

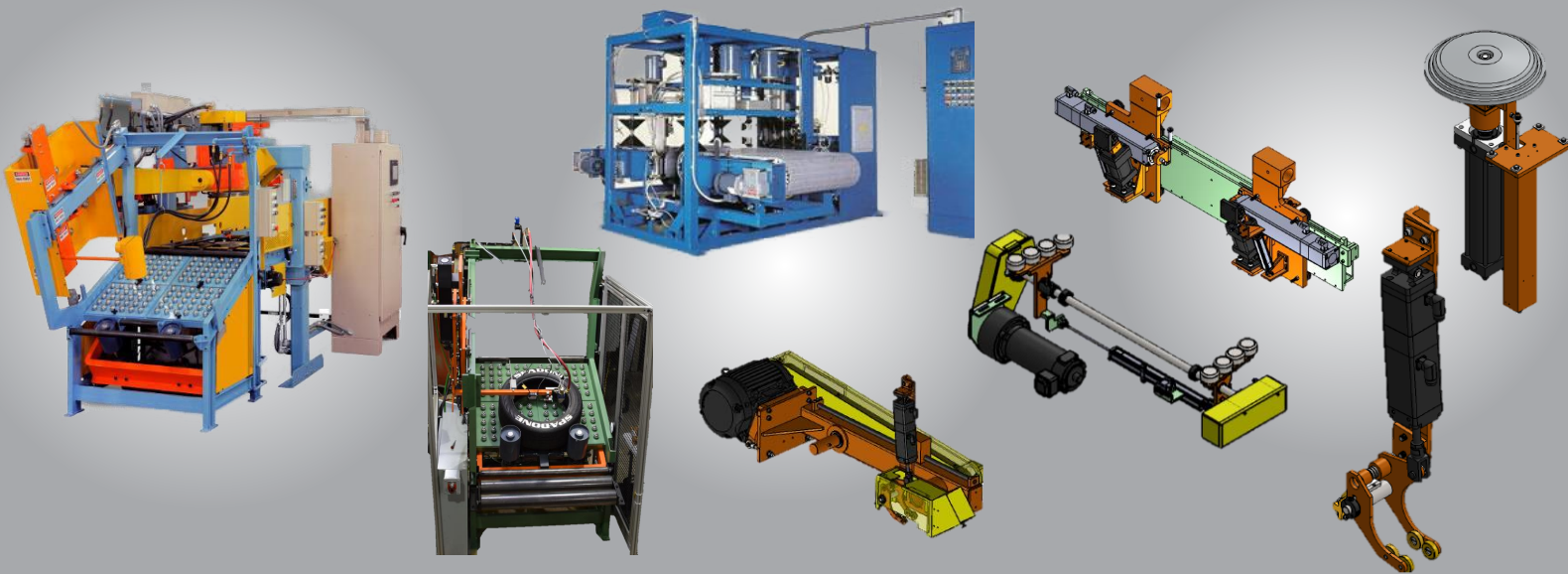
SPADONE

RUGGED + RELIABLE

FOR OVER 100 YEARS

FINAL FINISH EQUIPMENT & UPGRADE KITS

White Sidewall Buffers & Sprayers | Vent Trimmers | Skivers | Bias Cutters | Guillotines
Alfa Shears | Web Handling | Trucks | Upgrade Kits | Spare Parts



