

MORE THAN FINISHING

**ACelli**  
FINISHING & REPROCESSING LINES

**F-LINE**®





FINISHING & REPROCESSING LINES



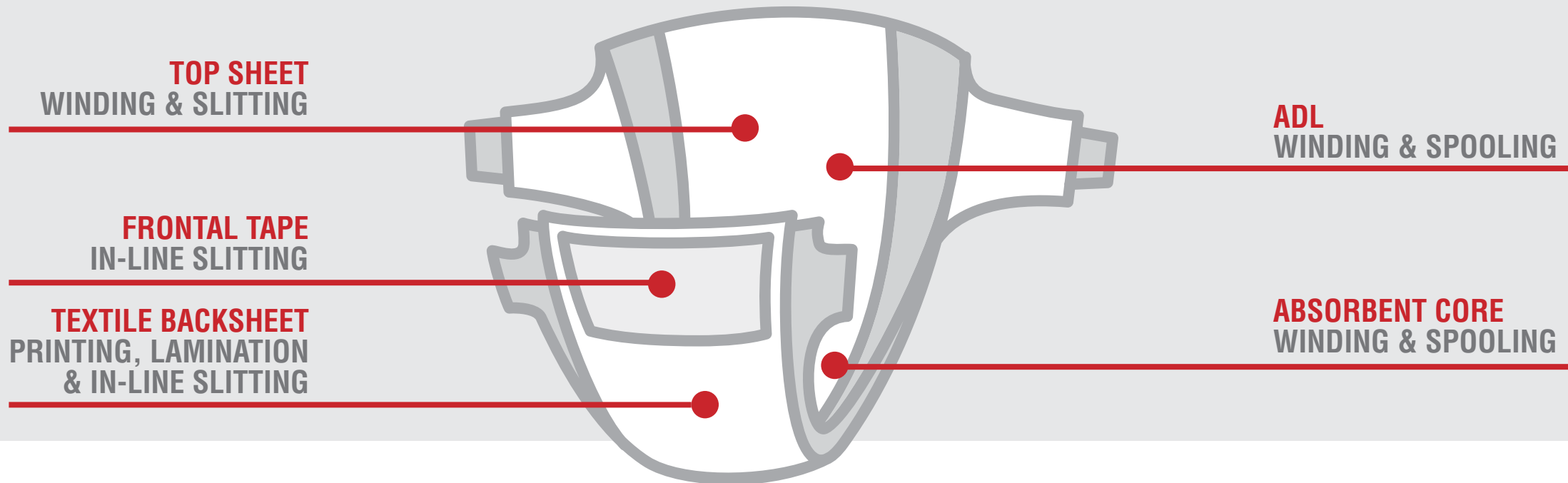
lamination



medical



spooling

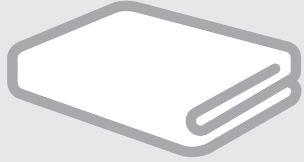


your **turn-key** partner for finishing and reprocessing

A.Celli Nonwovens machines and technology are used everyday for the production of commodities and goods for the absorbent hygiene market.

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**INDUSTRIAL &  
PERSONAL CARE**

WIPES WINDING  
& SLITTING



**FLUSHABLE  
WIPES**

WINDING  
& SLITTING



**MEDICAL  
APPLICATIONS**

TURN-KEY  
TREATMENT LINES



**FILTRATION  
PRODUCTS**

WINDING  
& SLITTING



**PROTECTIVE  
CLOTHINGS**

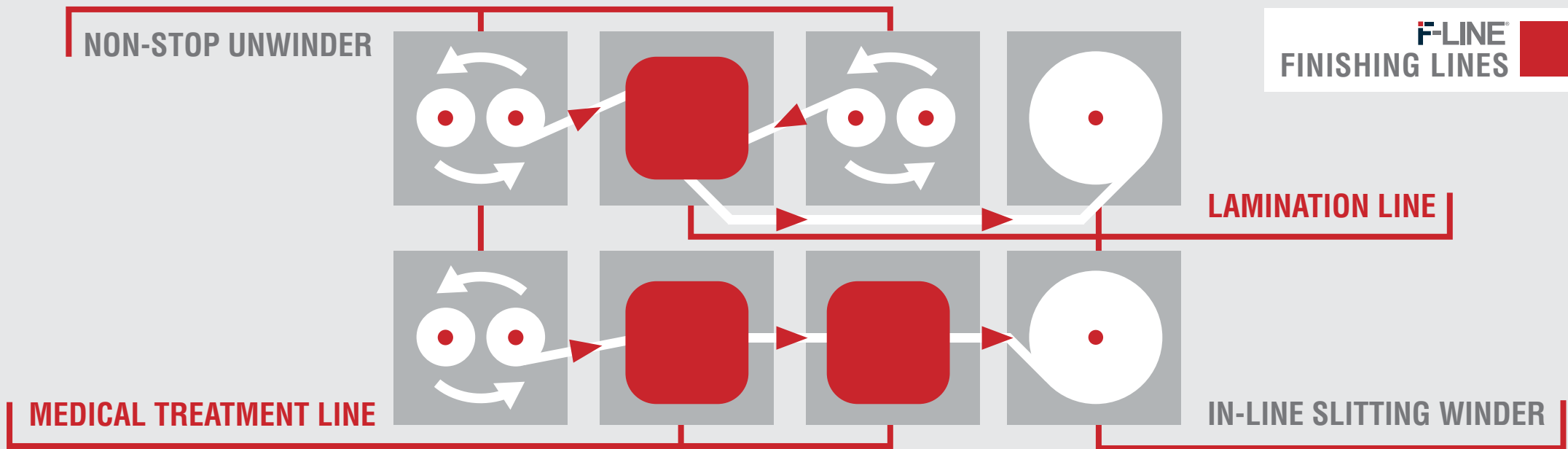
WINDING  
& SLITTING

increase fabric **value** created upstream

- industrial and personal care wipes market
- medical, protective clothing and filtration market

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# lamination and medical treatment lines overview

**1** NON-STOP UNWINDER

**2** IN-LINE SLITTING WINDER

**3** LAMINATION LINE

**4** MEDICAL TREATMENT LINE

# 1 NON-STOP UNWINDER



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## production line-up **NON-STOP UNWINDER**

automatic high reliability non-stop or stop&go axial unwinder designed to process a wide range of different webs

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1

NON-STOP  
UNWINDER

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## non-stop shaftless **unwind** stand

- max. web width 3.600 mm
- max. operating speed 400 or 800 m/min
- max. master roll Ø 1.500 mm
- core Ø 3" / 6" / 6 ¾" (special Ø on request)
- unwind. & splicing direction clockwise & counter-clockwise





# specifications

- automatic/manual roll change
- automatic tension control
- full speed flying splice (non-stop version)
- shafted & shaftless configuration
- turret or cantilevered design



## 2 IN-LINE SLITTING WINDER

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EMERGENCY STOP

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production line-up  
**IN-LINE SLITTING WINDER**

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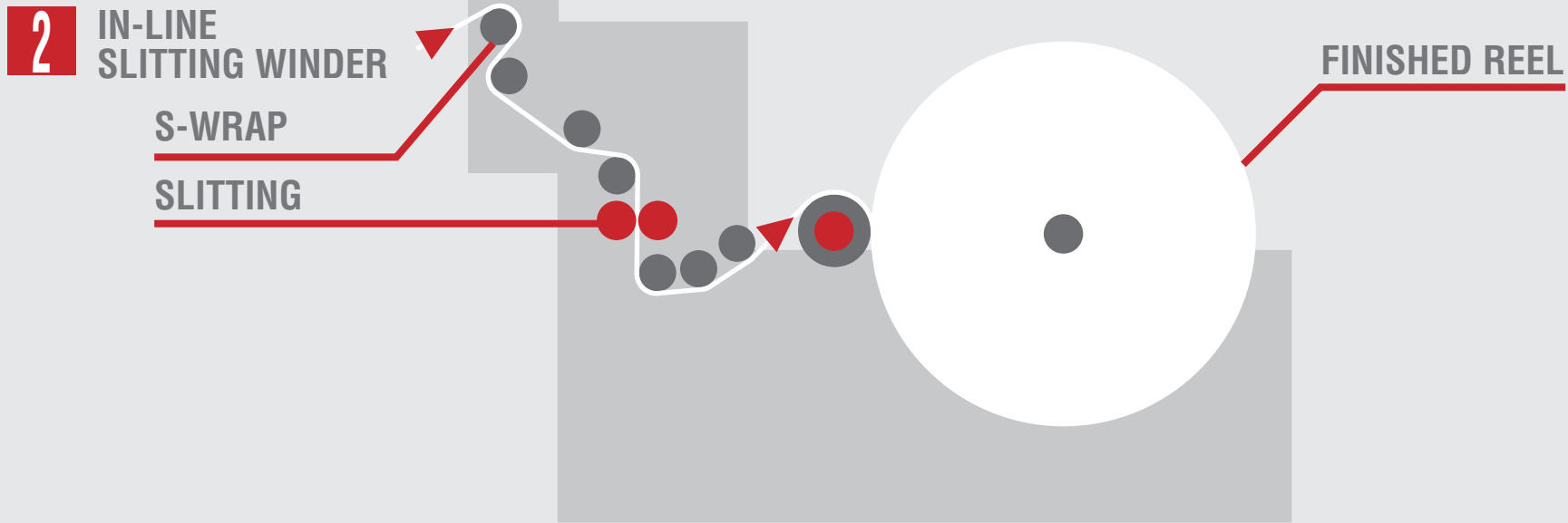
## 2 IN-LINE SLITTING WINDER

