

Homag Ambition 1230 FC AUTO

Edgebanding Machine

Machine Features

- easyTouch Program Control
- electrical equipment installed according to UL regulations
- heavy machine frame construction with heavy-duty feed track design
- control panel located at machine infeed for operator convenience
- adjustment on pressure beam and infeed fence via digital height indicator
- smooth upper pressure rollers
- integrated electronic line control system for increased reliability and diagnostic assistance – no limit switches used for setting operating units
- automatic magazine for strip and coil external feeding from outside of the machine
- large coil table (800 mm diameter) to accommodate large coils of 3 mm PVC
- feed speed: 11 m/min
- workpiece thickness: 60 mm
- workpiece pre-heating (radiant style) for achieving optimal bond quality
- **Joint Trimming Unit** for pre-trimming the workpiece edge prior to processing

Note:

The diamond cutter heads on this machine are only capable of processing a maximum workpiece thickness of 40 mm. Optional 60 mm tooling is available upon request.

- QA-65 N glue application system with quick purge system
- automatic temperature reduction feature lowers the glue temperature if no workpiece is run over a 15-minute span (reheating accomplished in three minutes)
- first pressure roller driven and two (2) idle pressure rollers with 2 position auto setting system with extra-robust pressure zone to accommodate wood strips
- **Double-Motor End Trimming Unit** with straight and chamfer capability. Chamfer up to 15 degrees. Program-controlled indexing from straight to bevel end trimming
- **Fine Trimming Unit** with program-controlled pneumatic indexing, equipped with DFC cutter heads, “quick tilt” feature, and combination radius / straight carbide inserts. Nested top copy system.

Machine Features (continued)

- **Single-Motor Contour Trimming Unit**
- **Quick-Change Profile Scraping Unit** with pneumatic indexing and equipped with two (2) reversible profile knives to remove knife marks from thick PVC, one (1) set of tooling with nested top and bottom copy system
- **Finish Scraping Unit**
- **Buffing Unit** with two (2) motors, two (2) cloth buffing discs (150 x 20 mm diameter)
- sound enclosure with window
- extendable workpiece support track
- electronic frequency changer for all trimming motors – including electronic motor braking
- isolation transformer with variable infeed voltage for balancing all three (3) phases of incoming power and increasing the lifetime of the machine's electrical components

Technical Specifications

edgeband thickness:	coils	0.4 - 3 mm	($\frac{1}{64}$ - $\frac{1}{8}$ in)
	strips	0.4 - 6 mm	($\frac{1}{64}$ - $\frac{1}{4}$ in)
edgeband length:	strips	229 mm	(9 in)
workpiece length:	min	140 mm	(5 $\frac{1}{2}$ in)
workpiece width:	min	70 mm	(2 $\frac{3}{4}$ in)
workpiece thickness:	8 - 60 mm		($\frac{5}{16}$ - 2 $\frac{3}{8}$ in)
feed speed:	11 m/min		(36 ft/min)
pressure section:	first roller driven, two (2) rollers idle		
joint trimming unit (2x):	2.2 kw (3 hp) each / 12,000 rpm		
end trimming unit (2x):	0.18 kw ($\frac{1}{4}$ hp) each / 12,000 rpm		
fine trimming unit (2x):	0.27 kw ($\frac{1}{3}$ hp) each / 12,000 rpm		
contour trimming unit (1x):	0.35 kw ($\frac{1}{2}$ hp) / 12,000 rpm min workpiece length: 250 mm		
total power required:	15 kw		
amperage:	@ 230v		42 amps
	@ 460v		21 amps
machine length:	4,773 mm		(15 $\frac{1}{2}$ ft)
machine width:	1,300 mm		(4 $\frac{1}{2}$ ft)
working height:	950 mm		(37 $\frac{1}{2}$ in)
total height (with hoods open):	2,180 mm		(7 ft)
machine weight:	1,500 kg		(3,300 lb)
electrical connection:	208/230/440/480v / 3-phase / 60 hz		
dust extraction:	(1x) 120 mm, (3x) 80 mm, (1x) 100 mm, 2,035 cfm		
compressed air:	15 cfm, 6 bar (87 psi)		

Electrical equipment installed according to UL regulations.

Voltage supplied must not fluctuate in excess of $\pm 5\%$ of its stated value. Voltage must be balanced phase-to-phase and phase-to-ground.

