

AMADA MACHINE TOOLS AMERICA, INC.



THE VISION OF PRECISION

H Series



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Amada Machine Tools America



With more than 70 years of industry experience, Amada Machine Tools America is committed to helping our customers deliver dependable service and top-quality work with exceptional sawing solutions.

Whatever your sawing needs, we have the right solution for your specific application.

Market-Leading Quality—We believe quality work begins with quality tools designed and built from the ground up to deliver outstanding performance, time after time.

Customer-Driven Innovation—Every feature, function, and configuration we offer has been developed to address the needs of our customers.

Proven Accuracy—We help you take your work to the next level and exceed your customers' expectations.

Reliable Productivity—We understand productivity is the heart of your business, and we can help you optimize it in multiple ways.

A History of Cutting-Edge Manufacturing

Amada Machine Tools was founded on the manufacturing of saws back in 1946. Since that time, our goals have always been to provide our customers with increased productivity and reliability.

And, as technology has evolved, we've embraced CNC automation as a core strength, improving throughput and helping new operators become productive more quickly.

Today, we are uniquely positioned to help you expand your capabilities and grow your business.

Solutions Designed Around Customer Needs

No two customers' needs are exactly alike. Finding the right solution means thoroughly understanding your objectives and configuring a solution to match them precisely. Our engineers bring decades of industry experience to help you achieve your specified goals with a process that fits—and enhances—your workflow.

TECHNOLOGIES OF AMADA



GRINDING



MILLING



SAWING

Amada Sawing Technology



A Perfect Match with Amada Blades

Amada also offers another unique advantage in that we manufacture our own bandsaw blades. This allows you to precisely match the characteristics of the blade to the machine to achieve optimum cutting performance, no matter what material you're working with.

Because we manufacture our own blades, we're able to ensure we've got the right blades—in stock—when you need them. And we have expert engineers with years of industry experience on staff to answer any questions you might have.

Finding the Right Solution

No matter what kind of sawing capabilities you need, these machines deliver the proven quality and accuracy that have made Amada the trusted choice for productivity and reliability.

Series	Description
CTB	CNC-controlled horizontal bandsaws designed for carbide-tipped blades
DYNASAW	Dynamic, high-performance bandsaw machines
H	Highly rigid horizontal bandsaws for a wide range of cutting tasks
HA	Semi-automatic horizontal bandsaws
HFA	Fully automatic horizontal bandsaws
HK	Miter-cutting bandsaws for structural steel sections
HKB	NC bandsaws for bundled tubes, solids, and structural materials
PCSAW	Horizontal bandsaws with Amada's revolutionary pulse cutting technology
VM	Vertical bandsaws for cutting blocks and plates
CMB	Circular saws with exceptional surface finishing
SCP	Automated chip compactor



SAWING TECHNOLOGY

Saws

Throughout the steel processing world, the Amada name is known for quality and dependability. Our lineup of industry-leading saws brings a host of innovations designed to improve your productivity. From operator-friendly controls and intuitive CNC software to our patented pulse-cutting technology that offers dramatically improved cutting times while improving blade life, you can count on Amada

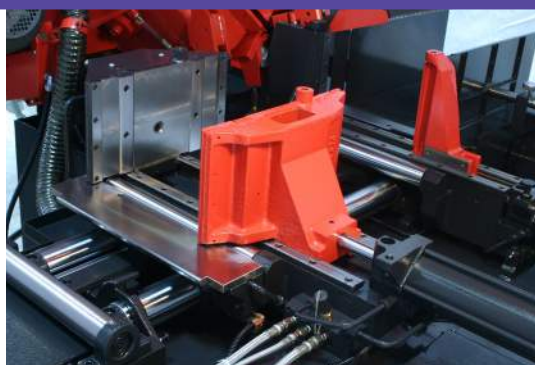


SAWING TECHNOLOGY

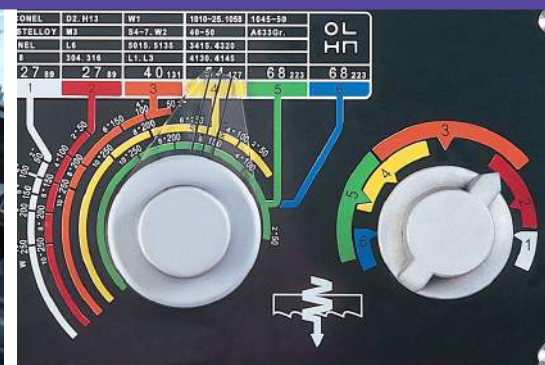
H Series

The proven design of our H Series bandsaws offers dependable productivity with a range of cutting capabilities to match your needs.

