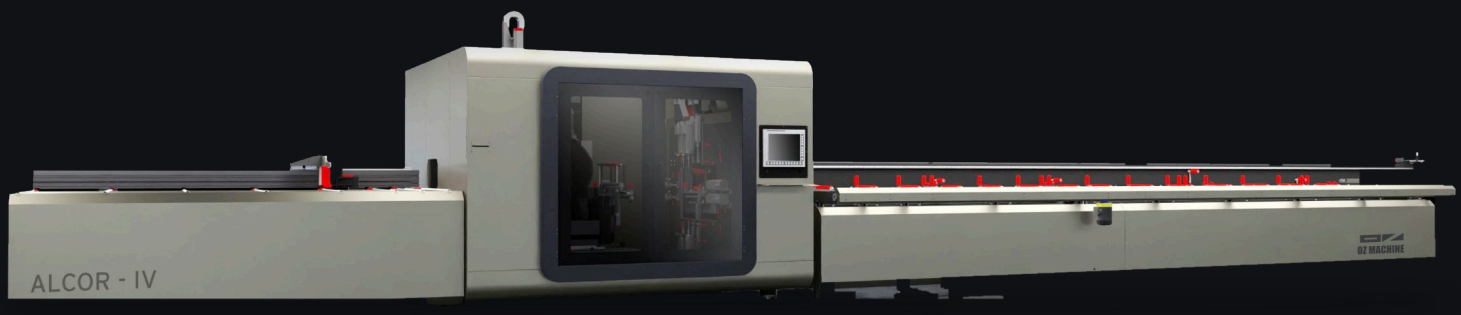
OZ MACHINE USA

ALCOR IV

CNC Profile Machining and 4 Axis Cutting Center



For wide aluminum and PVC / vinyl profiles. Eight fan-cooled spindles work at different angles on four surfaces, and the 22" saw moves on 4 axes to cut at any angle between 0° and 180° and to end-mill profiles up to 11.8" wide.

0–180°	8 spindles	11.8"	315"
Cutting angles	Machining units	Max. profile width	Max. loading length

KEY FEATURES

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

WATCH IT RUN
ALCOR series overview on the Oz Machine USA YouTube channel
youtu.be/hWgAJRiTHdE

Max. power	Voltage	Air	Weight
43 kW / 113 A	220V 3P, 60 Hz	15 CFM · 100 psi	12,125 lb

TECHNICAL DATA

ALCOR IV

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MACHINING AND CUTTING UNIT AXIS TRAVEL

Y1 Axis (Machining Area Horizontal)	27.2" (690 mm)
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°

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°
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)

● Standard ○ Optional

AIR & ELECTRICAL

Pressure	100 psi
Maximum power	43 kW
Current @ 220V	113 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) / 7.1" (180 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

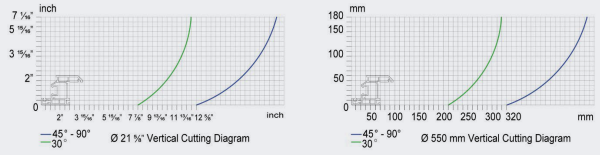
Industrial PC - Touchscreen	15"
Data transfer via network, Ethernet and USB	●
Barcode printer	●
Compatible with optimized cutting and machining list data	●
Compatibility with CAM programs	○
Camquix CAM software	●
FANUC CNC control	●

ALCOR IV

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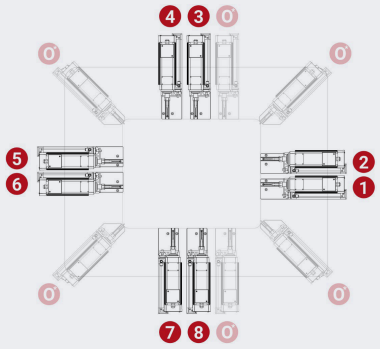
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CUTTING DIAGRAM



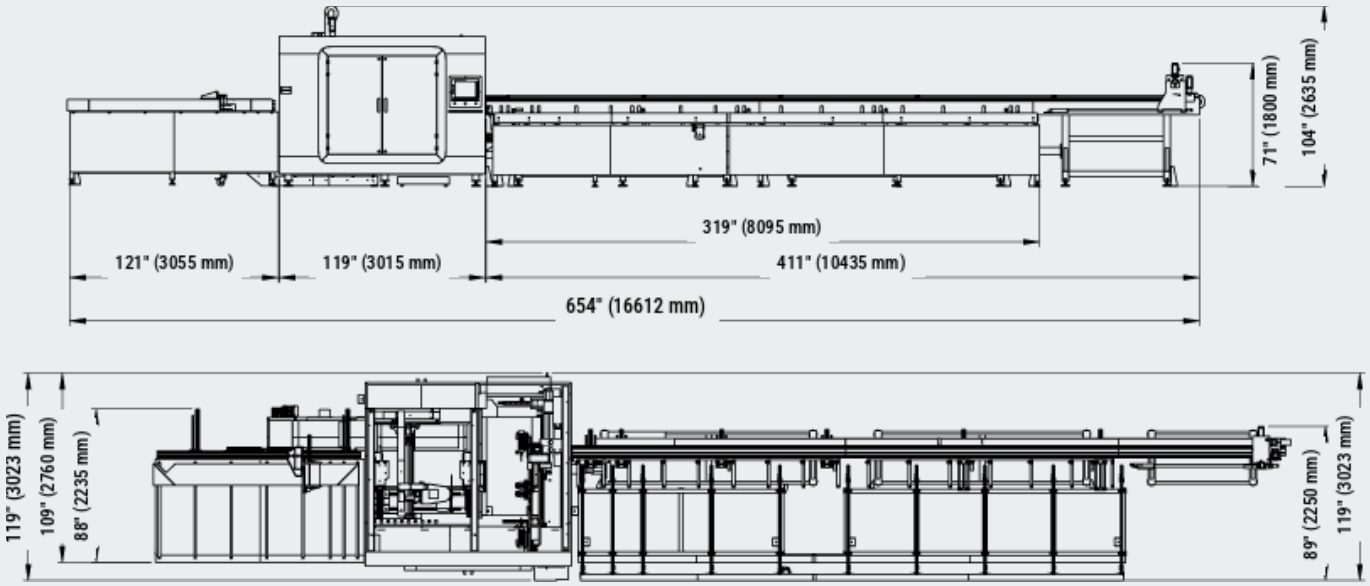
Dimensions in inches and millimeters.

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.

OZ MACHINE USA
2690 West 3rd Court, Hialeah, FL 33010
+1 833-390-0060 (toll-free) · sales@ozmachineusa.com

USA · CANADA · MEXICO

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