

  
RUBBER



*SPRINT / Technology Meets Success*

**RETREADING**

# RETRAXX

**“VMI supplies the retreading industry with quality extrusion solutions.**

**VMI developed the RETRAXX retreading system, to answer to our customers’ needs of the present and the future. The RETRAXX employs the renowned cushion gum extrusion-smearing technology. This technology is used by a majority of bus- and truck tire retreaders in the USA and Europe.**

Although based on the continuing development of the AZ Extrusion heritage, RETRAXX is a true VMI product. Incorporating the commitment to innovation and automation that you would expect from any technology carrying the VMI name, it enables you to further automate your retread process.

The modular design of machines enables customers to choose between three extruder capacities. This allows the customer freedom to choose a specific output, depending on the number of tires which need to be produced and the method of tread application. Tread application can be done fully automatic or manually on the RETRAXX or on a separate machine.



## PRODUCT HIGHLIGHTS:

- Uniform filling by extrusion-smearing technology
- Save cushion gum costs by using single size feed strip
- Lower labor costs through automatic skive filling
- Option: Manual builder with automatic stitching

### UNIFORM FILLING BY EXTRUSION-SMEARING TECHNOLOGY

The extrusion-smearing technology applies the cushion gum and simultaneously fills up skive holes.

### SAVE CUSHION GUM COSTS BY USING SINGLE SIZE FEED STRIP

Calendered sheet cushion gum is more expensive to produce than strip cushion gum. Also there is no need to have various sheet widths on shelf as any width can be produced by the extruder head.

### LOWER LABOR COSTS THROUGH AUTOMATIC SKIVE FILLING

An operator does not have to manually fill the skives or buzz-outs of a buffed tire before the cushion gum is applied on the casing.

### OPTION: MANUAL BUILDER WITH AUTOMATIC STITCHING

Add a fixed stitcher with servo-driven wheel hub, which enables the RETRAXX to be used for manual tread application and automatic stitching.



# RETRAXX WITH BUILDER

**VMI took automation in retreading to the next level with a new concept for an automatic builder. The RETRAXX with automatic builder and stitcher uses cushion gum extrusion-smearing technology and automatically applies the tread to buffed tire casings. This new tread applicator is especially designed to deliver the highest quality and highest productivity.**

The RETRAXX with builder features automatic alignment of the tread on the casing which gives a high accuracy. The builder balanced stretching provides a perfectly matching splice. This innovation in automation improves the quality of your retreaded tire. The tread tension is optimally distributed around the tire.

The RETRAXX with automatic builder is available for all of our three extruder capacities.

## **USER-FRIENDLY OPERATION AND EASY MAINTENANCE**

An easy set-up and a high automation of the retreading process make the RETRAXX with builder very user-friendly and minimizes operator involvement. In addition, the machine is easy to maintain.

## **AUTOMATIC ALIGNING AND TREAD LENGTH MEASUREMENT**

The RETRAXX measures the length and thickness of the tread and automatically centers the tread. This automatic alignment of the tread on the casing provides a high accuracy. Because of this process the splice of each retreaded tire is very precise.

## **EVEN TREAD STRETCHING FOR PRECISE SPLICE MATCHING**

The precision of the splice matching process is further enhanced through the stretching technology of the RETRAXX with builder. This is highly controlled to ensure an even stretch and tension of the tread.



### **PRODUCT HIGHLIGHTS:**

- User-friendly operation and easy maintenance
- Automatic aligning and tread length measurement
- Even tread stretching for precise splice matching



The machine cycle time varies depending on the tire size. As an indication for the output range, the number of tires that can be produced per 8-hour shift are:

Type	Cushion gum only	Manual tread application	Fully automatic tread application
RETRAXX 3003	85 to 120	60 to 90	75 to 110
RETRAXX 6005	135 to 180	80 to 110	110 to 135
RETRAXX 6011	190 to 240	96 to 120	135 to 155



## VMI Services

# “Getting the best out of your VMI solutions.”

In all of VMI’s industries, technological advances never stop. But the one constant is our total commitment to providing proven, reliable equipment, services and solutions. VMI Services ensures you not only have the best equipment available, but that it continues to be the best solution.

The VMI Services organization works closely with you to determine your maintenance maturity and requirements. With regular equipment check-ups and recommendations or for complete services packages that include overhauls, upgrades, training and more, our aim is to always optimize the performance of your equipment with predictable cost. Our advisors work together with you to create a tailor-made VMI maintenance support program to bring continuous improvements to your process.

One of the key differentiators in tire- and rubber production is Total Cost of Ownership (TCO) of the equipment. To keep TCO as low as possible, special attention in the design process has been given to the tooling, spare parts usage and maintenance of the machine.

Just a phone call away, we are here to help 24 hours a day, 7 days a week, to guarantee a rapid on-site response when you need it most.





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