



PROSAW

THE PEOPLE TO SEE FOR SAWS

GT-A8H CNC Automatic, High Speed, Horizontal, Bandsaw

The Gentiger GT-A8H is a CNC automatic, High-Speed Horizontal Band Saw Machine featuring a twin column machine structure. This structure design enables the machine to exhibit exceptional stability and smoothness in high-speed cutting.



*GT-A6H Model pictured



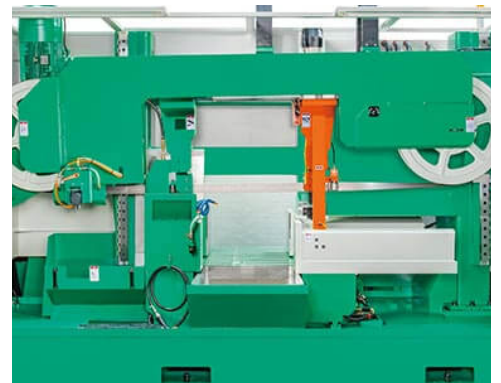
Energy Saving



Eco-Friendly



Powerful

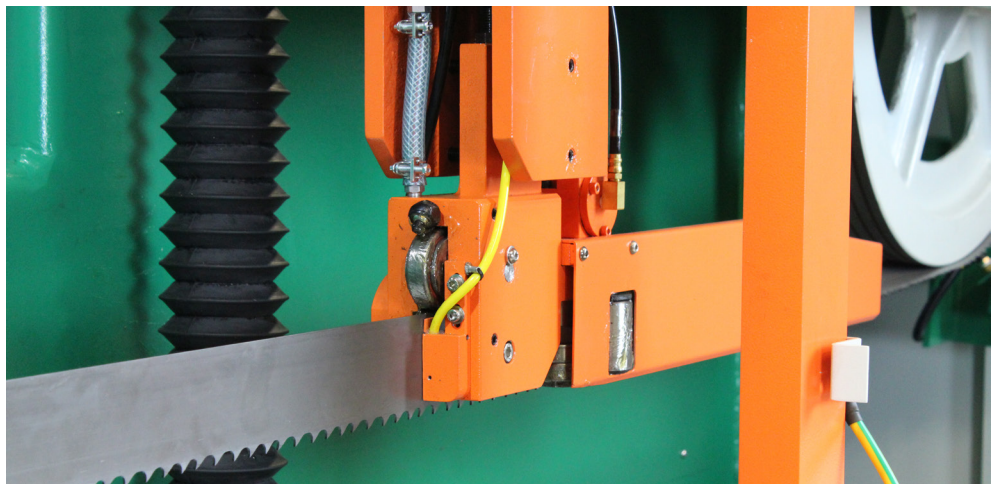


FEATURES

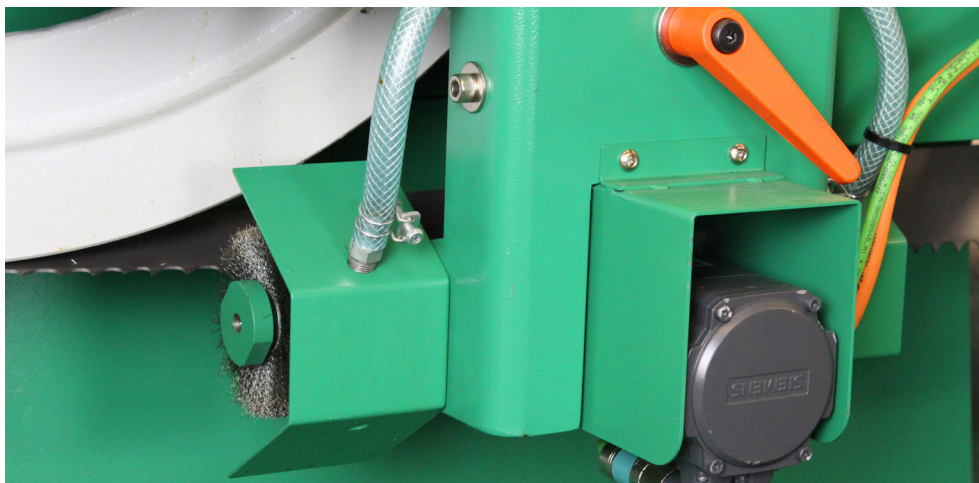
- High performance motor combined with transmission via a spiral bevel gearbox, provides constant power output and heavy cutting ability.
- Saw blade speed is controlled by a Siemens S120 Combi Drive, which allows for variable speed change.
- Material feeding and cutting drive are driven by Siemens servomotor.
- The drive wheel rotation mechanism is equipped with an encoder for instant feedback control and speed compensation. This ensures no vibration for cutting and stable output of cutting force.
- The roller bed and independent two split vices help prevent material drag and clamping problems.
- Uses laser to detect material height, not restricted by material shape or height.
- The double column saw frame structure is fitted with linear guideways that provide smooth friction free movement.
- Choice of carbide or bi-metal bandsaw blades, in combination with built-in cutting parameters for cutting various materials.
- Adjustable dynamic hydraulic damping roller can effectively suppress blade vibration and noise during cutting.
- The job sheet type QR code can be used to scan and create cutting parameters.
- Dynamic guided operation interface makes the machine easy to operate.
- Blade types, material information and cutting database can be created.



