



TF | STM | TCA | BBOX

The Evolution of Performance in Converting





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Bimec's **FUTURA** line redefines the standards of excellence in slitting and rewinding. The result of 50 years of experience and a constant drive for innovation, FUTURA includes the TF single face slitter rewinder, the STM Duplex Slitter Rewinder and the TCA and BBOX Duplex Turret Slitter Rewinders, as well as special slitters designed to meet specific customer's needs.

Innovative design, interactive robustness

The FUTURA range stands out for its renewed design that integrates structural robustness and advanced interactivity.

This combination creates an intuitive, efficient and ergonomic working environment, focused on process optimization and operator comfort.



Concrete benefits for your business

- **Operational efficiency:** the intuitive user interfaces and advanced features simplify work, reducing set-up and production times.
- **Error minimization:** integrated control systems and ergonomic design help reduce the risk of human error.
- **Maximum productivity:** the robustness and reliability of FUTURA systems ensure a drastic reduction in machine downtime, maximising operational continuity.
- **Customized solutions:** from standard configurations to special systems, the FUTURA line offers the necessary flexibility to adapt to different production needs.

Higher Performance

FUTURA slitters rewinders redefine industry standards by integrating state-of-the-art design, intuitive interaction and structural sturdiness, they provide operators with enhanced work experience and production with real competitive advantages.

1. SMART ERGONOMICS

A work place especially conceived for effectiveness and handiness. Advanced modularity and component standardization of the FUTURA series increase operator confidence to the utmost, by simplifying use and maintenance of the various machines in the range.



FAST AND PRECISE
SET-UP



FAST START-UP



OPTIMAL PERFORMANCE

2. ADVANCED INTERACTIVITY

User-friendly guidance, guaranteed accuracy.

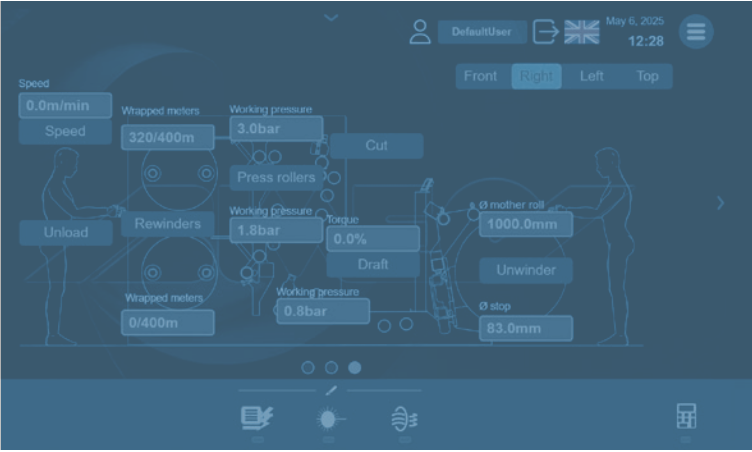
FUTURA introduces a cutting-edge operator interface, designed to minimize human error and optimize workflow. The operator is constantly supported by innovative features:

- **Interactive synoptic:** clear visualization of the material path with integrated tutorials for setup and maintenance.
- **Guided emergency recovery:** step-by-step procedures for quick and safe management of stops.
- **Real-time monitoring:** production data instantly accessible on the main screen for constant control.
- **Advanced operational modes:** “Automatic” and “Semi-automatic” to maximize efficiency and reduce manual intervention.
- **Digital control panel:** modern and intuitive interface with digitalized buttons.
- **“One-Push” reel unloading:** simplification and speed-up of the unloading process.
- **Cyber Security Ready:** advanced data and system protection.
- **AI Ready:** prearrangement for integration of data analytics modules, value added through Artificial Intelligence.

3. STRUCTURAL ROBUSTNESS

Lasting reliability, high performance.

The reinforced structure of the FUTURA line provides greater load capacity and exceptional durability of the system, to ensure a long-term investment with constant performance over time.



TF SERIES

Compactness and performance without compromises

Its innovative single-faced design integrates unwinding and winding on one side, handling rolls up to 1 meter in diameter in unwinding and 600 mm in winding with minimal footprint.

The TF combines the ergonomics of frontal machines with the high performance of top-of-the-range slitters, providing:

- **Maximum space optimization:**
ideal for production environments with limited areas.
- **Easy to use and maintain:**
intuitive access to all components.
- **High productivity:**
high-level performance in a compact format.
- **Flexible integration:**
set up for addition of inspection systems, perforation units and other systems.

