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CHENLONG

CHENLONG  
SAWING  
MACHINE

Global Sawing Technology Driver



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

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.

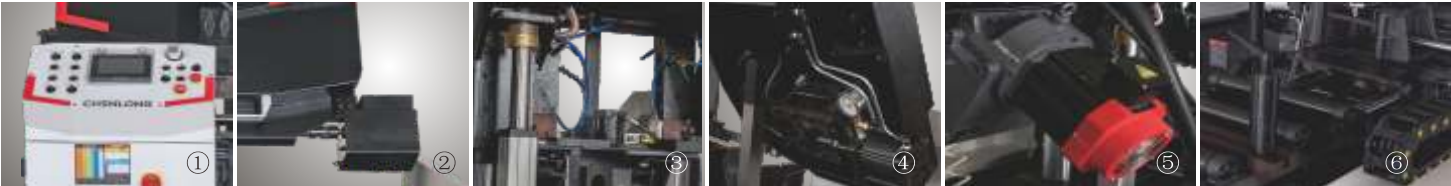
CHENLONG emphasizes on its brand construct. Brand name “CHENLONG” obtained special recognition as “Zhejiang Famous Brand” . CHENLONG products participated several exhibitions and achieved great success. The shows include not only the ones as CIMT, CCIF held in China but also global ones as EMO(ITALY/GERMANY)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







- 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                                                 |
|-----------------------------|----|------------------------------------------------------|------------------------------------------------------|
|                             |    | ● 330<br>■ 330Wx330H<br>■ 300Wx135H                  | ● 430<br>■ 430Wx430H<br>■ 410Wx195H                  |
| Max.cutting capacity        | mm |                                                      |                                                      |
| 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
- Automatic band saw
- 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                                |
|----------------------|-----------------|-------------------------------------|-------------------------------------|
|                      |                 | ● 330<br>■ 330Wx330H<br>■ 300Wx135H | ● 330<br>■ 330Wx330H<br>■ 300Wx135H |
| Max.cutting capacity | (mm)            |                                     |                                     |
| 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                                   |
|                      | Hydraulic motor | (kW)                                | 0.75                                |
|                      | Cooling motor   | (W)                                 | 135                                 |
| Tanks' capacity      | Hydraulic tank  | (L)                                 | 60                                  |
|                      | Cooling tank    | (L)                                 | 50                                  |
| Feeding mode         |                 | Automatic feeding                   | Automatic feeding                   |
| Table height         | (mm)            | 635                                 | 635                                 |
| Dimension(LxWXH)     | (mm)            | 2220x2270x1400                      | 2120x2270x1400                      |





- New processing
  - New design
  - Automatic band saw
  - Touching screen and buttons dual operation
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  - \* Widely used in various industries such as electromechanical, metallurgy, automobile, bridge, ship, etc., sawing various metal materials

| Model                |                 | 430B                                | 430A                                | 530B                                | 530A                                |
|----------------------|-----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|                      |                 | ● 430<br>■ 430Wx430H<br>■ 410Wx195H | ● 430<br>■ 430Wx430H<br>■ 410Wx195H | ● 530<br>■ 600Wx530H<br>■ 580Wx250H | ● 530<br>■ 600Wx530H<br>■ 580Wx250H |
| Max.cutting capacity | (mm)            |                                     |                                     |                                     |                                     |
| 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<br>■ 330W x 330H<br>■ 310Wx130H | ● 430<br>■ 430W x 430H<br>■ 410Wx180H | ● 530<br>■ 530W x 530H<br>■ 480Wx230H | ● 650<br>■ 650W x 650H<br>■ 630W x 325H |
| Max.cutting capacity (mm)    | 22/35/50/75                           | 20/33/55/72/90                        | 22/35/55/80                           | 20~80                                   |
| Saw blade line speed (m/min) | 34x1.1x4115                           | 41x1.3x5080                           | 41x1.3x6000                           | 54x1.6x7420                             |
| Saw blade size (mm)          | 4.0                                   | 5.5                                   | 5.5                                   | 7.5                                     |
| Main motor (kW)              | 0.75                                  | 0.75                                  | 1.5                                   | 2.2                                     |
| Hydraulic motor (kW)         | 0.06                                  | 0.12                                  | 0.135                                 | 0.12                                    |
| Cooling pump (kW)            | Hydraulic                             | Hydraulic                             | Hydraulic                             | Hydraulic                               |
| Vise clamping                | Manual                                | Manual                                | Manual                                | Hydraulic                               |
| Blade tension                | Worm gear drive                       | Worm gear drive                       | Worm gear drive                       | Worm gear drive                         |
| Main drive                   | Automatic feeding                     | Automatic feeding                     | Automatic feeding                     | Automatic feeding                       |
| Workpiece feeding            | 630                                   | 630                                   | 640                                   | 650                                     |
| Table height (mm)            | 500                                   | 500                                   | 500                                   | 500                                     |
| Single feeding stroke (mm)   | 2150x2300x1580                        | 2600x2230x1700                        | 3150x2150x1850                        | 2180x4000x2450                          |
| Dimension(LxWXH) (mm)        |                                       |                                       |                                       |                                         |





- 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 | ●430<br>■700W x 430H | ●430<br>■700W x 430H    | ●530<br>■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 | ● 330<br>■ 500W x 330H | ● 400<br>■ 500W x 400H | ● 400<br>■ 700W x 400H | ● 530<br>■ 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      | ● 500<br>■ 600W x 500H | ● 600<br>■ 800W x 600H | ● 500<br>■ 600W x 500H | ● 600<br>■ 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               |
|------------------------------|----------------------|----------------------|----------------------|
|                              | ●220<br>■400W x 100H | ●280<br>■300W x 220H | ●380<br>■400W x 250H |
| Max.cutting capacity (mm)    | 21/34/43/60          | 25/35/45/60/80       | 20/40/60/75          |
| Saw blade line speed (m/min) | 27x0.9x3045          | 27x0.9x3505          | 34x1.1x4115          |
| Saw blade size (mm)          | 1.5                  | 2.2                  | 3                    |
| Main motor (kW)              | -                    | 0.75                 | 0.75                 |
| Hydraulic motor (kW)         | 0.06                 | 0.06                 | 0.06                 |
| Cooling pump (kW)            | Manual               | Hydraulic vise       | Hydraulic vise       |
| Vise clamping                | Manual               | Manual               | Manual               |
| Blade tension                | Worm gear drive      | Worm gear drive      | Worm gear drive      |
| Main drive                   | Manual               | Manual               | Manual               |
| Feeding mode                 | 640                  | 620                  | 640                  |
| Working table height (mm)    | 1750x750x1130        | 1770x1130x1160       | 2000x1160x1310       |
| Dimension(LxWXH) (mm)        |                      |                      |                      |



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





- 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     | ● 650<br>■ 650W x 650H | ● 800<br>■ 800W x 800H | ● 1000<br>■ 1000W x 1000H | ● 1200<br>■ 1200W x 1200H | ● 1300<br>■ 1300W x 1300H | ● 1500<br>■ 1500W x 1500H | ● 1600<br>■ 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            |



- 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            | GK80H                  | GK100H                    | GK120H                    | GK130H                    | GK160H                    | GK180H                    |
|------------------|------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Cutting Capacity | ● 800<br>■ 800W x 800H | ● 1000<br>■ 1000W x 1000H | ● 1200<br>■ 1200W x 1200H | ● 1300<br>■ 1300W x 1300H | ● 1600<br>■ 1600W x 1600H | ● 1800<br>■ 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            |