JLH

The Future of Sawing

Since 1983

JLH SAWS INT'L INC.

One of the world's largest metal sawing machine manufacturers JLH SAWS INT'L INC. is continuously working on Innovations and technology. We offer the world's fastest, high-quality and technologically advanced metal cutting solutions to customers across the world since 1983. Our knowledgeable and experienced team works very closely with our customers to understand their requirements. This allows us to offer them the highest performance solutions ensuring low cost per component and optimized productivity.

Our manufacturing facility is modern and world class. Total land covers an area of more than 80,000 square meters. JLH Saws International Inc. has more than 300 employees with production capacity of more than 8,000 machines per year.

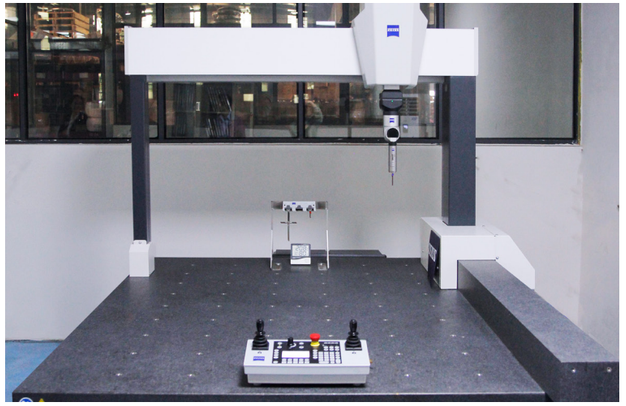
JLH

JLH is the largest metal sawing machines brand in our home country with more than a 25% market share We are continuing to emerge as preferred sawing brand in across the world. JLH currently exports to more than 30 countries with ongoing efforts to expand our footprint.

JLH SAWS INT'L INC. offers-

- Metal sawing machines
  - Bandsaw machines
  - Circular saw machines
  - Complete automatic lines
- Metal sawing tools
  - Bandsaw blades
  - Circular saw blades
- Spare parts
- Services

FACTORY STRENGTH



Zeiss CMM detector

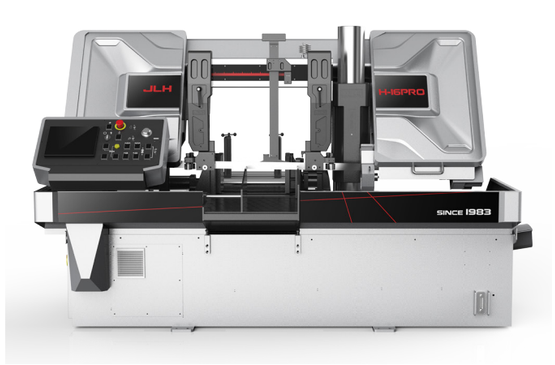
YASKAWA Welding Robot

Han's laser cutting machine

Okuma Double–Column Machining Centers
(5–Face Machining)

DMG Machining Centers

Standardized assembly line

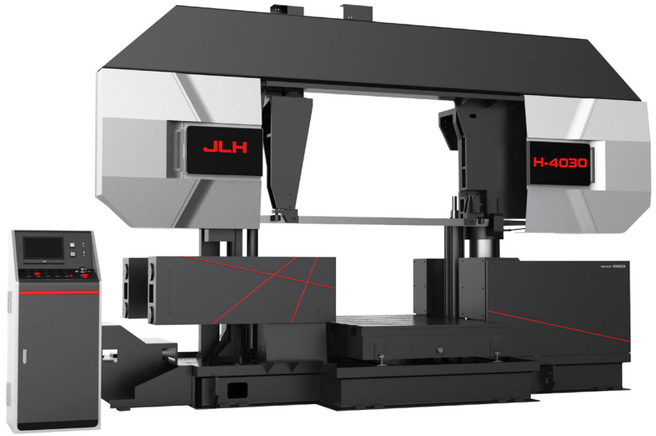


H-PRO Series

H-12PRO ~ H-60PRO

- 12"-60"
- 12"-60"

H Series



H-4030
H-5040
H-6050

- 31.5"-51.2"
- 39.4"-63"

