

## Automatic 1<sup>st</sup> Stage TBM for PCR & LT tires

The Intereuropean 1<sup>st</sup> Stage & 2<sup>nd</sup> Stage TBMs provide a fully automatic solution for building high performance tyres with 2-stage technology.

The 1<sup>st</sup> Stage TBM is equipped with active guiding systems for all the rubber components, automatic cutting and application systems, finger ply down and bladder turn-up technology, advanced control and supervision system with touch screen computer interface and advanced receipt management and diagnostics.

The machine cycle time is as low as 45 sec per tire in fully automatic mode. The operator only check visually machine operation, unloads the finished carcasses from the drum at the end of each cycle and loads new beads into the machine.

Machine configuration can be adapted to any customer's specifications, including 1 or 2 plies, steel or textile chafers, sidewalls from independent spools or cassettes, strips preassembling etc.



Machine Body



Automatic Servicers

**INTEREUROPEAN S.r.l.**

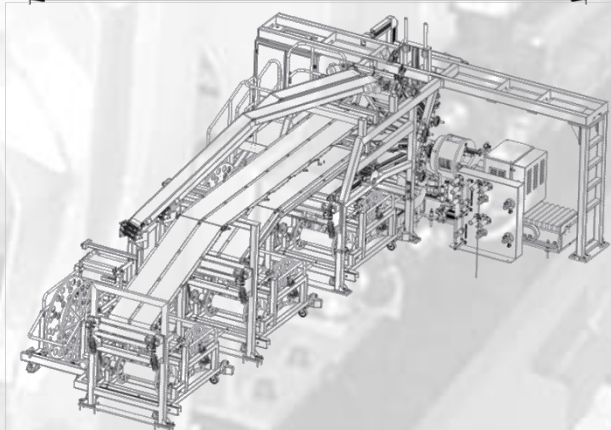
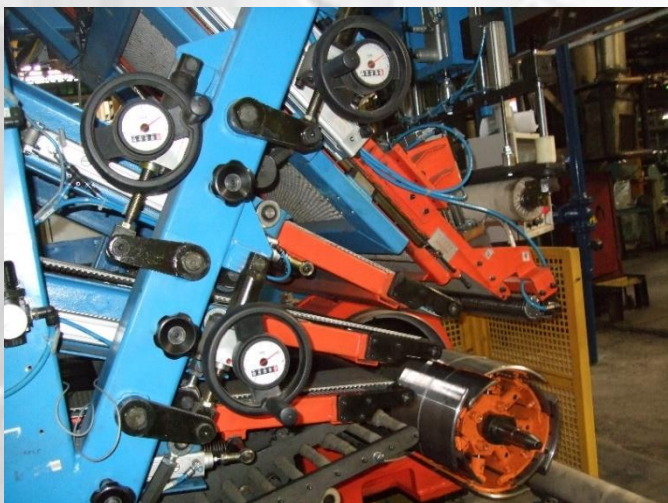
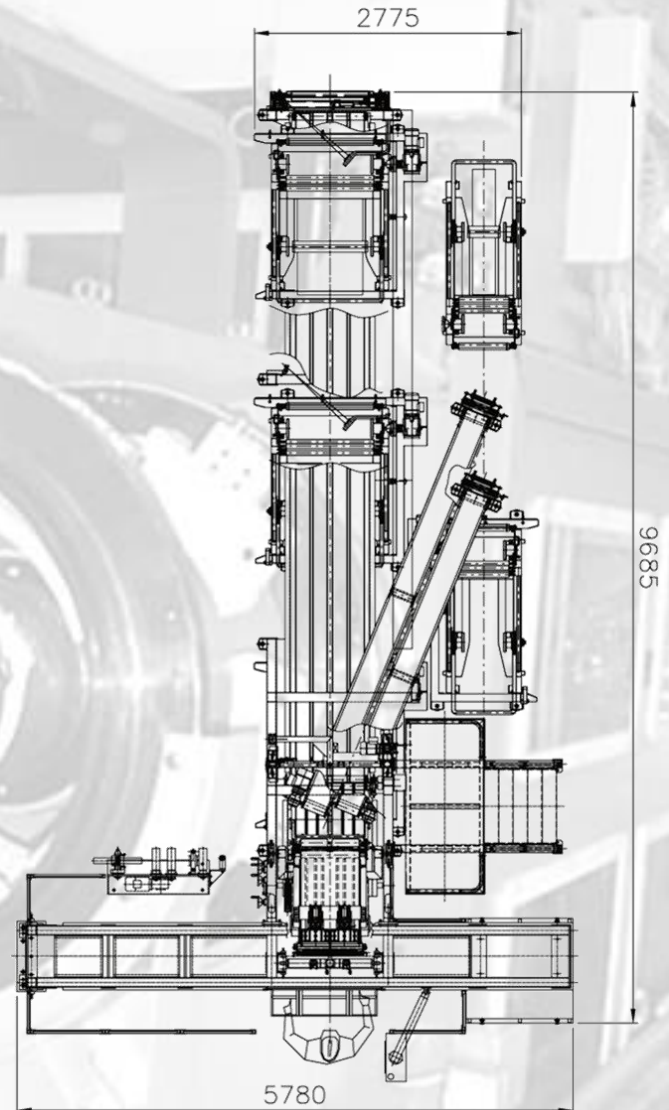
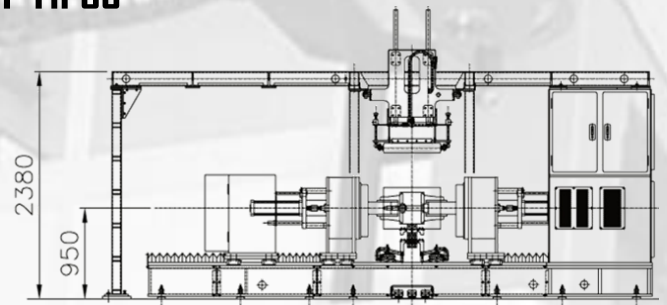
Via Mariano Tentorio 2B, 22100 Como (CO), ITALY

