

Hydraulicco delivers 5,000 ton press line for production of large heat exchanger plates

The Swedish company SWEP, based in Landskrona, Sweden, is one of the world's leading suppliers of brazed plate heat exchangers. SWEP provides efficient solutions for Air conditioning, Refrigeration, Heating, Industry and District Energy with the latest technology.

Hydraulicco delivered a complete production line with a 5,000 ton press that produces heat exchangers with a length of up to 1,250 mm.

The production line offers high flexibility and an impressive output capacity: The system can produce up to 900 items per hour.

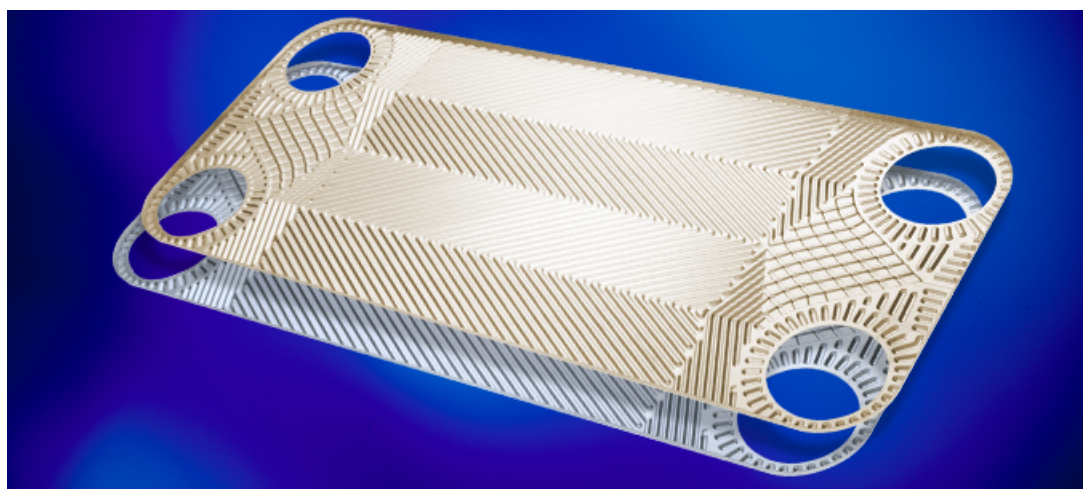


Fig. 1 SWEP is known world-wide for a patented technique where a copper layer is brazed to a steel layer to produce an exchanger plate with great energy efficiency.

The forming of the layers in the press requires substantial press force, and as SWEP wished to produce plates up to 1,250 mm long, a hydraulic press with a capacity of 5,000 tons was needed.

Hydraulicco press with advanced specifications

Hydraulicco delivered a press with great rigidity and an extra strong press bed to eliminate distortion of the press frame.

The press is also equipped with the patented Electronic Shimming™ System – a technology that optimizes the distribution of force during the forming process.

A complete production line

The press is integrated into a complete production system. At one end, the two metal coils (copper and steel) are fed into a 200 ton press and cut to the desired size. Here, the holes are also punched out.

The plates are then transferred to the 5,000 ton press where they are given into their characteristic pattern. Finally, the plates are automatically straightened and stacked on pallets, ready for pick-up and transportation.

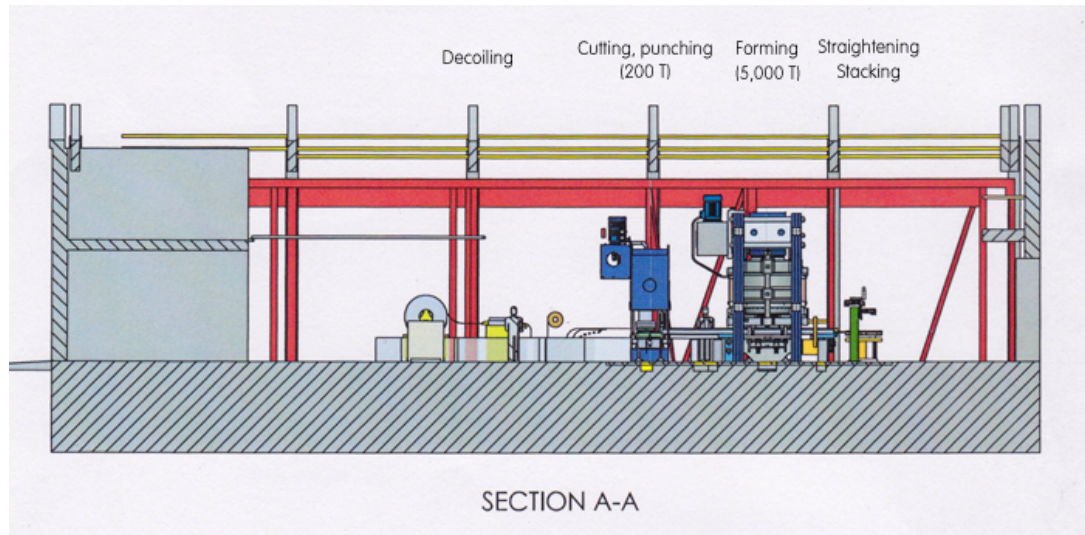


Fig. 2 Production line overview.

Quick die change

The production line can quickly be adapted to production of plates in different sizes – a new and easy die change system allows for very short production stops: New dies can be in place and ready for production in less than 15 minutes.

System benefits at a glance:

- High capacity: Up to 900 items per hour
- Forms plates up to 1,250 mm long
- Fully automated transporter system
- Great precision in forming
- Great flexibility
- Die changes in less than 15 minutes

More information

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