

New machinery

tire
technology
EXPO 2014
EXHIBITOR

A fully automatic bias cutter and splicer line, as well as a modular machine for making air springs, are just two of the new pieces of machinery available from Intereuropea

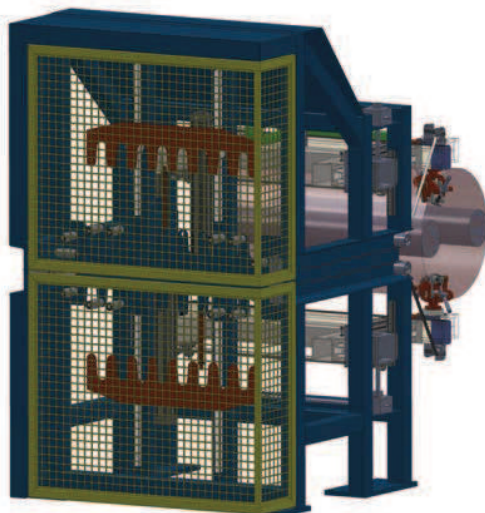
To celebrate its 10th anniversary, Intereuropea Srl has unveiled several innovative machines for the tire and rubber industry.

The first is a fully automatic bias cutter and splicer line, with a range of 40-90°, for rubberized textile plies. Said to be unique, this automatic splicing system with a wide angle-adjustment range was developed by the firm from its previous experience in the design and manufacture of fully automatic cutting lines and TBM servicers.

The line can deliver up to 15 splices per minute in fully automatic mode, and it can be supplied with the optional slitter line for further strip cutting and winding. Intereuropea is now taking orders for the manufacture of these lines from leading tire companies.

The second new development is in the company's already well-established 13-20in bead apexing lines, for extrusion and application of the apex on the beads for PCR and light truck (LT) tires. Now there is an option of integration of a multi-axis robot for bead loading/unloading, which allows the line to work in fully automatic mode, with the possibility of having just one operator for three machines. Furthermore, additional automation for size changes depending on requirements is now available, as well as the flexibility to produce small amounts of beads according to customers' production needs. The output of the production line is around 8,000 beads per day.

In Intereuropea's tire building machine (TBM) portfolio, the company



Above and below: Intereuropea's FlexE system for the production of air springs

continues to optimize its machines for increased performance, reliability and reduced cycle time. With recent upgrades and new technical solutions, the Intereuropea 1st and 2nd stage TBMs for PCR & LT tires have achieved an unprecedented level of performance with full automation, allowing the customer to achieve high levels of tire assembly precision and quality, combined with cycle times as low as 40 seconds per tire.

In its air spring machinery portfolio, the company has developed a unique technology – called FlexE – for modular manufacturing of air springs with direct

extrusion of the components on the building drums. This highly innovative process has never previously been used for the production of air springs. Its key components have been successfully tested by the company in manual mode in real production conditions. Now, Intereuropea is proceeding to the next stage of development and testing of the fully automatic system. This new process offers a number of advantages over the standard manufacturing process used in existing factories as there is no need to buy and install expensive calender and extrusion lines; there is no need for bobbins and semi-component handling and storage; and the system has a high level of flexibility, with the capability to change recipes online without ever stopping the machine.

This system is particularly interesting for those manufacturers that haven't yet invested in expensive calender and extrusion lines, and are planning to expand their production in a modular and flexible way. The total area of the air spring assembly module is only around 100m². Components are extruded and rubberized directly in the machine with the following strip winding/strip application on the drums.

Visit Intereuropea at Stand 5020 at Tire Technology Expo 2014 in Cologne, Germany. **tire**

