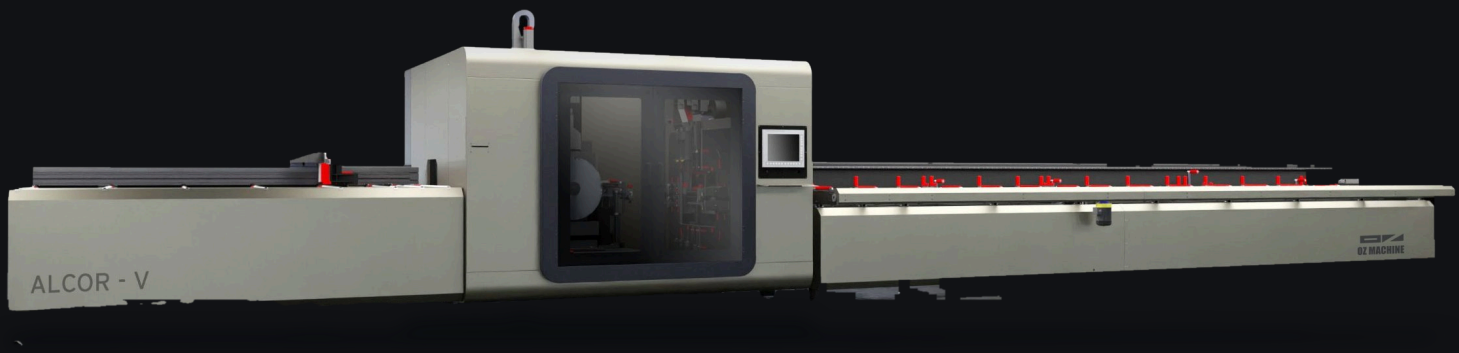
OZ MACHINE USA

ALCOR V

CNC Profile Machining and 5 Axis Cutting Center



The top of the ALCOR series. The 22" saw rotates 0–180° both vertically and horizontally, so compound and special cuts on wide profiles are done in one setup, while eight spindles machine four surfaces of the profile.

0–180°	0–180°	12 servo axes	8 spindles
Horizontal saw rotation	Vertical rotation	Servo axes	Machining units

KEY FEATURES

- Milling and drilling on 4 surfaces, tapping (optional)
- 4-profile loading conveyor (up to 10 optional)
- FANUC control, 15" industrial touchscreen PC
- 5-axis saw unit for compound cuts
- Up to 5 additional spindles (optional)
- Accepts optimized cutting and machining lists

WATCH IT RUN

ALCOR V video on the Oz Machine USA YouTube channel

youtu.be/y3Yrr8oq9-s

Max. power	Voltage	Air	Weight
43.5 kW / 114 A	220V 3P, 60 Hz	15 CFM · 100 psi	12,125 lb

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MACHINING AND CUTTING UNIT AXIS TRAVEL

Z1 Axis (Machining Area Vertical)	13.8" (350 mm)
X2 Axis (Cutting Unit Longitudinal)	22.0" (560 mm)
Y2 Axis (Cutting Unit Horizontal)	35.0" (890 mm)
Z2 Axis (Cutting Unit Vertical Movement)	20.1" (510 mm)
C Axis (Cutting Unit Horizontal Rotation Movement)	0°–180°
A Axis (Cutting Unit Vertical Rotation Movement)	0°–180°

GRIPPER AXIS TRAVEL

XL Axis (Drive robot)	391.7" (9950 mm)
YL Axis (Gripper Y)	5.1" (130 mm)
ZL Axis (Gripper Z)	5.3" (135 mm)

LOADING AND UNLOADING UNIT

Minimum profile loading length	47.2" (1200 mm)
Maximum profile loading length	315.0" (8000 mm)
Profile loading capacity	4
Adjustable Profile loading capacity (Max. 10)	○
Automatic chip discharge conveyor unit	●

POSITIONING SPEED

X1 Axis (Machining Area Longitudinal)	131 ft/min (40 m/min)
Y1 Axis (Machining Area Horizontal)	131 ft/min (40 m/min)
Z1 Axis (Machining Area Vertical)	131 ft/min (40 m/min)
X2 Axis (Cutting Unit Longitudinal)	131 ft/min (40 m/min)
Y2 Axis (Cutting Unit Horizontal)	131 ft/min (40 m/min)
Z2 Axis (Cutting Unit Vertical Movement)	138 ft/min (42 m/min)
C Axis (Cutting Unit Horizontal Rotation Movement)	0°–180°
A Axis (Cutting Unit Vertical Rotation Movement)	0°–180°
U Axis (Cutting Unit Movable Clamp)	131 ft/min (40 m/min)
XL Axis (Drive robot)	295 ft/min (90 m/min)
YL Axis (Gripper Y)	66 ft/min (20 m/min)
ZL Axis (Gripper Z)	66 ft/min (20 m/min)

