

ELASTOMER CASINGS CUTTING



PRESENTATION

This machine, integrated in a production line, is used to cut at the right length a product with several components. It is made up of an aluminium central tube and an elastomer (including 3 different materials) casing.

The inside support aluminium tube is extracted by wheel cutting without chips with limited burr, in order to avoid scratching the elastomer inside material.

TECHNICAL DESCRIPTION

The machine is fitted out with an asynchronous motor, equipped with a brake and a frequency variator.

The clamping is performed by 6 concentric jaws, activated by a cam system with a direct current electric motor.

The machine is designed to be able to machine different diameters from $\varnothing 32.8$ to $\varnothing 56.8$. The tube diameter changing requires a simple adjustment of the wheels position.

CHARACTERISTICS

- Electric motorization : 1,5 kW
- Machine weight : 138 kg
- Space requirement (in cm) : 140x80x50

CYCLE DESCRIPTION

- clamping
- fast feed
- cutting
- wheels backward movement
- stop position control
- unclamping
- cycle time : 14 seconds

The cut is performed with two wheels carried on a plate turning at more than 500 rpm.

Each wheel trajectory, fast feed, feed and backward movement, is operated with an entirely mechanical system with a cam.

The machine is delivered with its control box including a programmable PLC.