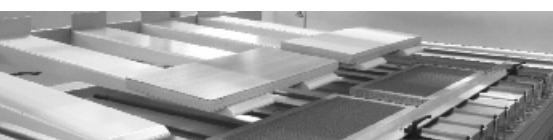




A member of the Homag Group



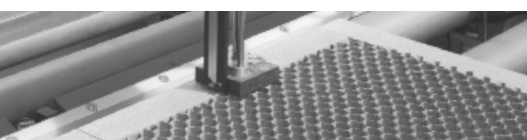
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Compound and lightweight panel systems



Optimat | profi line | power line



PROFILINE PWR 500

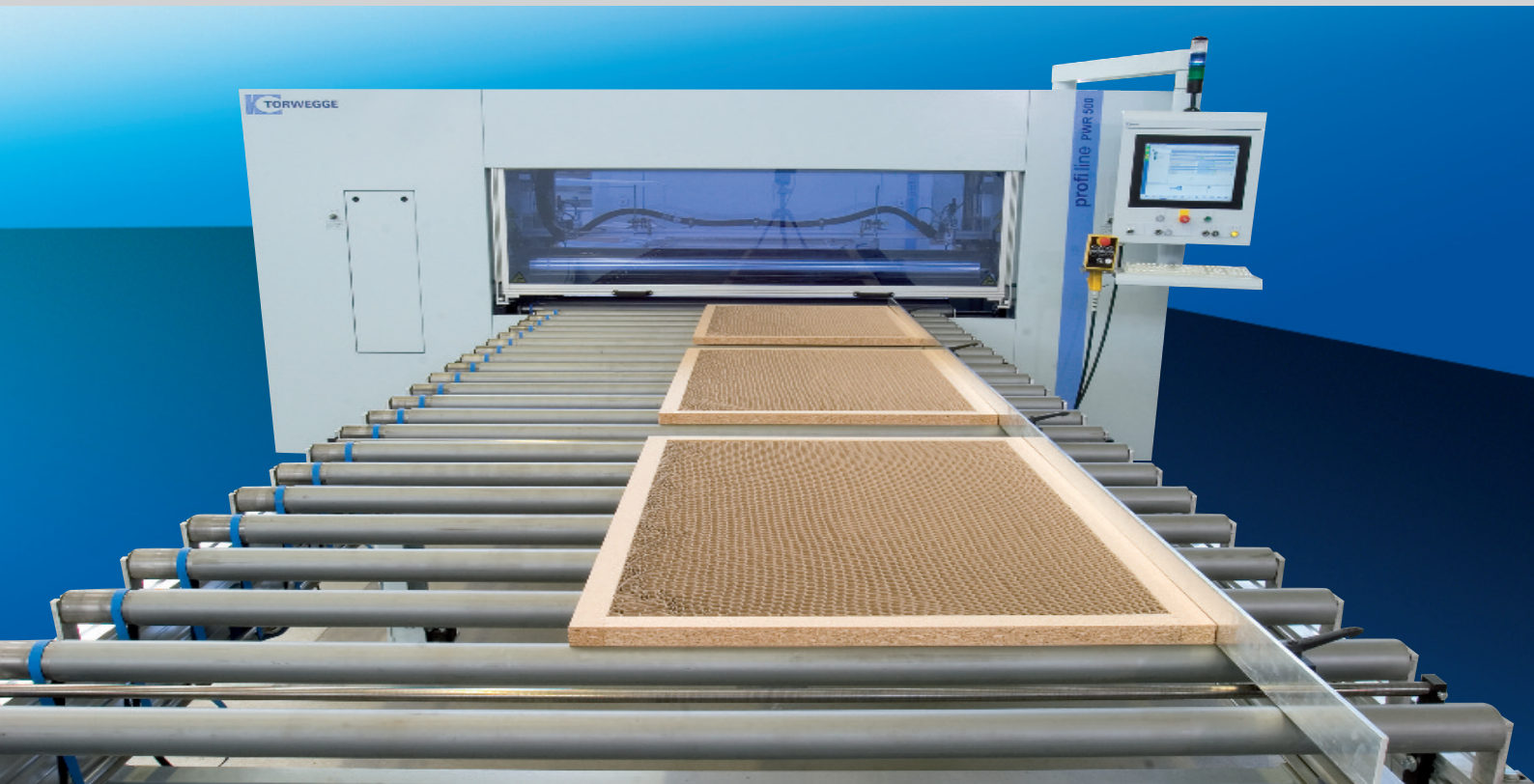
Compound and lightweight panel systems for flexible and economic production of compound and lightweight panels with different production methods and design versions

