

# REVOLUTE

## **AUTOMATIC BEAD APEX ASSEMBLY SYSTEM**

VMI's next revolution redefines the process for bead apex production.

**The VMI Revolute automatic bead apex assembly system, designed to complement VMI's existing bead apexing solution, speeds production time per item (almost double that of the next best performing VMI system) and reaches new levels of performance in other ways (higher apex than any other on the market, greater variety of compounds), but its main advantage is the use of automation.**

Change-over times are shortened, with much less operator intervention and greater use of recipe-driven methods. Waste is reduced, quality is more consistent and processes are made more efficient. Resulting in increased productivity and flexibility as well as improved competitiveness.



#### **OPTIMIZED AUTOMATION**

All size and parameter changes are recipe-driven, with tooling changes high speed and fully automated, reducing downtime and the need for manual intervention. Featuring VMI's MAXX technology, the Revolute enables a complete hands-off, eyes-off process. Revolute furthermore incorporates quality monitoring systems to reduce quality problems downstream in the tire building process.

#### **IMPROVED BEAD APEX QUALITY**

A different application method assures a consistently higher output quality. The full control over both the leading and trailing end during application, results in an improved splice quality.

#### **INCREASED FLEXIBILITY**

With Revolute a wider range of compounds can be used, that are too difficult to handle in traditional machines, giving you more design options and possibilities to improve bead apex quality. Furthermore, the Revolute can handle apex heights up to 80 mm which no other machine available can.

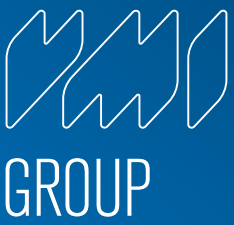
#### **ENHANCED SUSTAINABLE PERFORMANCE**

The Revolute uses a vertical drum, instead of a flat drum, removing the need to cut a triangular piece of material, considerably reducing scrap. Its power usage is greatly decreased, as Revolute's single high-volume extruder works continuously, with no energy wasted on starting and stopping, resulting in higher efficiency and lower emissions. A wider range of compounds can be used, leading to tires with better environmental characteristic, while the entire process is more sustainable than before.



#### **PRODUCT HIGHLIGHTS:**

- Optimized automation
- Improved bead apex quality
- Increased flexibility
- Enhanced sustainability performance



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