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MACHINE TOOL MERCHANTS SINCE 1964

CHENLONG

CHENLONG SAWING MACHINE

Global Sawing Technology Driver



Zhejiang Chenlong sawing machine Co., Ltd. (Former Zhejiang Chenlong Sawing Machine Group) , was founded in 1985, located in Huzhen Town of Jinyun County, Zhejiang Province. The main products include various types of horizontal and vertical metal band sawing machines, CNC high speed metal circular saws, etc. It covers 66000 square meters and the building density is 28,000 square meters. In CHENLONG, there are more than 500 employees, including 60 engineers and technicians.

Besides one of the leading band saws and circular saws manufacturers in China, CHENLONG is a vice president company of the council of China band saw industry Association. It has set up a complete quality control system and obtained ISO 9001, ISO 14001, CE certificates.

CHENGLONG focuses on technical innovation. It obtained 172 patents and created several "First huge technology" equipment records, such as designed and produced 2.5meter vertical band saw, 2.5meter horizontal band saw, special band saw for crank and the usage of Siemens 840D five-axe linkage. It has more than 100 models now, which also has strength to do special order.

CHENLONG emphasizes on its brand construct. Brand name "CHENLONG" obtained special recognition as "Zhejiang Famous Brand" . CHENLONG products participated several exhibitions and achieved great success. The shows include not only the ones as CIMT, CCIF held in China but also global ones as EMO(ITALY/GERMANY) and IMTS(USA), etc..

CHENGLONG is trusted by the customers. We have strong production strength. Our sawing machines are used by many large state enterprises as SINOTRUK, Ministry of Aeronautics and Astronautics, Wuhan Iron and Steel Plant, Anshan iron and steel plant, Zhongyuan iron and steel, SANY and so on. Also we have exported to more than 40 different countries as USA, GERMANY, ITALY, INDIA, TAILAND, RUSSIA, etc..

Making better band saws is Chenlong's pursuit. Chenlong Sawing Machine will have a brighter future because of you. Where there is band saw, there is CHENLONG.

Chenlong is committed to providing solutions for customers in metal sawing industries, helping customers to saw materials more accurately and efficiently, so as to improve production efficiency and precision





- ① Touch screen+full set of button dual control system, convenient and reliable operation
- ② Electric chip sweeping system, good chip cleaning effect
- ③ Servo electric cylinder system, stable saw head feeding, sensitive feeding rate regulation
- ④ Hydraulic saw blade tension, the tension force is visually visible, and the operation is convenient
- ⑤ The permanent magnet motor is equipped with a gear reducer, with strong and stable power, low noise and wide speed regulation range
- ⑥ Convenient roll mechanism, easy to operate, stable and reliable

* Servo electric cylinder control saw frame feeding, plus a new intelligent sawing system, it brings faster, more stable and stronger sawing experience

* Machine provides a variety of working modes to meet the different needs of users. The system has built-in a variety of intelligent cutting functions, which can sense the force of the saw blade in real time and accurately control the feeding rate to keep the sawing in the best state at all times.

* The saw frame feeding can be precisely controlled at the millimeter level. The fluctuation rate of cutting load is 3-4 times smaller than that of hydraulic cylinder control feeding, and the feeding rate regulation is smooth. Real-time monitoring of sawing pressure, built-in powerful database and algorithm, it can cope with various cutting states. Machine realizes real-time digital detection and fully closed-loop feeding force control.

* The main drive adopts direct-coupled permanent magnet synchronous motor + parallel shaft gear reducer, the transmission efficiency of which is as high as 97%. The power of the main motor is 4.7kw, and the energy efficiency of the motor can reach the IE5 ultra-high energy efficiency standard. Compared with conventional band sawing machines, it can save energy by more than 40%. More over, the motor has advantages of small temperature rise, low noise, and the super overload capacity can easily cope with situation of sawing uneven materials.

