

The background of the entire page is a close-up, slightly blurred image of the American flag, showing the stars and stripes in a wavy pattern.

***Patriot 2 Dry***  
***Deburring & Finishing Machines***  
***Made in USA***

**M.S.** MIDWEST  
SANDRIGHT

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American innovation at work.

midwest   
GROUP ONE

# Patriot 2

## Dry Deburring & Finishing Machines

*World-Class Design  
Classic American Craftsmanship  
Made In USA*

*The Patriot 2 single head dry machine is designed for the shop that requires a rugged machine to economically deburr or finish a wide variety of ferrous and non-ferrous components. Two and three head configurations are available where fewer passes are required to achieve the desired results. Simple to use. Easy to maintain.*



Three head configuration with two abrasive belts and one abrasive brush head assembly. Second head includes eccentric for precise adjustment.

## Standard Features

- Heavy-duty frame utilizing heavy wall structural steel tubing & 1" thick steel plate
- One, two and three head configurations
- Standard 37" & 52" abrasive belt widths
- 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
- Variable line speed with digital readout
- 15-30 HP TEFC drive motors for each head
- Individual amp meters for each head
- Automatic disc brake on each head
- Infeed conveyor extension with two (2) vinyl covered rollers
- Outfeed conveyor extension
- Double infeed & outfeed holddown rollers
- Emergency stops & safety interlocks
- UL/CSA Approved components



### **Rollers & Drums**

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

## Optional Equipment

- Electronic thickness control
- HMI/PLC controls with color monitor
- 10 inch (254 mm) diameter finishing drum(s)
- Smooth top conveyor belt
- External part and conveyor cleaning brush kits
- Oscillating brush head kit
- Electronic variable speed belt/brush control
- Adjustable contact drum with eccentric
- Small parts magnet
- Vacuum bed
- Niagara Wet Dust Collector



### **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.

# Patriot 2

## Close Up Shots & Accessories

**Control Panel**



Easy to use push button controls with digital line speed & thickness displays

**Infeed Conveyor**



Infeed conveyor extension with two (2) vinyl covered rollers

**Tension Cylinder**



Self-aligning abrasive belt tensioning system with large bore pneumatic cylinder

**AC Drive Motor**



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

**Pinch Roller**



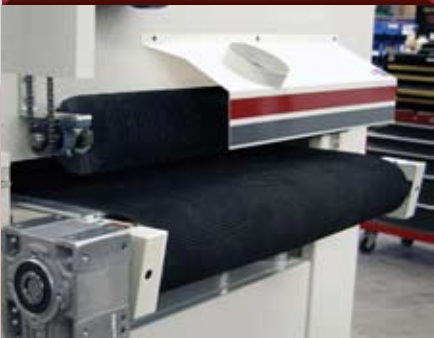
2 1/4 inch spring-loaded pinch rollers for holding part securely to the conveyor bed

**Brush Head**



Brush head assembly with optional oscillating head

**External Brush**



Optional external cleaning brush with cutaway view of dust hood

**Conveyor Bed**



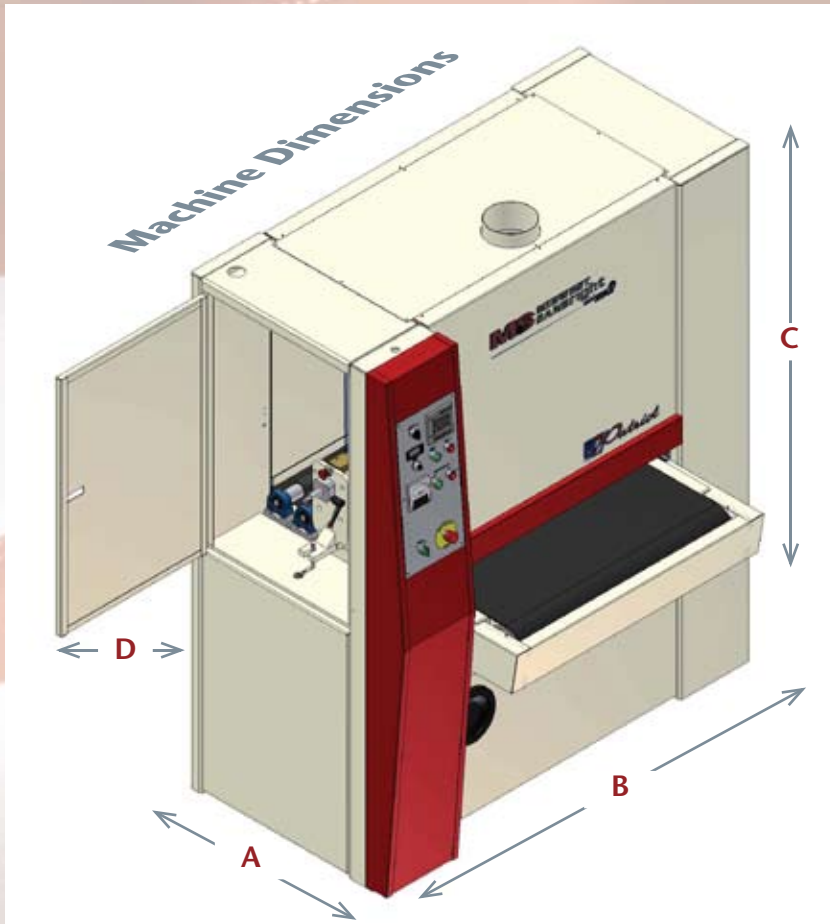
Conveyor bed with automatic belt tracking system