C-PRO Series

C-3PRO ~ C-12PRO

- 15-300 mm
- 15-250 mm

S Series

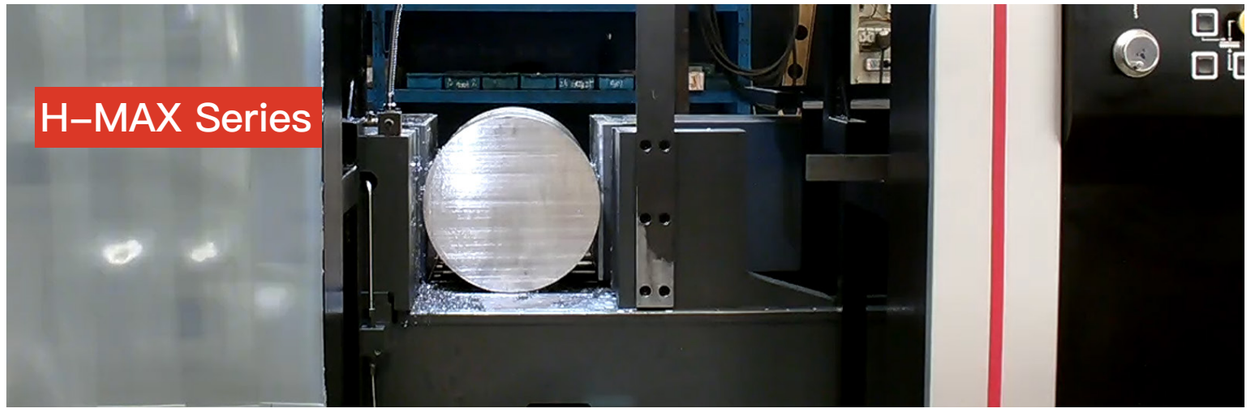
S9 ~ S16NC

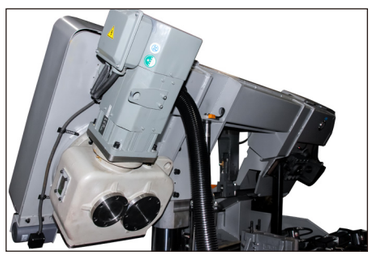
- 0°~+60°
- 5.5"-16.5"
- 5.5"-24.0"

MAX Series

H-16 MAX
H-40 MAX

- 15.7"-39.4"
- 15.7"-39.4"



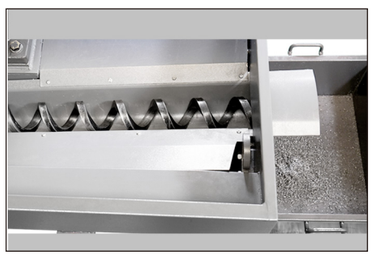


Main Transmission and Gearbox

Equipped with a direct connected motor and gearbox; the power output is transferred directly, transmission ratio is higher, and sawing efficiency is improved 15% higher than ordinary sawing machine.

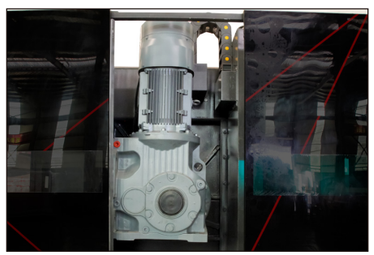
Control Panel

The operator's control station is ergonomically located on the front side of the saw. It is convenient and user friendly. All operator controls are positioned on the control station and clearly labeled for ease of operation. JLH Saws machines feature a 10" state of the art touch-screen HMI.



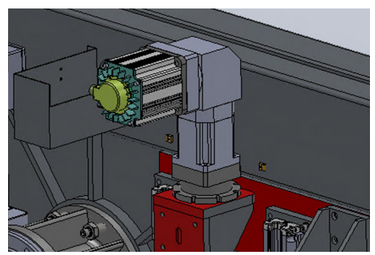
Coolant System and Chip Conveyor

A large coolant tank ensures excellent working conditions for the saw blade and work piece. Electrical coolant pump provides continuously circulation during the cutting process. The chip conveyor is a hollow core style controlled by a hydraulic motor.



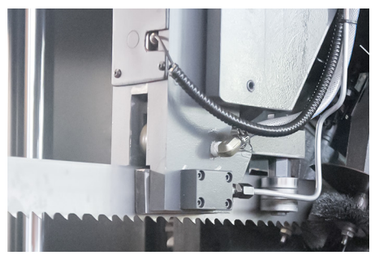
SEW Gearbox

Helical-bevel gearboxes provide high precision, low noise and a large bearing capacity. Also, high transmission efficiency, stable operation and long service life are further benefits.



