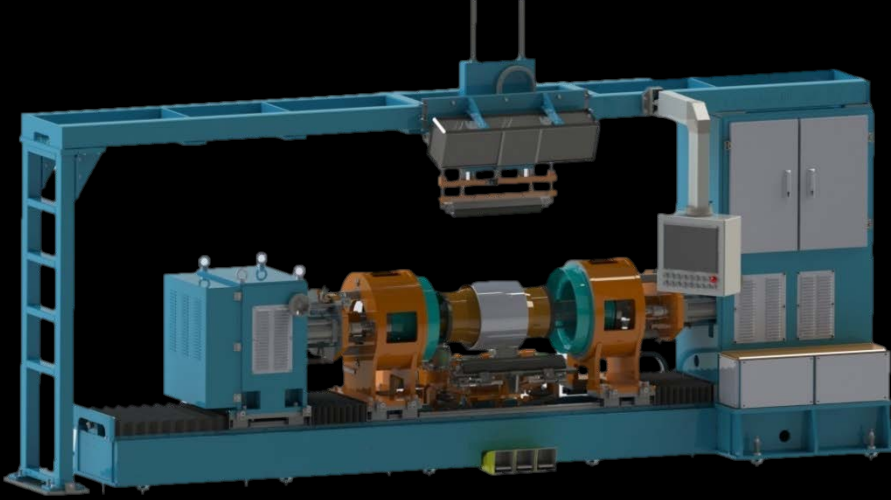


# Upgrade/Retrofit & Custom Designed equipment



**1st Stage TBM Upgrade Bladder turn-up system**

Intereuropean offers the possibility to upgrade the existing machinery by replacement of the old and obsolete control systems and adding new features/functionality requested by the modern tyre design and production requirements.

The upgrades / retrofits provided by the company include:

**Upgrade of old 1<sup>st</sup> Stage Tire Building Machines NRM/Pirelli A70 type with the new bladder turn-up system and modern control system**

**Upgrade of old 2<sup>nd</sup> Stage Tire Building Machines SAI/T10/TR20 Pirelli type with the new Spiral Nylon Overlay Servicers, Tread out of Spool Servicers, Bead-lock type shaping drum, Twind Drum Belt&Tread Turret, Automatic Breaker Servicers and modern control system**

**Upgrade of existing Tire Testing Machines (Hofmann, Seichter etc.) with new type sensors, controls, modern drives and new features**

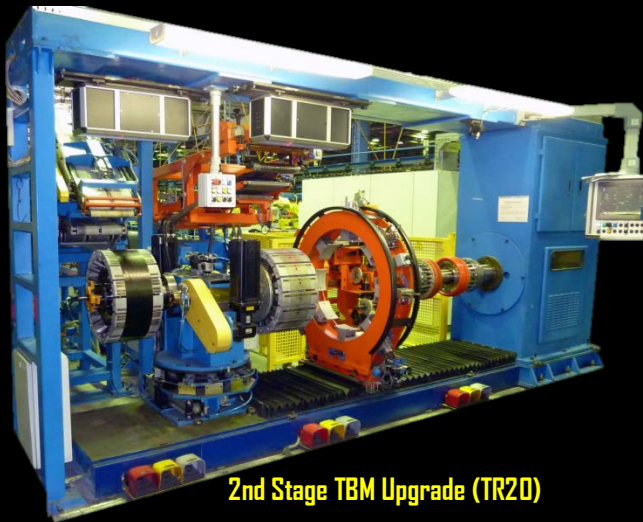
**Upgrade of existing Extrusion / Calender Lines with new let-off & wind-up stations, new controls, new laser measurement systems etc.**

**Upgrade of old Textile Bias cutters with new automatic splicing and wind-up stations, keeping existing let-off and cutting conveyors**

**New 1<sup>st</sup> Stage/Uni-stage Drums, Breaker drums, Transfer Rings, Shaping Drums, automatic laser lights position markers and other equipment for upgrade of tire building machines**

**New extruders and screws for existing extruders**

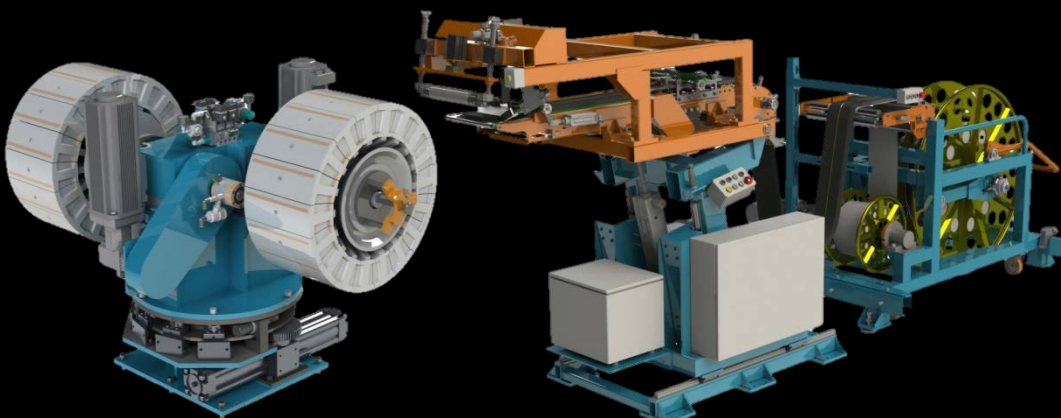
Other specific upgrades requested by the customers



