ALM 6515

ALM 6515 AT – ALM 6515 ATEM
Aluminium Profile Machining, Cutting and End-milling Centers

ALM 6515 AT – ALM 6515 ATEM are 8 axis and 11 axis CNC controlled machining centers which are specifically designed to process any kind of aluminium profiles in the market. The machines can do all operations on four sides of aluminium profiles such as milling, opening key holes, hinge holes, handle holes, marking, water drain slots (with ALM 6515 AT), end-milling (ALM 6115 ATEM), saw blade cutting etc. Three machines have 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



400V AC 3P PE 50-60 Hz,	17 kW 46A	3.000 RPM D: Ø550 d:Ø30 mm	12.000 RPM	6-8 bar	250 L/min	280x1344x231	4107.0

Standard Accessories

- Equipped with the necessary milling tools
- Equipped with the ø 550 mm of saw blade
- Equipped with 1x ø180 mm of end-milling cutter and mandrel for ALM 6515 ATEM
- 1 x mandrel set for multiple cutters for ALM 6515 ATEM
- Barcode printer
- Safety fence around the machine
- Keyboard & mouse

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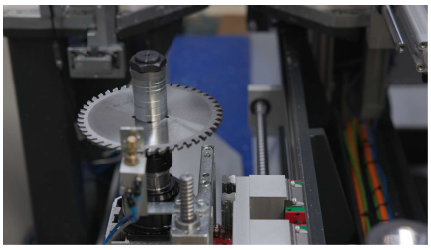
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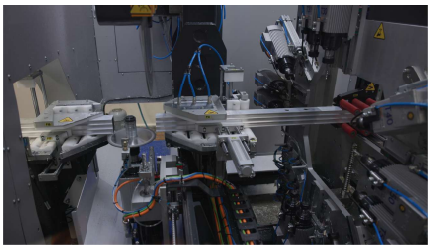
Optional Accessories

- Angled swarf conveyor
- VCE 4000 chip vacuum extractor
- Workshop logistic equipment (see the tech. table)
- Spare saw blade, Ø550 mm
- Spare end-milling cutter with Ø180 mm of dia for ALM 6515 ATEM
- Spare mandrel set for ø180 mm of single cutter for ALM 6515 ATEM
- Spare mandrel set for multiple cutters for ALM 6515 ATEM
- End-milling cutter sets for mullion profiles
- Spare finger cutter bits (see the tech. table)

Product Features

- Servo control system providing CNC motion at 8-axis (ALM 6515 AT) and 11 axis (ALM 6515 ATEM)
- Fully automated feeding, carrying, positioning, cutting, milling and transferring units
- Performing operations on four sides of aluminium and PVC profiles such as milling, opening key holes, hinge holes, handle holes, marking, water drain slots, end-milling, saw blade cutting etc.
- Pneumatic gripper for accurate positioning of the profile
- Automatically working horizontal and vertical clamping system
- Automatically working air blowing system to remove the flashes on the machine tables
- Automatic conveyor unit with 7 pcs of profile loading capacity
- Servo controlled down-cutting saw blade with Ø 550 mm dia. that rotates between the range of 45º and 135º
- 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 based on information from the database
- Automatic profile width and height dimension control system
- Automatic cartridge lubrication system
- Automatic tool spray cooling system
- Low pressure control for safety operations
- LED interior lighting with very low energy consumption in the cabin







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Technical Table

ALM 6515 AT - AXIS	
Total axis	8
ALM 6515 AT - AXIS	
Max. profile length (mm)	6500
Min. profile length (mm)	800
ALM 6515 AT - POSİTIONING SPEED	
Axis speed (m/min.)	X:40 / Y:40 / Z:40
U-axis profile infeed speed (m/min.)	100
ALM 6515 AT - AUTOMATIC CUTTING UNIT	
Saw blade dia. (mm)	550
Min. cutting length at 45° and 90° (mm)	400
Saw blade cutting range (°)	from 45° to 135°
Power of sawing motor (kW)	2.2
ALM 6515 AT - AUTOMATIC MILLING UNIT	
Total milling motors (pc.)	11
Power of milling motors (kW)	2.2
Min. machinable profile dim. (mm) (WxH)	40 x 40
Max. machinable profile dim. (mm) (WxH)	130 x 180
Number of motors & tools for 90˚ of milling operations	8 (4 pc.x Ø5 + 4 pc.x Ø8 mm)
Number of motors & tools for 45˚ of milling operations	3 pc.x Ø5 mm
ALM 6515 AT - AUTOMATIC END-MILLING UNIT	
End-milling cutter diamater (mm)	NA
Power of end-milling motors (kW)	NA
End-milling angle (derece)	NA
Usable min. / max. end-milling cutter diameter (mm)	NA
Max. End-milling depth (W) / height (H) (mm)	NA
ALM 6515 AT - FUNCTIONS	
Multi-piece operations such as milling, opening key holes, hinge holes, handle holes, marking, saw blade cutting etc.	YES
Angled milling operations and openning water drain slots	YES
90˚ of end-milling operations	NA
ALM 6515 AT - GENERAL	
Net / gross weight (kg)	4157 / 4519
Packing dim. (mm) (WxLxH)	1pc.:466x184x227 / 1pc.: 44x184x144/ 1pc.:296x141x132 / 1pc:224x230x244

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Voltage-frequency	400V AC 3P PE 50-60 Hz,
Total power	17.5 kW 47A
ALM 6515 ATEM - AXIS	
Total axis	11
Max. profile length (mm)	6500
Min. profile length (mm)	800
ALM 6515 ATEM - POSİTIONING SPEED	
Axis speed (m/min.)	X:40 / Y:40 / Z:40
U-axis profile infeed speed (m/min.)	100
ALM 6515 ATEM - AUTOMATIC CUTTING UNIT	
Saw blade dia. (mm)	550
Min. cutting length at 45° and 90° (mm)	400
Saw blade cutting range (°)	from 45° to 135°
Power of sawing motor (kW)	2.2
ALM 6515 ATEM - AUTOMATIC MILLING UNIT	
Total milling motors (pc.)	11
Power of milling motors (kW)	2.2 kW
Min. machinable profile dim. (mm) (WxH)	40 x 40
Max. machinable profile dim. (mm) (WxH)	130 x 180
Number of motors & tools for 90° of milling operations	8 (4 pc.x Ø5 + 4 pc.x Ø8 mm)
Number of motors & tools for 45° of angled milling operations	3 pc..x Ø5 mm
ALM 6515 ATEM - AUTOMATIC END-MILLING UNIT	
End-milling cutter diamater (mm)	Ø180
Power of end-milling motors (kW)	2,2
End-milling angle (derece)	90°
Usable min. / max. end-milling cutter diameter (mm)	Ø82 / Ø180
Max. End-milling depth (W) / height (H) (mm)	W:65 x H:100
ALM 6515 ATEM - FUNCTIONS	
Multi-piece operations such as milling, opening key holes, hinge holes, handle holes, marking, saw blade cutting etc.	YES
Angled milling operations and openning water drain slots	YES
90° of end-milling operations	YES
ALM 6515 ATEM - GENERAL	
Net / gross weight (kg)	4327 / 4689
Packing dim. (mm) (WxLxH)	1pc.:466x184x227 / 1pc.: 44x184x144/ 1pc.:296x141x132 / 1pc:224x230x244
ALM 6515 ATEM - GENERAL	

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ALM 6515 AT – ALM 6515 ATEM
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Voltage-frequency	400V AC 3P PE 50-60 Hz,
Total power	21 kW 59A

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