

# HFA 530



## Specifications

### Cutting Capacity

Round work (Diameter)	: Ø30 to Ø530 mm (Ø1.18 to Ø20.87 in.)
Rectangular work (H X W)	: 30 x 30 mm to 530 x 530 mm (1.18 x 1.18 in. to 20.87 x 20.87 in.)

### Motors

Saw blade motor	: 7.5 kW (10.0 HP), 4P
Hydraulic pump motor	: 3.7 kW (5.0 HP), 4P
Cutting fluid pump motor	: 0.18 kW (0.24 HP), 2P
Wire brush motor	: 0.09 kW (0.12 HP), 4P

### Environment

Power source	: 3-phase, 200 VAC:± 10%, 50/60 Hz : 3-phase, 220 VAC:± 10%, 60 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% : Nonoperating: 10 to 95% (noncondensing)

### Control circuit voltage

AC 100V, DC 24 V

### Saw Blade

Dimensions (W x T x L)	: 67 x 1.6 x 6670mm (2.64 x 0.063 x 262.6 in.)
Running speed	: 15 to 120 m/min (49 to 394 fpm) at 50/60 Hz, changed by inverter
Tension control	: Hydraulic powered, with saw blade breakage and slip detection functions

### Guide

Side	: Inserts, bearing twist
Back	: Backup tips

### Vise operation

Type	: Split vise
Operation	: Hydraulic full-stroke cylinder

### Cutting fluid

Tank capacity	: 200 liters (52.8 US gal)
Pump type	: Centrifugal pump
Pump capacity	: 60 liters/min (15.9 US gal/min) at 50/60 Hz

## Hydraulic

Tank capacity	: 40 liters (10.6 US gal)
Pump type	: Piston pump
Pump capacity	: 22 liters/min (5.8 US gal/min) at 50 Hz 26 liters/min (6.9 US gal/min) at 60 Hz
Pressure setting	: 7.0 MPa (70 kgf/cm <sup>2</sup> or 996 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 powered, CNC-LIGHT unit
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
Remnant length	: 85 mm (3.35 in.) for clamp clearance of 10 mm (0.4 in.)

## Chip disposal

Automatic follow-up wire brush  
Chip conveyor (automatic hydraulic screw type)

## Table height

830 mm (32.7 in.)

## Allowable loading mass on machine

4000 kg (8820 lb)

## Machine dimensions (W x D x H)

3015 x 1865 x 1965 mm (118.7 x 73.4 x 77.4 in.)

## Machine mass

Approx. 6300 kg (13890 lb)

## Number of Input Stations

99

## Cut off length

10.0 to 9999.9 mm in 0.1-mm increments  
0.394 to 99.999 inches in 0.001-inch increments

## 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)

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



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