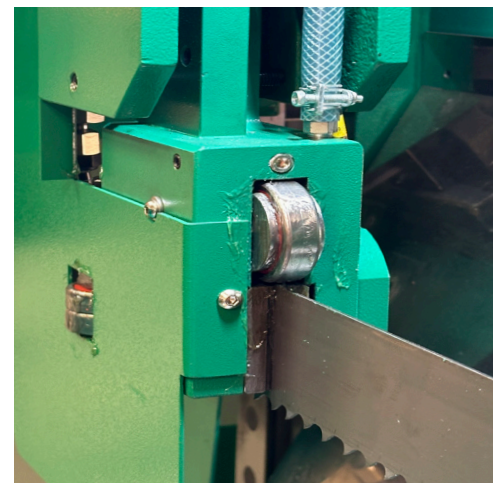
High Performance Motor and gearbox.



Extremely rigid cast guide arms, with hydraulic driven moving arm. Enlarged guide bearings & additional anti-vibration mechanism.



Two sets of swarf brushes, driven by servo motor. Speed is synchronous with the blade. Quick and easy to adjust without tools.



Hydraulic carbide guide pads & high pressure coolant flush.

ADVANCED CONTROLLER

Superior Controller

Equipped with a Siemens Sinumerik 828D CNC controller. It's a true CNC control system, rather than a conventional PLC module & frequency inverter. It features great performance and provides maximum utilization of energy. The controller also supports internet connection and display monitoring (VNC).

Minimum Learning Time

The controller is designed with an innovative dynamic operation function. Unlike a traditional operation interface, the Gentiger features a dynamic lamp guide and keys with work indication. The lamp guides and foolproof device help to shorten the learning time and reduce the risk of operator error.



SIEMENS SINUMERIK OPERATE 08/30/23 8:52 AM CUSTOM JOG

2023/08/30/08:52:44

Cut Depth Preview

Saw Position 400.050mm
Stock Height 400.00mm
Cutting Depth 400.00mm

GENTIGER

Feed Position 0.00mm
Edge Extending 0.0mm

Rear Use 400.0mm
Front Use 400.0mm

Stock size check completed. Press Job Confirm!

Cut Control Order Manage Use Zeroing JOB READY Confirm CYCLE STOP CYCLE START

Cutting Presets ☆☆☆

Material M 304 (1)

Act 0.00 Req 55.00 Ovr 100 %
Act 0.00 Req 60.00 Ovr 105 %

Workpiece Setup

(U) Width 400.00mm
(H) Height 400.00mm
(D) Depth 400.00mm
(T) Trimming 0.00mm
(L) Length 0.00mm
(N) Total Cuts 1
(A) Area 1256.6 cm²

Band Limit ± 0.00 mm Comp. OFF

Act 0.00 Req 6.44 Ovr 105 %

Est. Finish Time Today 09 : 13

Trim Length+ Trim Length- Find Edge Length

SIEMENS SINUMERIK OPERATE 08/30/23 8:49 AM CUSTOM JOG

Gentiger Bandsaw Control

Chosen Material 304 (1) Custom Material List 0

	Material Name	Surface Speed	Cut Rate	Remark
001	NEW SAW	33	16	0.5
002	S45C-1	55	60	1
002	S45C-2	65	80	1
004	SKD61-1	35	40	1.25
005	SKD61-2	55	60	1.25
006	SKD11-1	35	40	1.25
007	JIS50	50	50	1.1
008	material-008	2	6	7
009	material-009	32.4	45.084	3
010	material-010	39.6	57.98	4
011	material-011	35.64	34.788	5
012	material-012	6	6	6
013	material-013	7	7	7
014	material-014	8	8	8
015	material-015	9	9	9

