

# Production machinery

A modular approach to slitter rewinders and spooling machines offers tire manufacturers flexibility when customizing a reliable production line for a range of tire building applications

**I**nvolvement in the tire industry since 1965, and with machines delivered all over the world, Spooler Group and its well-known Calemar converting machinery division is now recognized by the major tire manufacturers as a leading expert in reliable slitter rewinders and spooling machines, producing technology that addresses the slitting needs of passenger, light truck or high-speed tire plants.

Thanks to its experience in machine manufacturing and a close relationship with tire manufacturers, the French company has a comprehensive understanding of the global tire manufacturing process. "This major advantage enables Calemar to offer a full range of reliable and adaptable equipment to cover the whole scope of products from pure gum to steel reinforced bias products and through standard cap ply/cap strips or chafer/angled corded products (textile or aramid)" says Christian Montusclat, Calemar sales director.

All Calemar equipment consists of three modules – for unwinding, slitting and rewinding. This modular concept makes it possible to customize and adapt each machine to specific customer needs. The company offers an integrated and/or separated unwinder for big mother rolls with various options such as loading assistance, liner rewinding, 'free-loop-type' tension unwinder for fragile products without liners, cantilevered shafts, or shaftless unwinders.

An expert in slitting technologies, Calemar has developed different cutting technologies adapted to each product type. To ensure flexibility, all machines can be fitted with up to four different cutting systems depending on the products to be cut: crush, shear, fixed razor blades, and the well-known



and patented floating razor blade system to guarantee the strip strength.

As a process expert, Calemar can help tire manufacturers to improve and increase productivity as well as quality. To match its customers' needs for productivity increases, the company has been working on two development axes: an in-line continuous process, and loading/conveying/unloading solutions and accessories to ease (and even remove the need for) certain operator tasks. The company, based in France, also offers in-line spooling solutions and non-stop turret winders for continuous processes. In addition, the company has recently commissioned a continuous in-line slitting and winding gum strip after-extrusion line. "We have enjoyed another success in finalizing the commissioning of another gum tape line," explains Montusclat.

**Above:** Handling solutions integrated with Calemar's converting equipment

**Below:** The company's Aquila spooling line installed at a factory

For easy handling solutions, Calemar has just registered a patent for its UniShaft, a multiroll handling solution to bypass the unloading and reloading operations between the wide slitters and the spooling lines.

"This new development – and the satisfaction of our first customer using this line – creates opportunities for semi or full automation on existing lines equipped, or soon to be equipped, with our UniShaft," Montusclat adds.

The French company has also commissioned various solutions to load mother rolls, unload finished pads or spools, and to transfer bobbins between different machines. These solutions are available with, for example, simple carriage, robot or complete structures.

"Whether semi-automatic or fully automatic, the solutions developed are always customized and adapted to customers' specific needs and workshop constraints," Montusclat says.

Finally, Calemar offers numerous systems to simplify cutting width changes, but also complete cutting blocks or cassettes. "Our background in the tire industry and our customers' trust, enables us to carry out all kinds of projects, even the most audacious ones, and to engineer technologically and economical adapted solutions," Montusclat concludes, **tire**

**FREE READER INQUIRY SERVICE 007**

To learn more about Spooler Group, visit: [www.ukimediaevents.com/info/ttrm](http://www.ukimediaevents.com/info/ttrm)



# More than a Simple Machine Manufacturer, CALEMARD® is a Process Expert!

## Unmatched expertise

### Core business

Complementary range of **off-line** slitters rewinders and spooling lines

**In-line** spooling line and turret winder

### Solid experience

Machine manufacturer for more than **60 years!**

Equipment in production **worldwide**



## Productivity booster

### Process expert

Different cutting technologies available (crush, shear, razor blades)

Quick slitting width adjustment system, cutting cassette, Multi-rolls handling system...

Semi-automatic or fully automatic loading/unloading/conveying solutions



## Strong commitment

### Structured organisation

All in-house organisation for turnkey solutions

### Research & Development

a strong R&D policy to further develop more productive solutions

### Test room

to validate with you technical solutions on specific materials



**tire**  
technology  
EXPO 2019

Let us control your tension and engineer  
your customized solution!

Meet us

T. +33 477 900 034  
calemard@spoolex.com  
[www.calemard.com](http://www.calemard.com)