- New processing
- New design
- Automatic band saw
- Touching screen and buttons dual operation

Model

		G330	G430
Max. cutting capacity	mm	● 330 ■ 330Wx330H ■ 300Wx135H	● 430 ■ 430Wx430H ■ 410Wx195H
Saw blade size	mm	34 × 1.1 × 4115	41x1.3x5080
Saw blade line speed	mm	15~80	18~80
Saw frame feeding		Intelligent Variable Speed (servo Electric Cylinder)	Intelligent Variable Speed (servo Electric Cylinder)
Machine input power voltage		380V、50Hz	380V、50Hz
Main motor	kW	4.7	7.2
Hydraulic motor	kW	0.75	1.5
Cooling motor	W	135	135
Table height	mm	635	690
Blade tension		Hydraulic	Hydraulic
Hydraulic tank	L	60	60
Cooling tank	L	50	60
Workpiece feeding		Automatic feeding	Automatic feeding
Single Feeding Stroke	mm	500	500
Multiple feeding accuracy	mm	±0.2 per time	±0.2 per time
Dimension(LxWXH)	mm	2230x2270x1400	2900x2250x1700



- New processing
- New design
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- Touching screen and buttons dual operation

- * Intelligent welding: robot welding, surpassing the limit of manual operation to ensure stability, uniformity and consistency
- * **Special processing:** micron-level precision CNC multi-faceted processing at one time, shot blasting, corrosion-resistant and wear-resistant coating to ensure high precision, durability and reliability of parts
- * **Precision assembly:** years of technology accumulation, process assembly, stable and efficient operation of equipment

- * This machine is an equipment for sawing metal materials by bimetallic saw blades. It has the advantages of compact structure, fast cutting speed, high precision, narrow saw gap, low noise, convenient operation, etc. It is a new energy-saving product that replaces circular saws and hack saws.
- * Widely used in various industries such as electromechanical, metallurgy, automobile, bridge, ship, etc., sawing various metal materials

Model		330B	330A
Max. cutting capacity	(mm)	● 330 ■ 330Wx330H ■ 300Wx135H	● 330 ■ 330Wx330H ■ 300Wx135H
Saw wheel diameter	(mm)	Φ450	Φ450
Saw blade size	(mm)	34x1.1x4115	34x1.1x4115
Saw blade line speed	(m/min)	20~80	25/45/64/80
Blade tension		Hydraulic	Manual
Motors	Main motor	(kW) 4	4
	Hydraulic motor	(kW) 0.75	0.75
	Cooling motor	(W) 135	135
Tanks' capacity	Hydraulic tank	(L) 60	60
	Cooling tank	(L) 50	50
Feeding mode		Automatic feeding	Automatic feeding
Table height	(mm)	635	635
Dimension(LxWXH)	(mm)	2220x2270x1400	2120x2270x1400



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Model		430B	430A	530B	530A
Max. cutting capacity (mm)		● 430 ■ 430Wx430H ■ 410Wx195H	● 430 ■ 430Wx430H ■ 410Wx195H	● 530 ■ 600Wx530H ■ 580Wx250H	● 530 ■ 600Wx530H ■ 580Wx250H
Saw wheel diameter (mm)		Φ540	Φ540	Φ650	Φ650
Saw blade size (mm)		41x1.3x5080	41x1.3x5080	41x1.3x6240	41x1.3x6240
Saw blade line speed (m/min)		18~80	18~80	10~95	25/55/85
Blade tension		Hydraulic	Manual	Hydraulic	Manual
Motors	Main motor (kW)	7.5	7.5	7.5	7.5
	Hydraulic motor (kW)	1.5	1.5	1.5	1.5
	Cooling motor (W)	135	135	135	135
Tanks' capacity	Hydraulic tank (L)	60	60	60	60
	Cooling tank (L)	60	60	60	60
Feeding mode		Automatic feeding	Automatic feeding	Automatic feeding	Automatic feeding
Table height (mm)		690	690	780	780
Dimension(LxWXH) (mm)		2880x2240x1700	2500x2240x1700	3300x2000x2000	3150x2000x2000