The Profiline PWR 500 is a machine with single-sided glue application, which allows a low-cost and economic production of compound and lightweight panels.

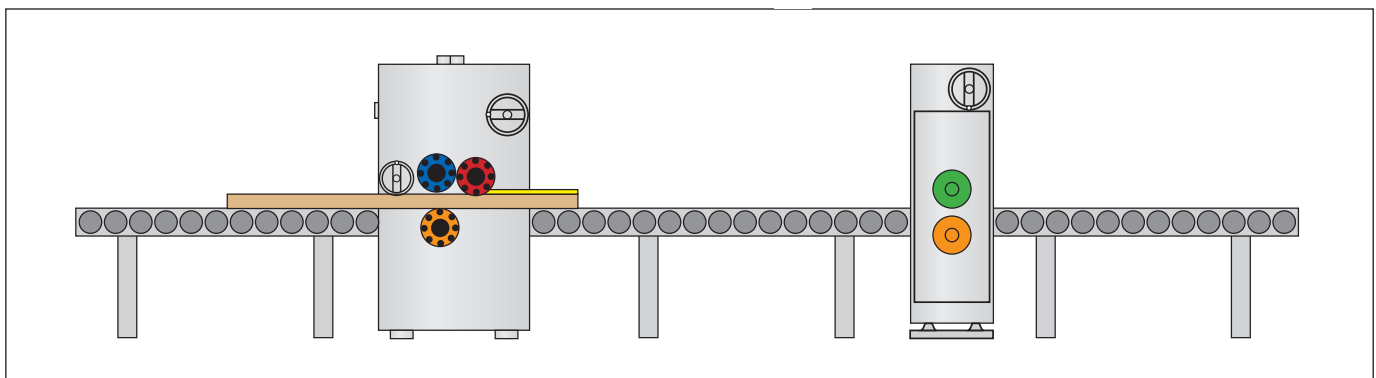
The basic model of the machine consists of the following components:

- driven infeed transport
- glue application unit
- positioning section with driven roller conveyor
- pressing calender as well as driven outfeed transport
- frequency-controlled regulation roller drive
- single-sided glue application from top