Phone +39 031 565403 <http://www.intereuropean.it> [request@intereuropean.it](mailto:request@intereuropean.it)

# 1<sup>st</sup> Stage TBM

## for PCR & LT Tires

Technical Data	Values
Bead Diameter (optional)	13"-17" (15"-20")
Drum width (optional)	250mm-550mm (250mm-600mm)
Innerliner width (optional)	720mm (800mm)
1 <sup>st</sup> Ply width (optional)	720mm (900mm)
2 <sup>nd</sup> Ply width (optional)	720mm (900mm)
Sidewalls width max (optional)	240mm (300mm)
Textile chafers width (optional)	(30mm - 50mm)
Cycle time per carcass	Approx. 45 sec.
Operators required	1 machine operator
Required floor space (with 2 plies configuration)	5.780mm x 9.685mm
PLC type	Allen Bradley SLC 5000
Pneumatics	FESTO
Main power supply voltage	380 V / 50 Hz / 3 phase
Control Voltage	220V / 48V / 24V
Pressure (dry air)	6 bar
Vacuum	By supplied vacuum pump

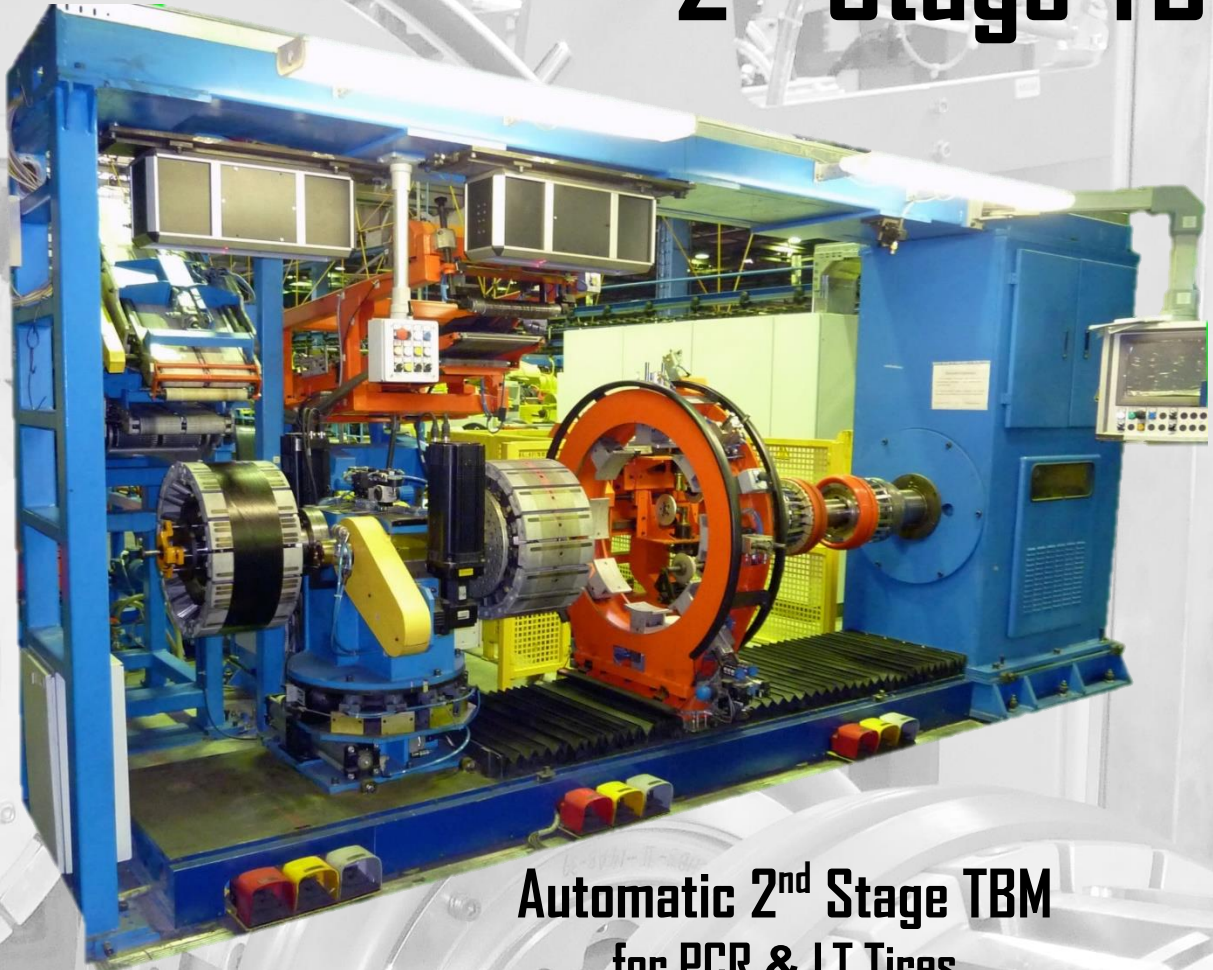


**INTEREUROPEAN S.r.l.**

Via Mariano Tentorio 28, 22100 Como (CO), ITALY

Phone +39 031 565403 <http://www.intereuropean.it> [request@intereuropean.it](mailto:request@intereuropean.it)

