Tile Sheet Rollformers

Our tile sheet rollforming line meets the production demands of today´s heavy industry.

The rollformer is driven by a powerful electric motor. The press and the post cutter are operated by an 11 kW hydraulic unit. With an efficient production speed of 8 metres per minute you can reach production output of 15 tons in one shift.

An advanced Programmable Logic Controller (PLC) unit is provided with an LCD-monitor and the necessary electrical components for manual and automatic line operation. The control unit controls the operations of the roll forming machine, press, cutter and stacker.

Our advanced software enables you to modify the distance between pressings and the length of the eaves section. Up to 10 different lengths and 1000 pieces can be programmed for each production set. With the latest pressing tool it is possible to press various step heights (minimum 14 mm / maximum 25 mm) just by placing additional plates under the tool set. This takes approximately 5 minutes.

These features make our Tile Sheet Line highly efficient and user friendly. The process is fully automated and can easily be operated by one man.

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Tile Sheet Production Line

Profiilikeskus tile sheet rollformers are the product of over 20 years' experience of designing high-quality rollforming machines for the international market, and simultaneously using our own rollformers to manufacture steel roofing for the demanding needs of our home market in Finland.

We accept only the most practical design solutions and standards. Operation of the tile sheet rollformer is fully automated and the machine can easily be operated by one person. Advanced software and an easy-to-use user interface allow for fast setting of the rollformer, including the tile length.

- Line includes: rollforming section, press, post-cutter, pre-cutter, automatic stacker, decoiler
- All our machines use the minimum of factory floor space
- Production speed 8 metres per minute (sheet length 6000 mm)., max. output 15 tonnes per shift
- Drive with electrical motor 7.5 kW for 16 chain-driven shaftpairs
- Hydraulic unit 11 kW for the press and post-cutter
- Under lapping side of the sheet has both water channel and capillary groove
- The height of the tile step and the distance for the first pressing at the eaves can also be adjusted

Material Requirements

Thickness
0.5 mm

Width of strip
1250 mm or for customized width

For coated steel

Steel quality
DIN EN 10346: S220GD+Z – S320GD+Z

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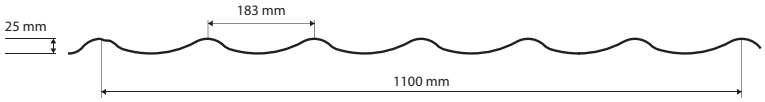
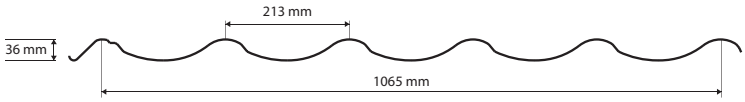
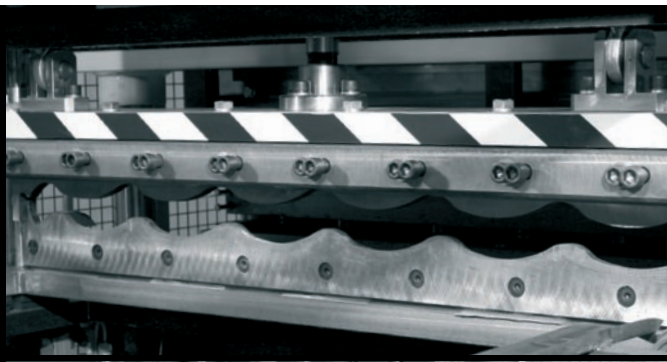
Profile is asymmetric tile

Height of profile	25 mm
Step height	from 14 to 25 mm
Total profile height	from 39 to 50 mm
Covering width	1100 mm



Height of profile	36 mm
Step height	16 to 20 mm
Total profile height	52 to 56 mm
Covering width	1065 mm





- Decoiler 7.5 tn, coil ID 508–610 mm
- Expansion with wedge mechanism
- Hydraulic wheeling and tightening of coil

The press tooling is made from tool steel 100MnCrW4. The movement of the pressing tool is controlled by two hydraulic cylinders, with a working pressure of 160 bar.

The cutting blades of the post cutter are made of hardened tool steel and are 16 mm thick. The blades have, therefore, a long service life and can be sharpened several times. The rollformer, press and cutter can be steered from the control unit either in manual or automatic drive. The cutter is a guillotine type eccentric cutter and is operated by hydraulic motor. The press and cutter are stationary (not flying).

