

AIM3410

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ALUMINIUM PROFILE
MACHINING CENTER



Automation system providing
CNC motion at 4-axis



Tool magazine unite including
8 pcs. of cutter tools and saw
blade with 180 mm diameter



Automatic clamp recognition and
positioning feature



15" colour touch screen



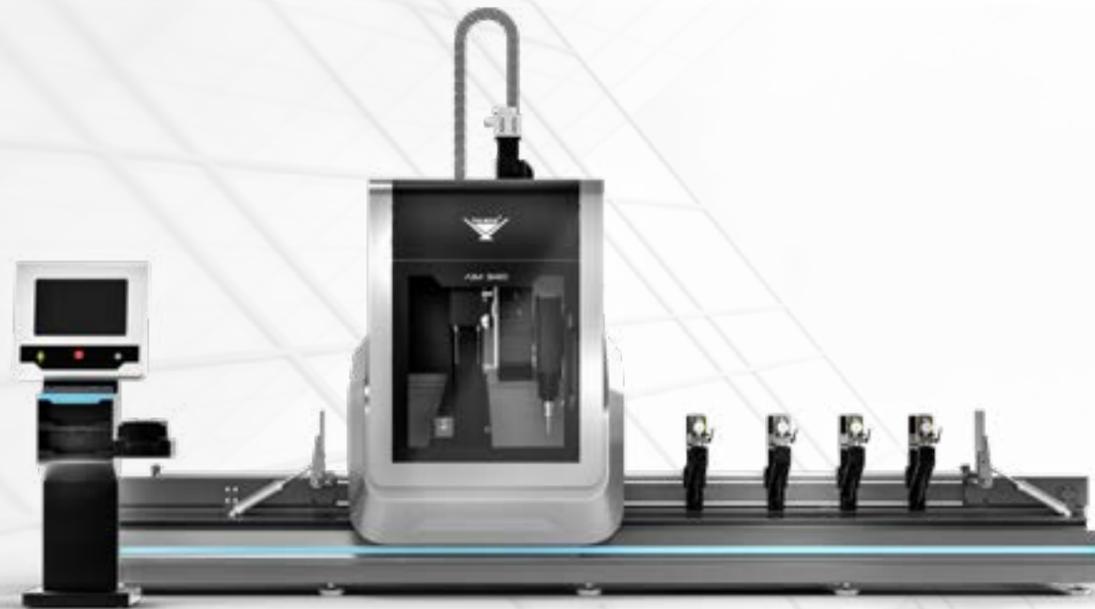
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AIM3410

ALUMINIUM PROFILE MACHINING CENTER





GENERAL FEATURES

- Automation system providing CNC motion at 4-axis
- Tool magazine unite including 7 pcs. of cutter tools and saw blade with 180 mm diameter
- Automatic clamp recognition and positioning feature
- PLC controlled spray tool cooling unit
- 4 pcs. of automatic clamps to catch the workpieces firmly
- 1 x pneumatic rest used for resetting the workpiece in X direction (second is optional)
- Automatic central lubrication system for rails and bearings
- Cartridge lubrication system for X, Y and Z axis
- Special CAM program developed by Yilmaz engineering team
- Operator safety barrier
- 15" colour touch screen
- Program import via USB flash memory stick
- Standard ISO 'G' code programming language
- Technical support capability via remote connection by computer
- Multi-language support
- Special sound insulation cabinet around the machining center
- Solid steel construction of the body and dynamic performance gantry
- LED lighting in the cabinet
- Hand held controller allows you to prove the job before running at speed (optional)

MACHINE DESCRIPTION

AIM 3410 is a CNC controlled 4-axis machine designed specifically for machining all types of aluminium & PVC profiles, available on the market. With the 4th axis feature, it can perform the machining operations on 3 surfaces of profiles. Quick tool changing is provided by the movable and in-line type magazine unite with 8 pcs of tool capacity. The tool magazine is mounted on the movable machining head in order to minimize the tool change time. The machine provides a flexible processing opportunity especially in facade applications with its 180 mm diameter saw. The machine has automatic clamp recognition and positioning feature. The movable cabin of the machine is equipped with a door having a transparent polycarbonate window to facilitate the monitoring of the workpiece processing by the operator. Thus, the safe operation of the operator is ensured.

OPTIONAL

- Cutter tools, tool holders, collets and apparatus set
- Automatic tool length measurement device
- Special saw blade kit
- Hand-held controller
- Barcode scanner
- Additional options on demand

TECHNICAL FEATURES

WORKING CAPACITY	
X-axis (mm)(AIM 7510- AIM 10510)	3200
Y-axis (mm)	*340
Z-axis (mm)	260
A-axis (°)	+95° / -95°
ELECTRO SPINDLE	
Max. speed (R.P.M.)	24.000
Max. power S1 (kW)	7,5
Max. power S6 (kW)	9
Tool holder	HSK-F 63
AUTOMATIC TOOL MAGAZINE	
Tool capacity (7 pcs of cutter tools + saw blade)	8
Magazine type	In-line
Max. saw dia. (mm)	180
Max. tool weight (kg)	3
FUNCTIONS	
Multi-piece operations (holes, slots, notching, saw blade cuts, etc.)	Yes
MACHINABLE FACES	
With milling tool (top + side faces + end)	1+2+2
With saw tool (top + side faces + ends)	1+2+2
WORKPIECE CLAMPING	
Standard number of clamps	4
Max. optional number of the clamps	2
Vice positioning through the X-axis	Automatic
FEEDRATE	
Axis speed (m/min.)	X :60, Y : 50, Z: 50, A: 72 °/sec.
Servo motors (kW)	X-axis: 1 / Y-axis: 1 / Z-axis: A-axis: 0.75
GENERAL	
Net / gross weight (kg)	
Packing dimensions (W x L x H) (mm)	
Air supply required (bar)	6
Voltage-frequency	400V 3P-50/60Hz
Total power (kW)	11,6

	TOTAL POWER								
AIM 3410	11.6 kW	3.000 R.P.M.	D: 180 mm d: 30 mm	Ømax: 20 mm.	6 Bar	250 L/min.	W= 225 H= 260 L= 3200	-	-