AIR & ELECTRICAL

Pressure	100 psi
Maximum power	43.5 kW
Current @ 220V	114 A
Voltage	220V 3P, 60 Hz
Air consumption	15 CFM

CUTTING UNIT

Saw blade diameter	22"
Maximum profile cutting dimensions at 90° (width / height)	11.8" (300 mm) / 6.5" (165 mm)
Saw blade motor power	3 kW

MILLING UNIT

Fan cooling spindles	8
Additional Fan Cooled Spindles (max. 5 pcs.)	○
Maximum power	3 kW
Maximum speed	18,000 rpm
Tool holder	ER 20
Tapping	○

CONTROL UNIT

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

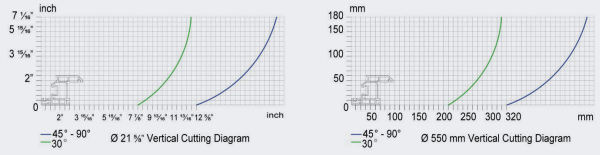
● Standard ○ Optional

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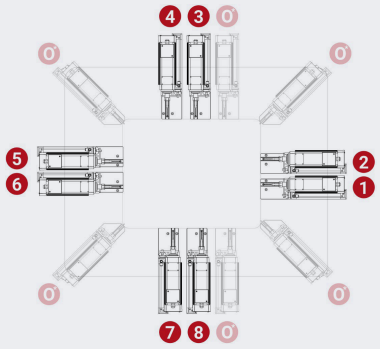
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CUTTING DIAGRAM



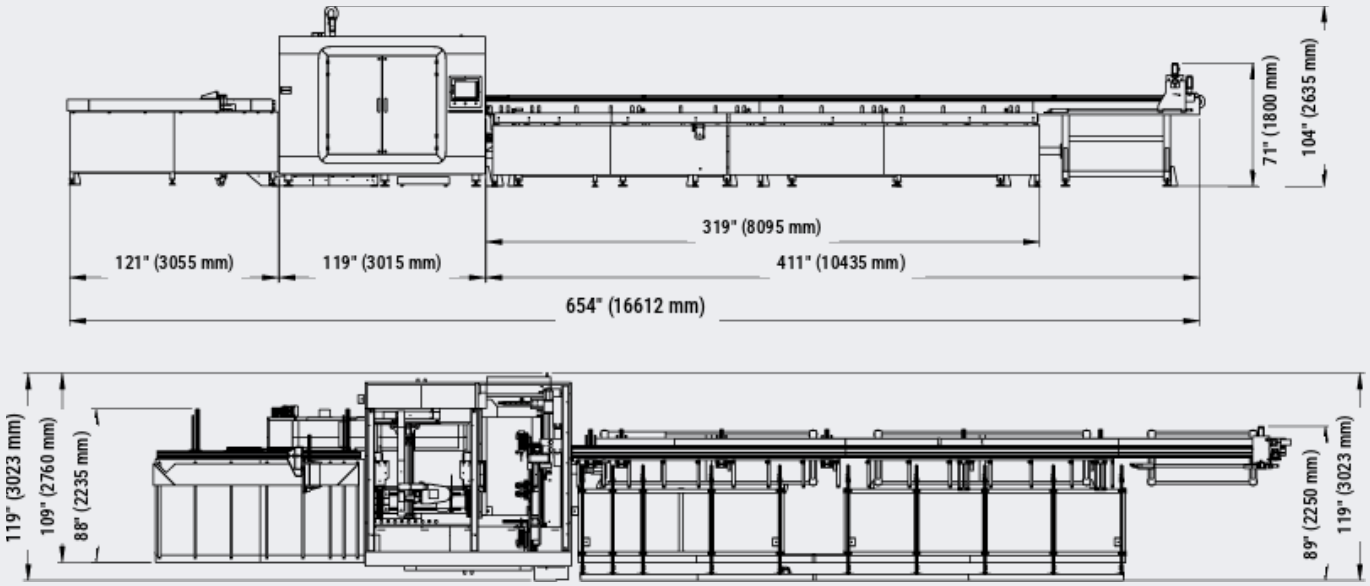
Dimensions in inches and millimeters.

SPINDLE CONFIGURATION



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

LAYOUT PLAN



Dimensions in inches (millimeters). Overall machine size 654 x 119 x 104" (l x w x h), 12,125 lb.

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