



## **Tyre Retreading Machinery**

*a division of  
Marangoni Meccanica*



# EAGLE TRUCK 2000



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**TRM - a division of Marangoni Meccanica**

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# EAGLE TRUCK 2000

The EAGLE TRUCK 2000 buffer is a machine designed to remove the residual tread from truck, bus and light transport vehicle tyre casings with a high level of precision, and is suitable for small to mid-size retreading plants requiring a reliable machine.

The machine works under CNC control. A program sends the information on the profile being buffed to the CNC, which activates the motors and moves the buffing unit.

The buffing unit is always centered in a perpendicular way to the tyre spot to be buffed (real 3 axis), making the machine suitable for contoured profiles and ensuring a consistent and

uniform surface texture.

The tyre is driven by a motorized gearbox supplied by an inverter. This allows adjustment of the rotation speed, in order to maintain a constant peripheral speed regardless of the tyre diameter in accordance with individual buffing needs. The particular "A-frame" structure grants maximum precision in the buffing operation; all working units are suspended, ensuring total stability of the structure, perfect alignment of the axis and easily maintainable cleanliness of the mechanical parts.

## MAIN FEATURES

- Rasp motor 11 kW
- Vertical buffing head and real 3 axis movement
- Buffing profile up to 4 radii
- Hanging buffing unit for easier cleaning
- Machine structure with A-frame to give solidity and precision in the process
- Bead plate system granting more precision and lower maintenance costs
- Blade cooling system
- Automatic blade-wear compensation
- Automatic program to invert rotation of buffing head
- Up to 5000 program capacity
- Pneumatic tyre lifting system
- Control of total and partial production, both number of cycles and type of programs performed
- Adjustable tyre rotation speed (chuck driven on the axis)
- PC with touch screen, display showing the actual circumference of the buffed tyre
- Web cam and modem connection for online technical assistance
- Automatic sidewall brushing units (optional)
- Manual brushing and buffing arm 9 kW, complete with safety interlock (optional)
- Finishing buffing arm 3 kW (optional)
- Belt detector for tyre centre (optional)
- Circumference measuring device (optional)
- Soundproof station with automatic door (optional)

## OVERALL DIMENSIONS AND WEIGHT

EAGLE TRUCK 2000	
Width	~ 1800 mm
Height (from floor)	~ 2500 mm
Length	~ 2500 mm
Weight	~ 3200 kg

## TECHNICAL DATA

### EAGLE TRUCK 2000

Max. diameter of the tyre	1250 mm
Min. diameter of the tyre	660 mm
Max. cross sectional width of the tyre	500 mm
Min. cross sectional width of the tyre	160 mm
Max. diameter of the bead	24,5"
Min. diameter of the bead	15"
Max. width of the bead	14"
Min. width of the bead	5"
Total installed power	~ 20 kW
Power supply voltage	400/460 V
Auxiliary voltage	24 Vdc
Supply frequency	50/60 Hz
Air supply pressure	8 bar
Average productivity*	8 tyres/hour (315/80 R 22.5)

\* The average productivity depends on the type of program selected and the actual quantity of rubber to be removed from the casing.

Example layout of EAGLE TRUCK 2000 with manual buffing arm and automatic sidewall brushing arm:

