

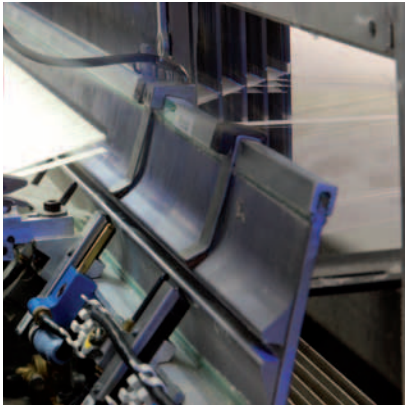


Get the most out of

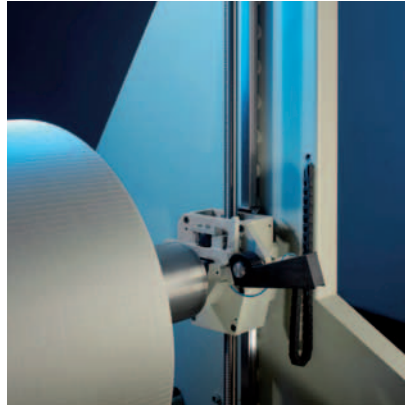
*weaving*

— **OMNI** *plus* **800TC**

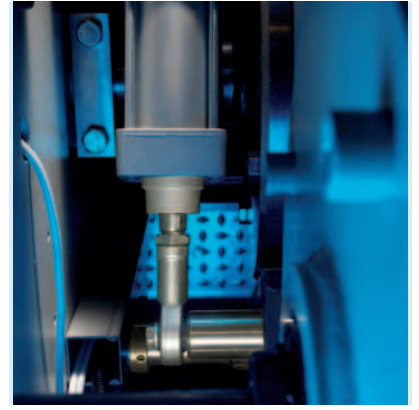
**PICANOL**  
YOU ARE ALWAYS AHEAD



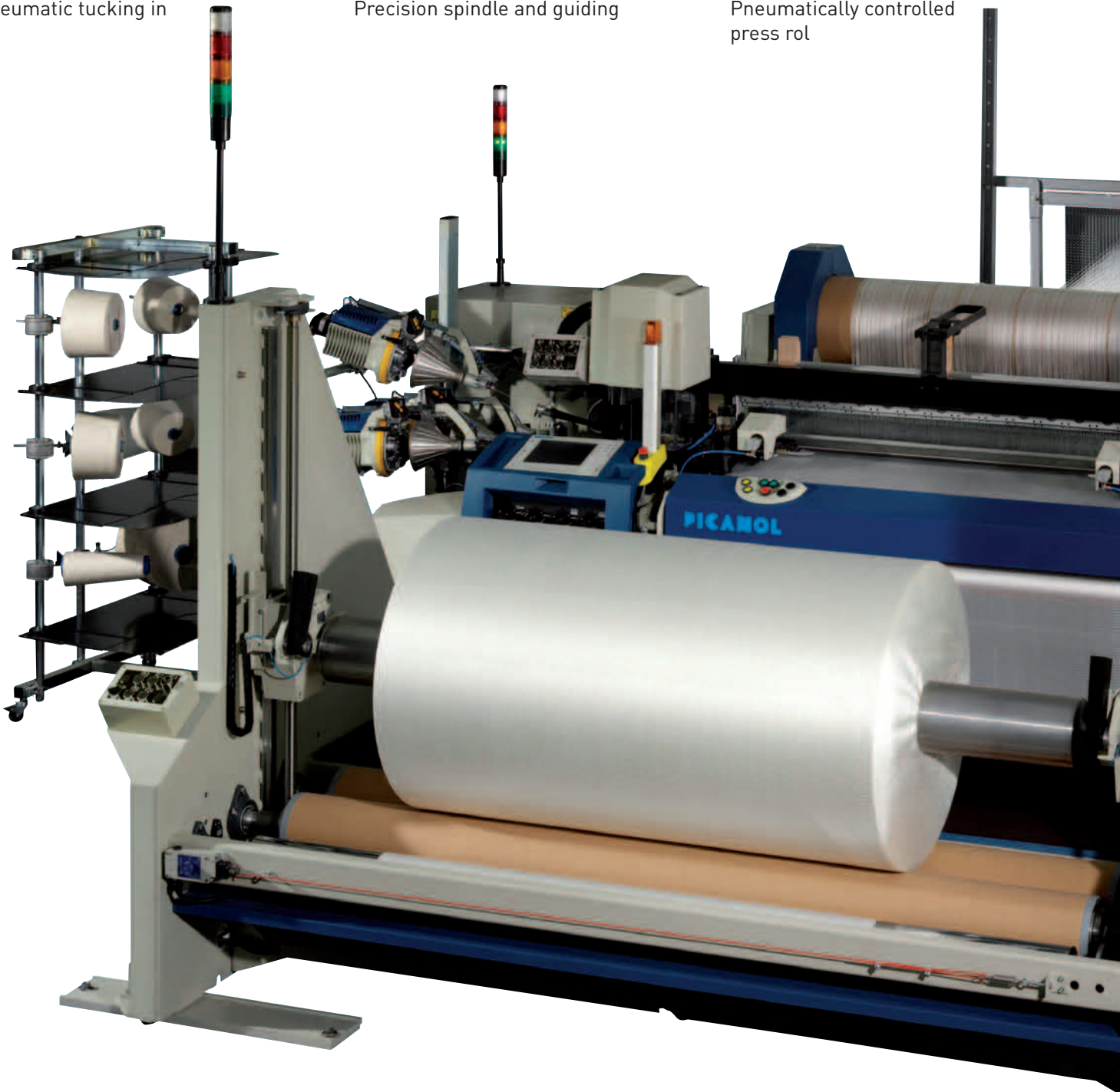
Pneumatic tucking in



Precision spindle and guiding



Pneumatically controlled press roll





## Get tuned for the future in tire cord weaving

Just-in-time requirements and cost reduction have become absolutely imperative in the tire cord weaving business. Margins for error are smaller than ever before. Operators are therefore looking for dependability and performance in their equipment.

The OMNI*plus* 800 TC weaving machine has an integrated design of mechanical and electronic components, engineered and produced at Picanol and based on its latest OMNI*plus* 800 airjet weaving technology.

OMNI*plus* 800 TC sets an example of ergonomics design. It is extremely easy to operate, has dedicated functionalities eliminating all possible errors, and requires only a very strict minimum of maintenance. The Sumo direct-drive technology in the weaving machine, drawing-in unit and batching motion make for very low power consumption.

In addition to in-house training, Picanol also offers training on a fully operational OMNI*plus* 800 TC machine in Belgium.

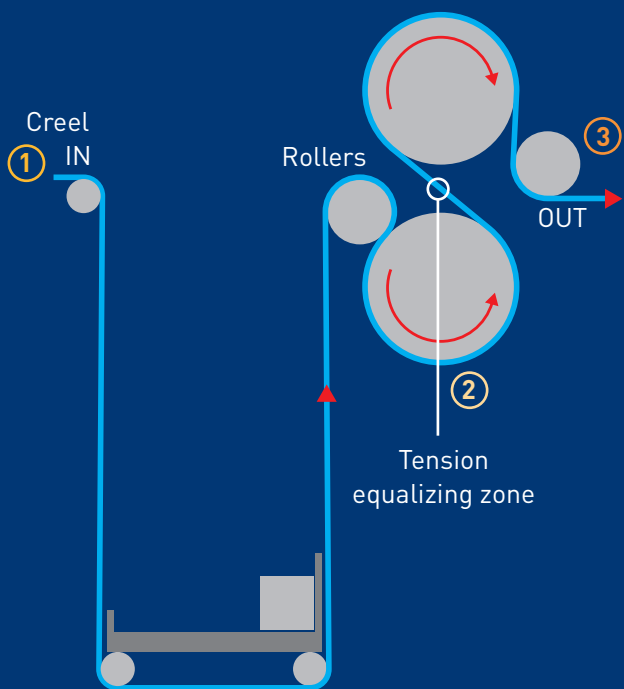


Expansion reed on yarn entry section

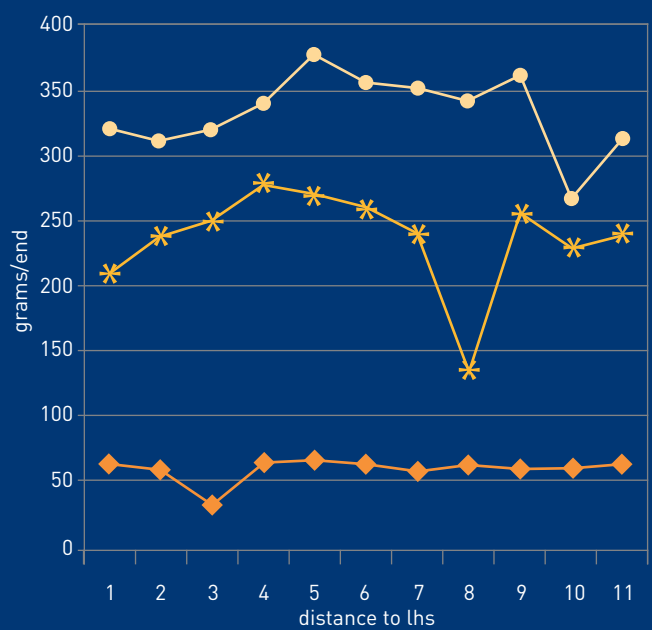


Air tuckers with continuous reeds

Double traction roll set-up in the drive section



Warp tension equalisation



- Tension between rollers
- \* Tension between creel and machine
- ◆ Final warp tension

# UNIQUE FEATURES FOR THE MOST PROFITABLE TIRE CORD WEAVING

## Ergonomic drawing-in unit: split in yarn entry section and drive section

Yarn-entry-section:

- Aligned compensator
- Lease rods
- Warp stop motion
- Expansion reed
- Weaver's platform

Double traction roll set-up in the drive section:

- More friction surface
- Better equalizing of yarn tensions (see graph)
- Cords are aligned absolutely parallel thanks to slightly different speed of the rollers
- Better ergonomics as operators can reach around each individual roller
- Optional pneumatically operated press roller
- New synthetic rubber covering for better performance and longer life-time

## Weight-compensated batching motion

- Precision spindles and guides for lifting
- Gear-driven: no chains are used, eliminating the need for maintenance
- Symmetric loading thanks to slides under the batching motion
- Precision measurements of the length of the clothroll

## Air tuckers with continuous reeds

- Maintenance-free air tuckers
- The continuous reeds allow faster width changes
- Selvage length adjustments without the need to change parts, 22-40 mm
- Possibility to weave "half-way" selvages

## Integrated design

- All parts are engineered and assembled within the Picanol Group
- Self-diagnostics on display
- The graphical display gives easy access to all settings
- Original spare parts remain available over time from one source

