

# ALM6510

## ALM6510

ALUMINIUM PROFILE MACHINING AND  
CUTTING CENTER



Performing operations on four sides of aluminium and PVC profiles.



Servo control system providing CNC motion at 8-axis



Down-cutting saw blade with  $\varnothing$  550 mm dia. that rotates between the range of  $45^\circ$  and  $135^\circ$



Windows based PC and 15.6" LCD touch screen monitor



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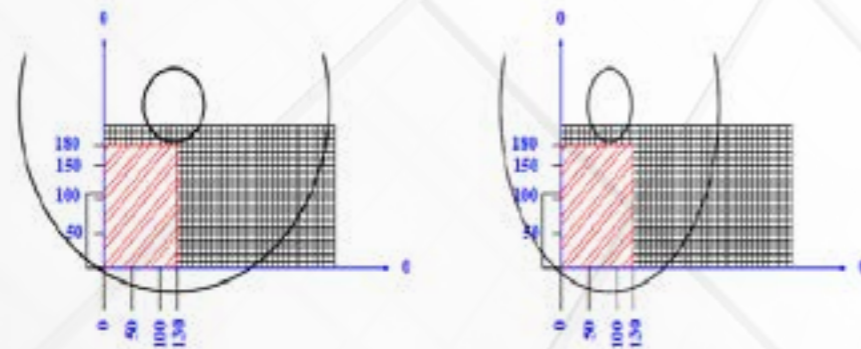




### Technical Features

AXIS	
Total axis	8
Max. profile length (mm)	6500
Min. profile length (mm)	700
POSITIONING SPEED	
Axis speed (m/min.)	X-Axis:40 / Y-Axis:40 / Z-Axis:40
U-axis profile infeed speed (m/min.)	100
AUTOMATIC CUTTING MODULE	
Saw blade dia. (mm)	550
Min. cutting length at (45° and 90°)	400 mm
Saw blade cutting range (°)	from 45° to 135°
AUTOMATIC MILLING	
Total milling motor	8
Min. machinable profile dim. (mm) (WxH)	40x40
Max. machinable profile dim. (mm) (WxH)	130x180
FUNCTIONS	
Multi-piece operations such as milling, opening key holes, hinge holes, handle holes, marking, saw blade cutting etc.	
GENERAL	
Net and gross weight (kg)	3810 x 4020
Net dim. (mm) (LxWxH)	1400 x 2500 x 2500
Packing dim. (mm) (LxWxH)	1 pc.: 466 x 184 x 227 1 pc.: 44 x 184 /144 1 pc.: 296 x 141 x 132 1 pc.: 224 x 230 x 244
Voltage-frequency	400V 3P-50/60 Hz
Total power (kW)	26

	TOTAL POWER								
ALM 6510	26 kW	2400 RPM	D: 550 max. d: 30 mm	18.000 RPM	6 Bar	280 L/min.	See Technical Features	3810 kg	4020 kg



### MACHINE DESCRIPTION

ALM 6510 is 8-axis CNC controlled machining center which is specifically designed to process any kind of aluminium profiles in the market. The machine can do all operations on four sides of aluminium profiles such as milling, opening key holes, hinge holes, handle holes, marking, saw blade cutting etc. ALM 6510 has the programming feature which provides minimum waste and maximum amount of production. 7 pieces of aluminium profiles can be placed on the feeding conveyor of the machine and 3-axis pneumatic gripper moves them into the milling & cutting center for the milling and cutting operations. The cutting unit can perform serial cutting of profiles in the range of 45°- 135°. Operator attaches barcodes on the processed profiles to make them ready for crimping operation.

### OPTIONAL

- Angled swarf conveyor
- KP 3500 Chip vacuum extractor
- Workshop logistic equipment
- Additional saw blade & cutter bids

### General Features

- Servo control system providing CNC motion at 8-axis
- Fully automated feeding, carrying, positioning, cutting and transferring units
- Performing operations on four sides of aluminium and PVC profiles such as milling, opening key holes, hinge holes, handle holes, marking, saw blade cutting etc.
- Pneumatic gripper for accurate positioning of the profile
- Automatically working horizontal and vertical clamping system
- Automatic conveyor unit with the loading capacity of 7 pcs. of profiles
- Servo controlled down-cutting saw blade with Ø 550 mm dia. that rotates between the range of 45° and 135°
- Windows based PC and 15.6" LCD touch screen monitor
- Remote desktop connection and providing technical support
- Ability to perform milling and cutting operations at the same time
- User friendly interface software that is compatible with CAD programs
- Automatic frame and sash profile recognition system
- Automatic profile width and height dimension control system
- Automatic lubrication system
- Low pressure control for safety operations
- LED interior lighting with very low energy consumption in the cabin
- Barcode printer