



# *Flat Deburring & Finishing Dry Machines*

**MIS** MIDWEST  
SANDRIGHT

*Innovative Products for Innovative People*

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GROUP ONE

# Patriot 2

## Dry, Flat Deburring & Finishing Machines

*World-Class Design  
Classic American Craftsmanship*

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 brush head.

## Standard Features

- Made In USA
- 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
- 18" infeed & outfeed conveyor extension
- Double infeed & outfeed holddown rollers
- Emergency stops & safety interlocks



### *Rollers & Drums*

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

## Optional Equipment

- Vacuum bed
- Small part magnet
- Panel cleaning brush
- Conveyor cleaning brush
- Automatic thickness control
- Manual & automatic lubrications systems
- Adjustable contact drum
- 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.



## Close Up Shots & Accessories

### Control Panel



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

### Adjustable Drum



Optional eccentric design with dial indicator for precision adjustment

### 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



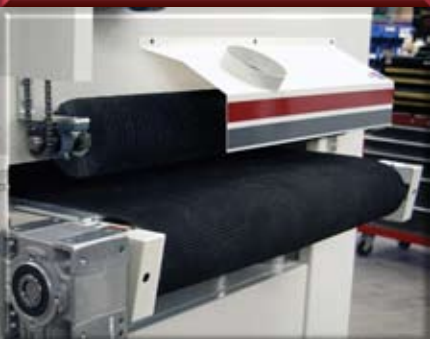
2 1/4 inch spring-loaded pinch rollers for holding part securely to the conveyor bed

### Brush Head



Brush head assembly with wire brush to improve finish quality

### External Brush



Optional external cleaning brush with cutaway view of dust hood

### Conveyor Bed



Conveyor bed with automatic belt tracking system

### Disc Brake

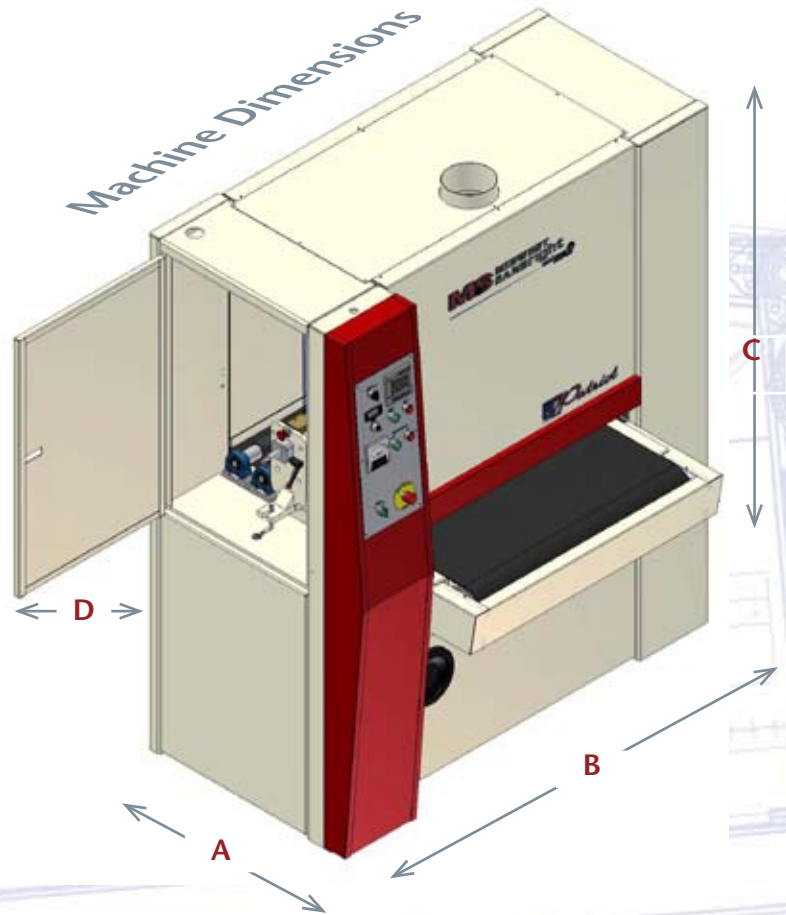


Caliper type, pneumatic disc brake for emergency stop

## PATRIOT 2 SPECIFICATIONS

Working width	37" & 52"
Working height	0-6"
Minimum Panel Length	9.75"
Abrasive belt dimensions	37" & 52" X 75"
Drum diameter	6"
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	20 / 15 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

\*Determined by configuration.



