

# GPS-90

## END-MATCHER



FOR T&G AND INTERLOCKING ENGINEERED FLOORING

### FEATURING

- HEAVY DUTY FRAMEWORK
- HIGH PRECISION MACHINING ENVIRONMENT
- DIGITAL POSITIONING SYSTEM

**DOUCET**  
**PROCESS ENGINEERING**  
DIVISION

VALUE-ADDED SOLUTIONS

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FOR A COMPLEX WOOD INDUSTRY

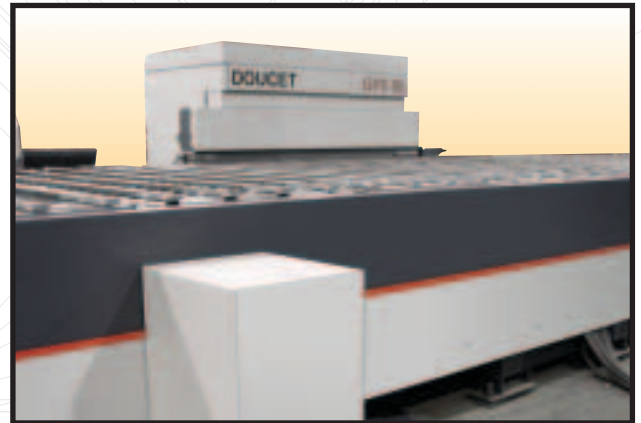
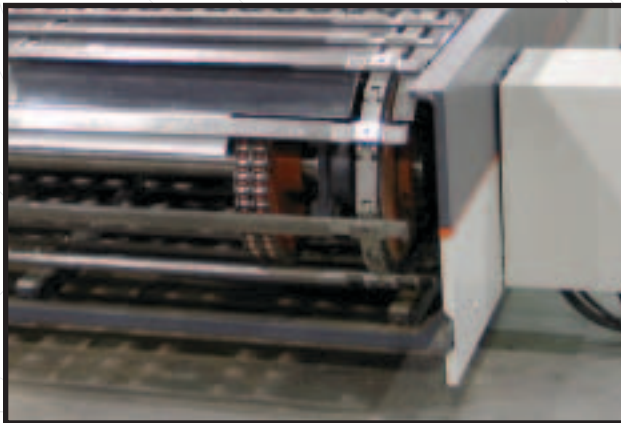
## GPS END-MATCHER

Like all other Doucet End-Matchers, the GPS-90 Model features a traverse bar conveyor intersecting 3 side-shift rollers. Floorboards are fed through machining centers laid out on opposite sides of its feed conveyor.

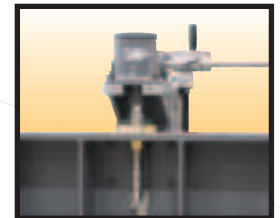
Furthermore, the GPS combines three distinctive design criteria that make it a far superior machine than any End-Matcher you have ever seen before: a heavy duty framework for machining stability, a high precision machining environment for decidedly accurate profiling squareness and depth and a digital positioning system that takes the trial and error out of setups.

GPS enables you to create or re-create complex set-ups in a matter of minutes and hold these machining set-ups within very tight tolerances, board after board... after board

## HEAVY DUTY FRAMEWORK



- 15" structural steel frame
- 12 tooth, 24" diameter sprockets
- 6" pitch ductile iron chains, linked by 3/4" diameter dowel pins
- Spindle pedestals are 6" by 18" by 72" tall
- Massive hold-down presses adjustable by two interlinked 5-ton actuators
- A 25 HP power unit coupled to a frame mounted hydraulic motor
- Chain tracks are UHMW lined to ensure true wear free tracking
- 3" diameter heavy duty side-shift rollers, with NSK/RHP sealed bearings
- Rollers are powered by 1.5 HP motors and driven by twin recessed welded belts
- They are 36" wide at infeed end, 48" wide for cross transfer and 36" at outfeed end