Automatic stacker 6 m and motorized roller line with side movement 8 m. Pneumatically operated stacking arm.

Ridge Cap Machine

An elegant half round ridge cap is needed to complete the finishing touch to the Tile sheet roof.

Our compact ridge cap rollformer is provided with necessary electrical components for manual and automatic running of the line. Preset the number of pressings in a piece into the parameters and all you need to enter in production mode is the piece amount.

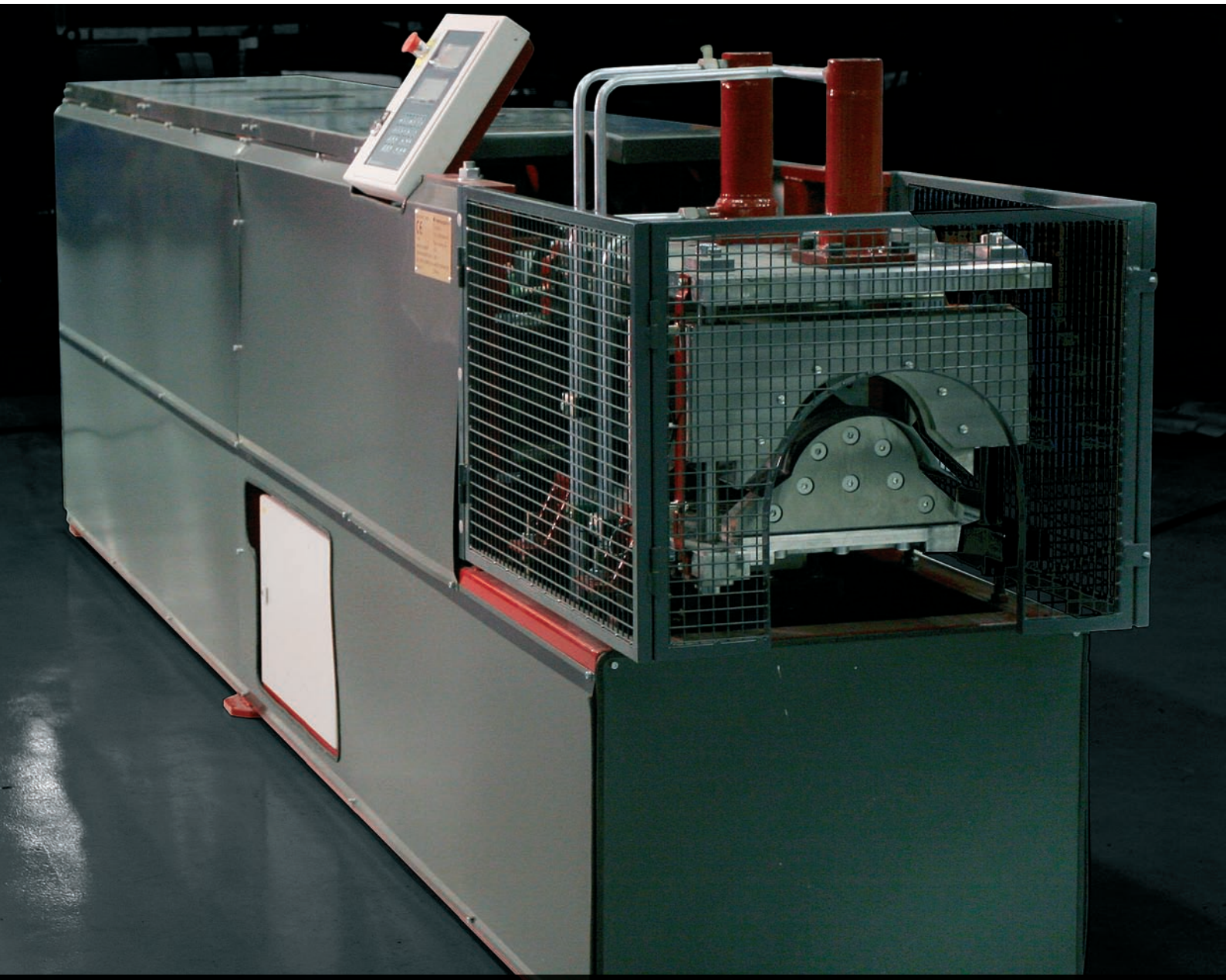
Pneumatic spraying system

Width of strip
416 mm +/- 10mm

Thickness
0.5 - 0.6 mm

Pre-coated steel

Electrical drive and Hydraulic press and cutter



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