www.spadonemachine.com

WHITE SIDEWALL BUFFER

Technical Specifications

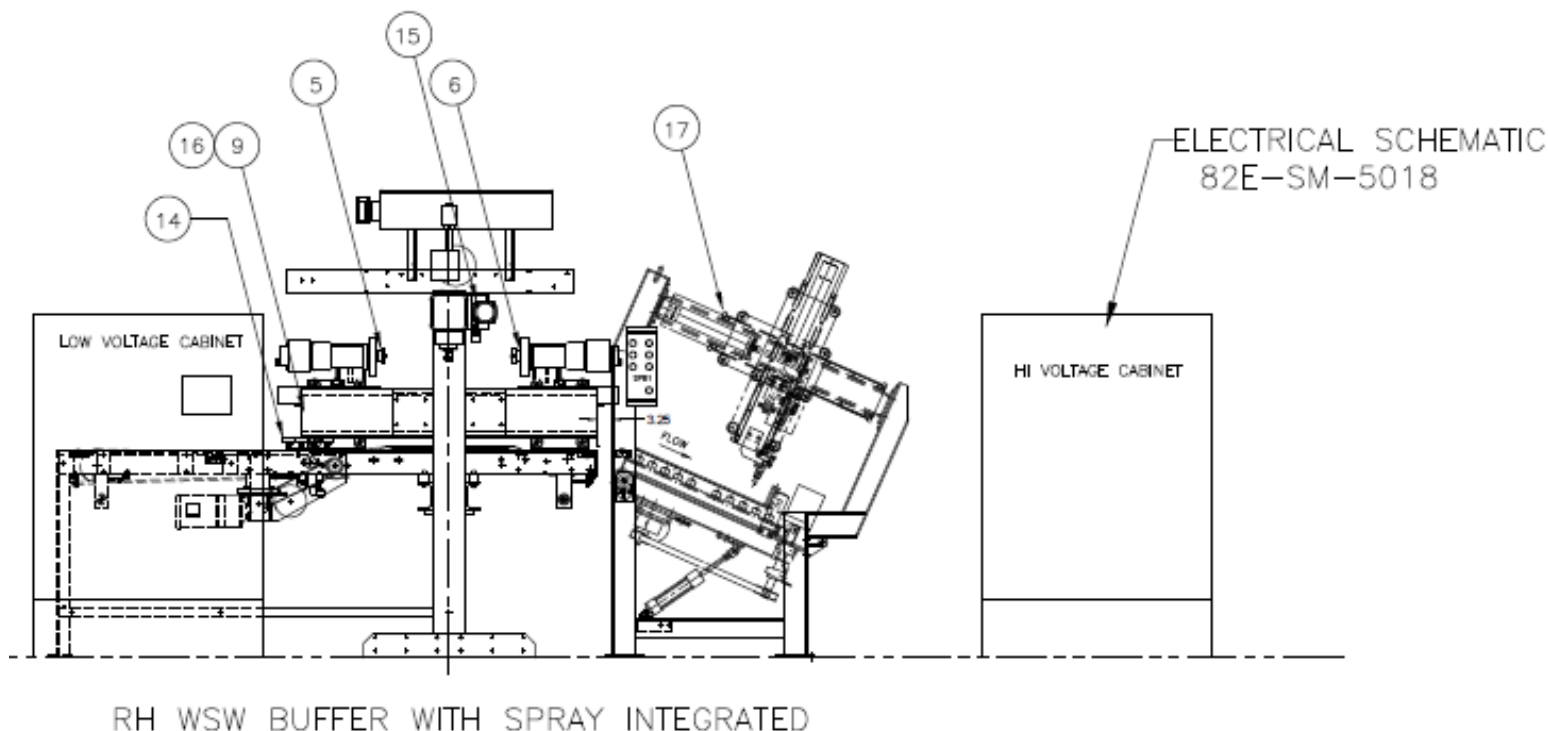
Spadone's White Sidewall Buffers are designed for the most demanding applications. Since 1917, Spadone has manufactured rugged and dependable machines for the tire and rubber industry. Spadone's White Sidewall Buffer provides quick chuck and grinding wheel change and fully automatic or manual set-up options for passenger, SUV, truck, and motorcycle tires. With a broad range of options and configurations, Spadone's White Sidewall Buffers are designed with the highest production capability in mind.