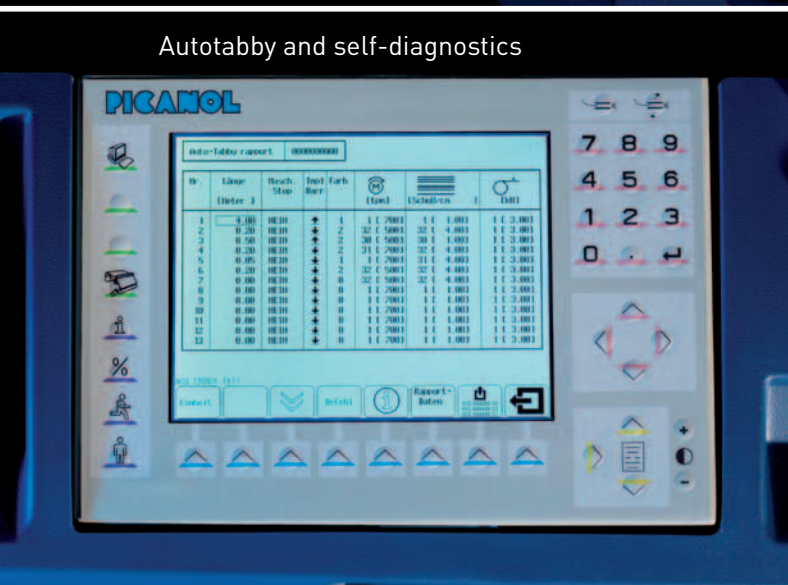




Double pressure rollers to avoid slippage of the fabric in the machine



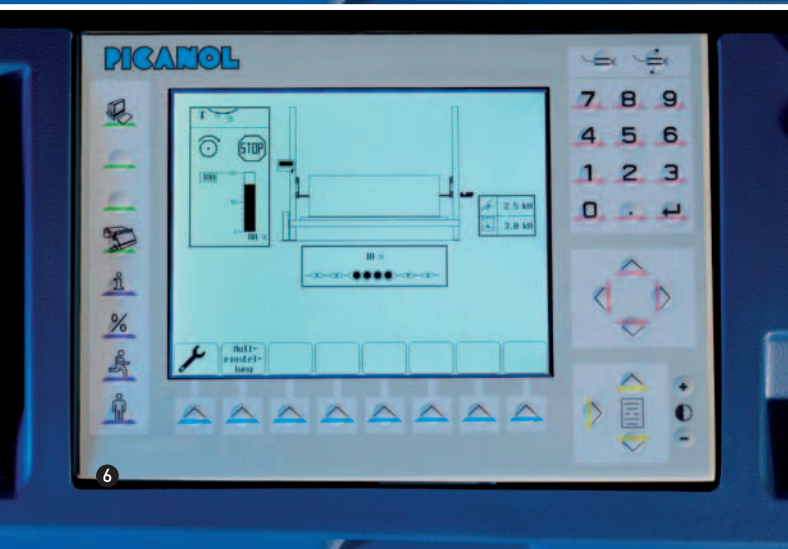
Control panel for power-doffing



Autotabby and self-diagnostics



Sumo motor in drive section



# TECHNICAL SPECIFICATIONS

## Standard equipment

### Widths

Nominal width: 1,900 mm  
Working width: 1,000 – 1,900 mm

### Insertion

Up to 3 colors  
Balloon breakers  
Programmable Filling Tensioner (PFT)

### Shed and selvage formation

Stäubli positive cam box 1670  
4 frames  
Optical selvage detector

### Control

Integrated design  
Autotabby  
Optispeed  
Self-diagnostics

### Tucking in with continuous reeds

#### *Air tucker*

Speed cord: 850 RPM  
Speed tabby: 500 RPM  
Minimum tuck length: 22 mm  
Maximum tuck length: 40 mm  
Reed used: cut to length

### Batching motion

Symmetric loading thanks to slides under the  
Batching Motion  
Power-assisted doffing  
Maximum diameter: 2,000 mm  
Maximum weight: 4,000 kg  
Weight compensation with precision guiding  
Precision length measurement

### Drawing-in device

Press roll controlled by pneumatic cylinder  
Synchronized compensator roll  
Expansion reed, weaver's platform, lease rods

### CE execution

## Options

### Control

Bi-directional communication with central  
computer

### Mechanical tuckers

Air tucker and mechanical tuckers are  
interchangeable  
Max speed mechanical 40 mm tuckers: 800 RPM

### Expansion reed

#### 4 colors

### Foot print

5,666 x 4,950 mm (drawing-in device, weaver's  
platform, weaving machine, batcher)



Picanol nv  
Karel Steverlyncklaan 15  
BE-8900 Ieper  
Belgium  
Tel. +32 57 222 111  
Fax +32 57 222 001  
[www.picanol.be](http://www.picanol.be)  
[info@picanol.be](mailto:info@picanol.be)

**PICANOL**  
YOU ARE ALWAYS AHEAD