**2nd Stage TBM Upgrade (TR20)**



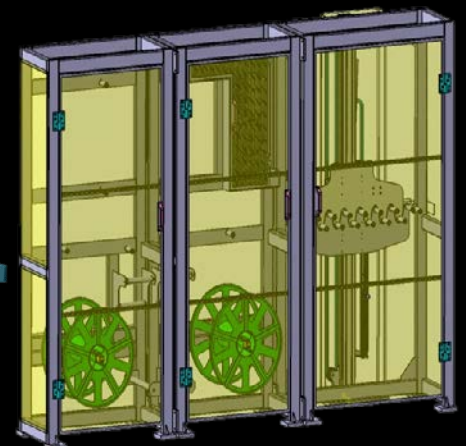
**2nd Stage TBM Upgrade - Tooling**



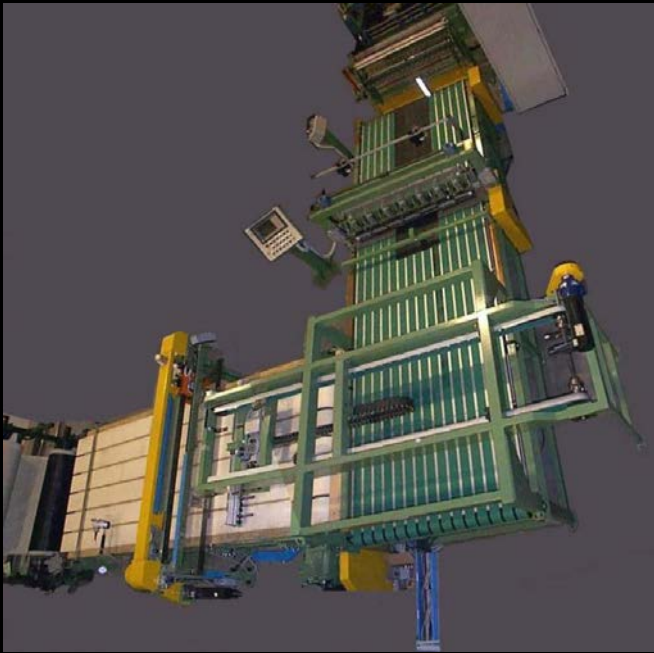
**2nd Stage TBM Upgrade Twin Drums Turret**



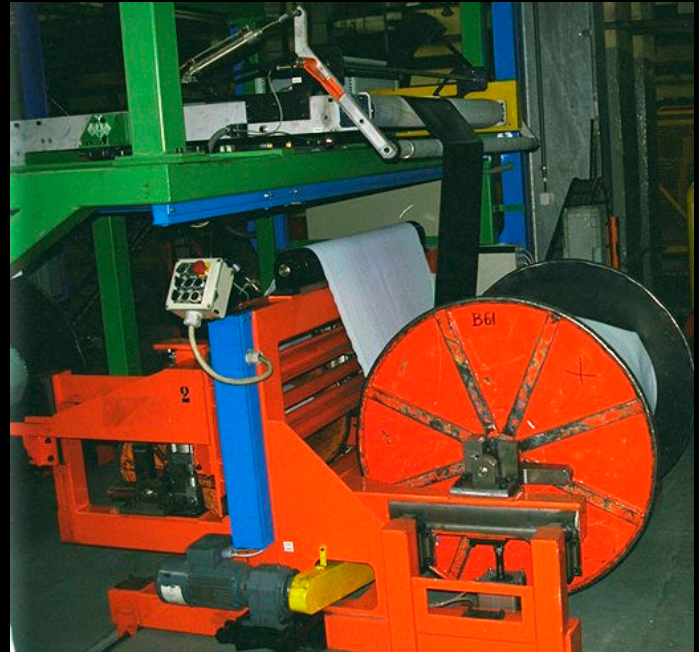
**Tread out of Spool Servicer**



**Spiral Nylon Overlay Servicer**



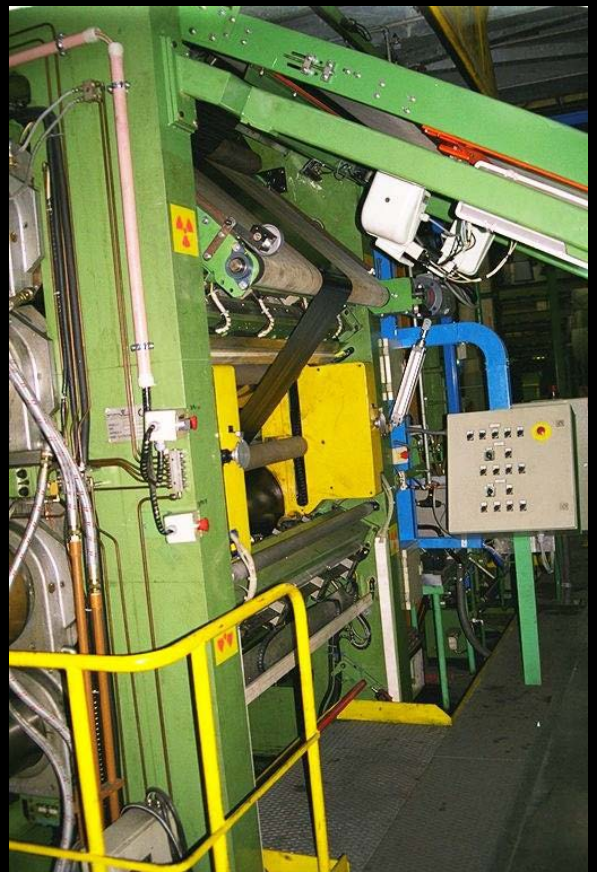
**Upgrade of old Bias Cutter Line**



**New Wind-up stations for Calender/Extrusion Lines**



**Upgrade of old Tire Testing Lines  
(Force Variation / Geometry / Balancing)**



**Upgrade of old Calender Lines  
(Control & Supervision System, Automation)**



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