

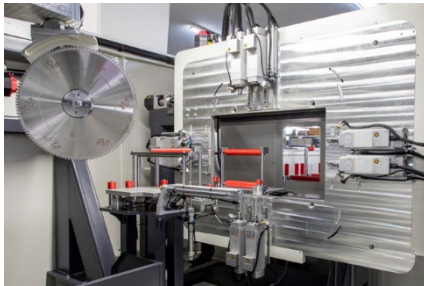
# ALCOR – IV

CNC Profile Machining and 4 Axis Cutting Center



## FEATURES

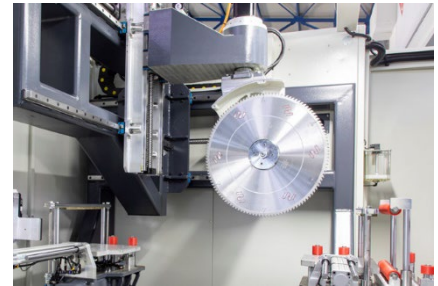
ALCOR - IV has been developed to perform cutting, surface treatment and notching operations of wide aluminum and PVC profiles. ALCOR - IV is designed to achieve the highest efficiency in the least amount of time with its units that can operate independently of each other.



8 fan-cooled spindle motors which can operate at different angles, offer unlimited processing on 4 surfaces of the profile.

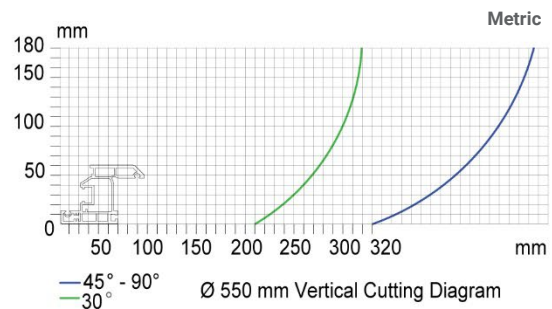
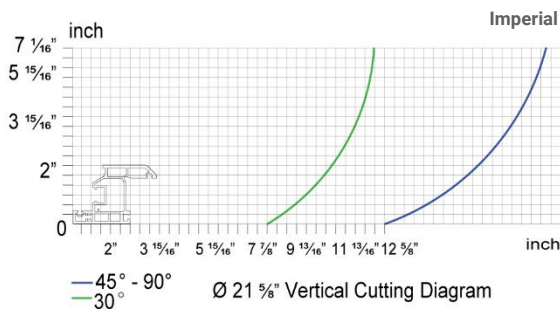


Conveyor with 4 profile feeding capacity ensures the machine to work in the most efficient way.



550 mm diameter saw that can cut at any angle between 0° and 180° thanks to its 4-axis movement capability, the saw allows cutting and end-milling operations of profiles up to 320 mm wide.

## Cutting Diagrams



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### MACHINING AND CUTTING UNIT AXIS TRAVEL

X1 Axis (Processing Area Longitudinal)	15 <sup>3</sup> / <sub>4</sub> " (400mm)
Y1 Axis (Processing Area Horizontal)	27 <sup>3</sup> / <sub>16</sub> " (690mm)
Z1 Axis (Processing Area Vertical)	13 <sup>3</sup> / <sub>4</sub> " (350mm)
X2 Axis (Cutting Unit Longitudinal)	22 <sup>1</sup> / <sub>16</sub> " (560mm)
Y2 Axis (Cutting Unit Horizontal)	35 <sup>1</sup> / <sub>16</sub> " (890mm)
Z2 Axis (Cutting Unit Vertical Movement)	20 <sup>1</sup> / <sub>16</sub> " (510mm)
C Axis (Cutting Unit Horizontal Rotation Movement)	180°

### GRIPPER AXIS TRAVEL

XL Axis (Drive robot)	391 <sup>3</sup> / <sub>4</sub> " (9950 mm)
YL Axis (Gripper Y)	5 <sup>1</sup> / <sub>8</sub> " (130 mm)
ZL Axis (Gripper Z)	5 <sup>5</sup> / <sub>16</sub> " (135 mm)

### LOADING AND UNLOADING UNIT

Minimum profile loading length	47 <sup>1</sup> / <sub>4</sub> " (1200mm)
Maximum profile loading length	314 <sup>15</sup> / <sub>16</sub> " (8000mm)
Profile loading capacity	4
Adjustable Profile loading capacity (Max. 10)	○
Automatic chip discharge conveyor unit	●