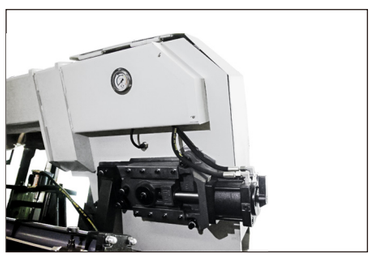
Servo Feeding

A servo and ball-screw combination provide consistent feeding, stable sawing and force feedback. This allows for faster and more accurate cutting.



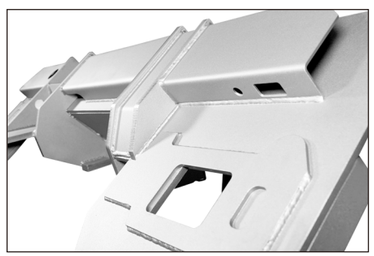
Real-time sawing force feedback system

The system adjusts feeding speed in real-time to protect saw blade and improve saw cutting efficiency. The deviation detection device enables the machine to cut materials within a set precision range. This effectively ensures the accuracy of finished products, reducing waste products caused by the saw blade deviation.



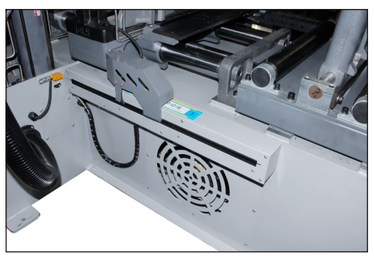
Blade Tension

Equipped with hydraulic tensioning, the machine has complete and consistent tensioning. When the machine is in operation the blade will be tensioned. When the machine is not in operation, or powered off, the tensioning will be loosened slightly to lessen blade fatigue.



Brand New Saw Frame

The saw frame is constructed buy laser cutting the various component parts to exacting tolerances. They are then welded in place by state-of-the-art robotic welders in our welding cells. Using robots allow for precise, strong and consistent welds. This is just another way JLH Saws provide the up-most in quality and precision.

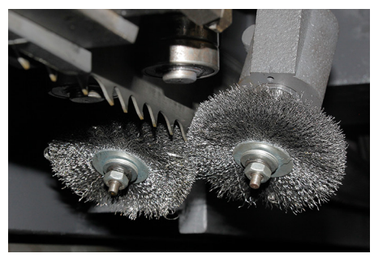


Magnetic Scale Measuring

Accurate & fast positioning are accomplished through a magnetic scale. One advantage to this type a measuring is that the scale can be placed out of the coolant area and completely protected.

Real-time monitoring of machine systems

Monitoring of saw blade tension, oil temperature, water level, and oil level ensure that the machine is operating under optimum conditions.

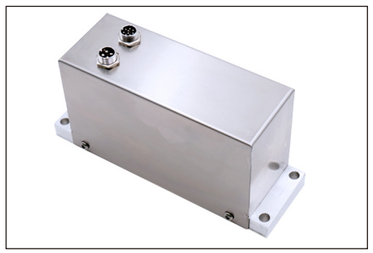


Blade cleaning brush design

Double powered steel brushes enhance the chip cleaning of the saw blade. This helps to improve the cut and prolong blade life.

Automatic chip conveyor

Scraper, chain type chip conveyor.

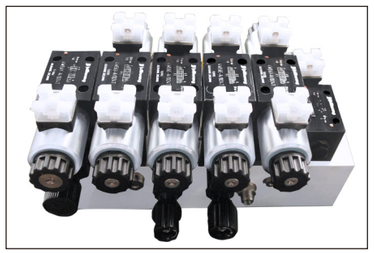


Intelligent Sawing System

The intelligent sawing system is completely developed JLH Saws. With "constant sawing force" as its core principle, the system monitors blade stress condition in real time and adjusts feeding speed continuously and at optimum rates. This system prolongs blade life and improves sawing efficiency.

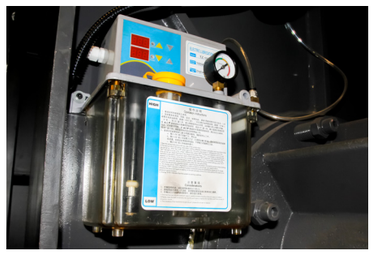
Electrical Cabinet

All electrical cabinets are built to international standards. They are well laid out, wired neatly and labeled for ease of repair.



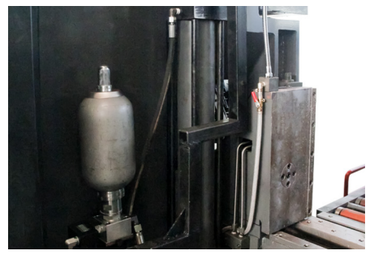
Hydraulic System

All JLH Saws use a modern and logical hydraulic system. Using the highest quality world class components for years of reliable operation. the solenoid valve base is made of aircraft grade aluminum for better heat dissipation and ease of maintenance.



