

CALEMARD

by Spoolex

In-line & off-line winding expert since 1955!



Booth 9017
Hall 21

tire
technology
EXPO 2020

Unmatched expertise

We offer a complementary range of **off-line** slitters, rewinders and spooling lines, but also **in-line** spooling lines and turret winders.

For **65 years** now Calemard has been engineering and manufacturing reliable and versatile converting machines and put in production almost 2 000 equipment **worldwide!**

Adaptability

Our process expertise allows us to adapt and design machines depending on specific needs and space constraints. Thus Calemard offers, integrated or separate unwinder, different cutting technologies (crush, shear, floating or fixed razor blades), but also quick and fully automated slitting width adjustment system, cutting cassette...

Calemard 4.0

Strong R&D policy drives us to further develop more productive solutions. Our dedicated team engineers semi-automatic or fully automatic systems for loading, conveying, handling and unloading operations, such as our latest Aquirion® and Unishaft® solutions developed to avoid handling for operators...

**Let us control your tension and engineer
your customized solution!**



www.calemard.com

Web converting

This complete line of equipment covers all slitting needs in the production of passenger, light truck and high-speed tires, and has been continuously improved over more than six decades of operation

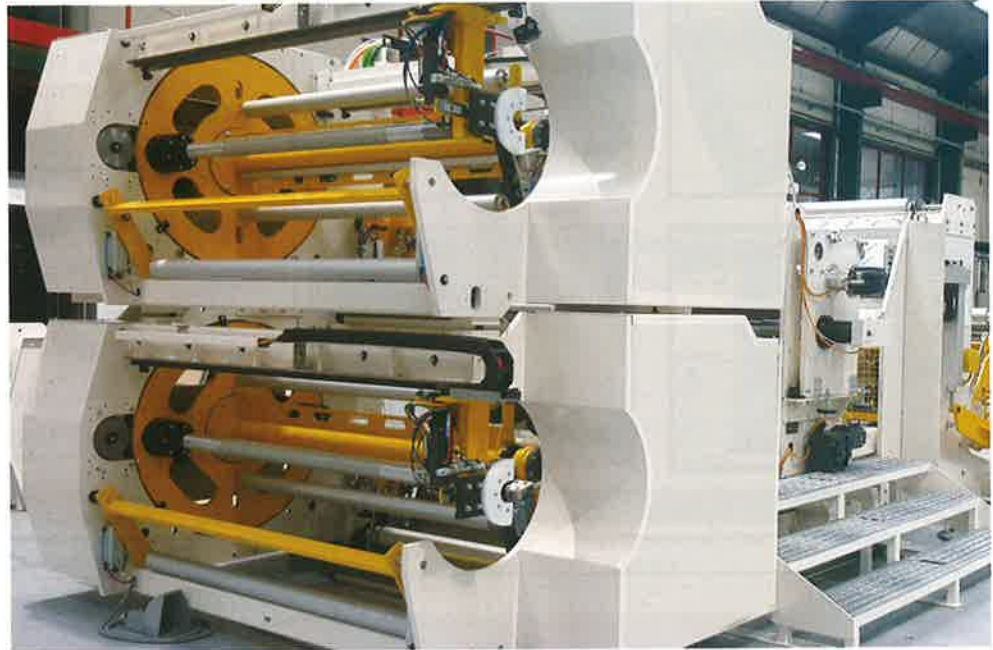
Involvement in the tire industry for several decades now, Spoolex and its well-known Calemarid converting machinery division offer efficient converting equipment and components that address rubber web converting constraints. Since 1955, Spoolex has been providing productive and reliable converting equipment and services for passenger, light truck and high-speed tire plants with its Calemarid brand. Thanks to its extensive experience in machine manufacturing and a close relationship with the tire manufacturers, the French company has a complex understanding of the global tire manufacturing process.

Today, with almost 240 large slitter-rewinders and 2,500 spooling heads in production worldwide, the Calemarid portfolio includes a full range of reliable and adaptable equipment to cover the full 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).

Recently, Calemarid has also been improving its in-line solution and its loading/conveying/unloading solutions to meet the new requirements of the market. As a process expert, Calemarid believes it holds all the cards with its range of slitter-rewinders and spooling machines to help tire manufacturers indirectly improve their performance, reduce waste, and increase productivity and roll winding quality.

"Last year, we commissioned a gum tape line – our patented continuous solution for in-line slitting and winding gum strips after an extrusion line," reveals Christian Montusclat, Calemarid sales manager. "We also developed a patented solution for in-line spooling."

Thus, complementing its standard product offering of off-line slitter-rewinders and spooling lines, the company offers non-stop and reliable



Above: Non-stop turret winder for in-line slitting and winding of gum strips after extrusion

Below left: The well-known Calemarid Aguila G spooling line is in production at locations around the world

solutions that enable continuous production of pads or spools with in-line, fully automated winding operations, without a reduction in line speed.

In terms of handling solutions, the French company has commissioned various systems – to load mother rolls, to unload finished pads or spools, and also to transfer bobbins between different machines – with simple carriage structures, robots and with a complete structure. For some months now, Calemarid's R&D teams have also been working on a solution to streamline handling within large tire slitter-rewinder and spooling machines. "Our engineers have developed a patented device, which consists of a solution able to wind up a product on a slitter-rewinder, such as our Orion G, and then unwind these bobbins on a narrow slitting and spooling line, such as the Aquila G, with no handling required by operators," says Montusclat.

Thanks to Calemarid's patented solutions, the unloading and reloading operations between the wide slitters and the spooling lines are eliminated, creating opportunities for semi or full automation on existing lines or new lines. Aquirion, the fully automatic solution, was successfully put into production early this year.

Based on a modular design, Calemarid's equipment consists of three modules for unwinding, slitting and rewinding. This concept enables customization and adaptation of each machine. The supplier offers an integrated and/or separate unwinder for large mother rolls with various options such as loading assistance, liner rewinding, 'free loop type' tension unwinder for very fragile products without liner, cantilevered shafts, or a shaftless unwinder.

As an expert in slitting technologies, Calemarid has developed different cutting technologies adapted to each product type. Moreover, to ensure flexibility, all machines can be fitted with different cutting devices/methods (crush, shear, fixed and floating razor blades), quick and fully automated slitting width adjustment, or cutting cassette.

"Whether it is semi-automatic or fully automatic," Montusclat adds, "our solutions are always customized and configured to a customer's needs and workshop constraints."

Visit Spoolex at Tire Technology Expo 2020 (Booth 9017). **tire**

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