



Wide Belt Sanding Machines
PATRIOT 2



PATRIOT 2 WIDE BELT SANDING MACHINES

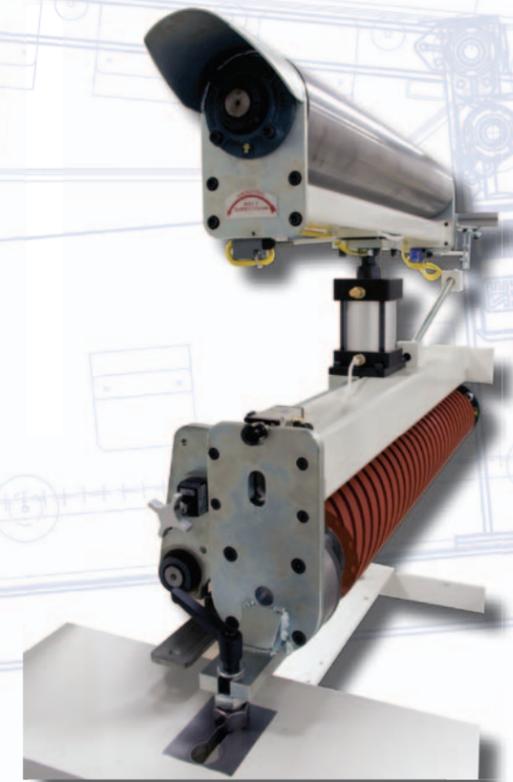
Midwest Automation manufactures a variety of wide belt sanding machines offering superior results, easy operation, and dependable service at competitive prices. Made in USA, machines include the Patriot 2 line of wide belt sanders with one, two and three head configurations for 8 to 16 hours of operation per day where fewer passes are required to achieve the desired results. Bottom line? We help you sand better, increase productivity, and improve quality.

STANDARD FEATURES

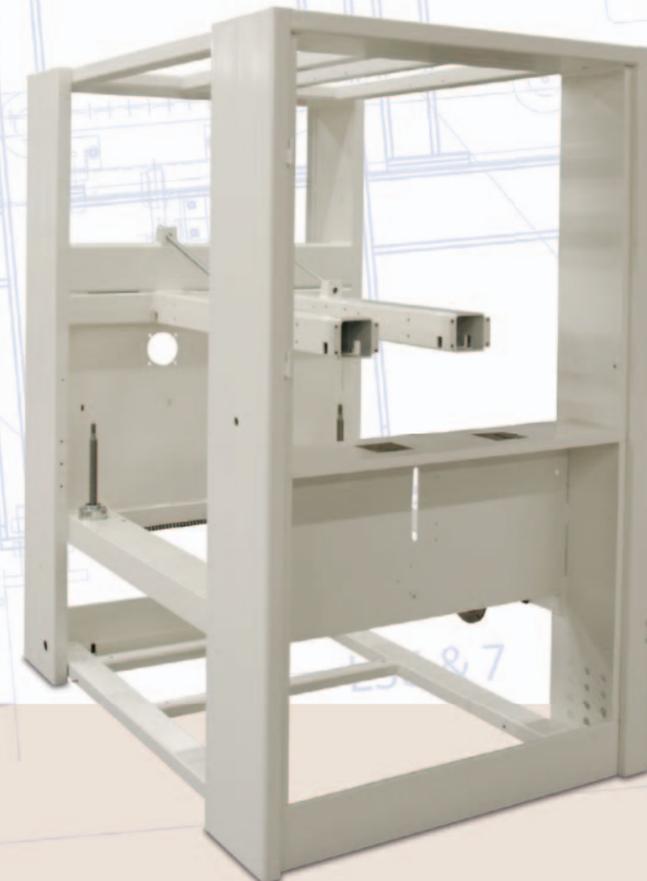
- Heavy-duty frame utilizing structural steel tubing and 1" thick steel plate
- Heavy-duty conveyor bed is precision ground for flatness
- Four (4) precision jacks with covered gears and roller bearing guides
- One, two and three head configurations
- Standard 37", 43" and 52" widths
- Large 6" diameter contact drum(s) are high speed balanced
- Large diameter conveyor bed and idler rollers
- Automatic self-centering abrasive belt tracking system
- Automatic conveyor belt tracking
- Electronic thickness adjustment with positioning unit
- Electronic variable speed control with digital readout
- 15-30 HP TEFC drive motors for each head assembly
- Infeed conveyor extension with two (2) vinyl covered rollers
- Outfeed conveyor extension
- Spring-loaded pinch rollers
- Individual amp meters for each head
- Automatic disc brake on each head
- Dust collection pickup(s) for each head assembly
- Emergency stops and safety interlocks
- UL/CSA Approved components