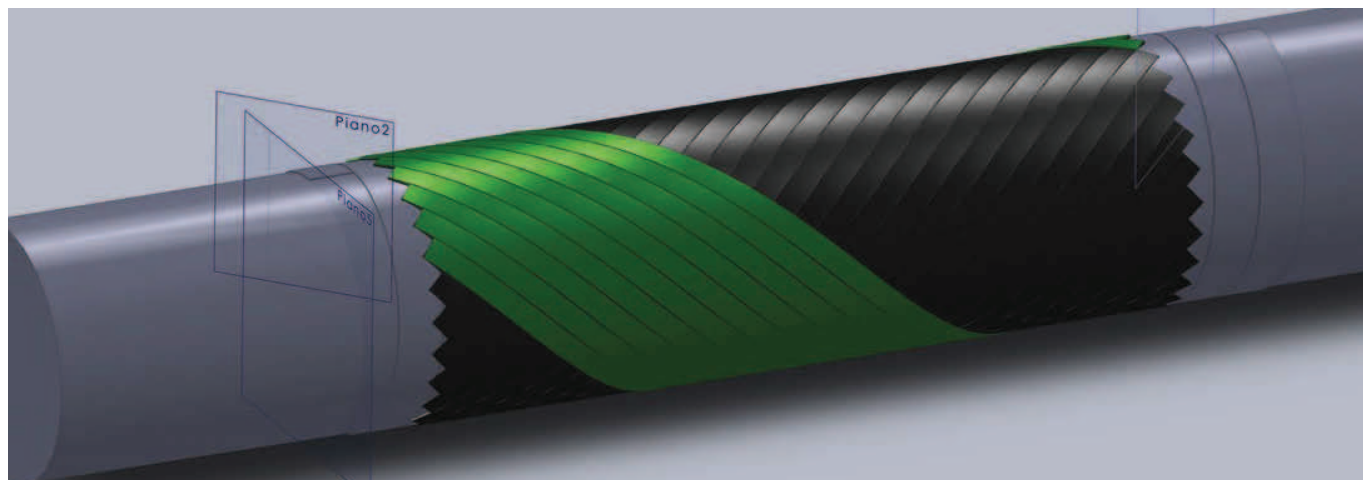
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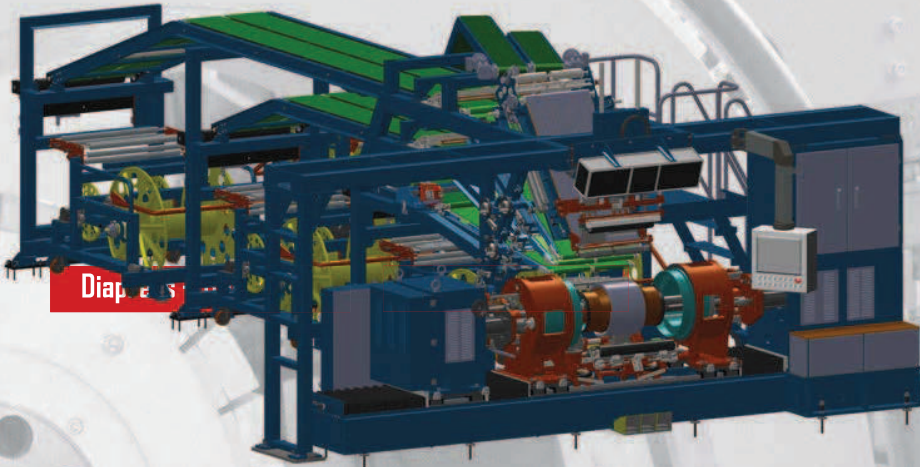
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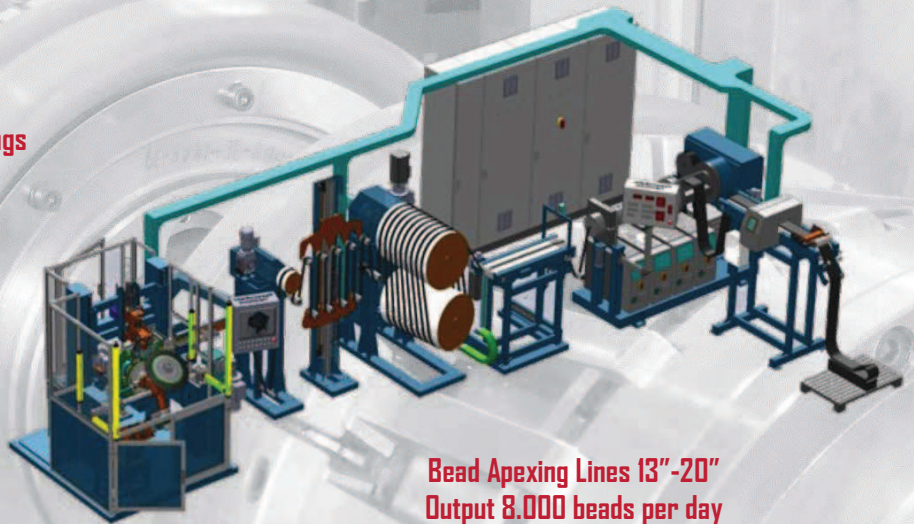


10 years anniversary

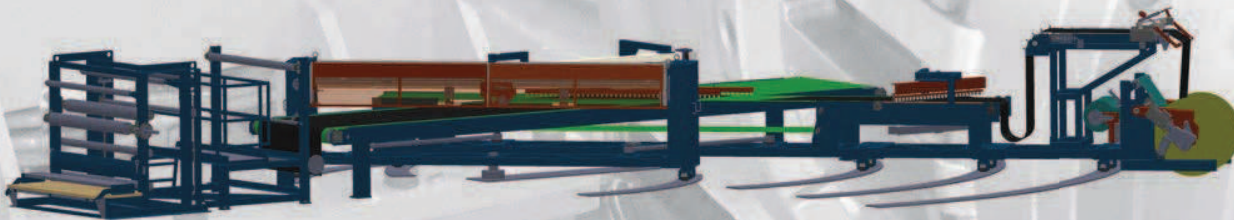


Automatic Tire Building Machines
Output over 1.000 tires per day

- Tire Building Machines for PCR / LT / Truck tyres
- Full range of machinery for production of Air-Springs
- Servicers, Drums, Bladders and tooling for TBM
- Apex Extrusion & Automatic Application Lines
- Bead Winding Lines
- Cutter & Splicer Lines for fabric and steel cord ply
- Extrusion lines for Sidewalls and Tread
- Innerliner Calender Lines
- Green Tyre Painting Machines
- Stand-alone Let-off and Wind-up stations
- Testing equipment
- Upgrade & Modernization of existing machinery



Bead Apexing Lines 13"-20"
Output 8.000 beads per day



Automatic Textile Bias Cutter & Splicer Line 40°- 90°
Output up to 15 splices per minute in automatic mode
with optional Slitter unit for strips winding

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