### 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

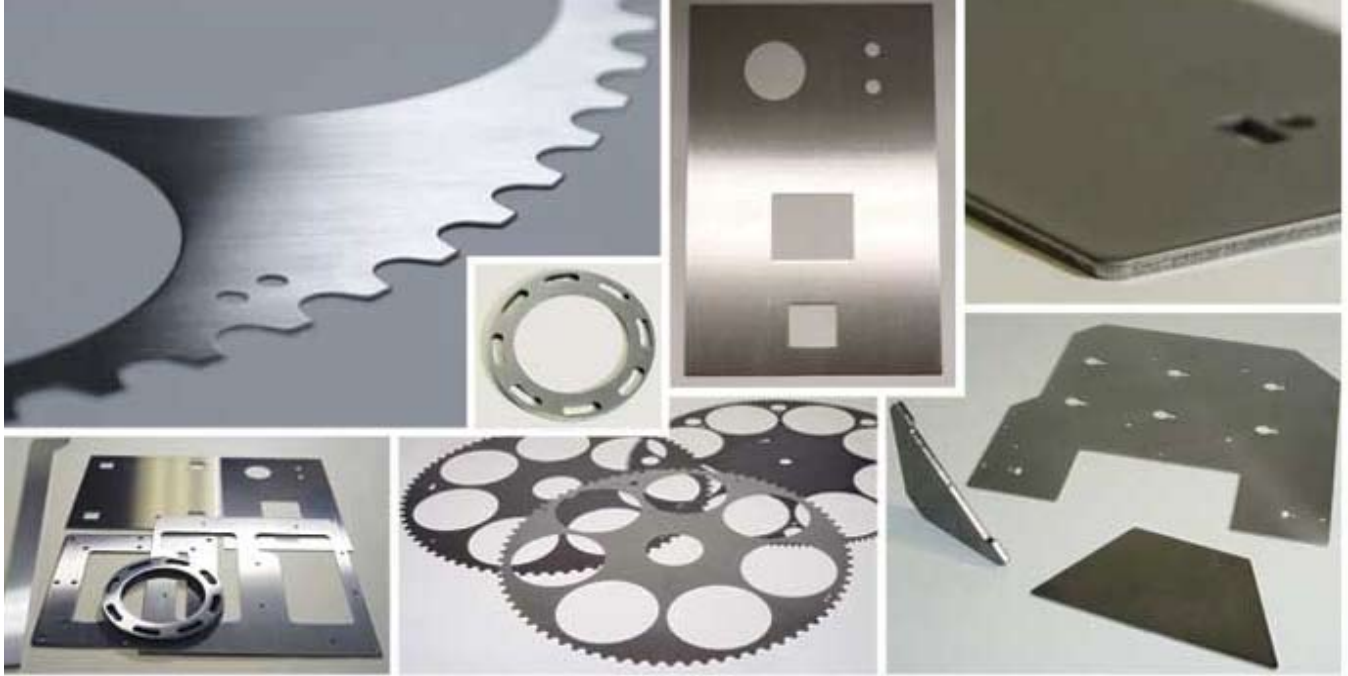
### 2 HEAD

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

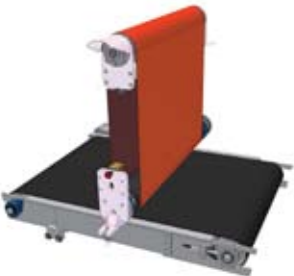
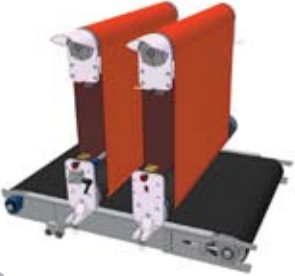

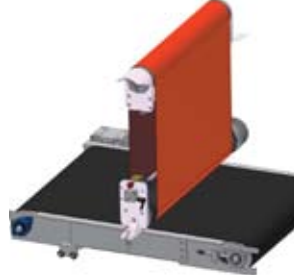
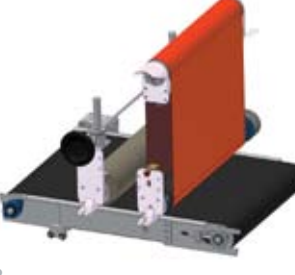
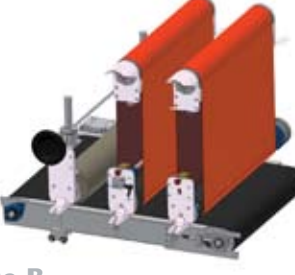
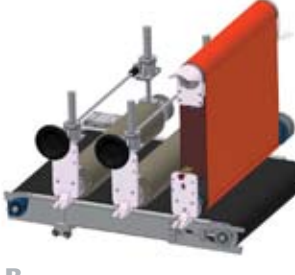
### 3 HEAD

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

## Typical Applications



## Patriot 2 Machine Configurations

1 Head	2 Head	3 Head
 <p><b>D</b></p>	 <p><b>D-De</b></p>	 <p><b>D-De-De</b></p>
 <p><b>De</b></p>	 <p><b>D-B</b></p>	 <p><b>D-De-B</b></p>
		 <p><b>D-B-B</b></p>



## 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.



## Wet Dust Collection Systems

**Niagra** 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.

### Standard Features

- No filter bags
- Stainless steel construction
- Water level controller
- Sound silencer
- T.E.F.C. motor
- Low maintenance
- Small particle grids for higher efficiency
- Models 1200 CFM to 5500 CFM
- Magnetic starter with main disconnect



Meets National Fire Code (NFPA) requirements when processing aluminum dry with an abrasive product.

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