H550EII, H1000II, H1300II, H1600II and H2116II



Full-Stroke Vises



Pressure Flow Valve

MODEL	ROUND	RECTANGLE
H550EII	7.87"~18.90" (200 mm~480 mm)	Max: 21.65" x 18.90" (550 mm x 480 mm)
H1000II	15.7"~40" (400 mm~1000 mm)	Max: 44" x 40" (1110 mm x 1000 mm)
H1300II	22.4"~52" (570 mm~1300 mm)	Max: 52" x 52" (1300 mm x 1300 mm)
H1600II	23.62"~63" (600 mm~1600 mm)	Max: 63" x 63" (1600 mm x 1600 mm)
H2116II	23.62"~63" (600 mm~1600 mm)	Max: 82.68" x 63" (2100 mm x 1600 mm)

H550EII Features

Pressure Flow Valve—The cutting process can be optimized by simply setting the pressure flow valve to the target material, shape, and size.

Cutting Depth Setting Unit—As the blade descends horizontally, tooling and dovetail grooving can be easily handled by adjusting the cutting end height.

Light Beam—The light beam unit allows for easy alignment of marks. One-touch operation of the manual feeding unit moves workpieces back and forth. In addition, the user-friendly double vise system is installed to clamp materials.

H1000II, H1300II, H1600II and H2116II Features

Hydraulic Vise

- Prevents material movement while sawing
- Easy setup
- Positive clamping on full range of capacity

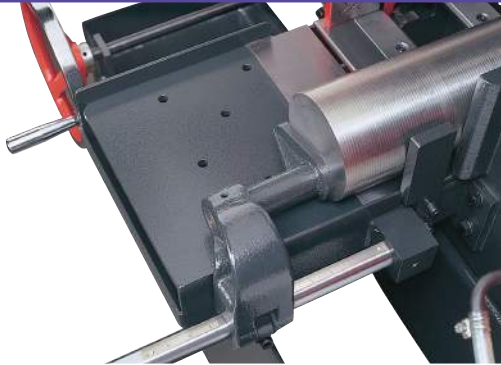
Dual-Cut Control System

- Combines with fine feed roller for accurate material indexing
- Blade feed is controlled by hydraulic flow control valve with stepping motor
- Maximum blade life in all cutting applications
- Easy setup with reference cutting rate system

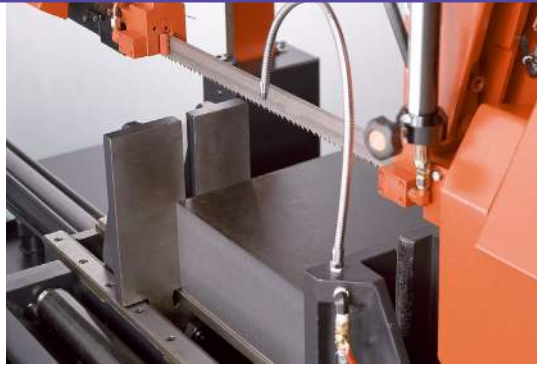
Manual Indexing

- Quick and easy indexing with outboard vise (H1000II)
- Quick and easy indexing with feed table (H1300II, H1600II, H2116II)