- Hydraulic control saw frame feeding rate, stepless adjustable
- Workpiece clamping adopts hydraulic clamping
- The band saw blade adopts rolling bearing and carbide guide to extend the service life of the saw blade

It is mainly used for sawing various ferrous and non-ferrous metals. The machine tool has reasonable structure, stable and reliable performance, and high accuracy. It is an ideal equipment for medium and small batch cutting

MODEL		GZ4233	GZ4243	GZ4253	GZ4265
		● 330 ■ 330W x 330H ■ 310Wx130H	● 430 ■ 430W x 430H ■ 410Wx180H	● 530 ■ 530W x 530H ■ 480Wx230H	● 650 ■ 650W x 650H ■ 630W x 325H
Max. cutting capacity	(mm)				
Saw blade line speed	(m/min)	22/35/50/75	20/33/55/72/90	22/35/55/80	20~80
Saw blade size	(mm)	34x1.1x4115	41x1.3x5080	41x1.3x6000	54x1.6x7420
Main motor	(kW)	4.0	5.5	5.5	7.5
Hydraulic motor	(kW)	0.75	0.75	1.5	2.2
Cooling pump	(kW)	0.06	0.12	0.135	0.12
Vise clamping		Hydraulic	Hydraulic	Hydraulic	Hydraulic
Blade tension		Manual	Manual	Manual	Hydraulic
Main drive		Worm gear drive	Worm gear drive	Worm gear drive	Worm gear drive
Workpiece feeding		Automatic feeding	Automatic feeding	Automatic feeding	Automatic feeding
Table height	(mm)	630	630	640	650
Single feeding stroke	(mm)	500	500	500	500
Dimension(LxWXH)	(mm)	2150x2300x1580	2600x2230x1700	3150x2150x1850	2180x4000x2450



- The guide arm automatically moves left and right to ensure a reasonable space from the workpiece, reducing frequent operations by worker.
- The saw frame feeding adopts double valve control, which can make small and precise feeding rate regulation for different materials.
- Hydraulic vise clamping
- The structure of the guide seat is reasonable to ensure the correct guidance of the guide blocks, prolonging the service life of the saw blade and ensuring the cutting precision.
- Saw blade holding of the guiding head is controlled hydraulically, which can ensure no gap after guiding blocks wearing and keep a balanced holding force
- The line speed of the saw blade adopts stepless speed regulation controlled by inverter.
- Wireless remote control, which can operate the workbench feeding and the vise clamping/loosening. (only for hydraulic shuttle table type)

- * Mainly used for sawing die steels.
- * The machine tool has reasonable structure, stable and reliable performance, and high precision. It is an ideal equipment for cutting materials with high hardness and high viscosity.



MODEL		CL4370	CL4370H	CL53100H
Max. cutting capacity	(mm)	● 430 ■ 700W x 430H	● 430 ■ 700W x 430H	● 530 ■ 1000W x 530H
Saw blade line speed	(m/min)	15~75	15~75	18~50
Saw blade size	(mm)	41x1.3x5900	41x1.3x5900	54x1.6x7170
Main motor	(kW)	7.5	7.5	11
Hydraulic motor	(kW)	1.5	1.5	2.25
Cooling pump	(kW)	0.135	0.135	0.18
Vise clamping		Hydraulic	Hydraulic	Hydraulic
Blade tension		Hydraulic	Hydraulic	Hydraulic
Main drive		Worm gear drive	Worm gear drive	Worm gear drive
Table height	(mm)	650	650	650
Workpiece feeding		Manual	Hydraulic shuttle table	Hydraulic shuttle table
Dimension(LxWXH)	(mm)	3300x2800x1900	3300x2700x1900	3800x2850x2050



- Hydraulic control saw frame feeding rate, stepless adjustable
- Hydraulic control vise clamping
- Saw blade guiding adopts rolling bearing and carbide guiding blocks
- Power roller table for workpiece feeding (optional)

It is mainly used for sawing various ferrous and non-ferrous metals. The machine tool has reasonable structure, stable and reliable performance, and high accuracy. It is an ideal equipment for medium and small batch cutting

