



Wide Belt Sanding Machines

MS MIDWEST
SANDRIGHT

Innovative Products for Innovative People

midwest 
GROUP ONE

Patriot 1

Wide Belt Sander

The **Patriot 1** wide belt sander is an entry level machine for small shops that need to sand solid wood components in a 4 to 8 hour per day operation. Easy to operate. Dependable. Domestic parts and service. Toll-free customer service.

Standard Features

- Made in America
- Standard 37" wide
- Combination head with large diameter drum with "dead shaft" design
- Adjustable platen with four-bar linkage, scale & locking knob
- Contact drum is high-speed balanced for precision sanding
- Electronic abrasive belt tracking system
- Automatic conveyor belt tracking
- Power thickness adjustment with digital readout
- Conveyor adjustment uses (4) precision jacks with covered gears & roller bearing guides
- Electronic variable speed drive with digital readout
- 15 HP TEFC main drive motor
- Disc brake with pneumatic caliper
- Digital amp meter
- Double infeed holddown rollers
- 12" infeed & outfeed conveyor extensions
- Emergency stops & safety interlocks

Optional Equipment

- 20 HP motor upgrade
- Single phase electrics

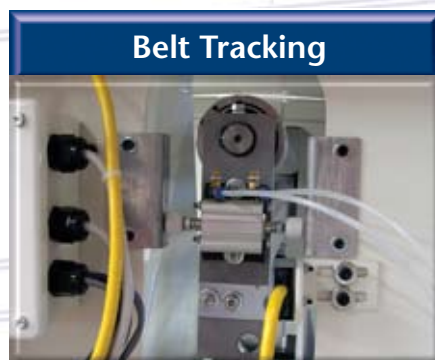
Superior Results
Local Service

Competitive Price
Easy to Operate



Control Panel

Easy to use push button controls
Digital line speed & thickness displays



Belt Tracking

Self-aligning abrasive belt
tracking system



Adjustable Drum

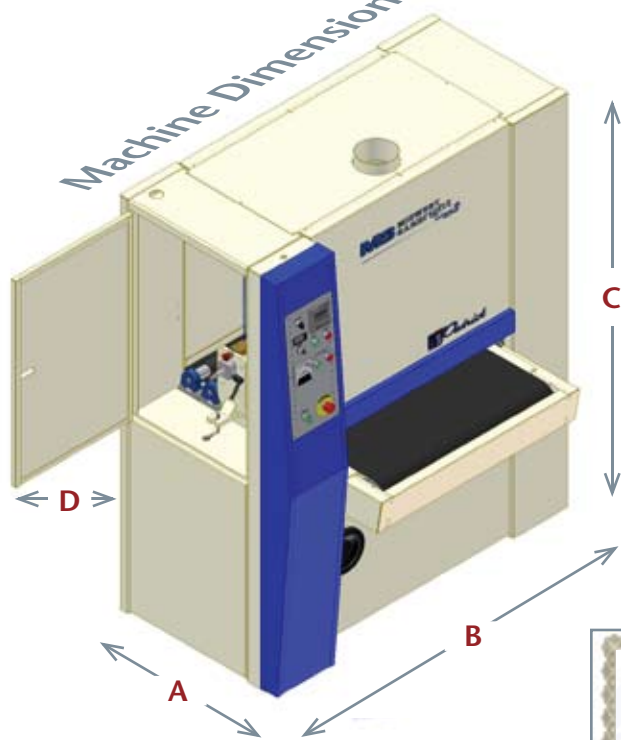
Optional eccentric adjustment
with pointer & scale



PATRIOT 1 SPECIFICATIONS

Working width	37"
Working height	0-5.25"
Minimum Parts Length	14"
Abrasive belt dimensions	37" X 75"
Combination head Drum diameter Platen width	5.5" 2.0"
Pinch Roller(s) Diameter	2.25"
Main motor	15 hp
Conveyor motor	1 hp
Head Surface Speed	2,000 fpm
Feed speed	5-40 fpm
Height adjust motor	1/3 hp
Dust collection hookup diameter	1 @ 7"
Approximate CFM requirement	1100 CFM @ 4000 fpm

Machine Dimensions



MODEL	37
Dimensions	Inches
A	51.50
B	58.50
C	75.00
D	24
Weight	2800 lbs



**Ask about our
24-Hour Parts Guarantee!**

Patriot 2

Wide Belt Sanders

The **Patriot 2** wide belt sander is ideal for the company that requires a machine designed to stand up to years of continuous service in an 8 to 16 hour per day environment. Two and three head configurations are available where fewer passes are required to achieve the desired results.