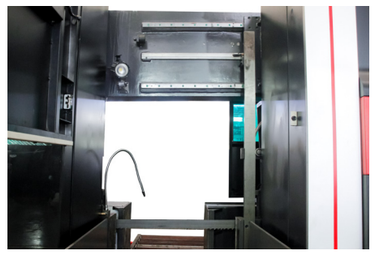
Automatic lubricating system

An oil film between moving parts, reduce friction and power loss. It also reduces wear of the moving parts. Oil play a role in rust prevention, better protection of the equipment, and prolonging the service life of the equipment.



Hydraulic balancing system

Provides for more stable feeding and effective protection of the saw frame lifting ball-screw.



Automatic workpiece measurement

The size of the workpiece is automatically detected by the machine. This data is then used for control functions related to sawing data.

H–PRO Series (NC Smart Bandsaw)

Model		H–12 PRO	H–16 PRO	H–20 PRO	H–27 PRO	H–40 PRO	H–50 PRO	H–60 PRO
Capacity (inch)	●	12.2”	16.1”	20.0”	27.6”	40.0”	50.0”	60.0”
	■	12.2” X 12.2”	16.1” X 16.1”	20.0” X 20.0”	31.5” x 27.6”	40.0” x 40.0”	50.0” x 50.0”	60.0” x 60.0”
Blade size (inch)		162.0” x 1.3” x 0.04”	202.8” x 1.6” x 0.05”	244.1” x 1.6” x 0.05”	318.9” x 2.1” x 0.06”	429.1” x 2.6” x 0.06”	542.1” x 2.6” x 0.06”	644.5” x 3.1” x 0.06”
Blade speed (fpm)		32.8–262.5	32.8–262.5	65.6–262.5	65.6–262.5	65.6–262.5	65.6–262.5	65.6–262.5
Blade drive motor (hp)		6.8	10.2	10.2	14.7	25.1	29.9	29.9
Hyd. pump motor (hp)		1.5	2.0	2.0	2.0	5.0	5.0	5.5
Coolant pump motor (hp)		0.12	0.18	0.18	0.2	0.24	0.24	0.24
Hyd. oil (gallon)		15.8	18.3	18.3	18.3	26.4	26.4	26.4
Cutting liquid (gallon)		23.7	31.7	36.9	36.9	39.6	39.6	39.6
Machine size (LxWxH) (inch)		89” x 91” x 61”	89” x 104” x 65”	89” x 122” x 77”	155” x 88” x 100”	236” x 177” x 118”	275” x 197” x 142”	315” x 244” x 177”
Machine Weight (LBS)		≈3748	≈5511	≈7275	≈13228	≈ 31967	≈ 48502	≈ 85760
Direct–Drive Gearbox		Gearbox	Gearbox	Gearbox	Gearbox	Gearbox	Gearbox	Gearbox

Standard Equipment

- Automatic chip conveyor
- Hydraulic blade tension
- Variable blade speed controlled by inverter
- Base adjustment
- Schneider low voltage Electric
- CE certified limit switches
- CE certified control buttons
- Intelligent self–adapting sawing system

Optional Equipment

- Servo feeding
- Roller–type bed

S Series (Miter Bandsaw)

Model	S–9	S–16	S–16NC
Capacity (inch)	0° ●9.1” ▪12.2” X 9.1”	0° ● 16.5”▪24.0” X 16.5”	0° ● 16.5”▪24.0” X 16.5”
	45° ●8.3” ▪ 8.3” X 8.3”	45° ● 15.7”▪15.7” X 15.7”	45° ● 15.7”▪15.7” X 15.7”
	60° ●5.5” ▪ 5.5” X 3.9”	60° ● 11.0”▪11.0” X 11.0”	60° ● 11.0”▪11.0” X 11.0”
Bi–direction angle cutting	+45°~–60°	+60°~–60°	0°~60°
Blade speed (fpm)	118/230	65.6–295.3	65.6–295.3
Blade size (inch)	1.1” x 0.04” x 114.6”	1.3” x 0.04” x 204.7”	1.3” x 0.04” x 204.7”
Vice clamping type	manual	hydraulic	hydraulic
Blade drive motor (hp)	2.4/1.8	4.1	4.1
Hyd. pump motor (hp)	0.57	1.0	1.0
Direct–Drive Gearbox	wormbox	wormbox	wormbox
Machine size (L×W×H) (inch)	63” x 31” x 59”	126” x 83” x 61”	126” x 130” x 61”

