

The 990-APEX redefines door and jamb machining flexibility by bridging the interior, exterior, and architectural and commercial markets. Designed with 75 years of experience the 990-APEX easily outperforms the competition. The unprecedented control provided by our powerful KvalCAM® platform makes the 990-APEX the perfect machine for those looking to serve several markets with a single high-performance solution.

Flexible Pre-Drill System Screw holes are drilled quickly and cleanly, supporting virtually any pattern.

Advanced Hinge Applicators Operator controlled hinge applicators provide efficient hinge application.

Programmable Jambs Programmable Lock Section – Most

types of locks can be programmed including multi-point locks, deep mortise

High Frequency Routers Improve cut quality and machine longevity while minimizing downtime.

Laser Encoder Realtime door measurements ensure the proper routing hardware is used.

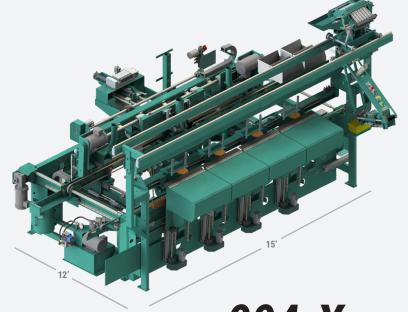
Door Specifications

Thickness	1 3/8" - 1 3/4"
Length	6'6" - 8'0"
Width	12" - 48"

* Pre-hung unit with hinge jamb attached and lock or ball-catch bored.

Door-to-Door Cycle Time*

- Approximately 50 seconds.
- Approximate realized machine output is 350 pre-hung units in 8 hours.



994-X

Flexibility, Agility, Speed

The 994-X offers quick change-over between different styles of doors, jambs, and hinges for pre-hanging interior or exterior doors. By leveraging this technology, door distributors are able to supply vast markets with a single machine that can handle 1 3/8" and 1 3/4" doors with virtually zero change over time. This allows for entire orders to be loaded, processed, and shipped from a single line, which reduces logistical demands and costly errors.

Counter Rotating Routers Ensures exceptional quality cutting without the need for chip-out blocks.

Simple Adjustment From door thickness and bevel to hinge

radius selection, parameters are easily changed via touchscreen.

Efficient Feature Selection Programmable pre-drill and hinge size for immediate changeover.

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High Frequency Routers Improve cut quality and machine longevity while minimizing downtime.

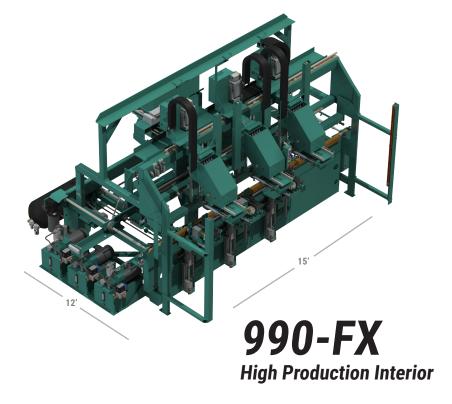
Advanced Hinge Applicator Operator controlled hinge applicators provide efficient hinge application.

Door Specifications

Thickness	1 3/8" - 1 3/4"
Length	6'8" - 8'0"
Width	12" - 42"

Door-to-Door Cycle Time*

- · Approximately 50 seconds.
- Approximate realized machine output is 350 pre-hung units in 8 hours.



The 990-FX is designed for a single purpose: to reliably produce 6'8", 7'0", and 8'0" interior doors at record speed. Heavily utilized by the distributors supplying box stores, new construction, and the multi-family markets, this machine is the fastest and most durable pre-hanging line in the industry, a true workhorse that will easily handle multiple shifts for years to come and produce millions of units throughout its life.

Auto Hinge Applicators Four automatic hinge applicators provide

a repeatable 24 second cycle time regardless of door height.

High Frequency Routers Improve cut quality and machine longevity

while minimizing downtime.

Advanced Safety Systems Light curtains, a hinge applicator brake

system, low-to-high pressure clamping, and thorough safety programming.

Enduring Construction Square linear shafts and bearings ensure machine longevity for multiple shifts.

Common Options Ball Catch drills, Split-Jamb staplers, Narrow Door (12"-18" doors).

Door Specifications

Thickness	1 %"
Length	6'8" - 8'0"
Width	18" - 42" 12" - 42" [†]

Door-to-Door Cycle Time*

- 24 seconds, while our competitors are limited to 6'8" doors and a 29 second cycle time.
- Approximate realized machine output is 800 pre-hung units in 8 hours.

^{*} Pre-hung unit with hinge jamb attached and lock or ball-catch bored.

^{*} Pre-hung unit with hinge jamb attached and lock or ball-catch bored. † With option ND-1

Software	990-APEX	994-X	990-FX	Commander 3
KvalCAM® Control	✓			~
Hinge Mortising				
3" - 3.5" Hinge	✓	✓	✓	~
4" Hinge	✓	~		~
4.5" Hinge	✓			✓
5" Hinge				✓
Concealed Hinge*	✓			✓
CNC Hinge Spacing Control	✓			✓
Point to Point Pre-Drill	✓	✓		✓
Pre-Drill Gear Box			✓	
Counter Rotating Router	✓	✓		✓
Chipout Blocks			✓	
Square Hinge Capability	✓	✓		✓
Hi Frequency Routers as Standard		✓	✓	✓
0-3 Degree Auto-Shift (Option)	✓	✓	✓	✓
Hinge Application				
Auto-Hinge Applicator			✓	
Operator Actuated Hinge Applicator	✓	✓		
Lock Mortising				
Servo Controlled Lock Bore Location	✓	✓	✓	✓
Hi Frequency Plate Router as Standard	✓	✓	✓	✓
3-Point Lock/Deep Mortise/Flush Bolt	✓			
CNC Face/Function Holes	✓			
Ball Catch Bore (Option)	✓	✓	✓	✓
CNC Roller Catch Mortise	~			
CNC Latch Plate	✓			✓
Door Specifications				
1-3/8" Door Thickness	✓	✓	✓	~
1-3/4" Door Thickness	✓	✓		~
2-1/4" Door Thickness				~
6'8" - 8'0" Door Height	✓	~	✓	✓
9'0" Door Height				✓
48" Door Width	✓			✓
0-3 Degree Shift (Option)	✓	✓	✓	

The Kval Advantage

Kval differentiates itself within the industry by controlling each step of the manufacturing process at their production facilities in California and Texas: raw steel is received, and finished machinery is shipped. Kval designs, cuts, machines, welds, paints, wires, and programs each and every machine in-house using the best components and materials available, enabling a hands-on approach to quality control and reducing unforeseen complications caused by outside vendors.

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The World's Most Advanced Door Machinery