Features

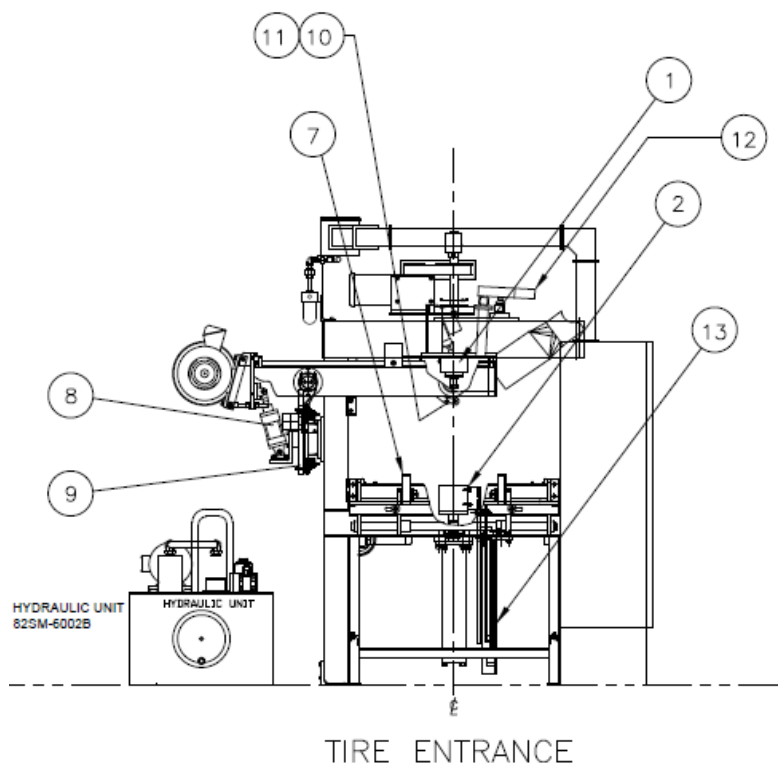
- Fully automatic or manual setup
- Quick chuck and grinding wheel change
- High production capability
- Rugged and dependable
- Guarded for operator safety
- Left- or right-hand machines available
- Two Step Grinding Coarse and Fine
- Double V-Belt Conveyor provides positive stopping and positioning
- Variable Frequency Drive or optional Servo for Conveyor
- Tire automatically centered as it enters
- Positioning sensor stops tire in chucking position
- Servo Controlled Radial Adjustment of the grinding wheels
- Servo Controlled Depth Guide Adjustment
- Gravity float and counterweighted adjustable grind wheel pressure
- Hydraulic Bead Spread System
- Self Contained Hydraulic Control

Illustrative Drawing



Specifications

Tire O.D.	22 1/2" minimum 37 1/4" maximum
Grind Diameter	16" minimum 32" maximum
<i>Note: Above dimensions can be modified to customer specifications</i>	
Tire Cross Section	15" maximum
Chuck Size	15" to 24"
<i>(Step chucks available)</i>	
Grinding Wheel Speed	5,630 RPM (with 60 hz. service)
Tire Rotation Speed	16.5 RPM (with 60 hz. service)
(2) Grinding Wheel Motors	15 H.P. each energy efficient
(1) Conveyor Drive	1/2 H.P. each
(1) Chuck Drive	1/2 H.P. each



Options

Spray System

- Integrated with buffer or standalone
- Complete with spray gun and servo positioning control system
- Discharge direct to takeaway conveyor

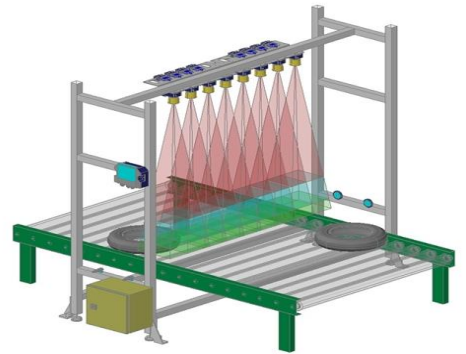


Bar Code Recognition System

- Fully automatic turnkey solution
- Omni Directional Reading of Bar Code

Infrared Conveyor Belt Oven

- Two Heat Zones
- 130 ° F Rating
- Variable Speed wire mesh belt
- 15-20 fpm belt speed