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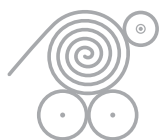


- max. web width 3600 mm
- max. finished reel ø 1500 mm
- max. operating speed 400 or 800 m/min
- minimum slitting width 100 mm
- winding shaft ø 3"; 6"; 6¾"

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- surface driven design with high grip drum coating
- tension, nip and torque control with taper function
- bowed spreader rolls
- automatic roll doffing and cross cutting
- optional automatic slitting positioning system (Slittomatic)

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3

LAMINATION  
LINE

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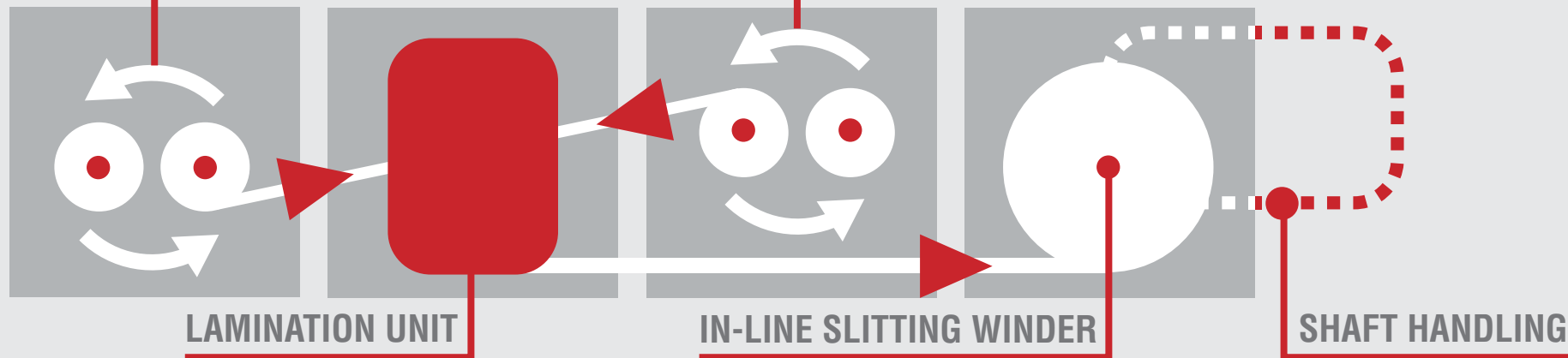
production line-up  
**LAMINATION LINE**

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### 3 LAMINATION LINE

SPUNBOND & FILM UNWINDERS

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 **flexible** and reliable line configuration

thanks to automatic mother rolls loading  
and shaft & core handling system, the lamination line  
is capable of granting a high level of productivity

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3

LAMINATION  
LINE

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## turn-key **high throughput** lamination line

- lamination layers 2 or more
- max. web width 3600 mm
- max. master roll ø 1500 mm
- max. finished reel ø 1500 mm
- max. operating speed 400 or 800 m/min