Technical data

Materials
Plastics, papers, laminates

Material thickness
12 - 300 µm (other available on request)

Material widths
1050 · 1350 · 1650 mm
(other available on request)

Parent roll diameters
1.000 mm

Finished roll diameters
max. 600 mm

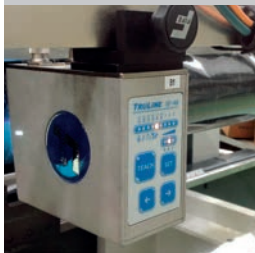
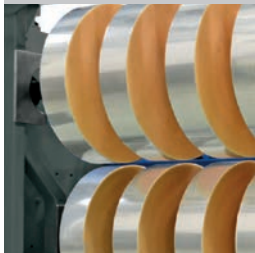
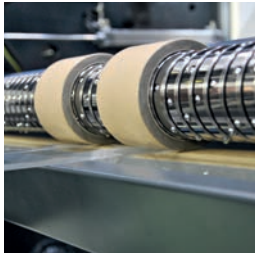
Finished roll weights
max. 700 kg (distributed to both axles)

Slitting systems
Razor blades · Mechanical Shear Knives
Pneumatic Knives · B-Knife

Slitting widths
≥ 20 mm

Winding cores
70 mm · 3" · 6" (other available on request)

Machine speed
max. 800 m/min





STM MODEL

Versatility and flexibility with respect to the operator.

The STM duplex slitters rewinders provide a wide range of slitting and winding solutions, ensuring higher operative flexibility.

Their ergonomic and modular design dynamically adapts to the operator's needs, providing:

- **Configuration versatility:** available in different versions to meet specific production and logistics needs.
- **High equipment flexibility:** adaptability to a wide range of materials and processes.
- **Modular and ergonomic design:** possibility to equip the system with different accessories.
- **Customized solutions:** capacity to meet the most varied and demanding customer requirements.

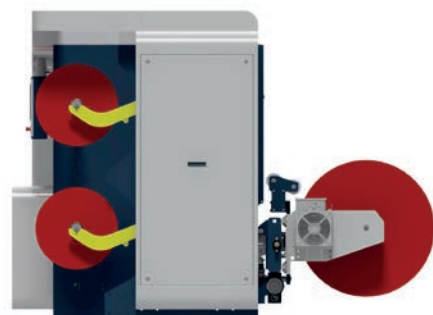
Technical data

Materials Plastics, papers, laminates
Material thickness 12 - 300 µm (other available on request)
Material widths 1050 · 1350 · 1650 · 1850 mm (other available on request)
Parent roll diameters 1.000/1.200 mm (other available on request)
Finished roll diameters STM60 max. 610 mm STM80 max. 800 mm
Finished roll weights max. 900 kg (distributed to both axles)
Slitting systems Razor blades · Mechanical Shear Knives Pneumatic Knives · B-Knife
Slitting widths ≥ 20 mm
Winding cores 70 mm · 3" · 6" (other available on request)
Machine speed max. 800 m/min



**B**

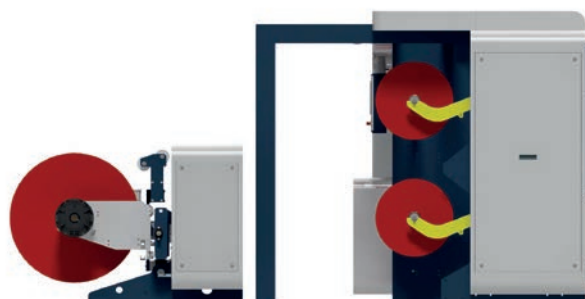
Web passage under running board:
independent unwind stand

**C**

Compact version

**D**

Overhead web path:
rewind on the opposite side of unwind

**E**

Overhead web path:
rewind under the bridge

**C+**

Web passage under running board:
semi-independent unwind stand

From compact to fully independent unwind stands, focus on:

- **Less than 20 m² of needed space**
- **More versatility**
- **More ergonomics**
- Seamless integration with advanced technologies for optimized production efficiency



TCA MODEL

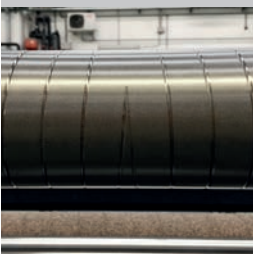
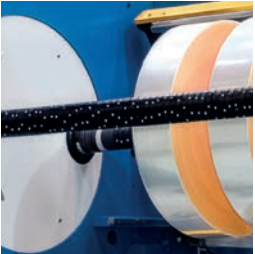
Maximum productivity thanks to advanced automation

The TCA Duplex Turret slitter rewinders are designed to significantly increase your business productivity. Thanks to their add-on equipment and **changeover of less than 30 seconds**, they guarantee:

- **High performance and speed:** rapid and continuous working cycles.
- **Advanced automation:** reduction of downtimes and minimization of operator's interventions.
- **Substantial increase in productivity:** maximization of output and workflows.
- **Operational efficiency:** reduction of costs and optimization of resources.

