

HPSAW310

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Capacity

Cutting Capacity	Round (Diameter)	1.97" – 12.20"	50 - 310 mm
	Rectangle (W x H)	12.20" x 12.20"	310 x 310 mm
Work Load Capacity		2,426 lbs.	1,100 kg.

Blade and Vise Operation

Saw Blade	Dimensions (L x T x W)	24'1" x 0.063" x 2-5/8"	7345 x 1.6 x 67 mm
	Blade Speed	49-1312 ft./min, by Inverter	15-400 m/min, by Inverter
	Tension Control	Hydraulic	
Blade Control	Top Limit Setting	Automatic Setting with Quick Approach Feeler	
	Cutting Control	Windows Based CNC Control, Servo Motor with Ball Screw	
Vise Operation	Type	Front, Main and Rear Vises	
	Control	Hydraulic Full-Stroke Cylinder	

Motors

Motors	Saw Blade Motor	30 HP	22 kW
	Hydraulic Pump Motor	5 HP	3.7 kW
	Cutting Feed AC Servo Motor	1.5 HP	1.0 kW
	Work Feed Ac Servo Motor	1.5 HP	1.0 kW
	Wire Brush Motor	1/2 HP	0.4 kW
	High Pressure Coolant - Supply	2 HP	1.28 kW
	High Pressure Coolant - Discharge	2 HP	1.5 kW
	Cutting Fluid Pump Motor	1/4 HP	0.18 kW

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Power Requirements

Power Requirements	Power Supply Voltage	AC220V±10%, 3 PH, 60 Hz All Other Voltages Require Transformer
	Power Requirement	60 kVA

Cutting Fluid and Hydraulic

Cutting Fluid	Tank Capacity		106 gal.	402 liters
	Pump Type		Centrifugal Electric Pump	
	Pump Capacity		19.8 gal/min	75 L/min
High Pressure Coolant	Tank Capacity		4 gal	15 liters
	Supply Pump	Type	Centrifugal Pump	
		Capacity	71.3 gal/min	270 L/min
	Discharge Pump	Type	Plunger Pump	
		Capacity	4.5 gal/min	17 L/min
		Pressure Setting	569 psi	3.92 MPa (39 kgf/cm ²)
Hydraulic	Tank Capacity		8 gal.	30 liters
	Pump Type		Variable displacement Vane Pump	
	Pressure Setting		814 psi	5.8 MPa (58 kgf/cm ²)

Chip Disposal

Chip Disposal	Automatic follow up double wire brush with wear detection
	Motor -driven wide scraper type chip conveyor

Material Index

Material Index	Index Mechanism	AC Servo Motor	
	Stroke	23.62"	600 mm
	Length	0.394"-23.62"	10-600 mm
	Number of Input Block	1-99	
	Number of Input Station	1-99	
	Number of Cut-Off Pieces	1-9999	
	Remnant Length	1.97" plus length of parts	50 mm plus length of parts

Dimensions and Weight

Machine Dimensions (W x L x H)	Head Up Position	169.6" x 106.6" x 92.7"	4309 x 2707 x 2354 mm
	Head Down Position	169.6" x 106.6" x 92.7"	4309 x 2707 x 2354 mm
Table Height (Above Floor)		35.4"	900 mm
Machine Weight		17640 lbs.	8000 kg.

Specifications may change without notice at the sole discretion of Amada's Engineering Department.

Machine Standard Features

3D Self-Adjusting Wire Brush
 Inverter Blade Speed Change
 Motion Detector
 Windows Based CNC Controls
 Rear Vise Feed by Servo Motor
 Work Light

Double Blade Deviation Monitor
 Cutting Control by Servo Motor with Ball Screw
 Large Area Chip Conveyor
 Auto Trim Cut Function
 Double twin Anti Vibration Roller

Optional Accessories

Roller Table
 Return Conveyor
 External Chip Conveyor
 Vise Pressure Control
 Signal Tower
 Vertical Clamps