# 2<sup>nd</sup> Stage TBM

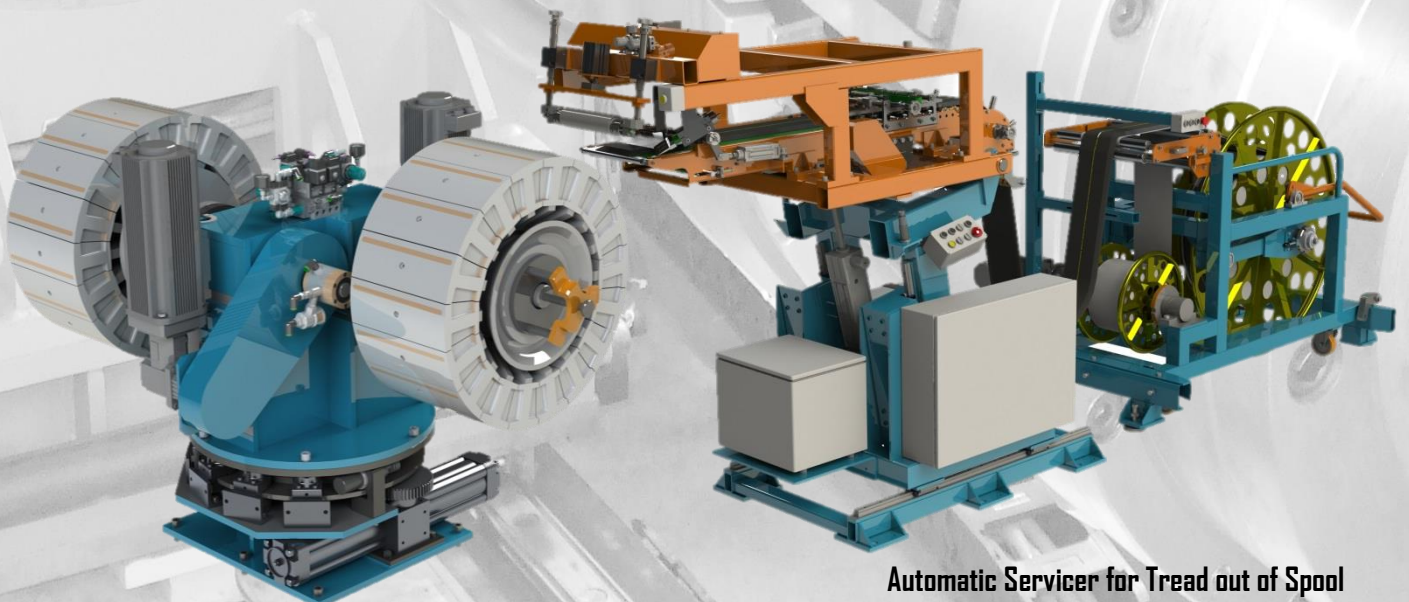


## Automatic 2<sup>nd</sup> Stage TBM for PCR & LT Tires

The Intereuropean 1<sup>st</sup> Stage & 2<sup>nd</sup> Stage TBMs provide a fully automatic solution for building high performance tires with 2-stage technology.

The 2<sup>nd</sup> Stage TBM is equipped with active guiding systems for all the rubber components, automatic cutting and application systems, twin breaker drums on rotating turret for the cycle time optimization, bead lock type shaping drum, tread out of spool with ultra-sonic cutting, spiral nylon overlay (JLB) or nylon capply servicers, advanced control and supervision system with touch screen computer interface and advanced receipt management and diagnostics.

The machine cycle time is as low as 45 sec per tire in fully automatic mode. The operator only checks visually machine operation and unloads the finished green tires from the transfer ring, while the machine cycle continues.  
Machine configuration and options can be adapted to any customer's specifications.