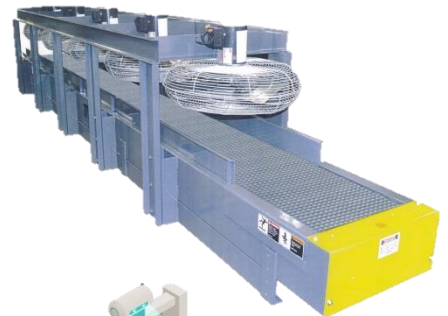
Drying Tunnel

- Flat wire mesh belt
- Variable Speed Drive
- 36" wide belt
- Forced Ambient Air



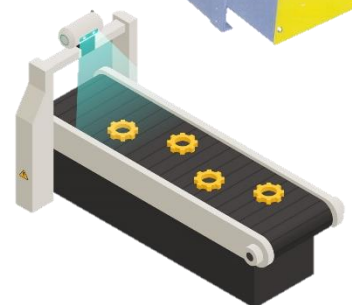
Cleaning Station

- Brush with attachment for vacuum hose
- Helps keep dust from the grinding process to a more manageable level

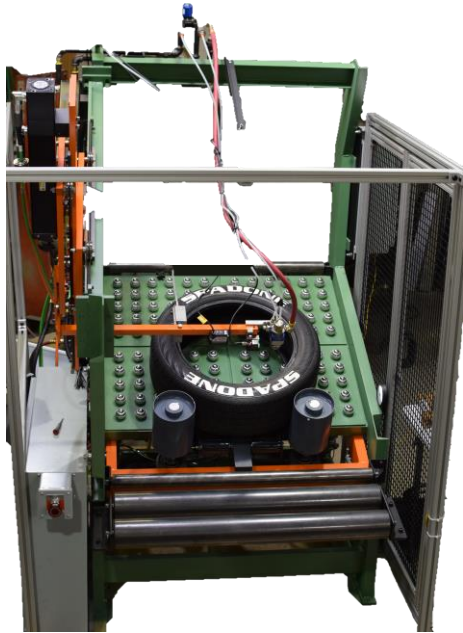


Conveyor Systems

- Specialized conveyor systems available for all equipment



WHITE SIDEWALL SPRAYER



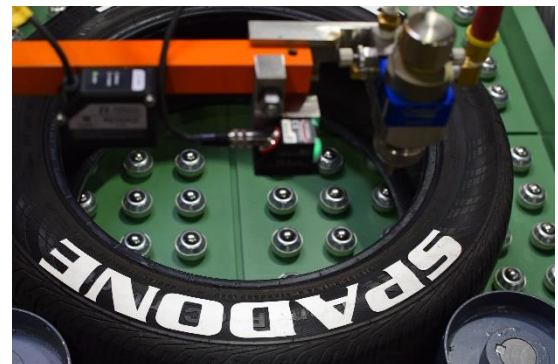
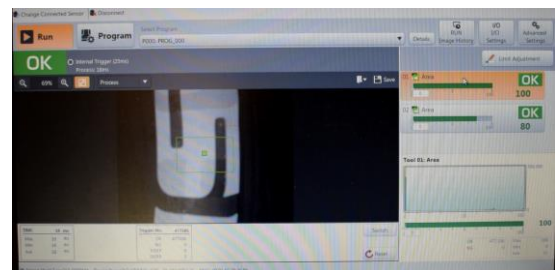
Technical Specifications

Spadone's White Sidewall Sprayers are designed for the most demanding applications. Since 1917, Spadone has manufactured rugged and dependable machines for the tire and rubber industry. Spadone's White Sidewall Sprayer provides fully automatic white letter detection and positioning for passenger, SUV, truck, and motorcycle tires. With a broad range of options and configurations, Spadone's White Sidewall Sprayers are designed with the highest production capability in mind.

