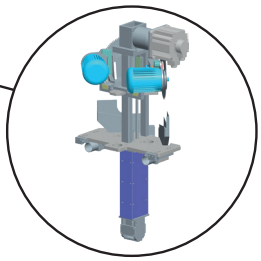
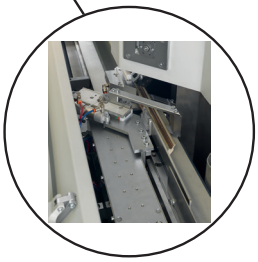
T3XX automatica

12” Windows™ color touch screen



Servo Driven Blade Descent Option



Servo Driven Extracting clamp Option

Automatic cutting system

- Two saw blades set at a 45° angle using a vertical drop cutting system which reduces scrap having a knockout as small as 1/16”
- Vertical and horizontal clamps that hold the moulding during the cutting process
- Fully programmable cycle with an automatic servo driven feed system
- Complete with a vertical or horizontal hopper
- The automatic hopper continuously feeds the machine in hiden time (1 operator can run up to 3 machines in production if equipped with the vertical hopper)
- Various optional unloading belts can be connected:
  - an optional unloading belt pushes the cut pieces into a work bin;
  - an optional collecting conveyor, moves the cut pieces to the joining area.

Control Unit

- 12” Windows ™ color touch screen
- 3 RS 232 serial ports, 4 USB ports
- RJ45 network port (WiFi optional)
- Solid State Drive
- Remote service (optional)

Software

- A very simple graphic interface permits the operator to easilyprogram the saw. There are several different access levels that are password protected to prevent unauthorized access. It is Multilanguage capable including Chinese.
- The interface shows real time production data.
- Simple program creation; the operator enters the moulding info including, height, width, and the lengths to be cut. You can use the internal or external dimensions when programming.
- Unlimited program storage capacity
- USB back up

T300Automatica - Single Blade Version

- Programmable trim-cut setting
- You can use the PC when the machine is in use.

Production capacity

Production capacity may vary according to different specifics like:

- Length of cut
- Length of moulding at in-feed
- Type of moulding material and finishing used

A+ automation USA Inc.

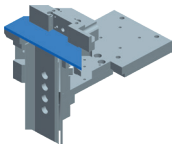
Main Accessories / Options

T300AutoSB
Single blade version able to cut up to 75mm
- **Straight Cut**

T3xxAuto Mirrored Version
This is the "mirrored" version of the standard machine. This version is used to connect two saws together to simultaneously feed one automated frame assembly robot.

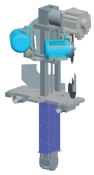
Horizontal hopper
- Minimum length of moulding 1500 mm (59") / Maximum length of moulding 3000mm (118")
- 2 motorized transport belts to support the mouldings
- ***Optional:*** Extension belt support +1000mm (39") each

Vertical hopper
- Minimum length of moulding 1500 mm (59") Maximum length of moulding 3000mm (118")
- Pneumatic action WITH SINGLE MOLDING SELECTION
- ***Optional:*** Vertical magazine extensions +1000mm (39") each

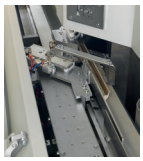


Paper wrap molding bed-cutting bench
Specially modified working Bench to improve the quality for paper wrapped moldings cuts

Blade rotation tuning system
This option allows you to adjust the blade rotation speed, also indipendently left and right, to increase the cut quality.

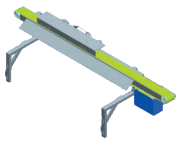


Servo Driven Blade Descent Option
This option increases production quality and average output may vary to air flow variations. It saves air consumption, up to 85% since it uses a servo drive system instead of a pneumatic cylinder that require 11 kW compressor to execute the vertical movement of the blades.

