

HFA 500



Specifications

Cutting Capacity

Single cutting

| | |
|--------------------------|--|
| Round work (Diameter) | : 500 mm (19.69 in.) |
| Rectangular work (H X W) | : 500 x 500 mm (19.69 x 19.69 in.) |
| Stack cutting (H x W) | : 50 x 200mm (1.97 x 7.87 in.) to 250 x 350 mm (9.84 x 13.78 in.) |

Motors

| | |
|--------------------------|-------------------------|
| Saw blade motor | : 5.5 kW (7.4 HP), 6P |
| 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, 200 VAC:± 10%, 50/60 Hz 3-phase, 220 VAC:± 10%, 60 Hz |
| Ambient temperature | : Operating: 0 to 45°C (32 to 113°F) : Nonoperating: -5 to 50°C (23 to 122°F) |
| Relative humidity | : Operating: 30 to 90% : Nonoperating: 10 to 95% (noncondensing) |

Control circuit voltage

AC 100V, DC 24 V

Saw Blade

| | |
|------------------------|---|
| Dimensions (W x T x L) | : 41 x 1.3 x 5300 mm (1.61 in. x 0.051 in. x 17 ft 5 in.) |
| Running speed | : 15 to 120 m/min (49 to 394 fpm) at 50 Hz, stepless shift 18 to 144 m/min (59 to 472 fpm) at 60 Hz, stepless shift. |
| Tension control | : Hydraulic tension cylinder system |

Guide

| | |
|------|--|
| Side | : Insert 4-point support, bearing twist |
| Back | : Bearing, seesaw support |

Cutting fluid

| | |
|---------------|---|
| Tank capacity | : 70 L (18.5 US gal) |
| Pump type | : Centrifugal pump (OPS-180H) |
| Pump capacity | : 60 L/min (15.9 US gal/min) at lift of 4 m (13 ft) |

Vise operation

Hydraulic full-stroke cylinder

Hydraulic

| | |
|------------------|--|
| Tank capacity | : 70 L (18.5 US gal) |
| Pump type | : Variable-volume piston pump |
| Pump capacity | : 22 L/min (5.8 US gal/min) at 50Hz : 26 L/min (6.9 US gal/min) at 60Hz |
| 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 down with quick approach feeler |
| Manual | : Inching down by pushbutton operation |
| Cutting speed control | : Pressure-flow control system |
| Slip detection | : Automatic stop at overload, jamming, or breakage |

Work feed

| | |
|--|--|
| Type (capacity) | : Hydraulic shuttle type, maximum stroke length of 600 mm (23.62 in.), standby position selectable |
| Remnant length [(for clamp clearance of 10mm (0.4 in.)] | : Single cutting: 125 mm (4.92 in.)** Stack cutting: 275 mm (10.83 in.) |

Chip disposal

Chip conveyor (automatic hydraulic screw type)

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

Table height

800 mm (31.5 in.)

Saw blade twist angle

45°

Allowable loading mass on machine

3500 kg (7720 lb)

Machine dimensions (W x D x H)

2550 x 3330 x 1700 mm (100.4 x 131.1 x 66.9 in.)

Machine mass

3500 kg (7720 lb)

Number of Input Stations

99

Cut off length

5.0 to 9999.9 mm in 0.1-mm increments
0.197 to 99.999 inches in 0.001-Inch increments

10.0 to 9999.9 mm (0.394 to 99.999 in.) when machine
continues to operate automatically according to preset
cutting data

Number of cut pieces

1 to 9999 per station

Kerf compensation

Automatic kerf compensation
Also automatically calculated during feed of long work

Input method

Numeric-key input

Cutting data display

LCD Screen

Memory backup

Yes (dedicated battery built in)



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