Highly Rigid Horizontal Bandsaws



Mechanical Stop



Clamping Front and Rear of Cut

STANDARD FEATURES	H550EII	H1000II	H1300II	H1600II	H2116II
Blade deviation monitor		•	•	•	•
Blade hour meter					
Blade speed controlled by inverter	•	•	•	•	•
Chip conveyor		•	•	•	•
CNC-Lite control down feed		•	•	•	•
Cutting depth indicator	•	•	•	•	•
Cutting rate display					
Drive: euro drive (no torque loss)					
Drive: helical gear (no torque loss)				•	•
Full stroke vise	•	•	•	•	•
Hydraulic clamping blade guides	•	•	•	•	•
Hydraulic insert clamp	•	•	•	•	•
Light beam marking	•	•	•	•	•
Motion detector	•	•	•	•	•
Outboard vise		•	•	•	•
Hydraulic flow valve with stepping motor		•	•	•	•
Quick approach arm		•	•	•	•
Remote blade guide control					
Table feed control			•	•	•
Variable blade speed drive					
Wheel cover limit switch	•	•	•	•	•

OPTIONAL ACCESSORIES	H550EII	H1000II	H1300II	H1600II	H2116II
Rear vise					
Roller tables	•	•			

H550EII

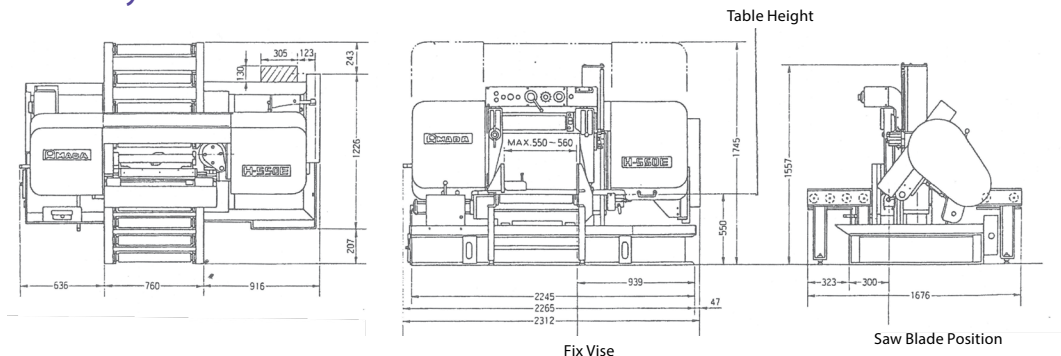


H550EII

H550EII Machine Specifications

CAPACITY	Cutting capacity	Round (diameter)	7.87"~18.90"	200~480 mm
		Rectangle (W x H)	21.65" x 18.90"	550 x 480 mm
	Work load capacity		4408 lb	2000 kg
BLADE AND VISE OPERATION	Saw blade	Dimensions (L x T x W)	16' x 0.050" x 1.5"	4,880 x 1.3 x 41 mm
		Blade speed	56, 82, 115, 148, 180, 213, 246 ft/min	7, 25, 35, 45, 55, 65, 75 m/min
		Tension control	Hydraulic	
	Blade control	Top limit setting	Manual setting	
		Cutting control	Hydraulic pressure and flow control valve	
	Vise operation	Type	Main split vise	
MOTORS		Control	Hydraulic full-stroke cylinder	
	Saw blade motor	7.5 HP	5.5 kW	
	Hydraulic pump motor	2 HP	1.5 kW	
	Cutting fluid pump motor	1/2 HP	0.2 kW	
POWER REQUIREMENTS	Power supply voltage	AC220 ± 10%, 3 PH, 60 Hz (all other voltages require transformer)		
	Power requirement	10 kVA		
CUTTING FLUID AND HYDRAULIC	Cutting fluid	Tank capacity	21.1 gal	80 liters
		Pump type	Electric	
	Hydraulic	Tank capacity	18.5 gal	70 liters
		Pressure setting	498 psi	3.5 MPa (kgf/cm ²)
CHIP DISPOSAL	Chip conveyor			
MATERIAL INDEX	Index mechanism	N/A		
	Stroke	N/A		
	Length	N/A		
	Number of input stations	N/A		
	Number of cut-off pieces	N/A		
	Remnant length	N/A		
DIMENSIONS AND WEIGHT	Machine dimensions (W x L x H)	Head up position	107.2" x 72.8" x 80.9"	2723 x 1850 x 2055 mm
		Head down position	107.2" x 72.8" x 68.7"	2723 x 1850 x 1745 mm
	Table height (above floor)	26.7"		
	Machine weight	4629.8 lb		

