SOVEMA PUNCHPLUS®

» No lubrication required
» Continuous strip flowing (no start and stop of the strip)
No lubricant, no pollution, no costs. Only benefits.

This innovative punching unit is designed to work in a continuous process by means of a new concept: two punching stations moving in opposite directions.

The station moving in the same direction as the lead strip performs the punching, whereas the other station moves in the opposite direction in order to be ready for the next punching cycle.

The first exclusive plus of the machine is THE LEAD STRIP WITH CONTINUOUS FLOW AT CONSTANT SPEED (no Stop and Go). This avoids any possible stress to the lead due to the Start and Stop process, which is typical of punching machines currently available on the market. The concept of having the strip fed at the same speed as the horizontal component of the punching equipment is a Sovema patent (USA Patent # 6,145,363 dtd Nov. 14, 2000 – Assignee Sovema SpA).

The punching stroke is performed in just 10 msec and the vertical punch movement is only 4 mm: based on this and on the high speed of the stroke, it is not necessary to press/block the lead strip. This feature minimizes the mechanical stress of the machine and guarantees high reliability.

The second exclusive plus of the machine is the oil free operation. NO LUBRICANT IS NEEDED thanks to the high punching speed (the so called “SHOOTING EFFECT”) with the advantage of obtaining a clean grid (no ultrasonic cleaning tunnel required after punching).

Easy mould change minimizes the machine downtime for product change.

The line is equipped with automatic strip decoiler and recoiler.

The punching process comprises up to 8 steps: the first four are used for the grid creation; the last four steps can be used for different operations, such as grid-edge shaping, wire chamfering, wire offset, surface texturing.

One single mould can be used to handle multiple grid heights and different lug positions and shapes.

The machine is fully automatic, operated by an Allen Bradley PLC; an optic fiber circuit is installed to provide a fast and reliable communication among the different machine units.

» NO LUBRICANT REQUIRED
» CONTINUOUS STRIP FLOWING (no Stop and Go)
» PUNCHING SPEED UP TO 600 GRIDS/minute
» CUTTING CYCLE 10 msec (NO HEAT PRODUCED)
» FLEXIBILITY IN GRID DESIGN
» EASY MOULD CHANGE
» PUNCHING OF ALL LEAD ALLOYS ALLOWED
Installed power 120 kW
Chilled water requirements 10m³/h at 10°C
Air requirements 1.2m³/h
Production speed up to 600 grids/minute

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