## HIGH PRECISION MACHINING ENVIRONMENT



- For tooling stability, all precision machining is done by belt driven spindles
- Spindle HP and RPM according to flooring product characteristics
- Scoring modules prevent blowout in solid wood machining applications
- The spindle carriages are mounted on linear bearings on both of their vertical and horizontal axis
- Quick spindle adjustment actuators with fine positioning feature
- Machining centers are totally enclosed in cabins with safety door locks
- All motors are equipped with dynamic breaking feature
- Cabin doors and opening top provide easy access for set-ups and tool changes
- Machining is performed with the boards good face up, justified from the finished side
- Boards are firmly held between two "Soft-touch" belts on top, and pneumatically pressurized pressure pads on the bottom
- Adjustable speed up to 90 linear feet per minute
- 0.375" to 1" thickness capacity
- 2.25" minimum width, maximum width as permitted by traverse bar spacing
- 120 lugs per minute at 9" center to center
- 10" to 96" random length capacity

## DIGITAL POSITIONING SYSTEM

- Hold-down presses and spindle carriages are equipped with digital position readouts
- Once a set up is completed, the operator can memorize the "zero" position. This enables him to return to the original position quickly and efficiently
- Multiple setups can be documented and performed in a matter of a few minutes, within 0.001" accuracy
- All other initial factory set-ups such as, chain squaring, chain tension and machining center alignment are displayed at their respective location



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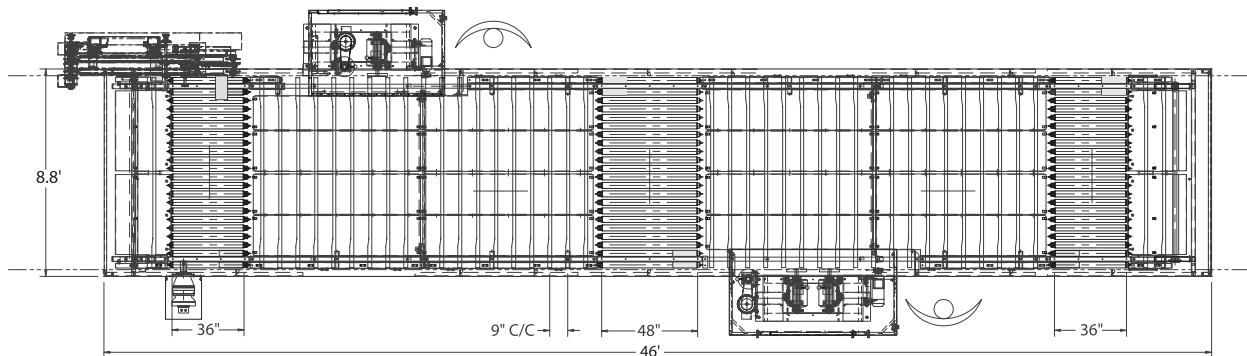
## END-MATCHER

### OTHER FEATURES

- P.L.C. with external communication capability for remote diagnosis
- Interactive console command, complete with alarm and display of fault condition
- Minimum board length validation
- Minimum compressed air pressure validation
- Automatic shutdown in the event of low lubricant reservoir level
- Each machining cabin features two levels of dust collection
- Vacuum inlets collect dust in the vicinity of each tool
- Residual dust is collected through a 6" diameter inlet at the bottom of the cabin
- A front outfeed press facilitates the transition to the grading / packaging system

### OPTIONAL CONFIGURATIONS

- 40 HP power unit for a feed speed upgrade to 120 feet / minute **GPS-120**
- 20 HP a.c. variable speed drive for a feed speed up to 90 feet / minute
- 30 HP a.c. variable speed drive for a feed speed up to 120 feet / minute **GPS-120**
- Basic 5-spindle configuration, with scoring modules for tongue and groove solid flooring applications
- Expanded 7-spindle configuration, for interlocking engineered flooring
- Traverse bar spacing 6 or 12 inches on center
- Open workstations for end defect removal
- Feed conveyor extension for defect removal and / or feed stations
- Even-ender for maximum length up to 120"
- Carbide tooling systems for solid wood and plywood flooring
- Diamond tooling systems for HDF engineered flooring



### GPS-90 BENEFITS

- Machining within very tight tolerances, board after board... after board
- Even the most complex set-ups can be created or re-created in a matter of minutes
- Less rejects, more uptime, more production
- Suitable for finished flooring re-work
- Low maintenance requirement

CONTACT DOUCET TODAY FOR AN END-MATCHER  
PRODUCT LINE DVD AND AN EVALUATION OF  
THE GPS-90 POTENTIAL IN YOUR COMPANY.

**DOUCET**  
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