Floor Layout



H1000II

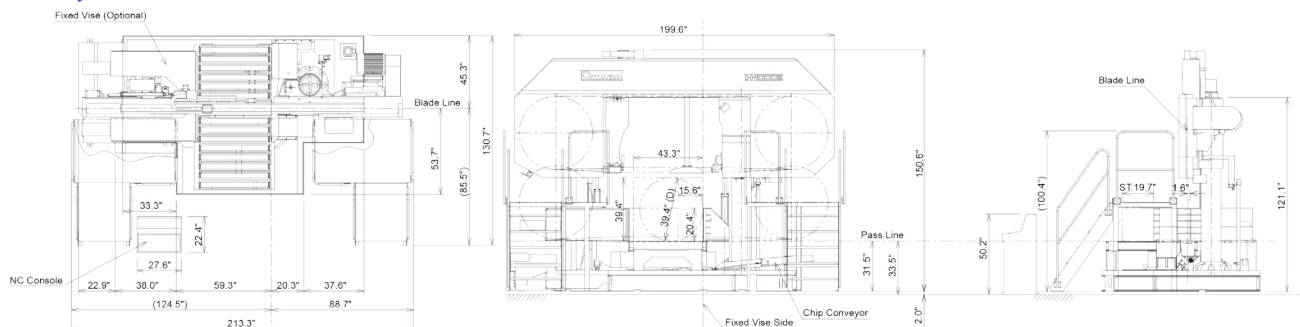


H1000II

H1000II Machine Specifications

CAPACITY	Cutting capacity	Round (diameter)	15.7"~40"	400~1000 mm	
		Rectangle (W x H)	15.7" x 15.7"~44" x 40"	400 x 400 mm~1100 x 1000 mm	
	Work load capacity		33,069 lb	15,000 kg	
BLADE AND VISE OPERATION	Saw blade	Dimensions (L x T x W)	36'5" x 0.063" x 3"	11,100 x 1.6 x 80 mm	
		Blade speed	50~246 ft/min, by inverter	15~75 m/min, by inverter	
		Tension control	Hydraulic		
	Blade control	Top limit setting	Automatic setting with quick approach feeler		
		Cutting control	CNC-Lite, hydraulic flow control valve with stepping motor		
	Vise operation	Type	Front and rear vise		
		Control	Hydraulic full-stroke cylinder		
MOTORS	Saw blade motor	15 HP	11 kW		
	Hydraulic pump motor	5 HP	3.7 kW		
	Cutting fluid pump motor	1/4 HP	0.2 kW		
POWER REQUIREMENTS	Power supply voltage	AC220 ± 10%, 3 PH, 60 Hz (all other voltages require transformer)			
	Power requirement	20 kVA			
CUTTING FLUID AND HYDRAULIC	Cutting fluid	Tank capacity	66 gal	250 liters	
		Pump type	Electric		
	Hydraulic	Tank capacity	39.6 gal	150 liters	
		Pressure setting	1,110 psi	7.8 MPa (78 kgf/cm ²)	
CHIP DISPOSAL	Chip conveyor				
MATERIAL INDEX	Index mechanism		Outboard vise, manual operation		
	Stroke		19.7" (manual)	500 mm (manual)	
	Length		N/A		
	Number of input blocks and stations		N/A		
	Number of cut-off pieces		N/A		
	Remnant length		N/A		
DIMENSIONS AND WEIGHT	Machine dimensions (W x L x H)	Head up position	213.3" x 130.7" x 150.6"	5417 x 3321 x 3824 mm	
		Head down position	213.3" x 130.7" x 121.1"	5417 x 3321 x 3075 mm	
	Table height (above floor)		33.5"	850 mm	
	Machine weight		30,800 lb	14,000 kg	