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4

MEDICAL  
TREATMENT LINE



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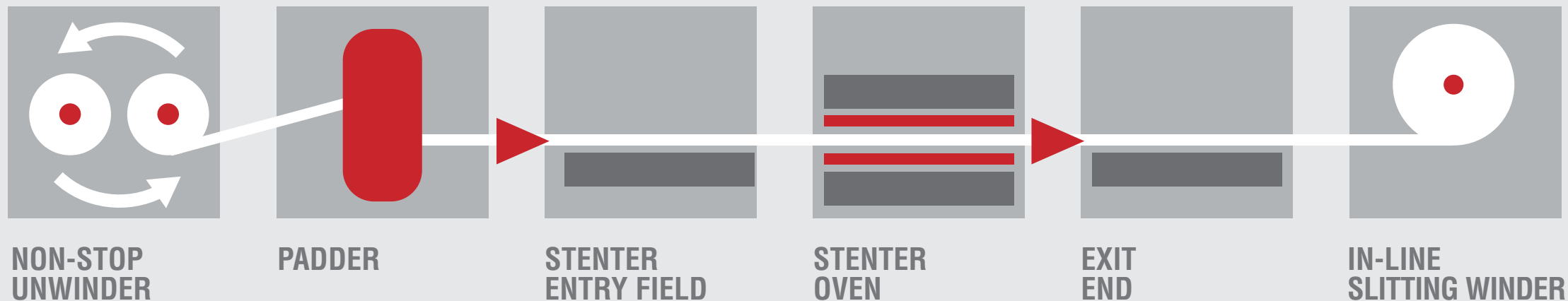
## production line-up **MEDICAL TREATMENT LINES**

A.Celli machines and technology are used for the medical and protective clothing market with complete turn-key solutions.

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## 4 MEDICAL TREATMENT LINE

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## layout for **medical** treatment line

- turn-key solution for unwinding, treatment and winding
- max. web width 3600 mm
- max. master roll  $\varnothing$  1500 mm
- max. finished reel  $\varnothing$  1500 mm
- max. operating speed 150 m/min

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4

MEDICAL  
TREATMENT LINE

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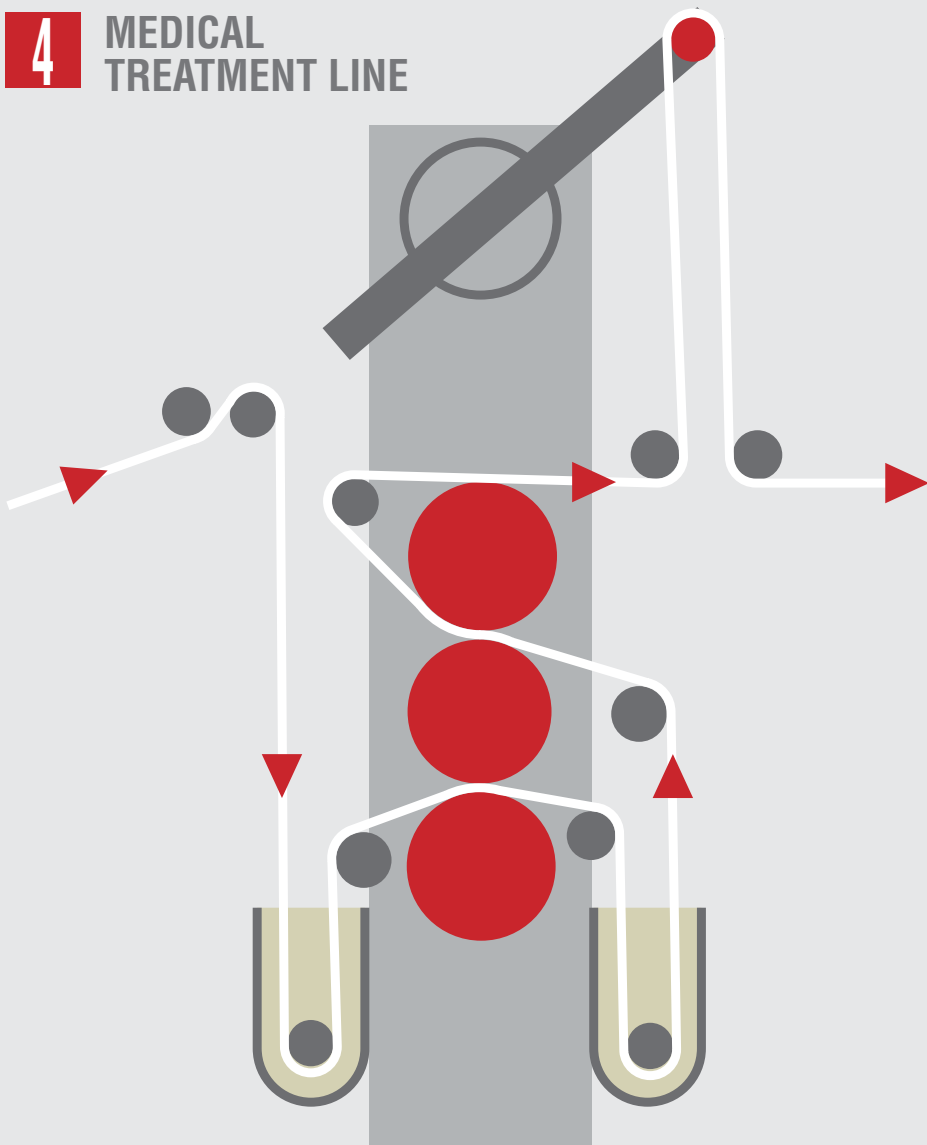