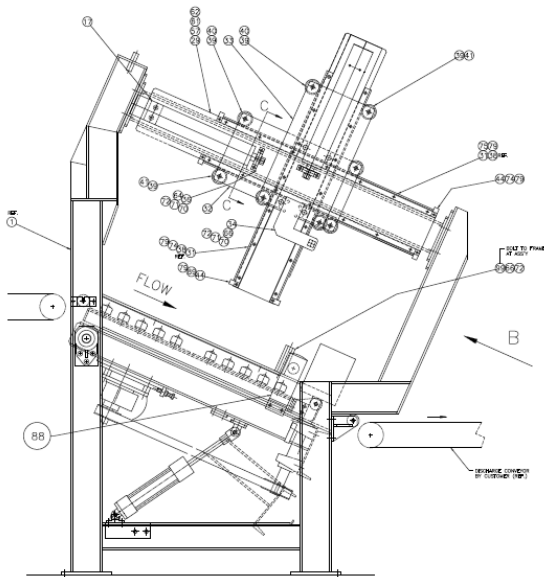
Features

- High precision spray, achieved with a state-of-the-art vision detection system.
- Two axis slide that allows the spray nozzle to spray only the faces of the white lettering.
- Install the Sidewall Sprayer on the exit of our Sidewall Grinder, on a tire conveyor, or as a standalone machine with its own conveyor section.
- This fully automatic machine requires no centering devices, and there's no need to chuck or inflate the tire.
- Ball transfers mounted on four individual plates, easily removable for cleaning.
- The machine includes an enclosure on all four sides with clearance for the entry and exit conveyors. Panels are wire grid with safety interlocked access doors.

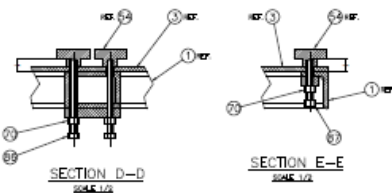
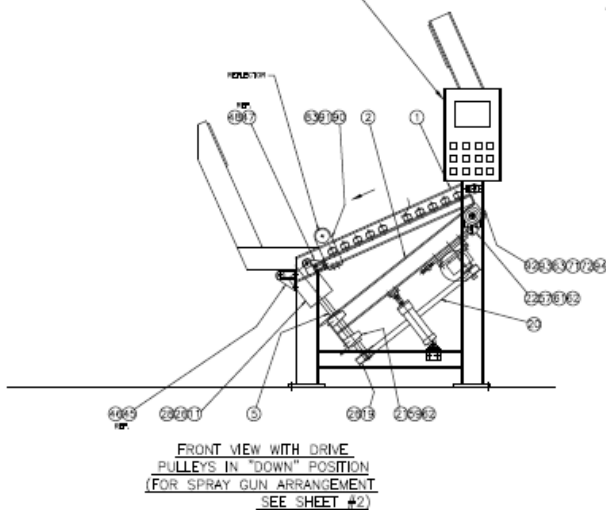
White Letter Detection Technology



Illustrative Drawing



OPERATOR PUSHBUTTON STATION



Specifications

Tire Capacity	up to 38" O.D. and 15" section height (tire width)
Rate	Up to Four Tires per Minute

Note: Above dimensions can be modified to customer specifications

Conveyor Width	40" between frames
Paint Type	Supplied by Customer. Water based only.
Pump	Air Operated Diaphragm Pressure Pump with Air Operated Drum Agitator. (Available as an Option)
Paint Gun	HVLP type, All Air Operated