Floor Layout



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H1300II

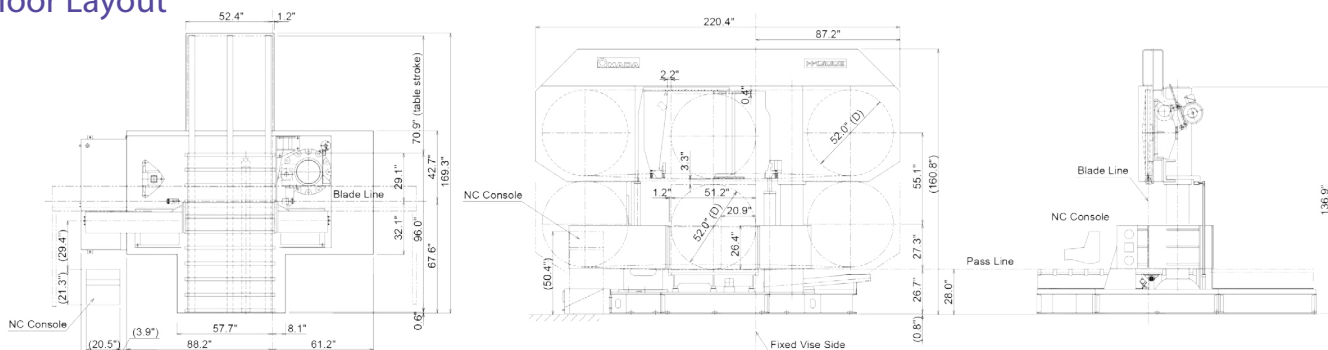


H1300II

H1300II Machine Specifications

CAPACITY	Cutting capacity	Round (diameter)	22.4~52"	570~1300 mm	
		Rectangle (W x H)	52" x 52"	1300 x 1300 mm	
	Work load capacity		37,487 lb	17,000 kg	
BLADE AND VISE OPERATION	Saw blade	Dimensions (L x T x W)	40'4" x 0.063" x 3"	12,300 x 1.6 x 80 mm	
		Blade speed	50~230 ft/min, by inverter	15~70 m/min, by inverter	
		Tension control	Hydraulic		
	Blade control	Top limit setting	Automatic setting with quick approach feeler		
		Cutting control	CNC-Lite, hydraulic flow control valve with stepping motor		
	Vise operation	Type	Main vise		
		Control	Hydraulic full-stroke cylinder		
MOTORS	Saw blade motor	20 HP	15 kW		
	Hydraulic pump motor	5 HP	3.7 kW		
	Cutting fluid pump motor	1/4 HP	0.4 kW		
POWER REQUIREMENTS	Power supply voltage	AC220 ± 10%, 3 PH, 60 Hz (all other voltages require transformer)			
	Power requirement	28 kVA			
CUTTING FLUID AND HYDRAULIC	Cutting fluid	Tank capacity	73.9 gal	280 liters	
		Pump type	Electric		
	Hydraulic	Tank capacity	52.8 gal	200 liters	
		Pressure setting	1080 psi	7.6 MPa (76 kgf/cm²)	
CHIP DISPOSAL	Chip conveyor				
MATERIAL INDEX	Index mechanism		Table feed, manual operation		
	Stroke		70.8" hydraulic	1800 mm hydraulic	
	Length		N/A		
	Number of input blocks and stations		N/A		
	Number of cut-off pieces		N/A		
	Remnant length		N/A		
DIMENSIONS AND WEIGHT	Machine dimensions (W x L x H)	Head up position	220.4" x 171.6" x 160.8"	5597 x 4360 x 4084 mm	
		Head down position	220.4" x 171.6" x 136.9"	5597 x 4360 x 3479 mm	
	Table height (above floor)		27.5"	700 mm	
	Machine weight		40,790 lb	18,500 kg	