## low energy consumption oven

- pre-heating with infrared field
- roller bearing chain no lube type
- patented airflow pressure equalizer
- automatic control of exhaust and moisture

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#### 4 MEDICAL TREATMENT LINE



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### padder

- inlet frame for the padder with tensioning bars, idle rollers and one bow roller
- twice treatment baths or 2 different baths available
- independent pressure setting on the 2 squeezing units
- tanks for the supply of chemical products to the padder

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## stenter oven

- FPE - patented airflow pressure equalizer for an uniform airflow pressure over the web
- bypass and recycling of circulating air into the oven without direct air blowing on the fabric
- modular chambers drying/curing oven (3 m each) pre-assembled and wired for a quick installation

SPOOLING

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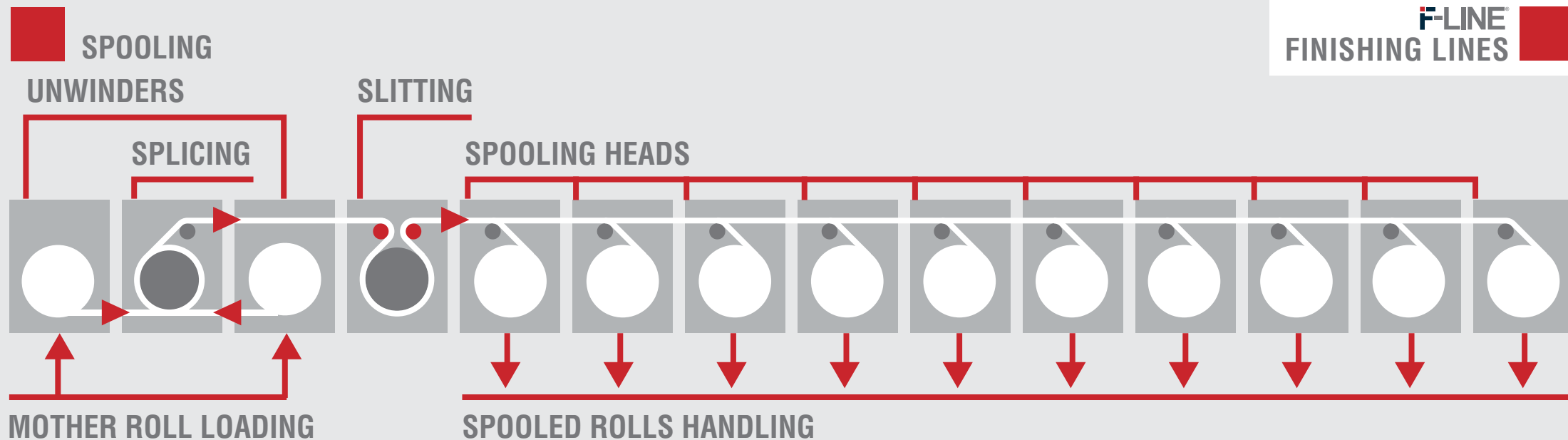


# production line-up **SPOOLING**

great flexibility and  
high throughput

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## spooling line layout

- products
- grammage
- operating speed
- spooling heads

PET, PE, PP, ATB  
15 - 200 g/sm  
up to 800 m/min  
up to 10 heads



SPOOLING


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## flexible design

- dual shafts unwind stand
- fully automatic master roll handling
- fully automatic finished reels handling
- thermal or ultrasonic splicing

