

Units of the Plants:

- 1) unwinding device / plate handler**
- 2) feed system**
- 3) coating system**
- 4) cutting device**
- 5) gluing device**
- 6) extractor device**
- 7) stacker device**
- 8) control system (electronic)**

1) unwinding / plate handler. Passive processing of sheet metal roll, a centrally mounted shaft, fixed in grooves Weight of the sheet metal roll max. 5 t and an inner diameter of 500-600 mm.

2) The delivery of the material: The feed system consists of dispenser, plate feed table, gluing system, cutting and profiling device and drive system together. Via pressure rolls is the supply of the outer material sheet metal and the inner material polystyrene. The working speed is 1.5-3 m min /.

3) Coating System: Via drive unit with 2.2 kW drive motor and worm gear with a cardan connection and 6 pairs (upper and lower) active rolls and 14 pairs (upper and lower) passive rolls. Heating system with an electrically heated quartz tube with an output of 1 KWx9 (tubes)

4) Cutting system: 2-way cutting machine with pneumatic actuator. Lifting height 300 mm and max. Average length of 1400 mm. The contact pressure is bar with compressed air from 7 bar

5) gluing: Over 4 adhesive pumps via pipe nylon continuous adhesive flow.

6) extractor device: 5.5 kW drive motor via fan and dust collection (bag).

7) stacking device: An active conveyor 10m respectively 26 m and 12 m in length the panels are stored. Main parameters of the stacking device: Total power KW 18.64 KW / Roll Tape length 10 m / transport speed of the panels 13.3 m / min.

8) monitoring and control system: The complex has a central power supply and controller. An electronic control system from Mitsubishi ensures the exact production sequence. On-screen display are programmable parameters such as displayed length and quantity, and adhesive characteristics for the production of the panels.