

VENEER CLIPPING TRASH GATE

HIGH SPEED ROUND UP TRASH SEPARATION



INTRODUCTION

The ALTEC Veneer Clipping Trash Gate is a high performance inline Veneer Clipper that automatically separates round up trash from usable product on veneer peeling lines – without stopping the peeling process. By clipping the veneer on the fly, the need for round up sheet break is eliminated. Elimination of sheet break results in no tapered leading edge on the ribbon, providing increased veneer recovery.

The installation of this product into a high speed peeling line will increase production by up to 15%.

Robust structural design and efficient knife geometry combined with high performance servo hydraulics makes the ALTEC Veneer Clipping Trash Gate the most effective and reliable clipping trash gate on the market.

FEATURES

- Field proven to clip veneer from 0.040 up to 1.5" of sheets – in a single clip.
- Exceptionally fast clip rate, combined with profiled tippelknife carrier minimizes interruption of veneer flow.
- Closed loop hydraulic servo motion control minimizes mechanical wear and maintains clip repeatability.
- Efficient design allows the ALTEC Clipping Trash Gate to run with considerable knife clearance. As a result, knife gap adjustments are usually not required after changing tippel knives.
- Knife system lasts more than 4X longer than those of other gates. Cartridge knife technology makes knife changes quick and easy.
- Heavy-duty construction for extended mechanical life.

SYSTEM DESCRIPTION

The ALTEC Veneer Clipping Trash Gate is typically installed immediately downstream of the veneer lathe – replacing the conventional trash tipple.

The system includes:

- Trash Gate Proper, consisting of an adjustable stationary anvil, clipping tipple, knife holders, servo hydraulic actuators and a mounting surface for an outfeed catch up tray tipple or conveyor.
- All required Hydraulic Controls, including servo valve, accumulators and machine-mounted hydraulic plumbing.

- All required Electronic Controls and cables. The control package includes a stand-alone digital motion controller, power supplies, amplifiers and a discrete or network-based interface to your existing control system.
- One spare set of Tipple Knives. Field trials have shown that one set of tipple knives can last > 12 months.

The ALTEC Veneer Clipping Trash Gate can be ordered with or without a hydraulic power unit or mechanical modifications to fit the gate into your line.

ALTEC is a turn key machine supplier and can provide all the services required to integrate the CTG into your line, including Electrical and Mechanical design, manufacturing, site installation and start-up supervision.

SPECIFICATIONS

PERFORMANCE

Veneer Thickness	0.040 up to > 1.50 in [1.0 up to 38 mm]
Veneer Width	Up to 112 in [2845 mm]
Clip Speed	> 200 in/sec [5.10 m/sec]
Frequency	> 20 cycles/min
Maximum Line Speed	> 1200 FPM

KNIVES

Tipple Knives	10-Double sided HT steel cartridge knife
Anvil Knives	3-HT Tool Steel knives – resharpenable.
Max. Knife Clearance	> 0.015 in [0.381 mm]

SYSTEM REQUIREMENTS

Hydraulics

Oil Supply	
@ 15 cycles/min	23 US GPM @ 1800 PSI
[90 LPM @ 124 Bar]	

Electrical

Control Power	120 VAC, 60Hz, 3 A
Control Signals	5 Discrete Outputs
(24 VDC)	3 Discrete Inputs
PLC Communications	Ethernet, Profibus-DP,
Interface Options	Modbus Plus or Serial

Information contained in this document is subject to change. For current product information contact ALTEC.

DIMENSIONAL DATA

CONVENTIONAL CONFIGURATION SHOWN – OVERHUNG CYLINDERS CONFIGURATION ALSO AVAILABLE FOR LINES WITH REDUCED WASTE CHUTE CLEARANCE.