Technical data

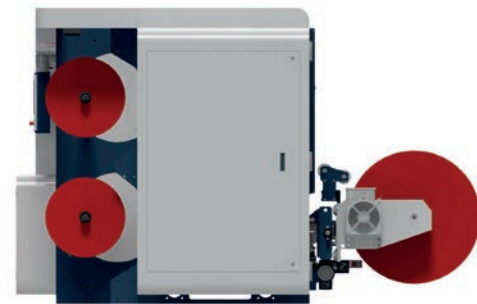
Materials
Plastics, papers, laminates
Material thickness
12 - 300 µm (other available on request)
Material widths
1050 · 1350 · 1650 · 1850 mm (other available on request)
Parent roll diameters
1.000/1.200 mm (other available on request)
Finished roll diameters
TCA60 max. 610 mm TCA80 max. 800 mm
Finished roll weights
TCA60 max. 680 kg (distributed to both axles) TCA80 max. 800 kg (distributed to both axles)
Slitting systems
Razor blades · Mechanical Shear Knives Pneumatic Knives · B-Knife
Slitting widths
≥ 20 mm
Winding cores
70 mm · 3" · 6" (other available on request)
Machine speed
max. 800 m/min



Customizable configurations



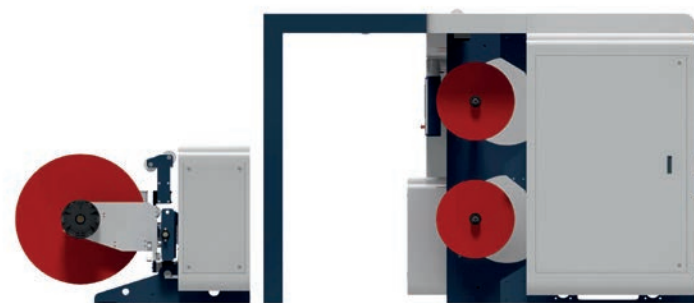
B
Web passage under running board:
independent unwind stand



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Overhead web path:
rewind on the opposite side of unwind



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BBOX Model

The evolution of automation in the Slitters

The evolution of automation in the BBOX Slitter represents the new generation of Duplex Turret Slitter Rewinders with automatic changeover, evolution of the TCA64E model.

It integrates **fully automatic systems and servo-assistance solutions** such as:

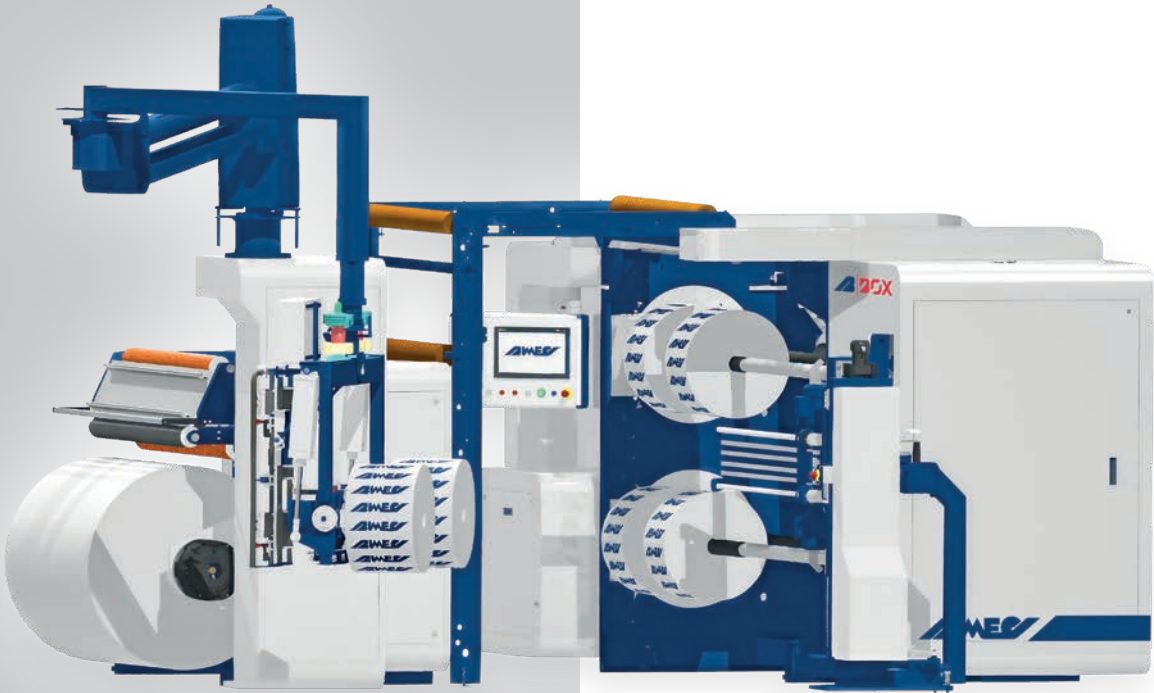
- Automatic cores loading
- Automatic cores positioning
- Zero gravity double manipulator
- Different systems for sealing finished reels and automatic restart