### POSITIONING SPEED

X1 Axis (Processing Area Longitudinal)	(40 m) 1574"/min
Y1 Axis (Processing Area Horizontal)	(40 m) 1574"/min
Z1 Axis (Processing Area Vertical)	(40 m) 1574"/min
X2 Axis (Cutting Unit Longitudinal)	(40 m) 1574"/min
Y2 Axis (Cutting Unit Horizontal)	(40 m) 1574"/min
Z2 Axis (Cutting Unit Vertical Movement)	(42 m) 1653"/min
C Axis (Cutting Unit Horizontal Rotation Movement)	166°/sec.
U Axis (Cutting Unit Movable Clamp)	(40 m) 1574"/min
XL Axis (Drive robot)	(90 m) 3543"/min
YL Axis (Gripper Y)	(20 m) 787"/min
ZL Axis (Gripper Z)	(20 m) 787"/min

### AIR - ELECTRIC

Pressure	6-8 Bar
Maximum power	43 kW
Ampere	117 A

### CUTTING UNIT

Saw blade diameter	21 <sup>5</sup> / <sub>8</sub> " (550 mm)
Maximum profile cutting dimensions at 90° (width / height)	320/165
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	18000
Tool holder	ER 20

### CONTROL UNIT

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

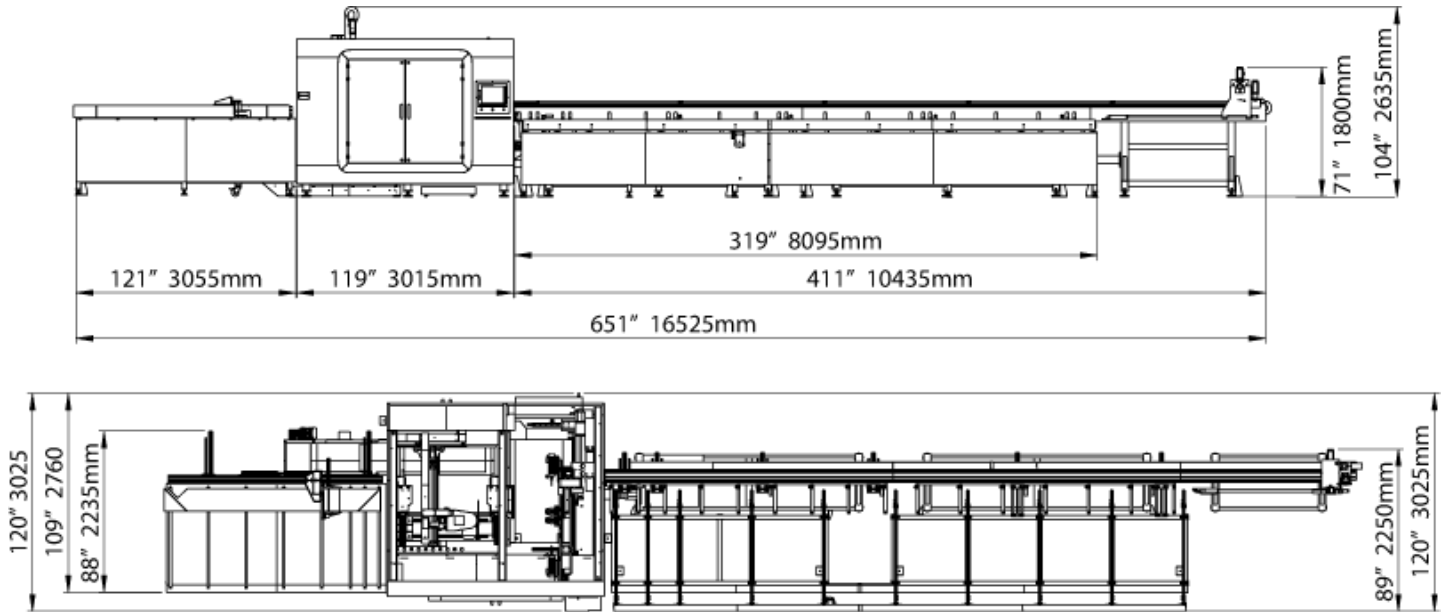
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## Floor Plans



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