*Classic American Craftsmanship
World Class Design*

Standard Features

- Made In America
- Standard 37", 43" and 52" abrasive belt widths
- Contact drum utilizes "live shaft" design with heavy duty ball bearings
- Large diameter abrasive belt drums
- Large diameter conveyor bed & idler rollers
- Adjustable platen with helical worm gear & counter
- Contact drum is high-speed balanced for precision sanding
- Electronic abrasive belt tracking system
- Automatic conveyor belt tracking
- Power thickness adjustment with digital readout
- Conveyor adjustment uses (4) precision jacks with covered gears & roller bearing guides
- Electronic variable speed drive with digital readout
- 15-30 HP TEFC main drive motors for each head
- Disc brake with pneumatic caliper for each head
- Individual amp meters for each head
- Double infeed holddown rollers
- 18" infeed & outfeed conveyor extensions
- Emergency stops & safety interlocks

Optional Equipment

- Electronic panel thickness
- Automatic set-up device
- External panel cleaning brush
- External belt cleaning brush
- Eccentric head assembly
- Abrasive belt motor upgrades to 30 HP
- Vacuum bed
- Gum rubber conveyor belt
- Ultrasonic conveyor belt tracking system

Combination Head



Shown with optional adjustable drum

Conveyor Bed



Conveyor bed with automatic belt tracking system

AC Drive Motor

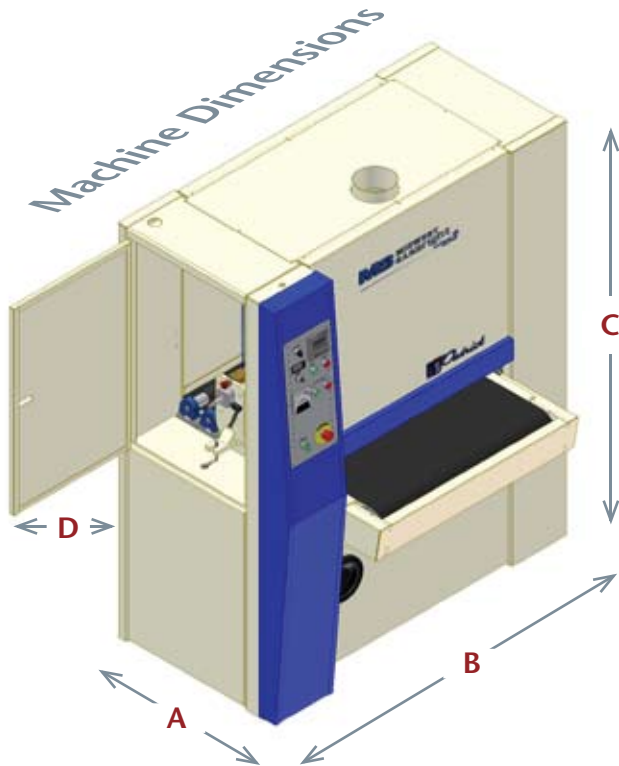


High torque AC drive with 95% efficient helical gear



Side View

Two-head model with drum and combination head



Machine Dimensions

1 HEAD

MODEL	43	52
Dimensions	Inches	Inches
A	57	57
B	73	81.50
C	76	76
D	25	25
Weight	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
Dimensions	Inches
A	101
B	73
C	X
D	65
Weight	TBD

PATRIOT 2 SPECIFICATIONS

Working width	37", 43" & 52"
Working height	0-6"
Minimum parts length	16"
Abrasive belt dimesions	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	15 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

Patriot 3

Wide Belt Sanders

The *Patriot 3* is designed for continuous use in the most demanding solid wood applications.