Standard Equipment

- Variable blade speed controlled by inverter
- Main drive: Gearbox

Optional Equipment

- Servo feeding
- Base adjustment
- Schneider low voltage electric
- CE certified limit switches
- CE certified control buttons

C–PRO Series (NC High Speed Circular Saw)

Model		C–3 PRO	C–4 PRO	C–5 PRO	C–6 PRO	C–8 PRO	C–10 PRO	C–12 PRO
Capacity (mm)	●	15–80	20–100	35–120	50–150	70–200	70–260	120–300
	■	15–60	20–70	35–75	50–100	70–155	70–200	120–250
Blade size (mm)		315*2.25 t	360*2.6 t	380*2.6 t	460*2.7 t	750*3.8 t	840*4.0 t	960*4.2 t
Blade speed (rpm)		30–160	30–160	30–160	20–100	10–70	10–70	10–70
Blade drive motor (hp)		14.9	20.3	20.3	25.1	40.8	40.8	40.8
Hyd. pump motor (hp)		2.9	2.9	2.9	5.1	7.5	7.5	7.5
Coolant pump motor (hp)		3.9	3.9	3.9	5.9	7.5	7.5	7.5
Hyd. oil (gallon)		15.8	15.8	15.8	29.0	39.6	39.6	39.6
Cutting liquid (gallon)		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Machine size (L×W×H) (inch)		100” x 89” x 86” not including feeding table	100” X 87” X 87” not including feeding table	100” x 85” x 86” not including feeding table	106” X 138” X 98” not including feeding table	110” X 177” X 118” not including feeding table	110” X 177” X 118” not including feeding table	106” x 177” x 126” not including feeding table
Machine Weight (LBS)		≈ 9259 not including feeding table	≈ 9259 not including feeding table	≈ 9259 not including feeding table	≈14330 not including feeding table	≈26455 not including feeding table	≈26455 not including feeding table	≈26455 not including feeding table

Standard Equipment

- Special PLC
- Oil mist separation device
- Hydraulic chip conveyor
- Absolute position system
- Schneider low voltage electric

H Series

Model		H-4030	H-5040	H-6050
Capacity (inch)	●	31.5”	39.4”	51.2”
	■	39.4” X 31.5”	51.2” X 39.4”	63.0” x 51.2”
Blade size (inch)		380.0” X 2.6” X 0.06”	429.1” X 2.6” X 0.06”	542.1”x2.6”x0.06”
Blade speed (fpm)		65.6-262.5	65.6-262.5	65.6-262.5
Blade drive motor (hp)		20.3	25.2	29.5
Hyd. pump motor (hp)		5.0	5.0	5.0
Coolant pump motor (hp)		0.24	0.24	0.24
Hyd. oil (gallon)		26.4	26.4	26.4
Cutting liquid (gallon)		39.6	39.6	39.6
Machine size (LxWxH) (inch)		197” X 87” X 118”	209” X 87” X 118”	276”x197”x142”
Machine Weight (LBS)		≈27558	≈30865	≈48501

MAX Series (High Performance Bandsaw)

Model		H-16MAX	H-40MAX
Capacity (inch)	●	15.7”	39.4”
	■	15.7” x 15.7”	39.4” X 39.4”
Blade size (inch)		1.6” x 0.05”	429.1” x 2.6” x 0.06”
Blade speed (fpm)		65.6-262.5 fpm	65.6-262.5
Blade drive motor (hp)		10.1	29.9
Hyd. pump motor (hp)		2.99	5.0
Coolant pump motor (hp)		0.18	0.24
Hyd. oil (gallon)		39.6	39.6
Cutting liquid (gallon)		105.6	105.6
Machine size (LxWxH) (inch)		165”X 88”X 76”	228” X 126” X 146”
Machine Weight (LBS)		≈13227	≈39683

Standard Equipment

- wireless remote control
- Variable blade speed controlled by inverter
- Hydraulic blade tension
- Power driven wire brush
- Real-time sensing device
- Saw frame balancing system
- Automatic chip conveyor
- Schneider low voltage Electric
- High precision servo feed
- Intelligent self-adapting sawing system

JLH

BAND SAW MACHINE | CIRCULAR SAW MACHINE | SAWING SOLUTIONS

Since 1983

JLH

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* All specifications, dimensions and design characteristics shown in this catalogue are subject to change without prior notice.