MODEL	CH-330	CH-400	CH-4070	CH-500
Max. cutting capacity (mm)	● 330 ■ 500W x 330H	● 400 ■ 500W x 400H	● 400 ■ 700W x 400H	● 530 ■ 530W x 530H
Saw blade line speed (m/min)	25/45/64/80	19/30/50/65/90	16/25/42/55/67	22/35/55/80
Saw blade size (mm)	34x1.1x4500	34x1.1x4650	41x1.3x5080	41x1.3x6000
Main motor (kW)	4	4	4	5.5
Hydraulic motor (kW)	0.75	0.75	0.75	0.75
Cooling pump (kW)	0.135	0.06	0.06	0.135
Vise clamping	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Blade tension	Manual	Manual	Manual	Manual
Main drive	Worm gear drive	Worm gear drive	Worm gear drive	Worm gear drive
Feeding mode	Manual	Manual	Manual	Power roller table
Workpiece feeding (mm)	640	600	675	640
Dimension(LxWXH) (mm)	2500x1150x1450	2350x1250x1700	2700x1200x1750	3150x1450x1850



- Hydraulic control saw frame feeding rate, stepless adjustable
- Hydraulic control vise clamping
- Saw blade guiding adopts rolling bearing and carbide guiding blocks

- * Mainly used for sawing various profiles.
- * The machine tool has reasonable structure, stable and reliable performance, and high precision. It is an ideal equipment for cutting materials in small and medium batches.
- * The third jaw (optional)

MODEL		GZ4250H	GZ4260/80H	GH4250	GH4260/80
Cutting Capacity	(mm)	● 500 ■ 600W x 500H	● 600 ■ 800W x 600H	● 500 ■ 600W x 500H	● 600 ■ 800W x 600H
Blade Speed	(m/min)	40/55/70/90	40/61/91	40/55/70/90	40/61/91
Blade Size	(mm)	41x1.3x5700	54x1.6x7200	41x1.3x5700	54x1.6x7200
Main motor	(kW)	5.5	11	5.5	11
Hydraulic motor	(kW)	1.5	2.2	0.75	0.75
Cooling pump	(kW)	0.12	0.12	0.12	0.12
Vise clamping		Hydraulic	Hydraulic	Hydraulic	Hydraulic
Blade tension		Manual	Manual	Manual	Manual
Main drive		Worm gear drive	Worm gear drive	Worm gear drive	Worm gear drive
Table height	(mm)	805	905	705	805
Workpiece feeding		Automatic feeding	Automatic feeding	Manual	Manual
Single feeding stroke	(mm)	500	1000	-	-
Dimension(LxWXH)	(mm)	2850x2250x1960	3700x2900x2450	2850x1185x1850	3300x1300x2350



It is mainly used for sawing various ferrous and non-ferrous metals. The machine tool has reasonable structure, stable and reliable performance, and high accuracy. It is an ideal equipment for medium and small batch cutting

MODEL	CS-220	CS-280II	CS-380
Max. cutting capacity (mm)	●220 ■400W x 100H	●280 ■300W x 220H	●380 ■400W x 250H
Saw blade line speed (m/min)	21/34/43/60	25/35/45/60/80	20/40/60/75
Saw blade size (mm)	27x0.9x3045	27x0.9x3505	34x1.1x4115
Main motor (kW)	1.5	2.2	3
Hydraulic motor (kW)	-	0.75	0.75
Cooling pump (kW)	0.06	0.06	0.06
Vise clamping	Manual	Hydraulic vise	Hydraulic vise
Blade tension	Manual	Manual	Manual
Main drive	Worm gear drive	Worm gear drive	Worm gear drive
Feeding mode	Manual	Manual	Manual
Working table height (mm)	640	620	640
Dimension(LxWXH) (mm)	1750x750x1130	1770x1130x1160	2000x1160x1310