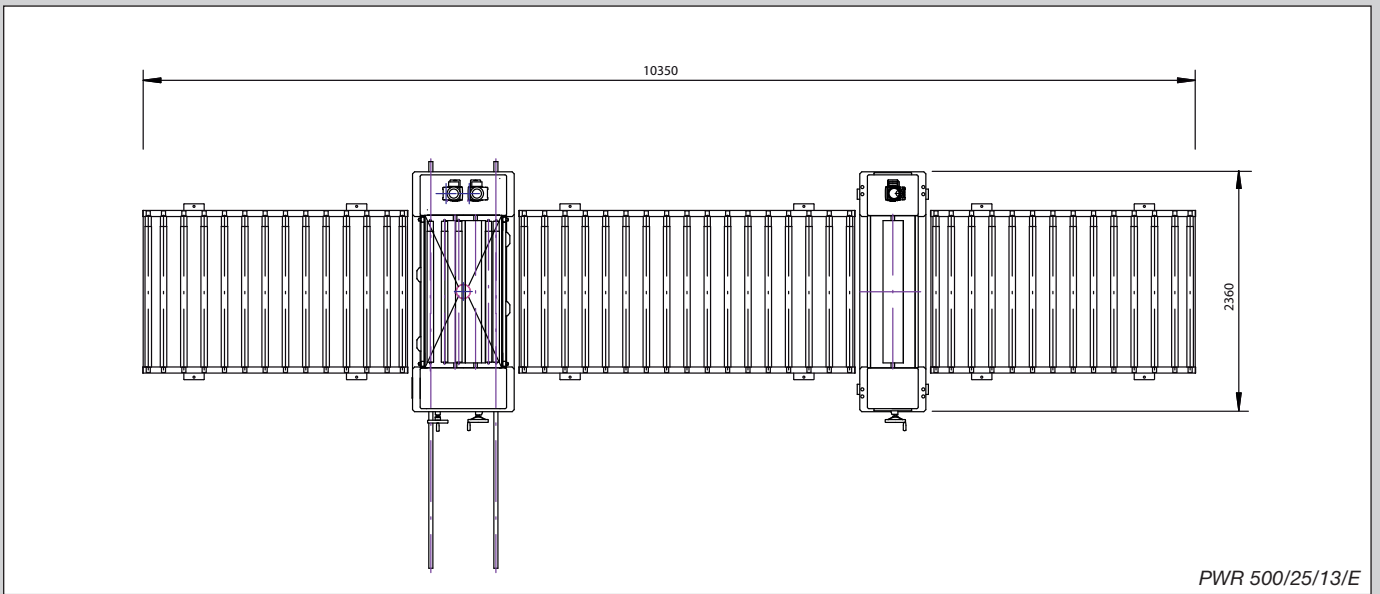
The large variety of efficient options allows to set up and automate the PWR 500 according to the production requirements.



PWR 500 with single-sided glue application in a width of 1.600 mm



Application system: single-sided glue application



Options



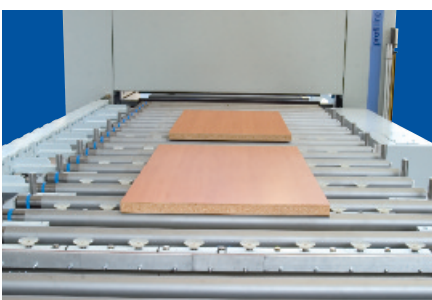
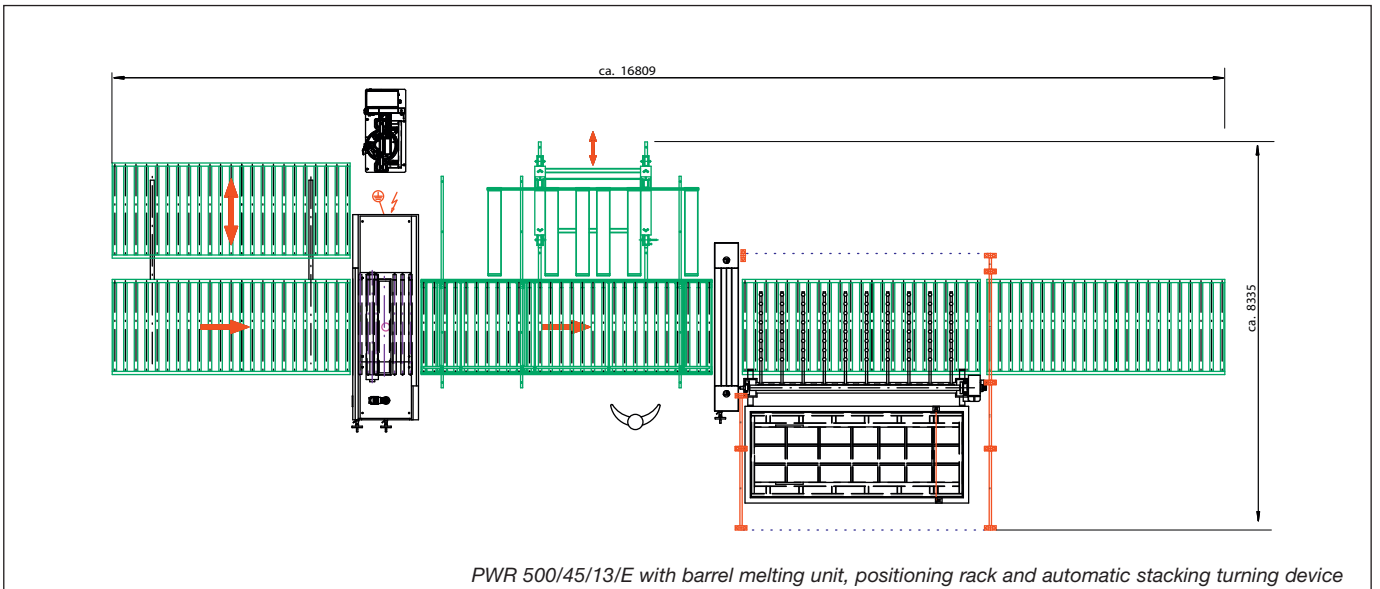
Automatic glue supply by barrel melting unit