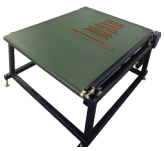


Extracting clamp Option
This option is mounted after the cutting system on the exhaust side. It reduces the end cut length and facilitates removing the short cuts. It exists servo-driven version.

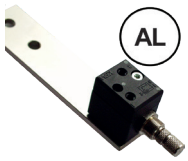
3 ways splitter belt with photocell
1300 mm belt with pneumatic system to select and divide out the cut pieces



Push out device
Device that pushes selected size length cut pieces on an exhausting conveyor



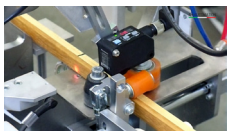
Exhaust Conveyor
Exhaust conveyor that forwards the cut pieces toward the handling area



Aluminum cuts accessories
Mist spray cooling system

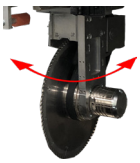
Aluminum cuts accessories
Refrigerating without lubrication

Clamp "B" stroke extension
Total Lenght L= 1600mm



Knots and Squeezes
Sensor detector Kit & Software Update

Mobile Application
Application for mobile devices with O.S. IOS® or Android® that allows to manage production data and A-Plus devices.

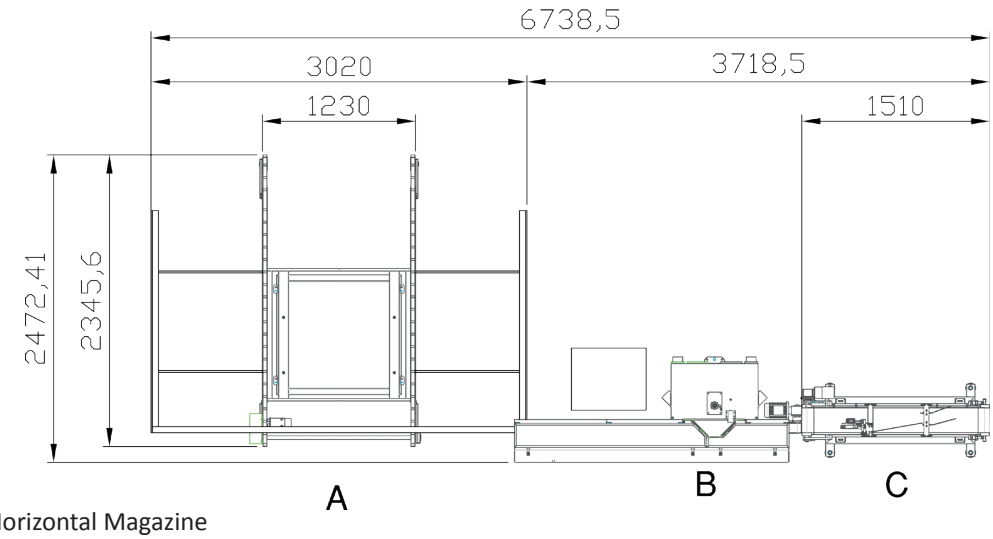


Servo Driven Multiple Angle
Option for T300AutoSB: **-45°/90°/+45°**

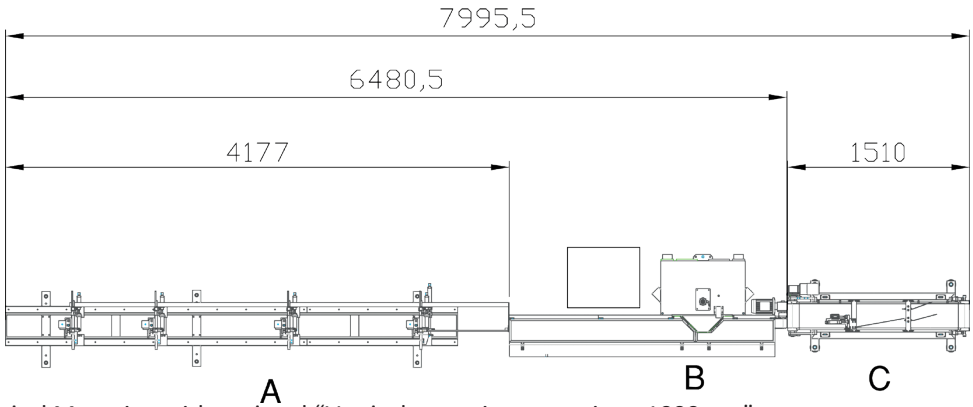
Estimated Production Capacity

Moulding In-feed length	Frame dimension mm/(in)	Pieces / hour
2000mm (79”)	130 x 180 (5.1” x 7”)	1,280
	180 x 240 (7” x 9.4”)	1,190
	240 x 300 (9.4” x 11.8”)	1,085
	350 x 500 (13.7” x 19.6”)	930
3000mm (118”)	130 x 180 (5.1” x 7”)	1,570
	180 x 240 (7” x 9.4”)	1,420
	240 x 300 (9.4” x 11.8”)	1,290
	350 x 500 (13.7” x 19.6”)	1,125
3500mm (138”)	130 x 180(5.1” x 7”)	1,680
	180 x 240 (7” x 9.4”)	1,610
	240 x 300 (9.4” x 11.8”)	1,480
	350 x 500 (13.7” x 19.6”)	1,320

Sample Layouts



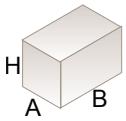
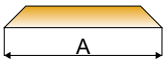
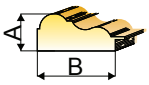
A ..... Horizontal Magazine
B ..... T300/T350 Automatica
C ..... Splitter Conveyor

