

HOMAG Ambition 1120 AUTO

Edgebanding Machine

Machine Features

- easyTouch Program Control with touch screen
- electrical equipment installed per 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 indicator
- integrated electronic line control system for increased reliability and diagnostic assistance – no limit switches used for setting operating units
- universal automatic magazine for strip and coil feeding
- large coil table (800 mm diameter) to accommodate large coils of 3 mm PVC
- feed speed: 8 m/min
- workpiece thickness: 40 mm
- automatic height adjustment with top pressure beam for all work stations
- **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.

- standard hot melt granulate glue application system with no lubrication needed
- automatic temperature reduction feature lowers the glue temperature if no workpiece is run over a 15-minute span (reheating accomplished in three minutes)
- automatic positioning of the pressure zone. First pressure roller driven and two (2) idle pressure rollers. Two position indexing for two edge thicknesses
- **Double-Motor End Trimming Unit** mounted on linear guides for precision trimming and equipped with program controlled straight to bevel end trimming
- **Fine Trimming Unit** with program-controlled pneumatic indexing for two (2) edge thicknesses, equipped with DFC cutter heads, “quick tilt” feature, and combination radius / straight carbide inserts. Nested top copy system.

Machine Features (continued)

- **Quick-Change Profile Scraping Unit** with program controlled indexing
- **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 - 3 mm	($\frac{1}{64}$ - $\frac{1}{8}$ in)
	pvc	max	135 mm²
	veneer	max	100 mm²
edgeband length:	strips	229 mm	(9 in)
workpiece length:	min	140 mm	(5 $\frac{1}{2}$ in)
workpiece width (thickness < 23 mm):	min	70 mm	(2 $\frac{3}{4}$ in)
workpiece width (thickness ≥ 23 mm):		120 mm	(4 $\frac{3}{4}$ in)
workpiece thickness:	8 - 40 mm		($\frac{5}{16}$ - 1 $\frac{1}{2}$ in)
feed speed:	8 m/min		(26 ft/min)
pressure section:	one (1) driven roller, two (2) idle rollers		
joint trimming unit (2x):	0.75 kw (1 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		
total power required:	8.0 kw		
amperage:	@ 230v		30 amps
	@ 460v		15 amps
machine length:	4,270 mm		(14 ft)
machine width:	1,454 mm		(5 ft)
working height:	950 mm		(37 $\frac{1}{2}$ in)
total height (with hoods open):	2,075 mm		(7 ft)
machine weight:	950 kg		(2,095 lb)
electrical connection:	208/230/440/480v / 3-phase / 60 hz		
dust extraction:	(5x) 80 mm, (1x) 100 mm, 1,665 cfm		
compressed air:	16 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 – 3 mm
- one (1) large driven pressure roller with pneumatic pressure control
- two (2) secondary rollers, all with controlled side pressure
- automatic positioning of the pressure zone for 2 edge thicknesses via program control
- 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

Standard Hot Melt Gluing System

- no lubrication required – uses a high tech bearing system
- quick-change glue tank for easy maintenance and glue color change, if necessary
- glue temperature indication of both pre-melting unit and glue roller via LED thermostat display visible to operator
- automatic temperature reduction if not run within 15 minutes. This feature reduces the temperature automatically by 50°C.