Gun Positioners	Allen Bradley Linear Servo actuators, Kinetix 350 Drives
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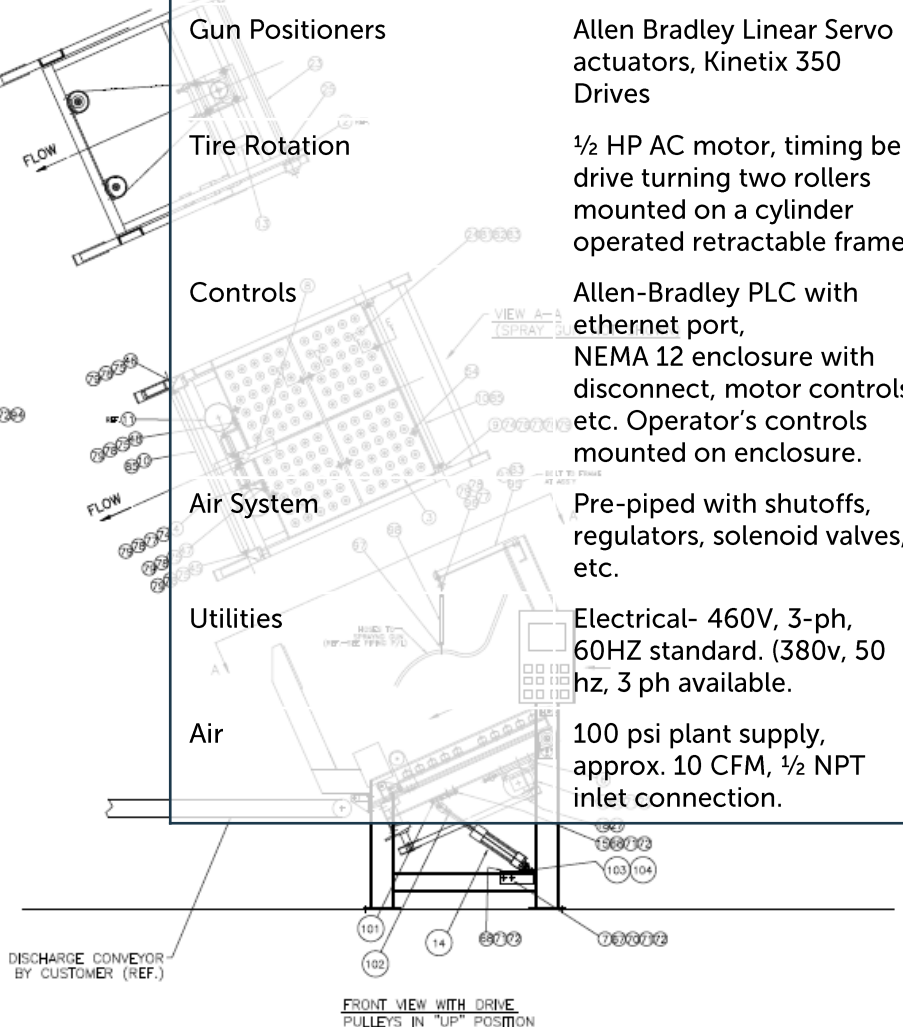
Tire Rotation	½ HP AC motor, timing belt drive turning two rollers mounted on a cylinder operated retractable frame.
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Controls	Allen-Bradley PLC with ethernet port, NEMA 12 enclosure with disconnect, motor controls, etc. Operator's controls mounted on enclosure.
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Air System	Pre-piped with shutoffs, regulators, solenoid valves, etc.
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Utilities	Electrical- 460V, 3-ph, 60HZ standard. (380v, 50 hz, 3 ph available.
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Air	100 psi plant supply, approx. 10 CFM, ½ NPT inlet connection.
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VENT TRIMMER

