

Part no. 012600

EAGLE TRUCK 2500 Automatic Buffing Machine



(image just for illustration purpose, the machine offered may have different configuration)

EAGLE TRUCK 2500 is a consolidate benchmark among the buffing machines, suitable for pre-cure and hot cure retreading process, designed to buff the tire casings with a high level of precision using a full 3 axis software.

Its buffing head feature position, hanging above the tire, minimizes the impact of the rubber dust on the sliding rails, keeping the machine more reliable and with a lower maintenance requirement. The machine simultaneously buffing of the tread and the brushing of the sidewalls, following a symmetric or asymmetric programmed profile.

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

The tire is direct drivers 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 tire 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.

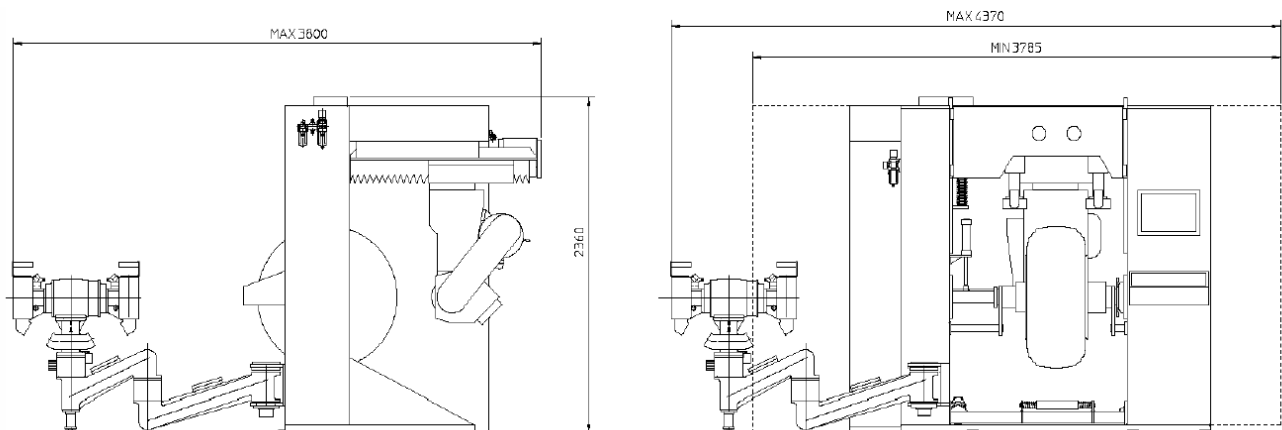
BENEFITS:

- **Buffing head is hanging and no axes on the floor = axes protected from dust.**
- **Weight 5.500kg = No vibrations during buffing, even for the most tassellated tread patterns, higher accuracy.**
- **Tire rotation is given directly by the bead plates with rotation gearbox = absence of external rollers means no casing deformation and increased buffing accuracy.**
- **Real 3 axes of the buffing head = higher accuracy.**
- **Automatic inversion of blades and tire rotation every 5 cycles = blades lifetime increase (75-80 tires).**
- **Buffer motor gears (1:18) allows to have high efficient buffing (high RPM) with low motor power.**
- **Capacity: 20 tires/hour for a 315/80 R 22.5 (bead to bead and floor-to-floor).
Watch our video on youtube (<https://youtu.be/8FDg5gPSJWY>)**

MAIN FEATURES:

The machine is composed by

- ✓ **012600 Eagle Truck 2500 Buffing machine**
Machine is fully automatic, one operator can work on two machines simultaneously
Automatic tire lifting system for bead positioning
Vertical buffing head with real 3 axis movement and buffing profile up to 4 radii
Rasp motor 22 kW with 1:18 multiple pulley
Automatic cycle joystick operator for manual operation
Automatic blade-wear compensation and rotation inversion (buffing head and brushes)
Unlimited program capacity
PC with touch screen, display showing the actual circumference of the buffed tire
Web cam and modem connection for online technical assistance
1 pair of bead plate 20"-22.5" included
- ✓ **012/ASB Automatic sidewall brushing units with cooling system**
- ✓ **012/BMA Manual brushing and buffing arm 9 kW, complete with safety interlock**
- ✓ **012/STP Steel belt detector with circumference measure**



(example of layout Eagle Truck 2500)

TECHNICAL DATA:

Tire external diameter	600 mm ÷ 1250 mm
Tire cross section width	160 mm ÷ 500 mm
Tire rim	15" ÷ 24,5"
Tire bead to bead width	5" ÷ 14"
Total Installed Power	~ 52 kW
Air Supply Pressure	8 bar
Average Productivity*	20 tires/h

*(315/80 R 22.5 bead to bead) The average productivity depends on recipe selected and the quantity of rubber to be removed.

OVERALL DIMENSIONS AND WEIGHT:

Dimension (L x W x H)	4.400mm x 3.800mm x 2.400mm
Weight	~ 5500kg