Floor Layout



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H1600II

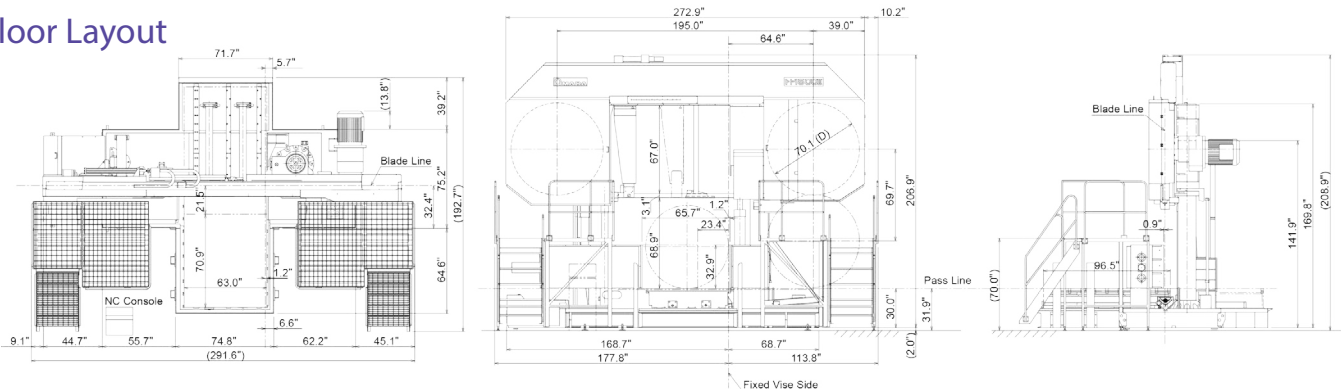


H1600II

H1600II Machine Specifications

CAPACITY	Cutting capacity	Round (diameter)	23.62"~63"	600~1600 mm
		Rectangle (W x H)	63" x 63"	1600 x 1600 mm
	Work load capacity		88,200 lb	40,000 kg
BLADE AND VISE OPERATION	Saw blade	Dimensions (L x T x W)	50"10" x 0.063" x 3"	15,500 x 1.6 x 80 mm
		Blade speed	39.4~196.8 ft/min, by inverter	12~60 m/min, by inverter
		Tension control	Hydraulic	
	Blade control	Top limit setting	Automatic setting with quick approach feeler	
		Cutting control	CNC-Lite, hydraulic flow control valve with stepping motor	
	Vise operation	Type	Single vise	
		Control	Hydraulic full-stroke cylinder	
MOTORS	Saw blade motor	20 HP	15 kW	
	Hydraulic pump motor	7.5 HP	5.5 kW	
	Cutting fluid pump motor	1/2 HP	0.4 kW	
POWER REQUIREMENTS	Power supply voltage	AC220 ± 10%, 3 PH, 60 Hz (all other voltages require transformer)		
	Power requirement	35 kVA		
CUTTING FLUID AND HYDRAULIC	Cutting fluid	Tank capacity	92.5 gal	350 liters
		Pump type	Electric	
	Hydraulic	Tank capacity	66.1 gal	250 liters
		Pressure setting	1045 psi	7.5 MPa (73.5 kgf/cm ²)
CHIP DISPOSAL	Chip conveyor			
MATERIAL INDEX	Index mechanism		Table feed, manual operation	
	Stroke		70.9" hydraulic	1800 mm hydraulic
	Length		N/A	
	Number of input blocks and stations		N/A	
	Number of cut-off pieces		N/A	
	Remnant length		N/A	
DIMENSIONS AND WEIGHT	Machine dimensions (W x L x H)	Head up position	291.6" x 192.7" x 208.9"	7407 x 4895 x 5307 mm
		Head down position	291.6" x 192.7" x 169.8"	7407 x 4895 x 4314 mm
	Table height (above floor)		31.9"	810 mm
	Machine weight		66,200 lb	30,000 kg

