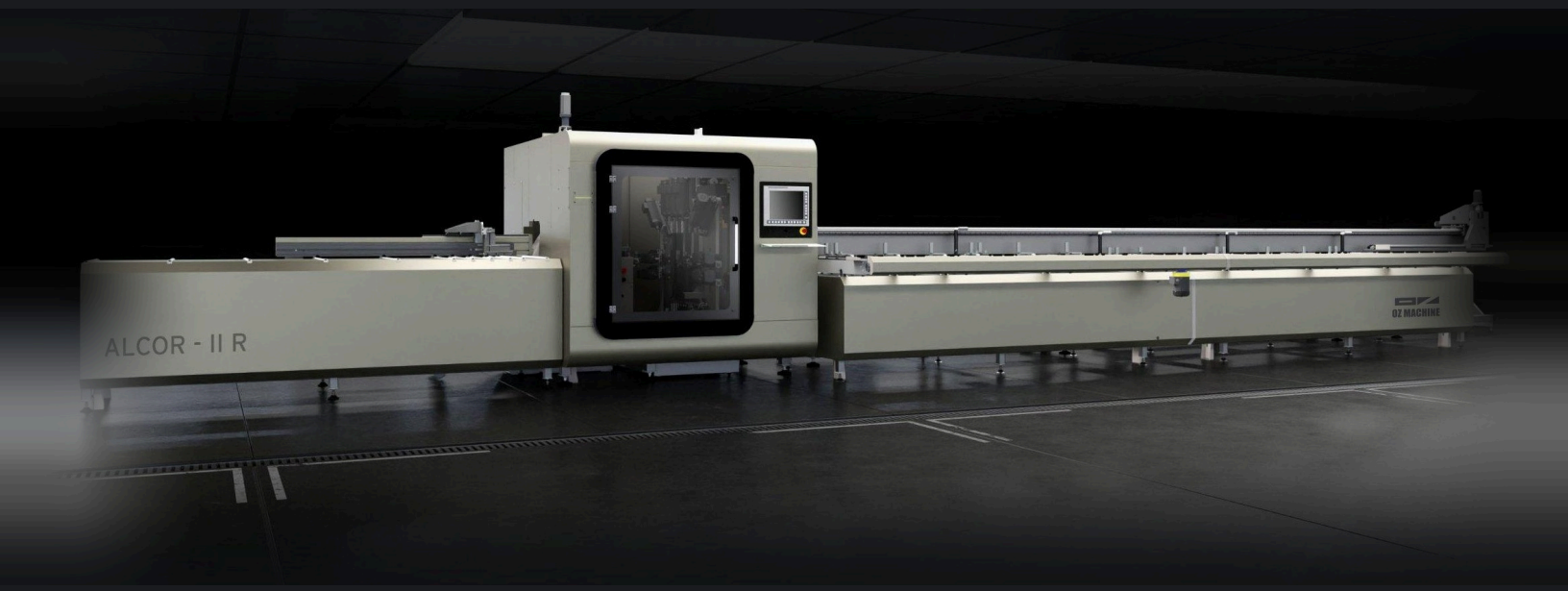
OZ MACHINE USA

ALCOR II R

CNC PVC / Vinyl Profile Machining and Cutting Center (8 Servo Axis, 14 Machining Axis)



Built for vinyl window lines: 13 spindles plus a handle hole drilling motor machine every opening, weep hole and hardware slot, and the 22" saw cuts the finished part. One operator, one line, from raw bar to ready-to-weld piece.

14 axes	13 spindles	30–150°	10 profiles
Machining axes	Fan-cooled spindles	Cutting angles	Loading magazine

KEY FEATURES

- Milling and drilling on 4 + 3 surfaces, tapping (optional)
- Weep hole milling on the line
- FANUC control, 15" industrial touchscreen PC
- Handle hole drilling motor
- 10-profile automatic loading magazine
- Guard cabin and automatic chip conveyor

WATCH IT RUN

ALCOR II R video on the Oz Machine USA YouTube channel
youtu.be/mbkYKMI3W4A

Max. power	Voltage	Air	Weight
50.45 kW	220V 3P, 60 Hz	8.8 CFM · 100 psi	8,580 lb

TECHNICAL DATA

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AXIS TRAVEL

Z Axis (Vertical)	min. 1.2" (30 mm) / max. 7.1" (180 mm)
SR Axis (Drive robot)	min. 47.2" (1200 mm) / max. 255.9" (6500 mm)
TZ Axis (Cutting unit vertical movement)	10.6" (270 mm)
TA Axis (Cutting unit rotation)	122°
GrY Axis (Gripper lateral)	4.6" (117 mm)
GrZ Axis (Gripper vertical)	4.5" (115 mm)

POSITIONING SPEED

X Axis (Longitudinal)	210 ft/min (64 m/min)
Y Axis (Lateral)	210 ft/min (64 m/min)
Z Axis (Vertical)	131 ft/min (40 m/min)
TZ Axis (Cutting unit vertical movement)	75 ft/min (23 m/min)
TA Axis (Cutting unit rotation)	48°/sec
SR Axis (Drive robot)	427 ft/min (130 m/min)

CUTTING UNIT

Cutting angles span	30° / 150°
Saw blade diameter	22"
Max. profile cutting dimensions at 90° (width / height)	5.9" (150 mm) / 7.1" (180 mm)
Saw blade motor power	3 kW / 4 HP