In case of incoming main voltage fluctuations of more than $\pm 5\%$ of the machine connected voltage, a voltage stabilizer must be installed by the customer on the incoming power connection

EasyTouch Program Control

- touchscreen operation with 7" graphic display
- 20-program storage ability
- quickly-accessible unit functions
- simple menu structure available in multiple languages
- machine status and production data displayed

Integrated Electronic Line Control**Joint Trimming Unit**

- pre-trimming of the workpiece edge prior to gluing
- two (2) motors, 3 HP each, 12,000 rpm
- one (1) motor clockwise rotation, one (1) motor counter-clockwise rotation
- vertical spindle adjustment via digital settings
- horizontal positioning via electro-pneumatic control
- dust extraction hood included with 120 mm diameter outlet
- diamond cutter heads

Automatic Magazine for Strip and Coil Feeding

- large coil table (800 mm diameter) with built-in rollers to allow for 3 mm PVC coils
- edge strip capacity: 0.4 – 6 mm
- direction of glue rollers reversible and glue roller section retractable
- one (1) large driven pressure roller with pneumatic pressure control
- two (2) secondary rollers, all with controlled side pressure
- manual setting of pressure zone via digital mechanical counter
- strengthened pre-cutter for cutting thick PVC edges from the coil; maximum 3 x 45 mm; precutting system equipped with air volume reservoir for on-demand activation required for short workpieces

QA-65 N Hot Melt Gluing System

- quick purge feature to remove the glue and replace with different color or change to PUR glue
- Two level system: 350 g with 8-minute heat up time, 800 g with 12 minute heat up time.
- infrared radiant glue heat zone control for optimum gluing strength. Automatic temperature reduction if not run within 15 minutes. This feature reduces the temperature automatically by 50°C.

Sound Cover

- equipped with two (2) independent openings
- safety interlock system – when sound enclosure door is opened, corresponding work station shuts off
- end trimming, fine trimming, and contour trimming motors are each equipped with electronic motor brakes to stop cutter rotation when hood is opened or when station is shut off at operator control panel

Double-Motor End Trimming Unit

- straight/chamfer end trim unit equipped with two (2) 0.18 kW ($\frac{1}{4}$ HP) 12,000 rpm motors
- electronic motor brakes
- end trim unit utilizes drawing cut system for reduced blade projection when working on thick workpieces
- tooling also included
- program-controlled indexing from straight to bevel end trimming

Fine Trimming Unit

- equipped with two (2) 0.27 kW ($\frac{1}{3}$ HP) 12,000 rpm trimming motors
- electronic motor brakes
- program-controlled positioning when processing thin edge, thick PVC and solid wood edges; positioning done pneumatically via the EasyTouch controller
- horizontal and vertical tracing with lateral location indexing via digital “Quickset” system
- each trimming motor is equipped with one dust hood and dust extraction hose
- equipped with two (2) DFC combination straight / radius cutter heads, including four (4) carbide knife inserts with flush trimming possible up to 6 mm edge thickness
- nested top copy system

Single-Motor Contour Trimming Unit

- corner rounding of thick PVC edging material
- includes diamond tooling

Quick-Change Profile Scraping Unit

- scraping of roughly trimmed thick PVC edges in order to remove the cutter marks
- vertical and horizontal tracing wheels
- radius knives included (quickly changeable to different radii)
- program-controlled indexing
- one (1) set of tooling standard
- one (1) set of tooling with nested top and bottom copy system

Finish Scraping Unit

- flat knives remove any unwanted material from the trimmed / scraped edge

Top and Bottom Buffing Unit

- top and bottom buffing motors for finishing of longitudinal edges
- two (2) 2,800 rpm polishing motors
- inclinable vertically and horizontally
- two (2) buffing wheels included

Price

Total price of above machine, F.O.B. Port of Entry

Price quoted includes importation.

Price quoted excludes all state and local taxes.

Optional Equipment and Services**Additional Set of Quick Change Scraping Heads**

- top and bottom for the Quick-Change Profile Scraping Unit
- multiple tooling radii available (R = 1 mm / R = 2 mm / R = 3 mm)

Technical Support – PLUS Plan

In addition to remote diagnostics and technical support included in machine purchase, this plan provides one (1) preventative maintenance inspection, which includes:

- complete machine inspection
- machine calibration
- PC check
- minor repairs
- labor and travel expenses

Homag Automation TFU 120 Return Conveyor

The Homag Automation TFU 120 return conveyor provides a versatile solution for operating a single-sided throughfeed edgebanding machine with only one person. After each workpiece exits the edgebanding machine, a roller conveyor with a cross transfer grid shifts the workpiece to a return belt that sends it back toward the infeed of the edgebanding machine. All workpieces are transferred and returned without being turned.

Workpiece Parameters

length:	50 – 2,500 mm	(2 – 98 in)
width:	300 – 1,450 mm	(12 – 57 in)
thickness:	8 – 60 mm	(⁵/₁₆ – 2 ³/₈ in)
weight	part length ≤ 700 mm:	30 kg (66 lb)
	part length > 700 mm:	50 kg (110 lb)

Note: Length is defined as the side of the part being edge banded on any given pass.