- Hydraulically controlled saw frame feeding
- High-precision linear guide rails, high cutting precision
- Gantry structure, good rigidity
- Double hydraulic cylinder control, stable saw frame feeding

China's first large gantry

MODEL	G42200	G42250	G42300
Cutting Capacity (mm)	●2000 ■2000W x 2000H	●2500 ■2500W x 2500H	●3000 ■3000W x 3000H
Blade Speed (m/min)	10~50	10~50	12~55
Blade Size (mm)	80x1.6x19450	80x1.6x21000	80x1.6x22100
Main motor (kW)	22	22	37
Hydraulic motor (kW)	7.5+1.5	7.5+1.5	11+1.5
Cooling pump (kW)	0.37	0.37	0.37
Vise clamping	hydraulic	hydraulic	hydraulic
Blade tension	hydraulic	hydraulic	hydraulic
Main drive	Gear reducer	Gear reducer	Gear reducer
Table height (mm)	1050	1050	1420
Dimension(LxWXH) (mm)	8000x4000x5400	10520x4940x5880	14000x9470x8475



- Hydraulically controlled saw frame feeding
- High-precision linear guide rails, high cutting precision
- Gantry structure, good rigidity
- Double hydraulic cylinder control, stable saw frame feeding

Mainly used for sawing various ferrous metals and non-ferrous metals. It has the advantages of narrow saw kerf, material saving, energy saving, high sawing precision, convenient operation and high efficiency.



MODEL	CH-650	CH-800	CH-1000	CH-1200	CH-1300	CH-1500	CH-1600
Cutting Capacity (mm)	● 650 ■ 650W x 650H	● 800 ■ 800W x 800H	● 1000 ■ 1000W x 1000H	● 1200 ■ 1200W x 1200H	● 1300 ■ 1300W x 1300H	● 1500 ■ 1500W x 1500H	● 1600 ■ 1600W x 1600H
Blade Speed (m/min)	20~65	18~60	15~60	15~60	15~60	10~50	10~50
Blade Size (mm)	54x1.6x6860	67x1.6x8820	67x1.6x9820	67x1.6x10800	67x1.6x11180	80x1.6x14850	80x1.6x15380
Main motor (kW)	7.5	7.5	11	15	15	18.5	18.5
Hydraulic motor (kW)	1.5	2.25	3.75	3.75	3.75	5.5	5.5
Cooling pump (kW)	0.135	0.55	0.55	0.55	0.55	0.37	0.37
Vise clamping	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Blade tension	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Main drive structure	Gear reducer	Gear reducer	Gear reducer	Gear reducer	Gear reducer	Gear reducer	Gear reducer
Table height (mm)	570	520	520	520	520	700	700
Dimension(LxWXH) (mm)	3270x1640x2160	4130x2150x2190	4560x2180x2765	4835x2190x3315	4980x2190x3380	6500x2300x4800	6800x2300x4900



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MODEL	GK80H	GK100H	GK120H	GK130H	GK160H	GK180H
Cutting Capacity	● 800 ■ 800W x 800H	● 1000 ■ 1000W x 1000H	● 1200 ■ 1200W x 1200H	● 1300 ■ 1300W x 1300H	● 1600 ■ 1600W x 1600H	● 1800 ■ 1800W x 1800H
Blade Speed	18~60	15~60	15~60	15~60	10~50	10~50
Blade Size	67x1.6x8800	67x1.6x10600	67x1.6x11090	67x1.6x11780	80x1.6x14900	80x1.6x18200
Main motor	11	11	15	15	18.5	18.5
Hydraulic motor	3.75	3.75	3.75	3.75	5.5	5.5+1.5
Cooling pump	0.55	0.55	0.55	0.55	0.37	0.37
Vise clamping	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
Balse tension	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
Main drive	Gear reducer	Gear reducer	Gear reducer	Gear reducer	Gear reducer	Gear reducer
Table height	530	560	560	560	700	700
Dimension(LxWXH)	4130x2150x2515	4560x2180x2765	4935x2220x3420	5260x2220x3520	6800x4250x4400	8250x4250x4600