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**SPOOLING**

**F-LINE<sup>®</sup>**  
**FINISHING LINES**

## specifications

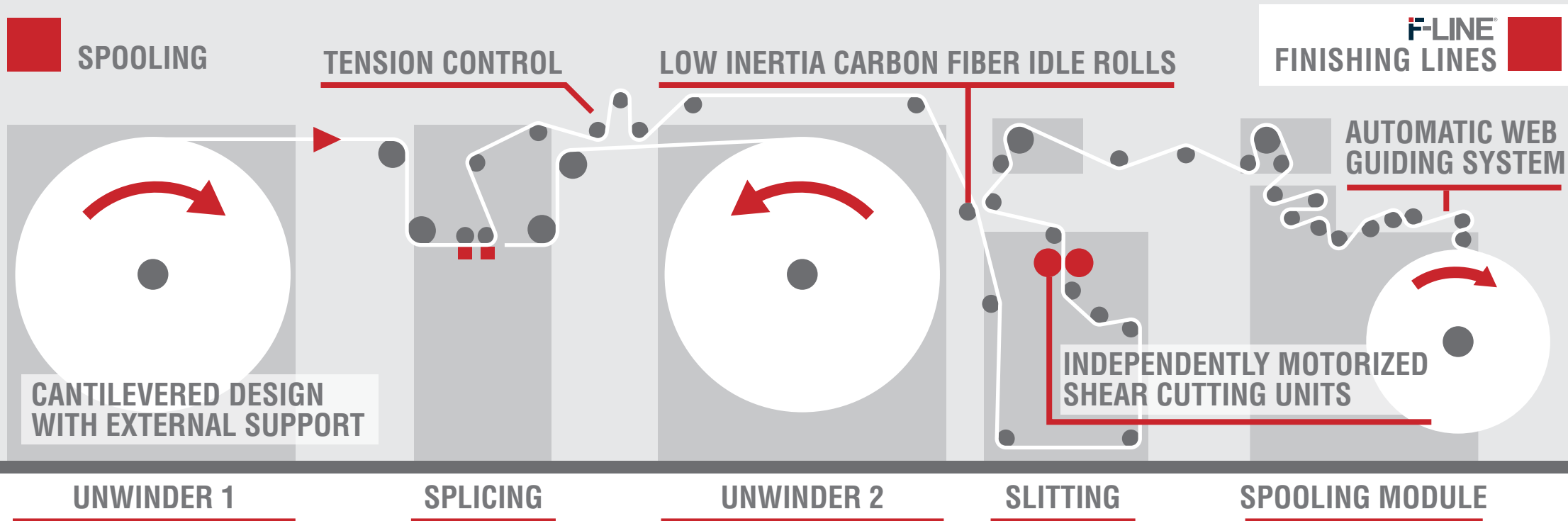
### **UNWINDING & SLITTING**

- master roll Ø up to 2.000 mm
- master roll width 350 - 1.200 mm
- slitting width 50 - 150 mm
- unwinding tension 10 - 150 N

### **SPOOLING HEADS**

- spools Ø up to 1.250 mm
- spools width 400 - 850 mm
- rewinding tension 3 - 15 N

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## unwinding and splicing station

- n° 2 motorized expandable shafts (CW and CCW unwinding)
- non-stop unwinding capability with accumulator (optional)
- ultrasonic splicing with automatic web alignment system
- work surface for splicing with manual sonotrode (optional)



A long, industrial spooling machine with multiple modules, each featuring a heavy-duty mechanical design and a pulling unit with tension control. The machine is white with orange accents and is set in a large industrial hall.