Floor Layout



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H2116II

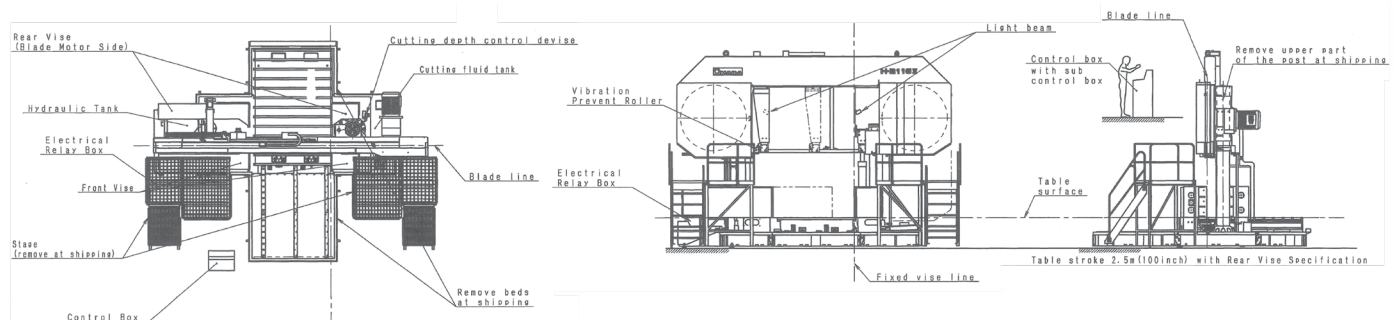


H2116II

H2116II Machine Specifications

CAPACITY	Cutting capacity	Round (diameter)	23.62"~63"	600~1600 mm
		Rectangle (W x H)	23.62"x 23.62"~82.68" x 63"	600 x 600 mm~2100 x 1600 mm
	Work load capacity		88,200 lb	40,000 kg
BLADE AND VISE OPERATION	Saw blade	Dimensions (L x T x W)	54'2" x 0.063" x 3"	16,500 x 1.6 x 80 mm
		Blade speed	39.4~196.8 ft/min, by inverter	12~60 m/min, by inverter
		Tension control	Hydraulic	
	Blade control	Top limit setting	Automatic setting with quick approach feeler	
		Cutting control	CNC-Lite, hydraulic flow control valve with stepping motor	
	Vise operation	Type	Single vise	
MOTORS		Control	Hydraulic full-stroke cylinder	
	Saw blade motor	20 HP	15 kW	
	Hydraulic pump motor	7.5 HP	5.5 kW	
	Cutting fluid pump motor	1/4 HP	0.4 kW	
POWER REQUIREMENTS	Power supply voltage	AC220 $\pm$ 10%, 3 PH, 60 Hz (all other voltages require transformer)		
	Power requirement	32 kVA		
CUTTING FLUID AND HYDRAULIC	Cutting fluid	Tank capacity	92 gal	350 liters
		Pump type	Electric	
	Hydraulic	Tank capacity	66 gal	250 liters
		Pressure setting	1045 psi	7.5 MPa (73.5 kgf/cm ²)
CHIP DISPOSAL	Chip conveyor			
MATERIAL INDEX	Index mechanism	Table feed, manual operation		
	Stroke	70.9" hydraulic	1800 mm hydraulic	
	Length	N/A		
	Number of input block and station	N/A		
	Number of cut-off pieces	N/A		
	Remnant length	N/A		
DIMENSIONS AND WEIGHT	Machine dimensions (W x L x H)	Head up position	311.5" x 190" x 207.7"	7912 x 4810 x 5276 mm
		Head down position	311.5" x 190" x 169.8"	7912 x 4810 x 4314 mm
	Table height (above floor)	32.5"	825 mm	
	Machine weight	66,150 lb	30,000 kg	

Floor Layout



See Amada Saws at Work



The AMTA Technical Center was created to provide a unique atmosphere for visitors to experience the latest manufacturing technology in action. This stunning 40,000-square-foot facility houses the latest Amada technology in each product group. Much more than just an exhibit, every machine, automation accessory, and software program in the facility is fully operational and ready to empower customers to solve their most challenging manufacturing applications.

Specifications, appearance and dimensions are subject to change without notice at the sole discretion of Amada's Engineering Department.

There may be differences between the specifications described in this catalog and the Amada products actually shipped. Please ask our staff for more detail.

The products in the catalog may be subject to the provisions of foreign exchange and the Foreign Trade Law. When exporting cargo subject to such controls, permission pursuant to regulation is required. Please contact our business representative in advance when exporting products overseas.

When using our products, safety equipment is required depending on the operational task.

For safe and correct operation, ensure thorough reference to the Instruction Manual prior to operation.

The cutting performance data in this catalog may be affected by temperature, the cutting materials, tool materials, and cutting conditions, etc. Please note that such data are not guaranteed.

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