

HFA 400 & HFA 400W



Specifications

Cutting Capacity

Single cutting

Round work (Diameter)* : 420 mm (16.54 in.)
Rectangular work (H X W)* : 415 x 415 mm (16.34 x 16.34 in.)
400 x 400 mm (15.75 x 15.75 in.)
machine is equipped with
optional runout detector

Stack cutting (H x W) : 50 x 180mm (1.97 x 7.09 in.) to
200 x 300 mm (7.87 x 11.81 in.)

Motors

Saw blade motor : 5.5 kW (7.4 HP), 4P
Hydraulic pump motor : 1.5 kW (2.0 HP), 4P
Cutting fluid pump motor : 0.18 kW (0.24 HP), 2P

Environment

Power source : 3-phase, 400 VAC:± 10%, 50 Hz
Temperature : Operating: 0 to 40°C
(32 to 104°F)
: Nonoperating: -5 to 50°C
(23 to 122°F)
Humidity : Operating: 30 to 90% during
: Nonoperating: 10 to 95%
(noncondensing)

Control circuit voltage

AC 100V, DC 24 V, DC 12V

Saw Blade

Dimensions (W x T x L) : HFA-400:32 x 1.066 x
4570 mm (1 -114 in. x
0.042 in. x 15ft)
: HFA-400W:38 x 1.3 x
4570 mm (1-1/2 in. x
0.051 in. x 15ft)

Speed : 15 to 90 m/min (49 to
295 fpm), stepless shift

Tension control : Hydraulic powered,
with saw blade
breakage and slip
detection functions

Guide

Side : Insert 4-point support,
bearing twist

Back : Bearing, seesaw
support

Vise operation

Hydraulic full-stroke cylinder

Cutting fluid

Tank capacity	: 120 liters (31.7 US gal)
Pump type	: Centrifugal pump
Pump capacity	: 60 liters/min (15.9 US gal/min) at lift of 4 m (13 ft)

*When automatic operation is to be performed, work must be at least 30 mm (1.18 in.) in diameter or width.

Hydraulic

Tank capacity	: 40 liters (10.6 US gal)
Pump type	: Variable-volume piston pump
Pump capacity	: 22 liters/min (5.8 US gal/min)
Pressure setting	: 3.5 MPa (35 kgf/cm ² or 498 psi)

Saw Blade control

UP

Automatic	: Hydraulic automatic rise (automatic stop at upper limit)
Manual	: Inching up by pushbutton operation
Rise height setting	: Automatic setting with quick approach feeler

DOWN

Automatic	: Rapid approach with quick approach feeler
Manual	: Inching down by pushbutton operation
Depth-of-cut-control	: Hydraulic pressure-flow control valve
Slip detection	: Automatic stop at overload, jamming, or breakage

Work feed

Type (capacity)	: Hydraulic shuttle type, maximum stroke length of 400 mm (15.75 in.), standby position selectable
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Remnant length [for clamp clearance of 10mm (0.4 in.)]	: Single cutting: 76 mm (2.99 in.)** Stack cutting: 214 mm (8.43 in.)
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Chip disposal

Chip conveyor (automatic hydraulic screw type)

Table height

800 mm (31.5 in.)

Saw blade twist angle

60°

Allowable loading mass on machine

2500 kg (5510 lb)

Machine dimensions (W x D x H)

2462 x 2646 x 2522 mm (96.9x 104.2 x 99.3 in.)

Machine mass

Approx. 2200 kg (4850 lb)

**When the machine is equipped with an optional head-end positioning function, the remnant must be 150 mm (5.91 in.) or longer when work with a diameter or height of less than 12 mm (0.47 in.) is to be fed.

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



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