

# VM 420



## Specifications

### Cutting capacity

Rectangular work (W x D x H)

Maximum : 420mm x 300 mm x 150 mm  
(16.5 in. x 11.8 in. x 5.9 in.)

Minimum : Clamp width:  
10 mm (0.394 in.)  
: Work height:  
5 mm (0.197 in.)  
: Cutoff length:  
3 mm (0.118 in.)

### Motors

Saw blade motor : 2.2 kW (2.95 HP), 4 P,  
200 V (at 50/60 Hz),  
220 V (at 60 Hz)

Hydraulic pump motor : 0.75 kW (1.00 HP), 4 P,  
200 V (at 50/60 Hz),  
220 V (at 60 Hz)

Cutting fluid pump motor : 0.10 kW (0.13 HP), 2 P,  
200 V (at 50/60 Hz),  
220 V (at 60 Hz)

Wire brush motor : 0.06 kW (0.08 HP), 4P,  
200 V (at 50/60 Hz),  
220 V (at 60 Hz)

Backgauge motor : AC servomotor, 0.20 kW  
(0.26 HP),  
200 V (at 50/60 Hz),  
220 V (at 60 Hz)

### Environment

Supply voltage : AC 200 V $\pm$ 10% (at  
50/60 Hz), AC 220  
V $\pm$ 10% (at 60 Hz)

Temperature : During operation:  
0 to + 40°C  
During non-operation:  
-5 to + 50°C

Humidity : During operation:  
30 to 90%  
During non-operation:  
10 to 95%  
(non-condensing)

### Control circuit voltage

AC 100 V, DC 24 V

## Saw Blade

Dimensions (W x T x L)	: Standard saw blade specification: 25 mm x 0.95mm x 3505 mm (0.98 in. x 0.03 in. x 137.99 in.)
Running speed	: 15 to 90 m/min (49 to 295 ft/min) Inverter speed change
Tension	: Hydraulic
<b>Guide</b>	
Side	: Insert support
Rear	: Back up tip support
Slip detection	: Machine automatically stops when saw blade is overloaded, jammed, or broken

## Tables

Front table width	: 167 mm (6.57 in.)
Rear table width	: 338 mm (13.30 in.)
Stroke	: 445 mm (17.52 in.)
Depth-of-cut control	: Hydraulic flow control valve

## Cutting fluid

Tank capacity	: 46 liters (12.1 US gal)
Pump type	: Centrifugal pump
Pump capacity	: 45 liters/min (11.89 US gal/min) at 50 Hz 60 liters/min (15.85 US gal/min) at 60 Hz

## Hydraulic oil

Tank capacity	: 40 liters (10.5 US gal)
Pump type	: Variable-discharge vane pump
Pump capacity	: 18 liters/min (4.7 US gal/min) at 60 Hz
Set pressure	: 2.7 Mpa

## Vises

Type	: Full-stroke vise
Operation	: Hydraulic
Vise clamp width	: 420mm (16.5 in.)
Vise height	: 50mm (19.6 in.)

## Backgauge

Set range: 3.0 to 305.0 mm (0.118 to 12.008 in.)

## Chip disposal

Manual removal

## Table height

750 mm (29.5 in.)

## Allowable loading mass on machine

200 kg (441 lb)

## Machine dimensions (W x D x H)

1515mmx 830mmx 1874mm  
(59.64 in. x 32.67 in. x 73.78 in.)

## Machine mass

900 kg (1984 lb)

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



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