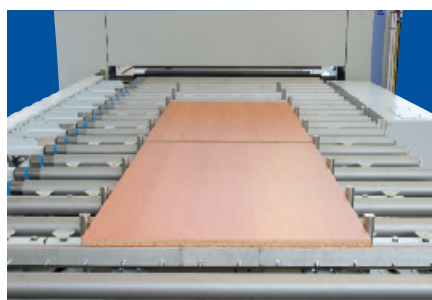
Motorized positioning rack



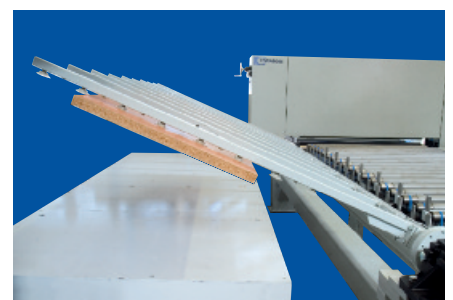
Swordbrush



Workpieces on outfeed roller conveyor



Alignment of workpieces



Turning and stacking of lightweight panels



Control



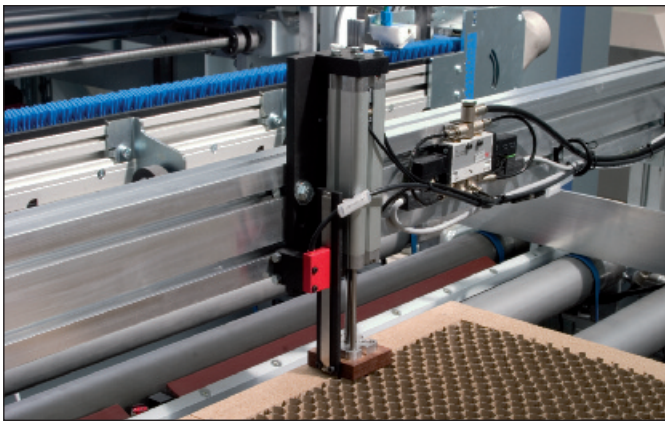
Hexagonal honeycomb

Corrugated web honeycomb

Compartmented honeycomb

Polystyrene core

Aluminum honeycomb



Electronic thickness measuring system



Stopper system



Special positioning rack



Expanding channel for paper hexagonal honeycombs

PROFILINE PWR 500

Profiline PWR 500 for double-sided glue application

The Profiline PWR 500 for double-sided glue application is able to apply the PUR-glue on both sides of the carrier panel. This procedure allows to produce a compound and lightweight panel in one cycle and to stack it directly after pressing without another processing step.