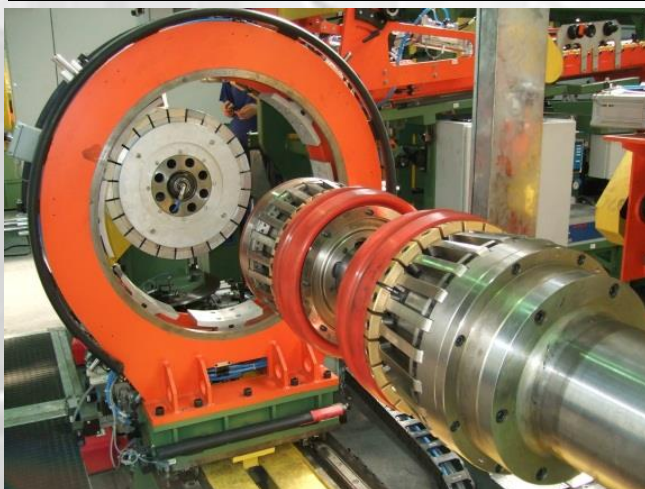
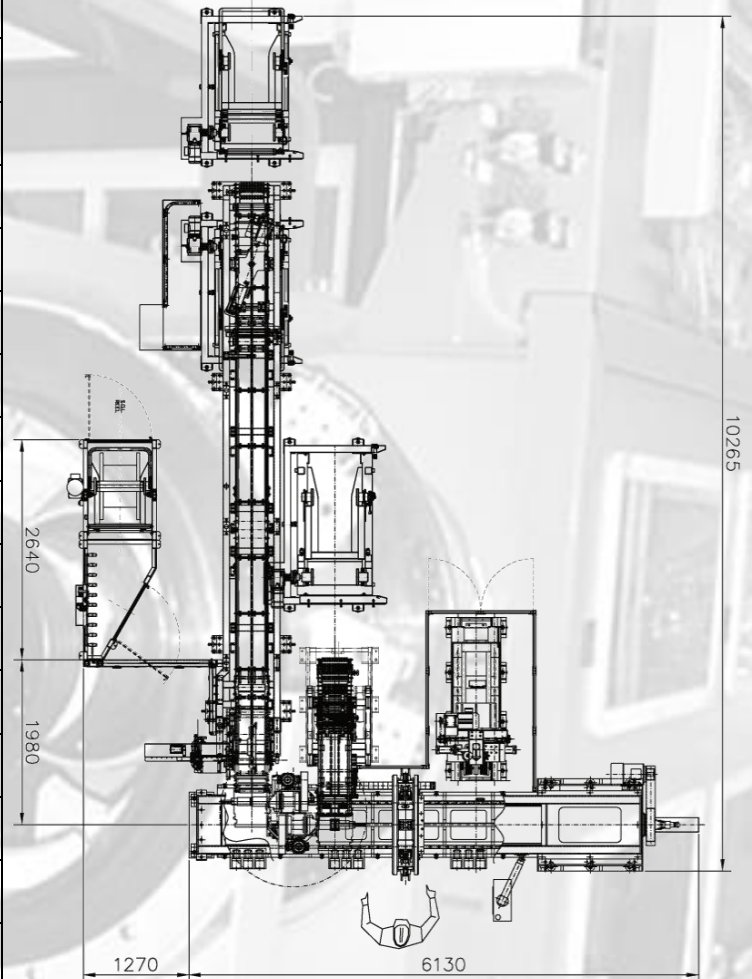
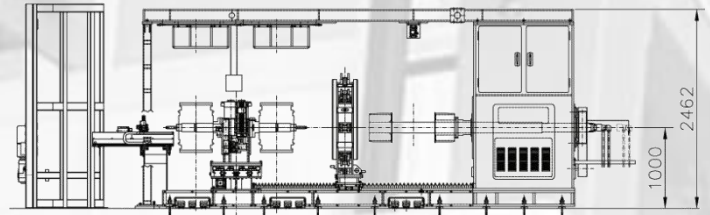
Twin Belt & Tread Drum Rotating Turret

Automatic Servicer for Tread out of Spool  
Ultra-sonic Cutting, active guiding

# 2<sup>nd</sup> Stage TBM

## for PCR & LT Tires

Technical Data	Values
Bead Diameter (optional)	13"-17" (15"-20")
Shaping Drum type	Bead lock
Green tire width, max (optional)	780mm (800mm)
Breaker width (optional)	250mm (300mm)
Breaker cutting angle	18° - 30°
Tread width (optional)	300mm (350mm)
JLB/Spiral Nylon Overlay width	10-25mm
Breaker Drum dia. range	450mm - 720mm
Cycle time per carcass	Approx. 45 sec.
Operators required	1 machine operator
Required floor space	7.400mm x 10.265mm
PLC type	Allen Bradley SLC 5000
Pneumatics	FESTO
Main power supply voltage	380 V / 50 Hz / 3 phase
Control Voltage	220V / 48V / 24V
Pressure (dry air)	6 bar
Vacuum	By supplied vacuum pump



**Bead Lock Shaping Drum & Transfer Ring**



**Tread Server & Breaker Drums**

**INTEREUROPEAN S.r.l.**

Via Mariano Tentorio 2B, 22100 Como (CO), ITALY

Phone +39 031 565403 <http://www.intereuropean.it> [request@intereuropean.it](mailto:request@intereuropean.it)