Works Harder
Runs Smoother
Lasts Longer

Standard Features

- Made In America
- Two and three head configurations
- Standard 52" abrasive belt width
- Large diameter abrasive belt drums
- Large diameter conveyor bed & idler rollers
- Electronic abrasive belt tracking system
- Automatic conveyor belt tracking
- Power thickness adjustment with digital readout
- Electronic variable line speed with digital readout
- 30-75 HP TEFC drive motors for each head
- Individual amp meters for each head
- Automatic disc brake on each head
- 18" infeed conveyor extension
- Double infeed & outfeed holddown rollers
- Emergency stops & safety interlocks

Optional Equipment

- Same options available as Patriot 2



Rollers & Drum

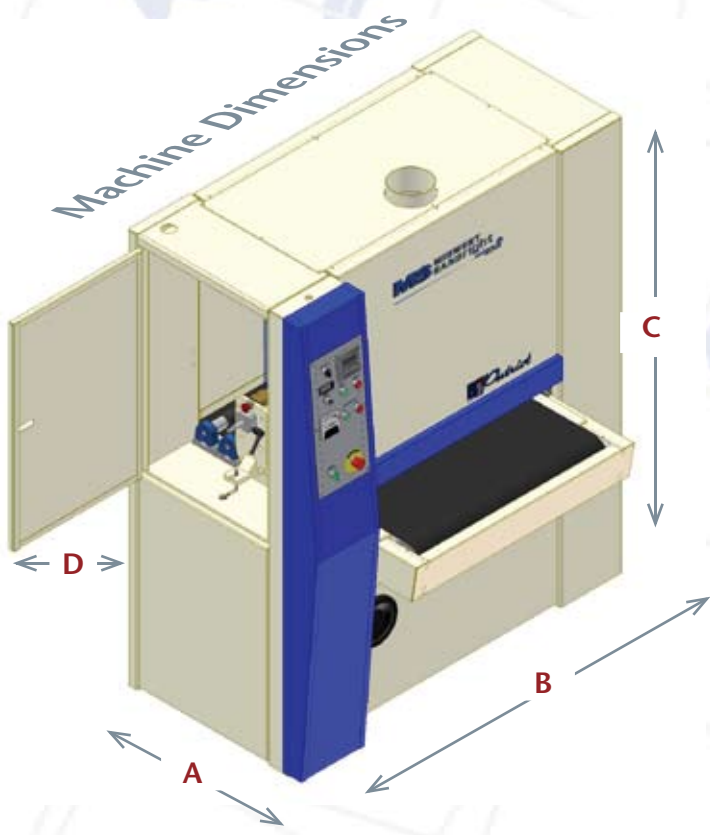


Large diameter rollers and drum for precision operations

Frame



Welded frame designed with structural steel tubing and 1 inch plate for maximum strength



PATRIOT 3 SPECIFICATIONS	
Working width	52"
Working height	0-6"
Minimum parts length	21-1/2"
Abrasive belt dimesions	52" X 103"
Drum diameter	12"
Pinch Roller(s) diameter	2-1/2"
Platen width	2-1/2"
1st head motor	40 hp
2nd head motor	30 hp
3rd head motor	30 hp
Conveyor motor 2 head models 3 head models	3 hp 5 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)	1800 @ 4000 fpm