These automation features allow to:

- Minimize operator intervention thanks to more efficient workflows
- Increase productivity by a drastic reduction in downtimes
- Offer flexibility, ergonomics and easy of use, thanks to the optimal configuration of the slitter that allows the operator to control the various machine's operations from a single position with reduced footprint.

Technical data

Materials
Plastics, papers, laminates
Material thickness
12 - 350 µm (other available on request)
Material widths
1350 · 1650 · 1850 mm (other available on request)
Parent roll diameters
1.200 mm (other available on request)
Finished roll diameters
max. 610 mm (800 mm available on request)
Finished roll weights
max. 800 kg (distributed to both axles)
Slitting systems
Razor blades · Mechanical Shear Knives Pneumatic Knives · B-Knife
Slitting widths
≥ 20 mm
Winding cores
70 mm · 3" · 6" (other available on request)
Machine speed
max. 800 m/min



CUSTOM SLITTER REWINDERS

Well Beyond the Standard.

Drawing on its proven and long-established expertise and highly skilled team of engineers, Bimec is the most reliable partner for design and development of special slitters rewinders.

Bimec puts its expertise to create high-end engineering solutions, to satisfy the most complex requirements, such as:

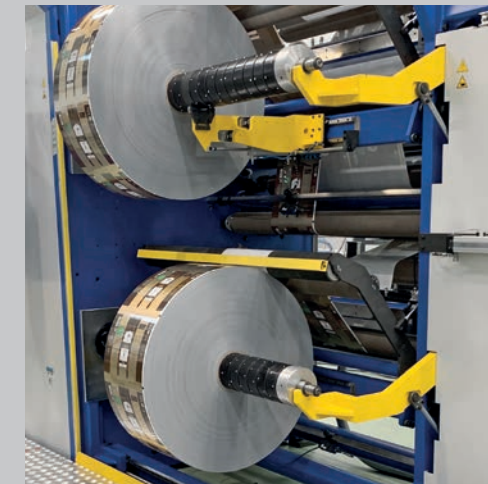
- **Special materials and applications:** dedicated solutions for applications other than flexible packaging.
- **Material widths higher than 1800 mm:** machines specifically designed to handle large-format reels, while ensuring accuracy.
- **Winding reels with higher diameters than 800 mm:** sturdy and high-performing systems for wide-size winding up.

A collaborative approach for customized solutions

Each special project arises from a **direct and proactive collaboration with the customer.**

The unique combination of **engineering skills, innovative design capabilities** and **constant technological update** makes Bimec the ideal partner for those not only looking for reliable standard machines, but also for **advanced and completely customized technical solutions.**

The new Futura range fully embodies the concepts of **flexibility and advanced engineering** to ensure **versatility and high performance** even in the most challenging applications.



OPTIONS AVAILABLE



| KNIFE

Advanced mechanical technology for outstanding versatility

The Futura range features an exclusive innovation by Bimec: the **B-KNIFE** slitting system, a unique solution on the market designed to elevate slitting performance.

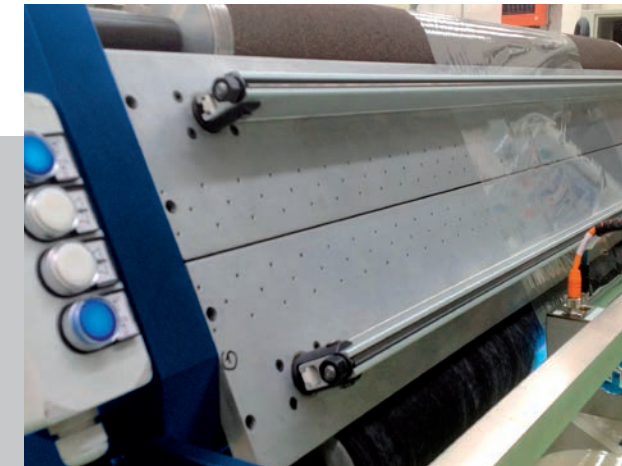
This fully mechanical slitting system offers unique advantages which translate into tangible benefits for every production:

- **Wide range of applications:** it handles an even greater variety of materials.
- **Set-up versatility:** intuitive depth adjustment and cutting angle to easily fit any material.
- **Integrated automatic positioning:** maximum precision and reduced set-up time due to automatic blade positioning capability.
- **Total exchangeability:** quick and easy switching between shear or razor cutting (in air or in groove).
- **Optimized minimum slitting:** ability to perform slits up to 20 mm, ensuring accuracy even on small formats.

Advanced ancillary equipment and systems to achieve the best outcome.

The Futura range involves a wide range of ancillary equipment and systems, provided as an option and designed for further improvement of effectiveness, accuracy and ergonomics of the rewinding process:

- **SPLICING BOARD (STM and TCA models):** it simplifies and refines splicing operation; it ensures a practical, accurate and safe material joint (under vacuum option available)
- **AUTOMATIC UNLOAD SYSTEM:** reels are ejected by a simple push, and arms automatically rotated, for quick and easy removal with the following advantages:
 - **Higher effectiveness:** faster and longer working cycles.
 - **Reduced physical effort:** lighter and safer operator activities.
 - **Increased output:** optimized production times.





- **AUTOMATIC POSITIONING OF KNIVES AND CORES:** maximum accuracy and speed in the set-up of knives and cores on winding shafts, reducing potential errors and set-up times.
- **EASIER LOADING OF THE MOTHER ROLL:** the complete reel pick-up system from the ground, with independent arms for optimal control and facilitated self-centering, makes loading quick and safe.
- **AUTOMATIC TRANSVERSAL CUTTING (TF, TCA and BBOX models):** ensures clean and precise cutting, reducing material waste and ensuring high quality reels.
- **UNWINDING WEB GUIDING SYSTEM:** the automatic web guiding system monitors and corrects the alignment of the unwinding film through various edge, line or image reading technologies, ensuring perfect winding.

- **REWINDING SHAFTS:** Our differential air rewind shafts are equipped with rings up to minimum 20 mm width and designed to ensure an accurate and independent tension control for each reel in rewinding. This feature allows to handle optimally even different materials or reels with various tension requirements, ensuring compact and uniform rolls.



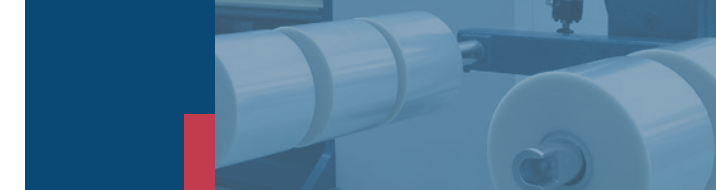
- **SLITTING SYSTEMS:** the configuration of the slitting unit can change according to the type of material to be processed. Several types of slitting modes are available, including:
 - **Razor blades:** ideal for precise cuts on thin films and delicate materials.
 - **Mechanical knives:** robust and reliable solution for a wide range of materials.
 - **B-KNIFE evolved independent mechanical knives:** offer greater flexibility in slitting materials with different tensions or thicknesses.
 - **Pneumatic knives:** ensure a clean and precise cut, with the possibility of pressure adjustment for different materials.

The positioning of the slitting units can vary according to precision and usage requirements:

- **Manual:** simple and intuitive positioning.
- **Assisted by laser pointer:** precise visual guidance for accurate positioning.
- **Automatic:** quick and accurate positioning



- **UNWINDING TENSION CONTROL:** we ensure precise and stable control of the unwinding material by dancer roller through advanced solutions:
 - **Pneumatic braking systems:** provide reliable and adjustable braking for a wide range of materials.
 - **Motorized braking systems:** ensure constant and precise tension of material, in closed loop with electronic feedback.





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