MILLING UNIT

Upper spindle rotation	0° / 45°
Frontal spindle rotation	45° / 135°
Fan cooling spindles	13
Maximum power	3 kW
Maximum speed	18,000 rpm
Tool holder	ER 20
Maximum number of machining units	13
Tapping	○
Handle hole drilling motor	●

● Standard ○ Optional

LOADING AND UNLOADING UNIT

Minimum profile loading length	47.2" (1200 mm)
Maximum profile loading length	295.3" (7500 mm)
Minimum profile unloading length	10.6" (270 mm)
Profile loading capacity	10
Automatic chip discharge conveyor unit	●

GRIPPER AXES TRAVEL

GrY Axis (Lateral) min. / max.	13/16" (20 mm) / 4.6" (117 mm)
GrZ Axis (Vertical) min. / max.	13/16" (20 mm) / 4.5" (115 mm)

CONTROL UNIT

Industrial PC - Touchscreen	15"
Remote access	●
Data transfer via network, Ethernet and USB	●
Barcode printer	●
Compatible with optimized cutting and machining list data	●
Compatibility with CAM programs	○
FANUC CNC control	●

OPERATIONAL AREA

Automatic clamp positioning on X-axis	●
Automatic lubrication in machining area	●
Guard cabin for machining area	●

AIR & ELECTRICAL

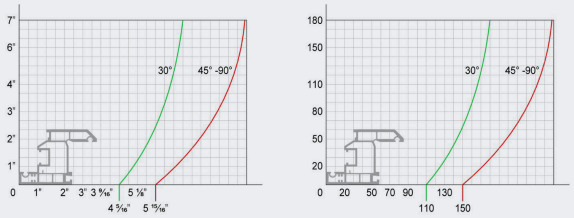
Maximum power	50.45 kW
Voltage	220V 3P, 60 Hz
Air pressure / consumption	100 psi / 8.8 CFM

CUTTING DIAGRAM & LAYOUT PLAN

ALCOR II R

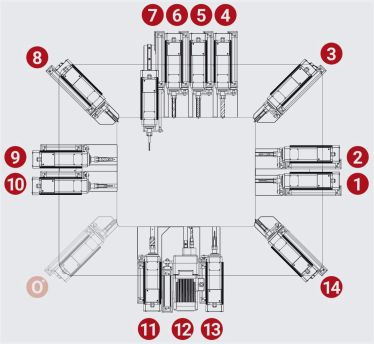
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CUTTING DIAGRAM



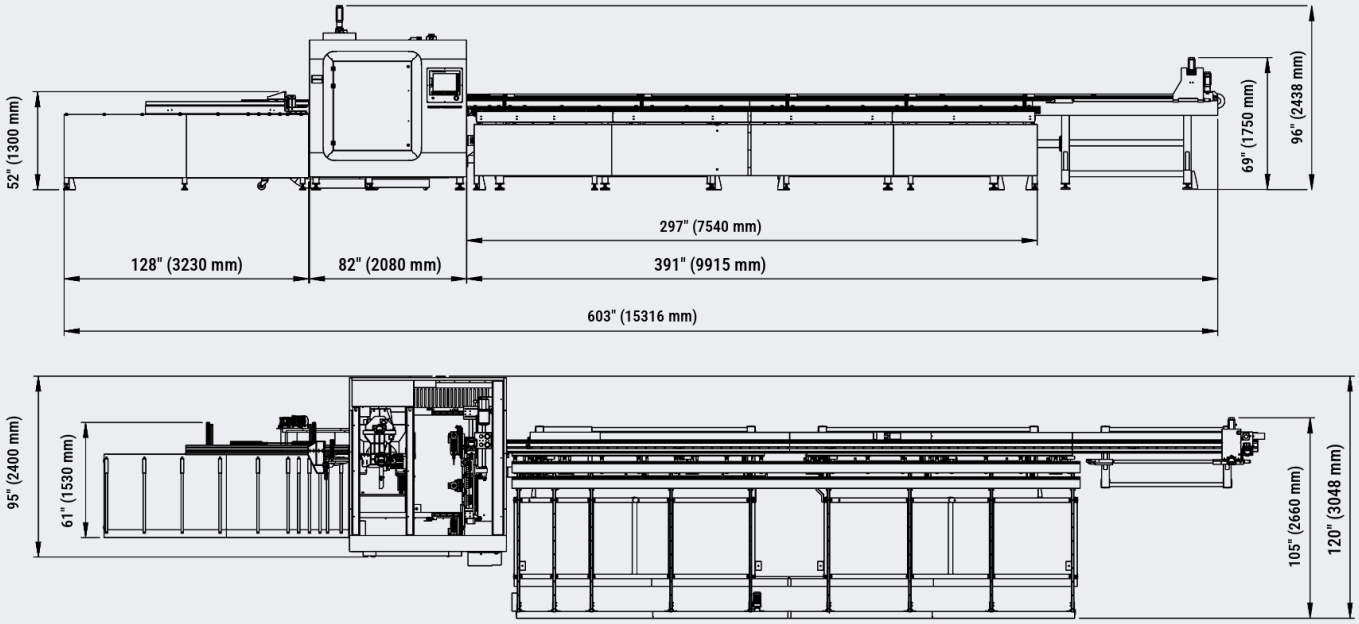
Dimensions in inches and millimeters.

SPINDLE CONFIGURATION



Standard (numbered) and optional (O) spindle positions.

LAYOUT PLAN



Dimensions in inches (millimeters). Overall machine size 603 x 120 x 96" (l x w x h), 8,580 lb.

OZ MACHINE USA

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Product data, descriptions and illustrations may change without prior notice.