Technical Specifications

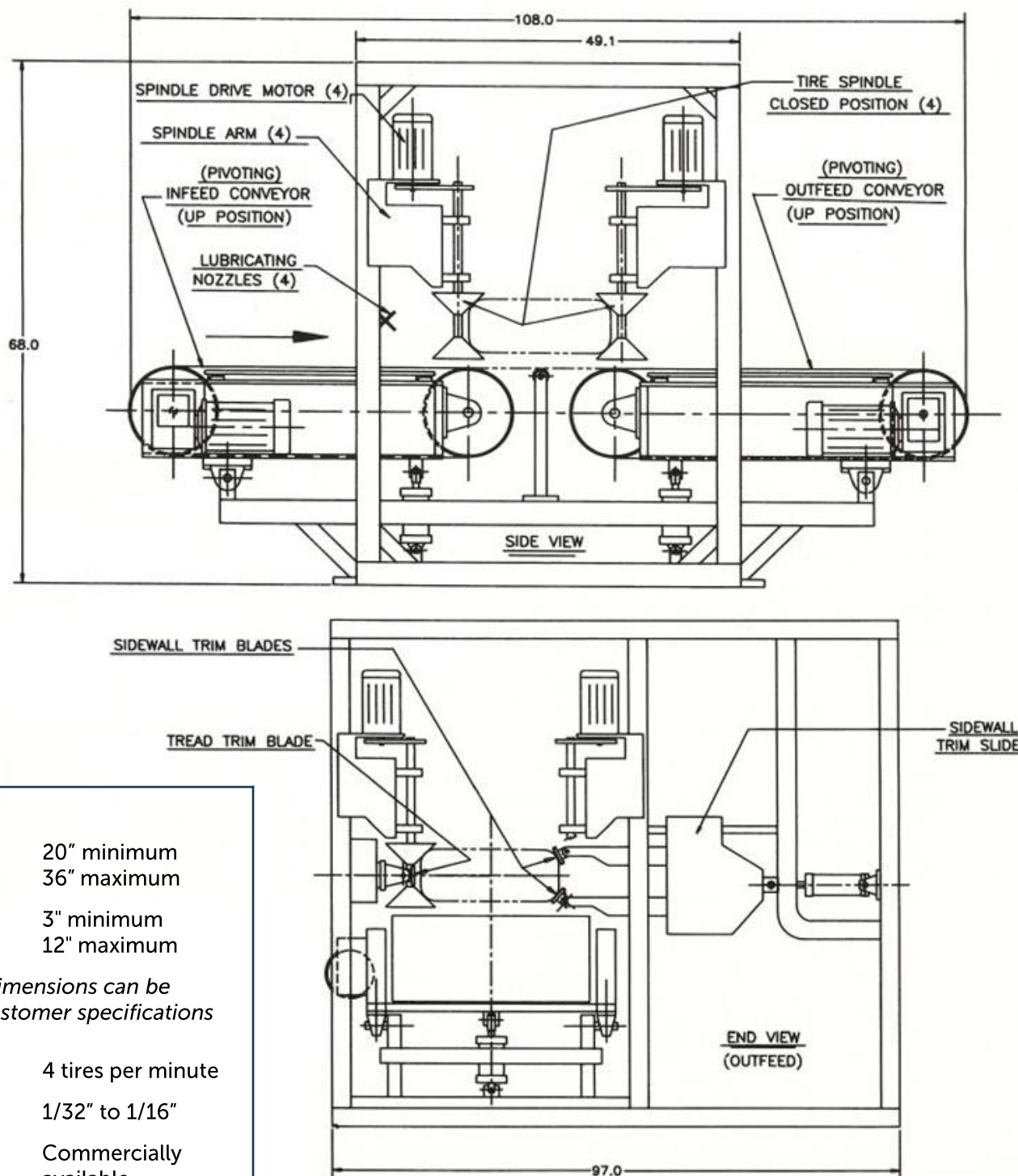
Spadone's Vent Trimmers are designed for the most demanding applications. Since 1917, Spadone has manufactured rugged and dependable machines for the tire and rubber industry. Spadone's Vent Trimmer is fully automatic, requires no pre-sorting for passenger, SUV, truck, and motorcycle tires. With a broad range of options and configurations, Spadone's Vent Trimmers are designed with the highest production capability in mind.



