PERFORMER SERIES

» The world-wide proven solution for continuous plate making. The only technology able to produce both positive and negative plates.
The Sovema Continuous Expander provides continuous strip feed, in order to carry out the punching process without the strip having to be stopped. The punching die is connected to a Sovema-patented mechanism, which makes it possible for the die to follow the movement of the strip and at the same time performs the expansion by punching the strip. The process thereby takes place in a totally continuous manner, as in Continuous Casting or Rotary Expansion systems, while achieving the same result as the Reciprocating System. PERFORMER is the only machine of its kind which can perform all expansion, shaping and tab blanking functions in one integral machine (normally two machines are required for these functions).

The exception is in the simplicity of the mechanism: ensures high reliability with perfect synchronization between speed values of the strip and speed of punching. The speed value depends on the kind of grid and the amount of teeth in the die.

The machine comprises a sturdy electro-welded structure housing the four main systems:
- Feeder
- Shaper press
- Tab blanks
- Expansion die.

**THE TAB BLANKER**
The system comprises a rotary punch for making holes in the central area of the strip, in order to produce the tabs.

**THE FEEDER**
The strip from the decoiler is guided inside the die and driven to its output by two rollers, acting in the central (not expanded) area of the strip, moving in synchronization with the expander.

**THE SHAPER PRESS**
The final shaping and strip calibration operations are carried out by a press. The shaping die of the press is driven by a slotted oscillating mechanism, similar to the one present in the expander and rotating at the same rpm.

**THE EXPANSION DIE**
Has multiple teeth; it performs the progressive expansion of the grid and is secured to the crank and slotted oscillating mechanism (Sovema’s patent), which ensures continuous strip blanking.
The Performer 500 Plus

The Performer 500 Plus produces up to 500 single plates/minute of 144 mm width.

- Production speed up to 36 m/min.
- Punching Die: up to maximum 39 triple tooth expansion punches (LWD = 12 mm)
- Mesh diamond dimensions:
  - SWL: max. 11.0 mm
  - LWD: between 11.5 and 20.5 mm
  - Number of mesh diamonds: maximum 19.5 per grid (max. expanded mesh = 148 mm)
- able to produce different types of mesh;
- quick and easy tool change;
- automatic expanded grid width adjustment possible during the expansion process, as to keep a constant grid width.

- Installed power: 45 kW
- Operators required: none.

The Performer Smart

The Performer Smart produces up to 350 single plates/minute of 144 mm width.

- Production speed up to 32 m/min.
- Punching Die: up to maximum 32 double tooth expansion punches (LWD = 12 mm)
- Mesh diamond dimensions:
  - SWD: max. 8.5 mm
  - LWD: between 11.5 and 12.5 mm
  - Number of mesh diamonds: maximum of 16 per grid (max. expanded mesh = 128 mm)
- once the grid profile is defined, it cannot be changed;
- no tool change available;
- automatic expanded grid width adjustment possible during the expansion process, as to keep a constant grid width.

- Installed power: 37 kW
- Operators required: none.