

Tyre Retreading Machinery

a division of Marangoni Meccanica



BLACK CONSTRICTOR 3000



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BLACK CONSTRICTOR 3000

The BLACK CONSTRICTOR 3000 is a new machine developed to allow on the same hydraulically expandable chuck the cushion gum application by means of a vertical extruder using a strip-winding method, and the application of the pre-cured tread.

The machine is designed for the top retreaders focusing on truck, bus and light transport tyres.

The whole process is automatic, the only functions carried out by the operator are:

- Loading and unloading of the tyre on the chuck.
- Selection of the program on the operator panel.
- Finishing (stapling) of the pre-cured tread application before stitching.

While the machine is running the operator can prepare the pre-cured tread for the next tyres.

The control interface between machine and operator is handled through a touch screen which guides the operator through the various production steps on the machine.

The application of the cushion gum by the method of strip winding grants a high flexibility because different profiles and thicknesses can be set. This method enables also the filling of craters (up to a max hole size of 20x2mm). An important advantage is that with this kind of application there is also no need to apply cement.

The machine is equipped with a universal chuck for tyre sizes 19,5-22,5" x 210-230-300-340mm.

MAIN FEATURES

- Cold feed vertical extruder, diameter 40 mm
- Automatic feeding system of the extruder
- N.1 tempering unit
- Pressure transducer on the head of cushion gum extruder
- Laser measuring device to detect buffed profile before cushion gum application
- Conveyor roller with automatic lifter
- Application in full automatic mode of all kinds of pre-cured strips
- Alignment of the tread strip and correct positioning on the tyre
- Tension control of the strip during the application on the tyre
- Calculation of the splice up to a maximum stretching of 3%
- Radial hydraulic stitching of the tread with possible intermediate dwell on the shoulders.

TECHNICAL DATA

BLACK CONSTRICTOR 3000
1260 mm
600 mm
450 mm
150 mm
15"
24,5"
32 kW
400/460 V
24Vdc / 10 Vdc / 230 Vca
50/60 Hz
8 bar
3-15 tyres/hour (315/80R22,5)

^{*} Full cycle incl. cushion gum application. The average productivity depends also on the operator experience and skill.

OVERALL DIMENSIONS AND WEIGHT

BLACK CONSTRICTOR 3000

2720 mm	Width
2400 mm	Height (from floor)
8050 mm	Length
5200 kg	Weight

Example layout of BLACK CONSTRICTOR 3000