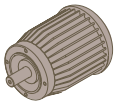
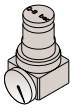
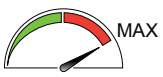


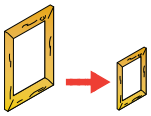
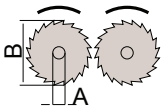
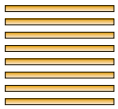
A ..... Vertical Magazine with optional “Vertical magazine extension +1000mm”
B ..... T300/T350 Automatica
C ..... Splitter Conveyor

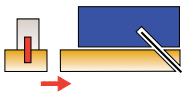
Automatic Double Mitre Saw

Data Sheet

	Volume	Weight	Cut Dimension	Moulding Size
				
T300Auto	H = 2000mm A = 700mm B = 1500mm	500Kg + 300Kg	Min. Ext. Size 110mm Max. Ext. Size 1150mm	A= min. 10mm - max. 55mm B= min. 15mm - max. 50mm
T350Auto				A= min. 10mm - max. 55mm B= min. 15mm - max. 75mm

	Saw Motor	Pressure	Working Speed	Software Support
				
T300Auto	2 x 1,5 Kw (240-400V 3PH)	6-8 bar 30 NL/Cycle	> 400 frames / hour * with 100x150mm *according to frame size, profile length and material type	Windows™ based
T350Auto				

	Changeover	Saws	Electric Control Box	Magazine Capacity
				
T300Auto	< 10 min * *according to size and loading magazine type	A = 30mm B = 300mm	3000 RPM	3,5 Kw 240 - 400 V	12-40 moulding * *according to type and size
T350Auto		A = 30mm B = 350mm			

	Loading Time
	
T300Auto	< 3 seconds
T350Auto	

The automatic saws T3xx Automatica have been developed to optimize productivity. They provide high speed cutting and high quality of the cuts, up to 420 frames/hour*.
A Windows ™ based color touch screen gives you many helpful utilities to manage your work and production management.
Barcode scanner connection standard; using either RS232 serial connection or USB port.

* 100x150mm

A-Plus Automation USA Inc.
31874 Northwestern Hwy.
Farmington Hills, MI 48334

Phone 1-800-539-2750
Fax 248-851-8777
Email info@a-plusautomationusa.com
Web www.a-plusautomationusa.com

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