Features

- Fully automatic
- No pre-sorting
- High production capability
- Rugged and dependable
- Guarded for operator safety
- Cycle times of 4 tires per minute
- 3 trimming knives
- 4 spindles independently driven for optimal trimming speed
- Optic sensor measures outside diameter of tire
- Allen Bradley PLC adjusts trim speed, spindle positions and knives paths
- Intralox conveyors
- Reliance motors
- Commercially available knives
- Designed to run with minimal standard maintenance
- Machine will alert operator when blades must be changed or when lube needs replenishing

Illustrative Drawing



Specifications

Tire O.D. 20" minimum
36" maximum

Tire Width 3" minimum
12" maximum

Note: Above dimensions can be modified to customer specifications

Trim Cycle Rate 4 tires per minute

Trim Accuracy 1/32" to 1/16"

Knives Commercially available

Type of Lubricant Pro-Tire Lube

Lubricant Consumption Rate 1 quart per day

UPGRADE KITS FOR WHITE SIDEWALL BUFFERS

Controls System Rebuild

New machine control enclosures. All control components assembled and wired in Hoffman enclosures ready for integration to the machine. Kinetix 350 Servo drives (4) axis, all motor controls for AC motors including Powerflex drives. Includes all Servo cables, junction boxes, HMI, pushbutton enclosures and operator station. Current PLC Program. Does not include any communication provision for upstream equipment. Provided for stand-alone automatic tire processing.

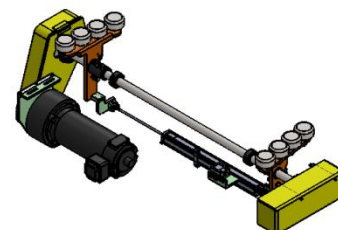
Automatic Depth Guide Assemblies

Current mechanical assemblies of (2) wheel depth guides. Includes Allen Bradley Linear Servo motors and all hardware for mounting, both fine and coarse sides.



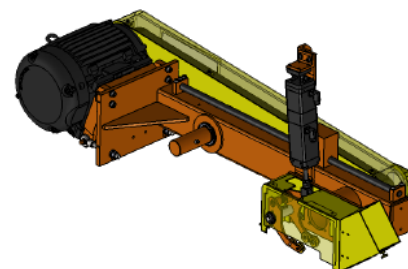
Programmable Tire Centering Assembly

Motor driven assembly with lh/rh ball screw and centering rollers. Provided with LDT feedback transducer. Programmable center positioning for infeed



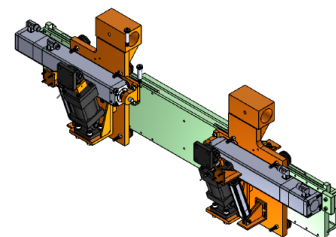
Spindle Drive Assemblies

Grind Arm Assemblies includes new grind arms and all supporting structure. Does not include grind stone mandrel housing assemblies. Includes Hydraulic actuators and position feedback LDT's. Both fine and course sides.



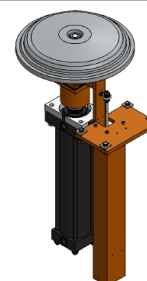
Support Plate and Drive Assemblies

Frame mounted support plate with vee guide wheels and track and linear AB servo motors complete for radial positioning of the grind arms. Both fine and coarse sides.



Programmable Bead Spread Assembly

Mechanical assembly of lower chuck positioning system. Includes hydraulic cylinder and all supporting structure, LDT position feedback transducer, lower chuck spindle assembly (chuck not included). Includes stand alone 15 hp Hydraulic power supply and all hoses and fittings complete with proportional valve for control.



RUGGED. DEPENDABLE. RELIABLE.

Spadone is the worldwide brand leader in equipment for the tire, rubber and industrial markets. Since 1917, Spadone equipment has proven to be rugged, reliable, and dependable. For over 100 years, Spadone has proudly manufactured in the USA. As the pioneer in bias cutters, Spadone continues to lead the way by providing the highest quality equipment to meet the growing needs of its customers throughout the world.

**INDUSTRY LEADING
PERFORMANCE
SINCE 1917**

SPADONE

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