Modify Modify Confirm Input Live Value

Select Material Default List Page Up Page Down Main Menu

SIEMENS SINUMERIK OPERATE 08/30/23 8:36 AM CUSTOM JOG

Gentiger Bandsaw Control

Saw Blade Details

Ref. Speed 120 %
Ref. Feed 130 %

Saw Blade Model Bandsaw ABC
Details Bi-Metal
Length 8,000mm
Blade Width 67mm
Blade Thickness 1.6mm
Teeth per Inch (TPI) 1.4-2T

Total Removed Area 0.0 cm²
Total Finished Cuts 0
Installed Date 2023/8/9/15:18:18

Uikus FUTURA
Uikus SKALAR X30
Custom Custom 1
Custom Custom 2
Custom Bandsaw AB
Custom Custom 4
Custom Custom 5

Edit Saw Data Overwrite Saw Data Zero Area (New Saw) Saw History BreakIn Setup

SIEMENS SINUMERIK OPERATE 08/30/23 9:14 AM CUSTOM JOG

Gentiger Bandsaw Control

Auto Generate Work Order 2023_08_30_0914_32.MPF

Worker admin

Presets Shape Cube

Material M 304 (1)

Act 0.00 Req 24.30 Ovr 100 %
Act 0.00 Req 20.23 Ovr 105 %

Cutting Presets ☆☆☆

Width (U) 400.00mm
Height (H) 400.00mm
Depth (D) 400.00mm
Trimming (T) 0.00mm
Length (L) 0.00mm
Cuts (N) 1
Area (A) 1256.6 cm²

Band Limit ± 0.00 mm Comp. OFF

Act 0.00 Req 6.44 Ovr 105 %

Cut Time (1Cut/Total) 1 : 00 : 20 1 : 00 : 20

Cut Control Order Scan Order Create Multi-Length

Clear Input Material List Custom List Data Check Save Order Main Menu

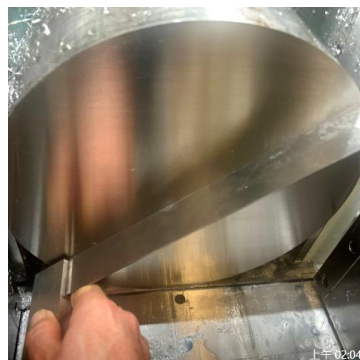
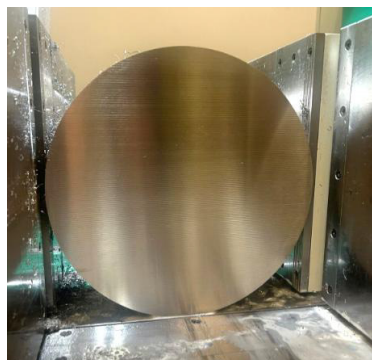
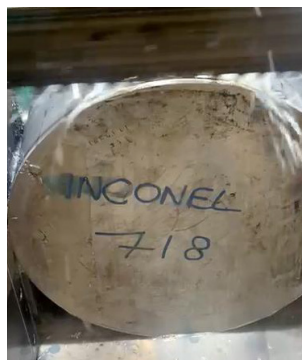
TECHNICAL SPECIFICATION

Cutting Capacity	●	850 mm
	■ ■	850 mm x 850 mm
Saw Blade	Speed	8 - 120 M/min
	Size	9325 x 67 x 1.6 mm
	Tension	Hydraulic Control
Motors	Blade Drive	18.75 kW
	Hydraulic	2.25 kW
	Wire Brush	0.75 kW
	Low Pressure Coolant Pump	0.75 kW
	High Pressure Coolant Pump	1.75 kW
	Swarf Conveyor Motor	0.187 kW
Material Feed Servomotor		3.55 kW
Arch Drive Servomotor		3.55 kW
Capacity	Oil Tank	130 L
	Coolant Tank	300 L
Height of Bed		720 mm
Dimensions		4300 x 2300 x 3300 mm
Machine Weight		12000 kg

EXCEPTIONAL PERFORMANCE CUTTING HARD MATERIALS

Cutting Test - SKD61: Ø402 mm (Performed on GT-A6H)