The basic model of the PWR 500/D consists of the following components:

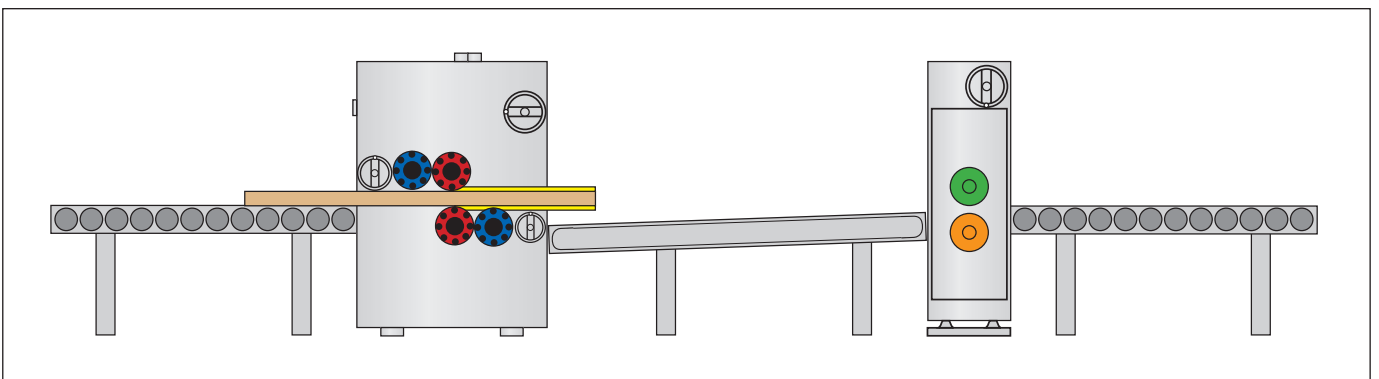
- driven infeed transport
- double-sided glue application unit
- positioning section with inclined, driven transport belt
- pressing calender as well as driven outfeed transport
- frequency-controlled regulation roller drive



Glue application rollers



Positioning belt, double-sided glue application



Application system: double-sided glue application

PROFILINE PWR 500

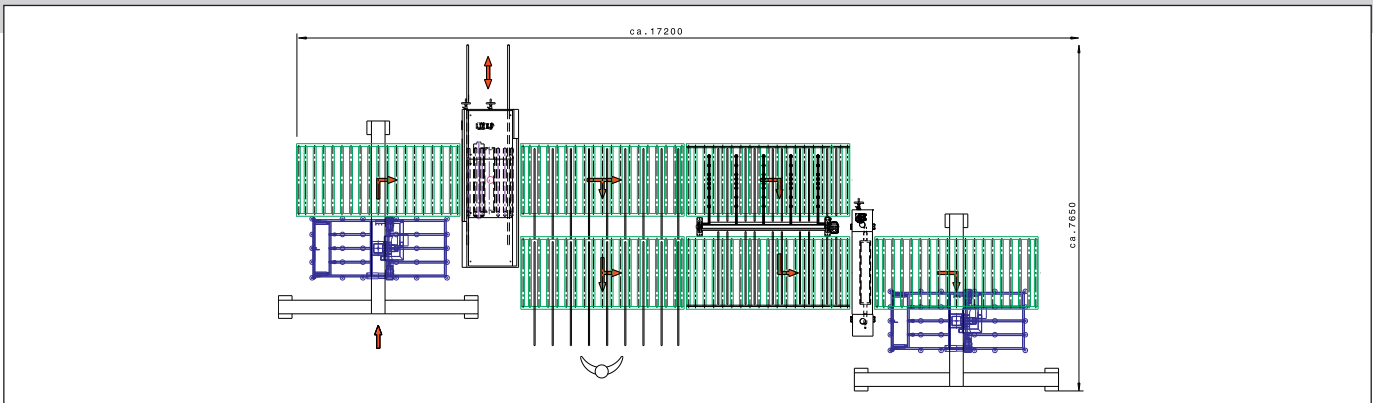
Compound and lightweight panel systems with automation

According to the requirements and the desired capacities Torwegge Lightweight Panel Machines and Systems can be automated in different ways. The automation systems can be adjusted according to the required capacities or to the conditions and dimensions of the products to be manufactured.

