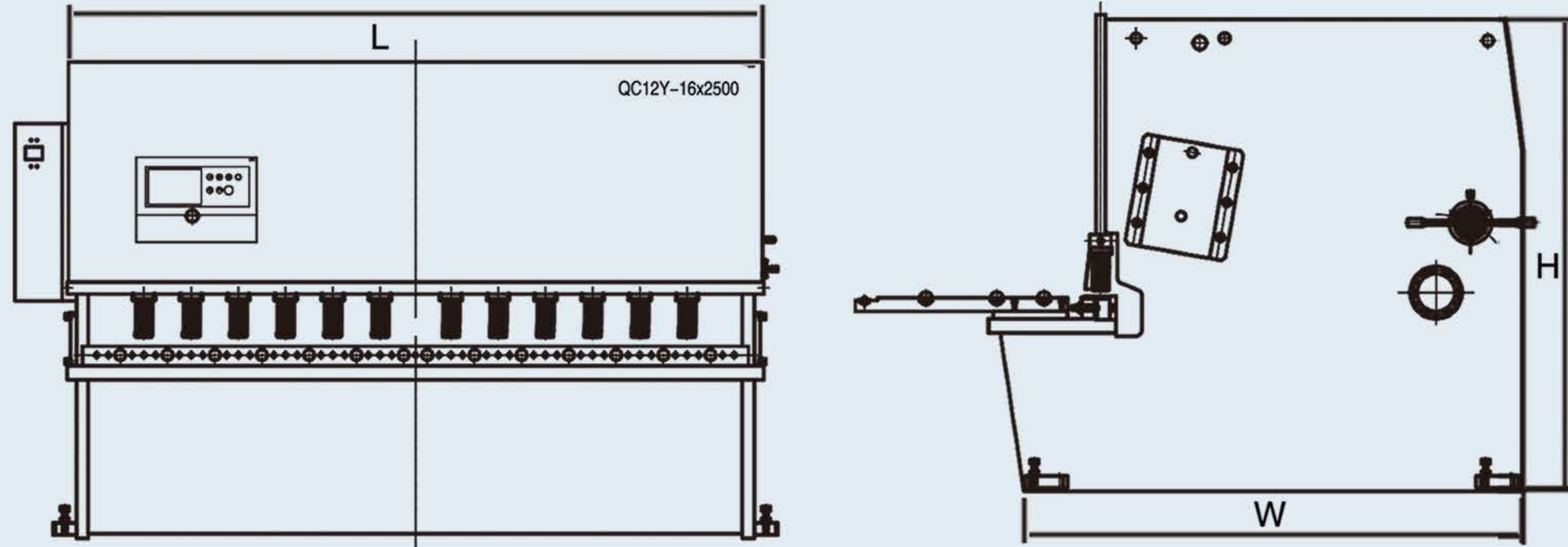
## DELEM DAC-310S



- Bright LCD 128 x 64 display
- Backgauge control
- Gap control
- Stroke length limitation
- Actual and Programmed position visualization.
- Stock counter
- Programmable up to 100 steps
- Panel-based housing
- Servo control unipolar /AC two-speed control



# SPECIFICATIONS



Model	Cutting Thickness	Cutting Width	Oil Tank	Stroke	Backgauge range	Cutting Angle	Main Power	Weight	Dimensions
Unit	mm	mm	L	times/min	mm	°	KW	Ton	LxWxH mm
4*2500	4	2500	140	33	20-650	1.5	7.5	4	3035*1570*1720
4*3200	4	3200	190	15	20-650	1.5	7.5	5.5	3750*1640*1850
4*4000	4	4000	190	10	20-800	1.5	7.5	7.5	4550*1970*1900
4*5000	4	5000	320	8	20-800	1.5	7.5	13.5	5700*1900*2000
4*6000	4	6000	440	8	20-800	1.5	15	17	6500*2460*2250
6*2500	6	2500	190	17	20-650	2	7.5	5.5	3050*1650*1900
6*3200	6	3200	190	12	20-650	1.5	7.5	6.5	3750*1650*1800
6*4000	6	4000	190	9	20-800	1.5	7.5	8.7	4550*2000*1950
6*5000	6	5000	320	7	20-800	1.5	15	15.5	5540*2450*2300
6*6000	6	6000	440	5	20-800	1.5	15	19.8	6545*2470*2500
8*2500	8	2500	190	14	20-650	2	11	5.8	3060*1650*1800
8*3200	8	3200	190	10	20-650	1.5	11	6.8	3760*1650*1800

Model	Cutting Thickness	Cutting Width	Oil Tank	Stroke	Backgauge range	Cutting Angle	Main Power	Weight	Dimensions
8*4000	8	4000	190	9	20-800	1.5	15	8.8	4560*1960*1920
8*5000	8	5000	320	8	20-800	1.5	18.5	16	5600*2360*2180
8*6000	8	6000	440	6	20-800	1.5	18.5	21.5	6600*2450*2500
10*2500	10	2500	190	10	20-800	2	15	7	3050*1960*1920
10*3200	10	3200	190	9	20-800	1.5	15	8.5	3800*1960*1920
10*4000	10	4000	400	8	20-800	1.5	22	12	4700*2100*2200
10*6000	10	6000	440	6	20-800	1.5	22	28	6600*2100*2300
12*2500	12	2500	400	12	20-800	2	22	10.3	3170*2150*2180
12*3200	12	3200	400	10	20-800	2	22	11.6	3800*2150*2180
12*4000	12	4000	400	8	20-800	1.75	22	13.8	4700*2285*2180
12*5000	12	5000	440	6	20-800	2	22	19.5	5800*2450*2400
12*6000	12	6000	440	5	20-800	2	22	32.5	6600*2600*2700
12*8000	12	8000	580	4	20-800	1.75	22	50.5	8600*3250*3200
16*2500	16	2500	400	11	20-800	2.5	22	11	3245*2290*2180
16*3200	16	3200	400	10	20-800	2	22	12.6	3870*2300*2180
16*4000	16	4000	600	8	20-800	1.75	22	17.8	4705*2575*2200
16*5000	16	5000	600	6	20-800	2.5	30	24.8	5900*2600*2700
16*6000	16	6000	600	5	20-800	2.5	30	35	6600*2700*2900
20*2500	20	2500	500	8	20-800	2.5	30	14.3	3300*2580*2300
20*3200	20	3200	500	7	20-800	2.5	30	16	4150*2600*2500
20*4000	20	4000	550	5	20-800	2.5	30	23	4850*2600*2800
25*2500	25	2500	550	7	20-800	3	37	19	3200*2700*2900
25*3200	25	3200	600	5	20-800	3	37	24	4200*2700*3000



## CONTACT US

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