

OXY/ACETYLENE TUBE CUTTING AND BEVELING MACHINE



APPLICATION

Shipyards.

WORK TO BE PERFORMED

The machine will cut and bevel 42" tubes which are inclined between 0° and 15° to the vertical axis.
The cut has to be in the horizontal plane.
The tube wall thickness is 15 mm.

SOLUTION ADOPTED

- Use of the PROTEM R110 drive and guide rack,
- Use of the PROTEM "TOM" pneumatic carriage with speed adjustment,
- Design and development of a flame torch holder incorporating a mechanical tracking device mounted by means of a gas operated spring.

OPERATION

- Set up and clamping of 2 half-racks by means of a screw jack,
- Rapid location of the "TOM" pneumatic carriage by means of 2 eccentric levers,
- Pre-heat using the flame torch,
- Opening of the cutting oxygen supply to start the cut while simultaneously switching on the power supply to the feed drive in order to start the cutting cycle,
- The cutting cycle takes 5 minutes.