OPTIONAL EQUIPMENT

- HMI/PLC controls with color monitor
- Electronic variable speed controls on belt head
- External panel cleaning brush
- External belt cleaning brush
- Belt head adjustment with eccentric bearing
- Abrasive belt motor upgrades to 30 HP
- Vacuum bed
- Smooth top "Nitril" conveyor belt
- Ultrasonic conveyor belt tracking system
- Pneumatic pinch roll kit
- UL Approved electrical panel



Combination Head
With adjustable platen



Heavy Duty Frame

Rugged frame construction utilizing 2" X 12" heavy wall structural steel tubing, and 1" thick plate to insure years of dependable service.

Sideview



Two head model with drum and combination head

Rollers & Drums



Large diameter rollers and drums are machined and high-speed balanced (where applicable) for vibration-free, precision results

CLOSE UP SHOTS & ACCESSORIES

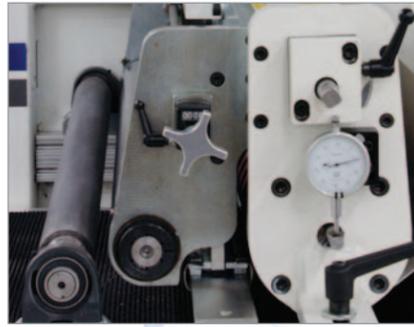
MACHINE DIMENSIONS

PATRIOT 2 SPECIFICATIONS



Belt Tracking

Self-aligning abrasive belt tracking system



Combination Head

Shown with optional adjustable drum



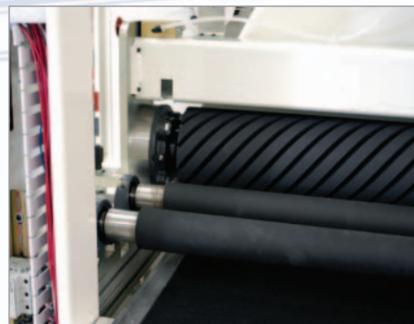
Tension Cylinder

Large bore pneumatic cylinder



Adjustable Platen

Adjustable platen with helical worm gear design



Pinch Rollers

2.25" Heavy duty spring-loaded pinch rollers



AC Drive Motor

Low maintenance AC drive with variable line speed from 5-40 fpm



Thickness Adjustment

Electronic thickness adjustment with positioning unit



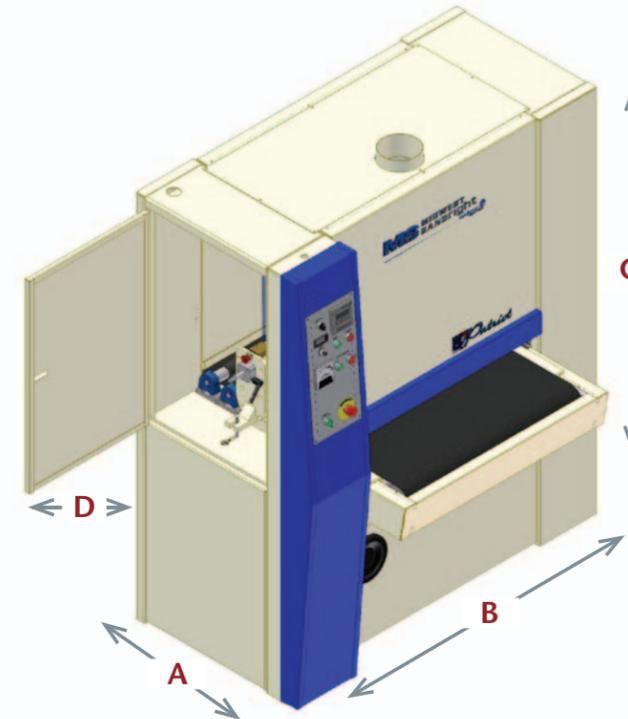
Conveyor Bed

Conveyor bed with automatic belt tracking system



Main Drive Motors

Individual TEFC drive motors with disc brake and pneumatic caliper



Working width	37", 43" & 52"
Working height	0-6"
Minimum parts length	16"
Abrasive belt dimensions	37", 43" & 52" X 75"
Combination head: Drum diameter Platen width	6" 2-1/4"
Pinch roller(s) diameter	2-1/4"
1st head motor: 37" model 43" model 52" model	20 hp 25 hp 30 hp
2nd head motor: 37" model 43" model 52" model	15 hp 20 hp 25 hp
3rd head motor: 43" model 52" model	15 hp 20 hp
Conveyor motor: Single head models 2 & 3 head models	1 hp 2 hp
Conveyor roller diameter	6"
Feed speed	5-40 fpm
Height adjust motor	1/2 hp
Dust collection hookup(s) diameter	7" each
Approximate CFM Requirement (per head): 37" & 43" models 52" models	1300 @ 4000 fpm 1800 @ 4000 fpm

1 HEAD

MODEL	37	43	52
Dimensions	Inches	Inches	Inches
A	57	57	57
B	66.5	73	81.5
C	76	76	76
D	25	25	25
Weight	TBD	TBD	TBD

2 HEAD

MODEL	37	43	52
Dimensions	Inches	Inches	Inches
A	73	73	73
B	66.5	73	81.5
C	76	76	76
D	41	41	41
Weight	TBD	TBD	TBD

3 HEAD

MODEL	43	52
Dimensions	Inches	Inches
A	101	101
B	73	81.5
C	76	76
D	65	65
Weight	TBD	TBD

PATRIOT 2 MACHINE CONFIGURATIONS



Patriot 3
Wide Belt Sanders

The Patriot 3 is designed for continuous use in the most demanding solid wood applications. Large 10-inch diameter contact drums provide superior sanding results.

Available in 2, 3 and 4 head configuration.

**For Demanding Environments
& Superior Results**

**Local Service
Competitive Price
Easy to Operate**

Domestic Parts and Service = Dependable, Uninterrupted Service



Calibrating Abrasive Planer

The Titan heavy duty, abrasive planer is ideal for calibrating stile and rail banded architectural door cores.

Constant pass line height for inline operation.

**Precision 24/7 Operation
A Real Work Horse for Tough Calibrating Applications**



Custom Wide Belt Sanding Machines & Systems

The Explorer series is our custom line of deburring and finishing machines designed to meet your specific requirements. Available in wet or dry, top and/or bottom, and single or multiple head configurations in any width from 12" to 64".

Constant pass line height and material handling integration is also available, if required.



**Works Harder
Runs Smoother
Lasts Longer**

YOUR REQUIREMENTS DRIVE OUR BUSINESS.

Midwest Automation is a family owned U.S. manufacturing company located in Minneapolis Minnesota.

For companies who care where the products they buy are made, it will come as no surprise that buying American is not as easy as it used to be. If you look closely you will discover that many of the machines represented to be "American made" are in fact imported from foreign countries.

For over 60 years, Midwest Automation has manufactured industrial machinery for the woodworking, composite panel and metalworking industries using U.S. labor, and locally available components whenever possible.

Our extensive application knowledge, coupled with creative machine designs, allows us to provide unique and reliable solutions that improve your manufacturing processes, supported by local parts and service.

If you are looking for an industrial machinery manufacturer with real application expertise, contact Midwest Automation today.

Manufacturing results since 1959.



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