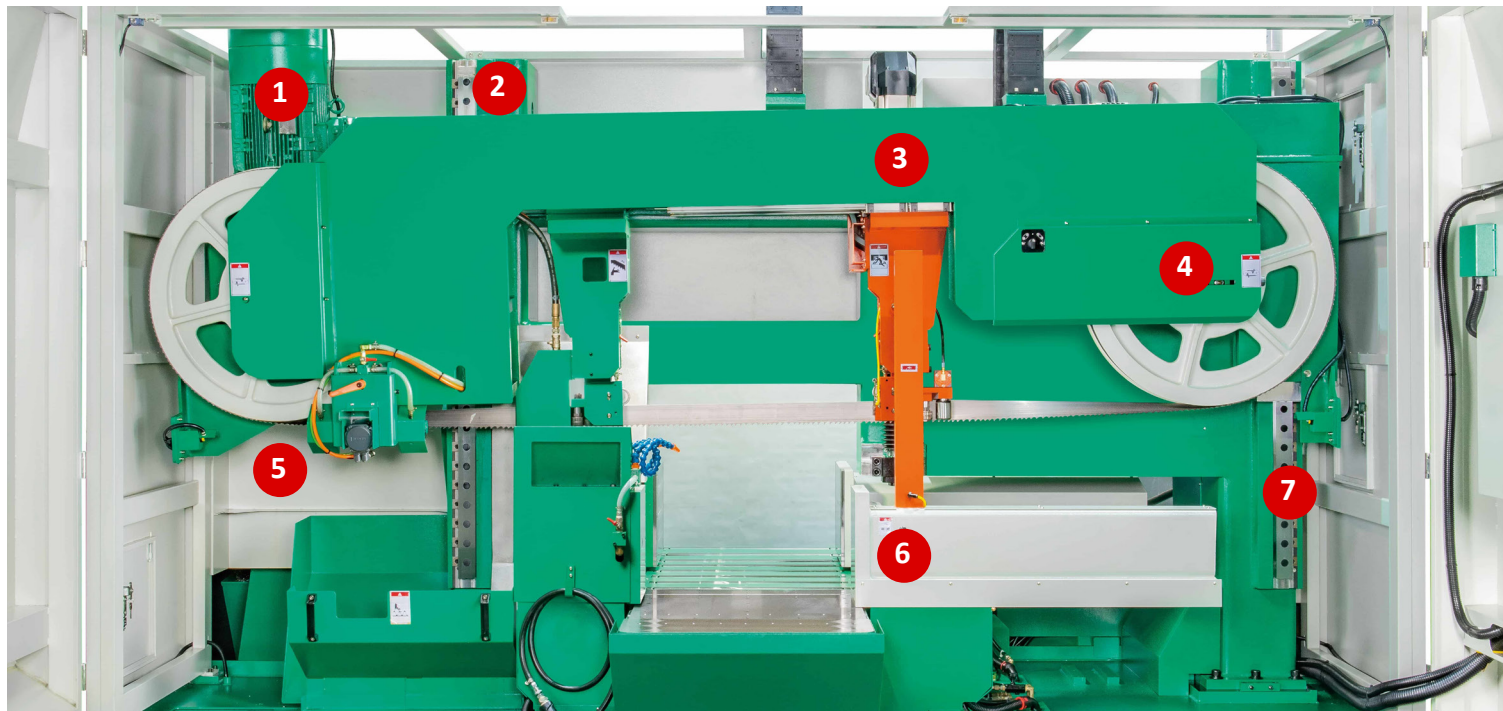
Thickness: 3 mm
 Saw speed: 65~100 m/min
 Removal rate: 70~110 cm²/min
 Energy consumption <2 kwh
 Accuracy: < 0.05 mm
 Time: 18 min / 11 min 40 sec



Inconel 718 : Ø300 mm (Performed on GT-A6H)

Cutting rate: 12cm²/min
 Cutting speed: 20 m/min

KEY FEATURES



1 High Performance Motor

- The saw blade is driven by a high-performance motor, combined with transmission via a spiral bevel gear, which provides constant power output and heavy cutting ability.
- Variable blade speed is controlled by an inverter offering a speed range between 10~150 m/min.
- The main motor is equipped with an encoder for instant feedback control and speed compensation. This ensures no vibration at the start of cutting and provides a stable output of cutting force.

2 Double Column Structure

- The double column structure is equipped with linear guideways for smooth friction free movement.

3 Rigid Guide Arms

- The moving guide arm is hydraulically driven and equipped with an anti-vibration mechanism to suppress vibration during cutting.
- Enlarged guide bearings for increased stability and service life.
- The fixed guide arm is equipped with a high pressure coolant device to avoid secondary cutting

4 Guide Wheel Supported at Two Points

- Heavy duty hydraulic blade tension.
- Drive and tension wheel shafts are supported at both sides for increased stability.

5 Two Sets of Wire Brushes

- The wire brushes are driven by a servo inverter, with their speed synchronized to the blade speed.
- Wire brushes are fitted on the front and rear side of the blade, increasing cleaning capability.

6 Front and Rear Vice

- Two split vices help prevent material drag
- Equipped with high precision encoder for directly measuring the material width.
- Maximum material feed distance in a single pass is 600mm.

7 Laser Fast Approach

- Using a laser to detect the material height removes the need of manual setting. It's reliable and not restricted by the material shape and height.