2 HEAD

MODEL	52
Dimensions	Inches
A	73
B	73
C	76
D	41
Weight	TBD

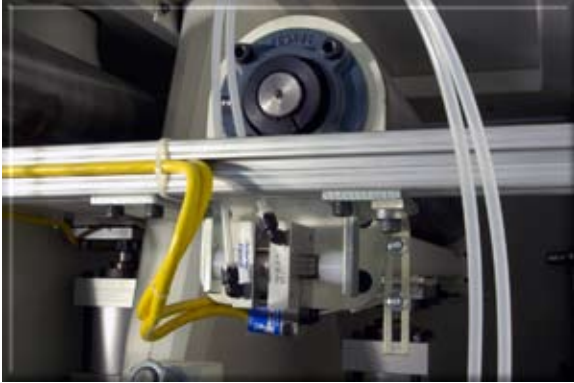
3 HEAD

MODEL	52
Dimensions	Inches
A	101
B	73
C	X
D	65
Weight	TBD



Close Up Shots

Belt Tracking



Self-aligning abrasive belt tracking system

Tension Cylinder



Large bore pneumatic cylinder

Pinch Rollers



Heavy duty spring-loaded pinch rollers

Adjustable Platen



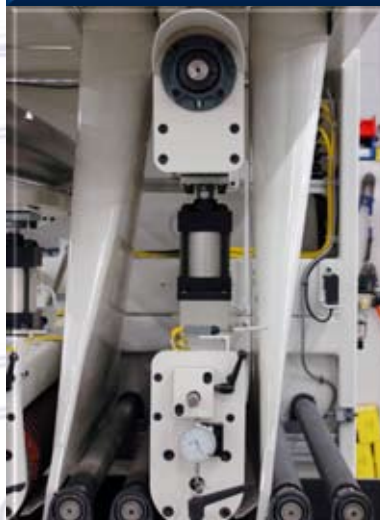
Adjustable platen with helical worm gear design

Control Panel



Digital line speed & thickness displays

Head Assembly



Shown with optional eccentric adjustment & dial indicator

Main Drive Motors



Individual TEFC drive motors with disc brake & pneumatic caliper

Machine Configurations

1 Head

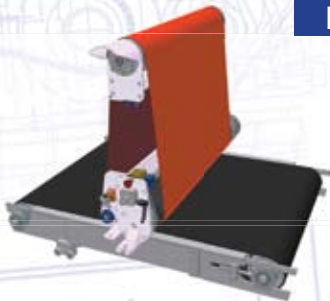
2 Head

3 Head

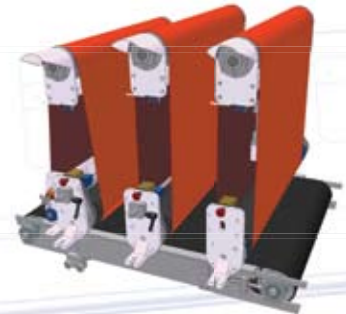
Patriot 1



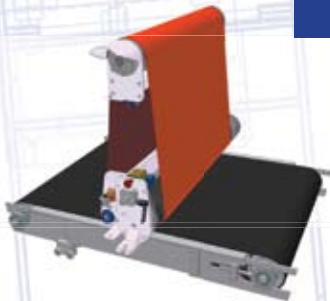
Patriot 2



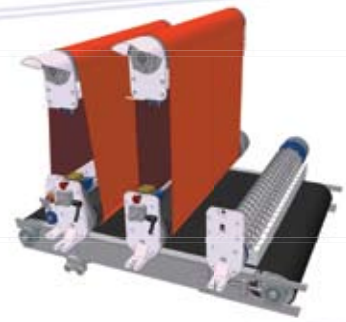
Patriot 3



Titan



Tomahawk



LS6 &

477.75

Titan Calibrating Abrasive Planer

Precision 24/7 Operation

A Real Work Horse for Tough Callibrating Applications

The Titan heavy duty, abrasive planer is ideal for calibrating stile and rail banded architectural door cores. Constant pass line height for inline operation.



Standard Features

- Made In America
- Standard 52" X 103" abrasive belt
- 9-1/2" diameter abrasive belt drum
- Electronic abrasive belt tracking system
- Automatic conveyor belt tracking
- Power thickness adjustment with digital readout
- Electrical variable speed with digital readout
- 125 HP TEFC abrasive belt motor
- Infeed/outfeed holddown rollers with pneumatic airbags
- Anti-kickback device
- Constant pass line
- Soft start

Explorer

Custom Wide Belt Sanding Machines & Systems

The Explorer is our custom line of sanding machines designed to meet your specific requirements. Available in top and/or bottom, single or multiple head configurations, in widths from 12 to 64 inches.

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



Patriot Metal Applications *Flat Deburring & Finishing Machines*

TYPICAL COMPONENT PARTS



Midwest Sandright Metal Division manufactures a complete line of wet and dry deburring and finishing machines for flat and cylindrical applications. Contact Dan McClellan, VP Sales/Metal for more information.



Trident *Cylindrical Deburring & Finishing Systems*

TYPICAL COMPONENT PARTS



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