**Disc Brake**



Caliper type, pneumatic disc brake for emergency stop

## Machine Configuration



## PATRIOT 2 SPECIFICATIONS

Working width	37" & 52"
Working height -Minimum -Maximum	* 6"
Minimum part length	9.75"
Abrasive belt dimensions	37" & 52" X 75"
Drum diameter Standard Optional	6" 10"
Abrasive brush diameter (Flap or Disc Style) 37" model 52" model	8" 12"
Pinch roller diameter	2.25"
1st head motor 37" model 52" model	20 hp 30 hp
*2nd head motor 37" model 52" model	20 / 15 hp 30 / 25 hp
*3rd head motor 37" model 52" model	20 / 15 hp 30 / 25 hp
Conveyor motor Single head 37" models All other 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" models 52" models	1300 @ 4000 fpm 1800 @ 4000 fpm

\*Note: Determined by configuration or application.

### 1 HEAD

MODEL	37	52
Dimensions	Inches	Inches
A	57	57
B	66.5	81.50
C	76	76
D	25	25
Weight	TBD	TBD

### 2 HEAD

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

### 3 HEAD

MODEL	37	52
Dimensions	Inches	Inches
A	101	101
B	66.5	81.5
C	76	76
D	65	65
Weight	TBD	TBD

Note: Dimensions are for drum models only



**More Midwest Sandright Machines...Made in USA**

# Explorer

## Custom Deburring & Finishing Machines

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.



# Niagara

## Wet Dust Collection Systems

*Niagara* wet dust collection systems are intended for safe, efficient collection of various dusts from grinding and deburring operations. Using a water filled tank as the filter into which the contaminated air is pulled, dust particles sink to the base of the tank and are easily raked into a disposal container. Includes electronic level sensor with automatic refill. An optional National Fire Code NFPA 484 Approved kit is available for combustible materials.



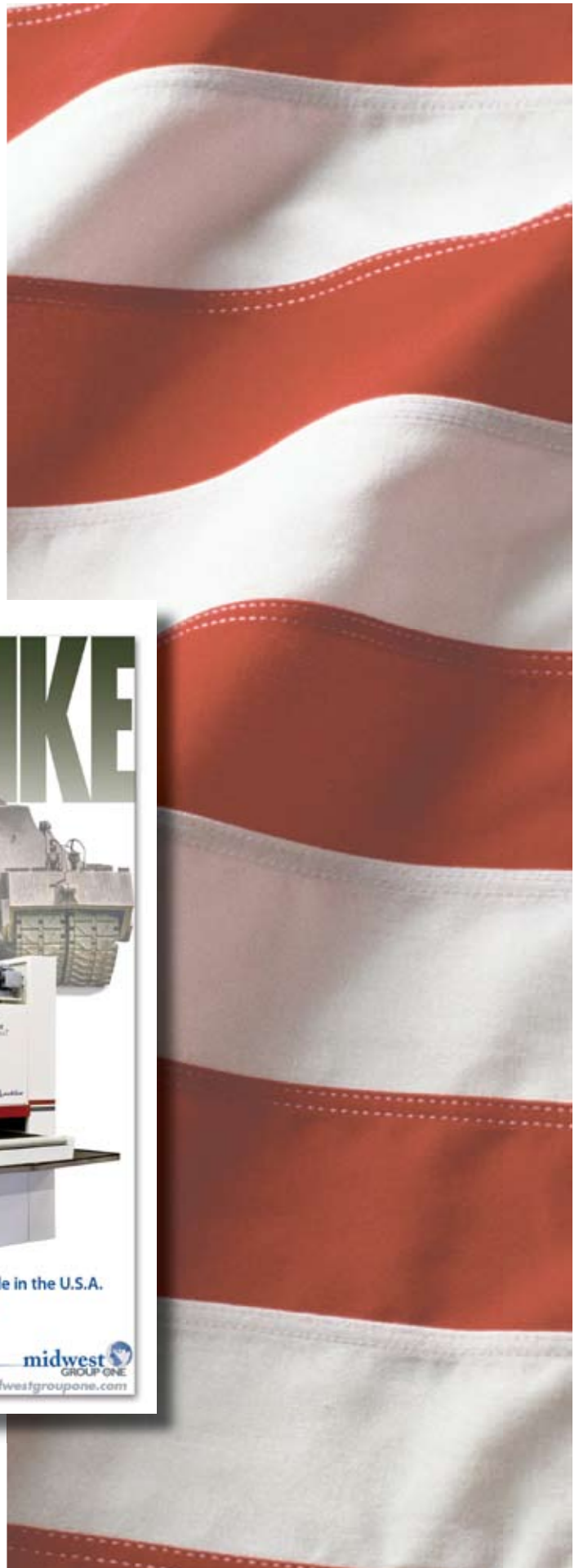
**Electronic Sensor**  
Electronic level sensor control with automatic refill

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*Made in USA, Midwest Sandright / Rand-Bright®* manufactures a variety of deburring and finishing machines offering superior results, easy operation, and dependable service at competitive prices.

Models include Patriot dry machines with one, two or three head configurations offering 4 to 24 hours of operation per day.

Also available are Nautilus wet deburring and finishing machines, Explorer custom deburring and finishing machines, Rand-Bright® cylindrical deburring and finishing machines, and Niagara wet dust collection systems.



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