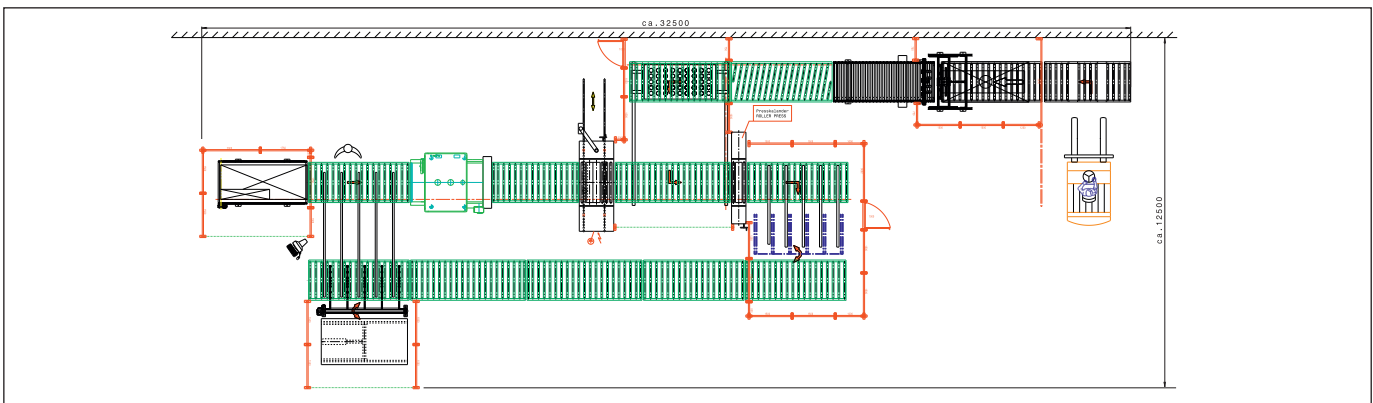
The following components are possible:

- Thin panel feeding for top and bottom layers
- Vacuum feeding systems for thin panels
- Feeding systems for central layers
- Automatic turning systems to place layers on the central layers
- Supply systems for manual positioning for central layers or top/bottom layers
- Return systems
- Workpiece stacking designed as turning unit or with vacuum suction elements
- Automatic barrel melting unit

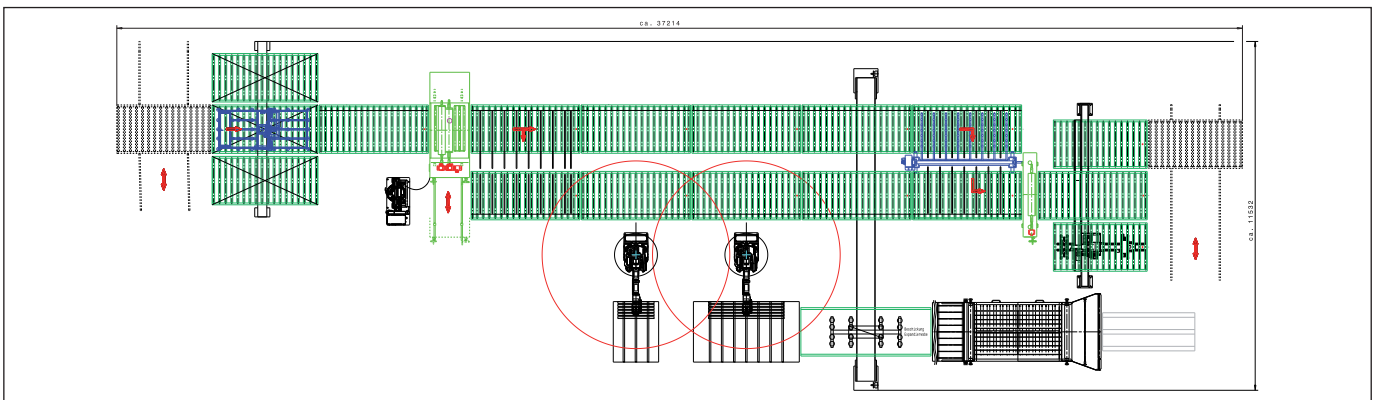
Torwegge Compound and lightweight panel systems can be quoted with PUR hot-melt, Urea glue or PVAc-glue systems.



