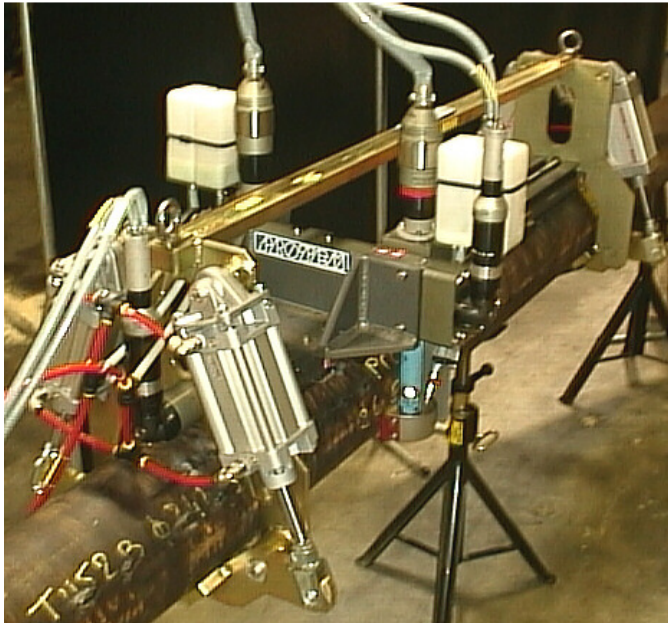


LONGITUDINAL TUBE CUTTING MACHINE



FUNCTION

This completely pneumatic machine has been designed to do a longitudinal dual cutting of a structural steel tube with diameter 245 mm, and wall thickness 11 mm.

DESCRIPTION

A first linear guidance (aluminium dovetail and stainless steel trapezoidal screw) allows a longitudinal carriage movement enough length to make a 1300 mm cut.

This longitudinal carriage carries two other carriages on which are mounted the milling spindles. These spindles are fitted out with saws and have a common pneumatic power supply. One rotates on the right, and the other one on the left in order to machine symmetrically in opposition.

A second linear guidance (with a screw on the right and one on the left) allows then the two milling cutters to penetrate in a synchronized way.

The clamping is carried out with 2 pairs of jacks located on both ends of the machine. The action on the jacks opens or closes the clamping pliers since the machine is directly located on the tube to cut.

The tooling equipment with the pneumatic box integrating the working logic and the power supply distribution boxes for the different operating gears (pneumatic motors for the carriages feed, clamping jacks, motors for the spindle rotation).

MACHINING CONDITIONS

Longitudinal feed : 110 mm/mn
 Transversal feed : 20 mm/mn
 Milling cutters rotation speed : 300 rpm

TOOLS

TiN lined slot cutters $\varnothing 90$ mm
 Wall thickness 2.5 mm
 38 alternate teeth

MACHINE SPACE REQUIREMENTS

Height 820 mm
 Width 670 mm
 Length 1980 mm
 Weight 160 kg