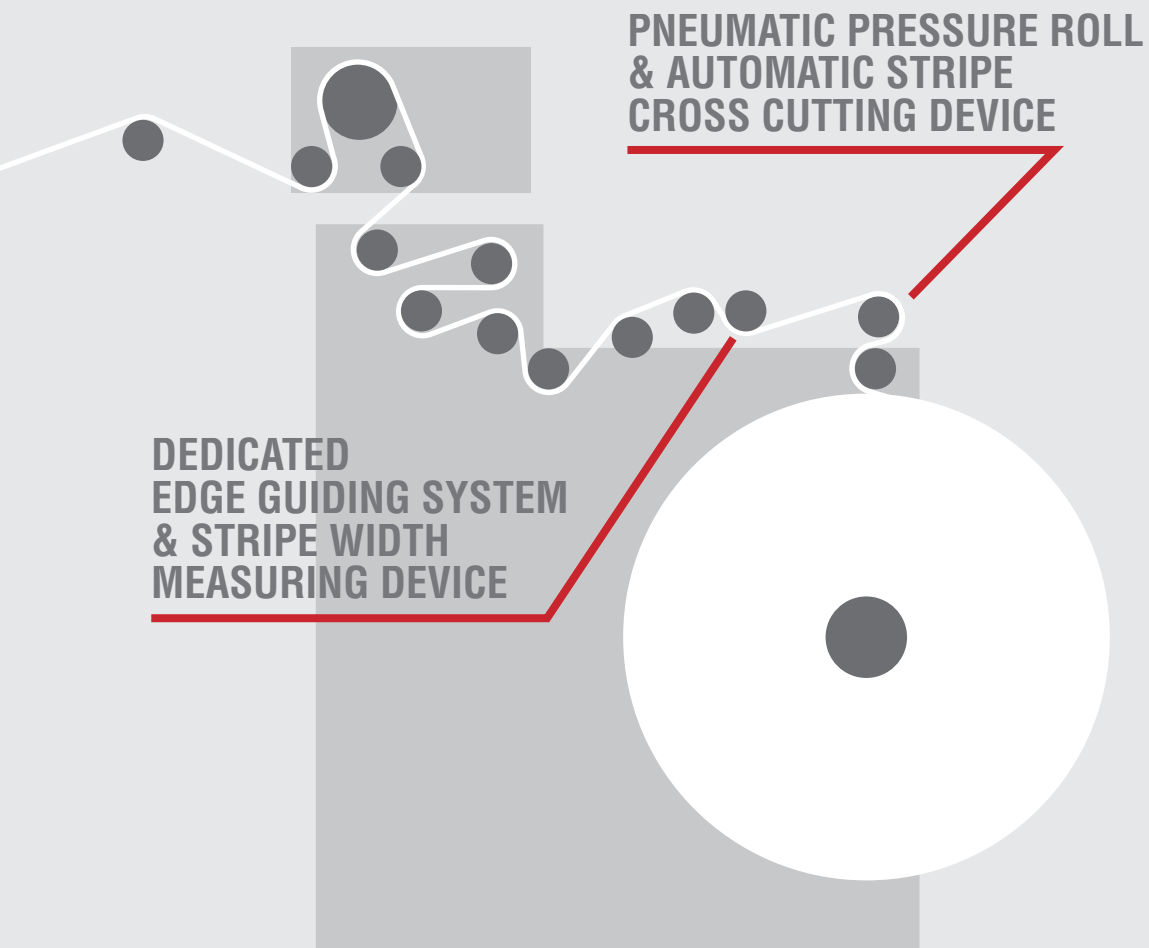
SPPOOLING

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FINISHING LINES

## spooling modules

- each spooling unit is characterized by a heavy duty mechanical design
- pulling unit with tension control & automatic line-up system

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## spooling modules

The spooling modules are controlled with servomotors for the “omega” wrap system, for the axial winding and for the spooling traverse movement.

The design is based on linear bearings and linear guides protected against dust accumulation.



A yellow ACelli robotic arm is shown in a factory setting, positioned to load a large, light blue roll of material. The arm has the ACelli logo on its side. In the background, there are industrial structures and other rolls of material.

SPPOOLING

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FINISHING LINES



line automation opportunities

- mother roll loading with automatic core center finding

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# for your most suitable line configuration

- automatic reel transfer
- sorting, labelling and bundling of finished reels
- reel and bundle weighing systems
- vertical or horizontal wrapping machines
- pallet application and secondary wrapping



**R-WAY®**  
INTEGRATED  
SOLUTIONS

Fully automatic  
and integrated  
packaging system

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# for your most suitable line configuration

- integrated data tracking system
- automatic solutions for reels and bundles handling
- storage with integrated warehouse control system
- automated guided vehicles AGV



**R-WAY®**  
INTEGRATED  
SOLUTIONS

Integrated end-of-line  
solutions for automated  
warehouse

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# more than service

A.Celli's Customer care provides high level post service.



**technical assistance**



**updates & retrofits**



**spare parts**



**maintenance**



**A.Celli academy**



**2CARE<sup>®</sup>**

**ALWAYS CARING  
EVERY DAY**

**ACelli**



our **value** innovates your world

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Tassignano (Lucca) Italy

Concord, North Carolina U.S.A.

Shanghai, China

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NONWOVENS



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WINDING TISSUE



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FOR YOUR ATTENTION

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**on a roll**