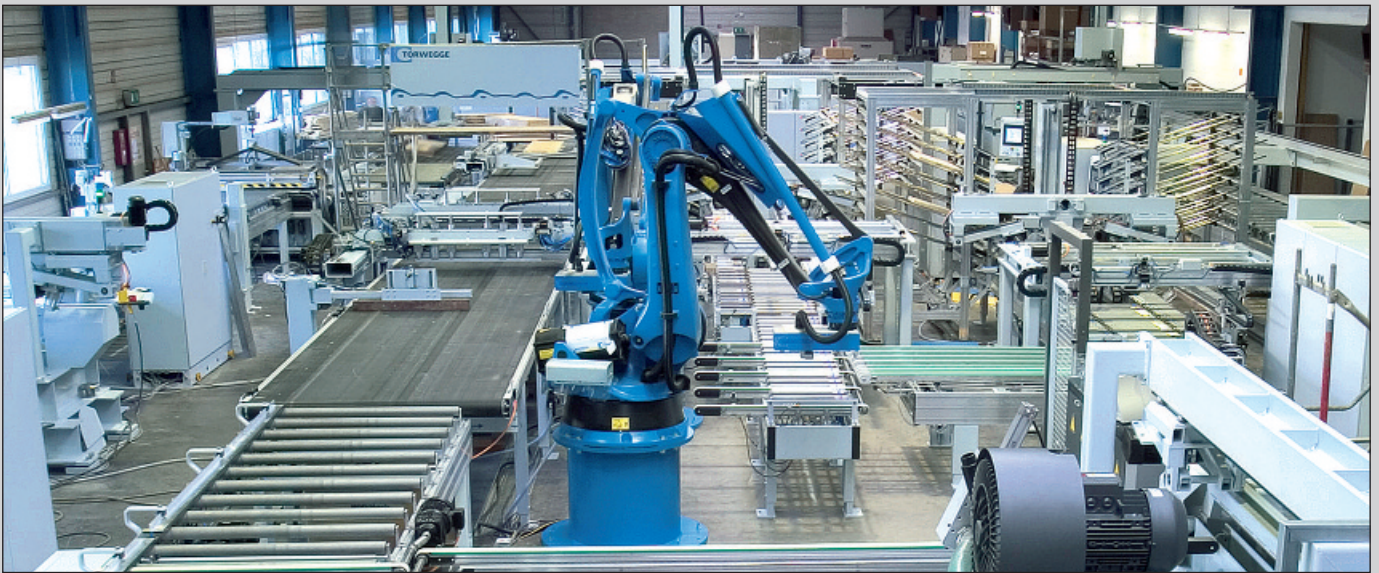
PWR 500 with vacuum feeding, automatic turning unit to place the top/bottom layers as well as automatic vacuum stacking systems



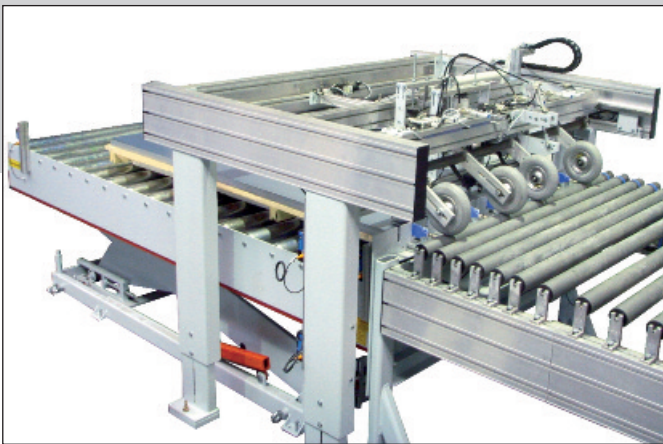
PWR 500 with thin panel feeding, automatic top/bottom layer positioning unit, return unit with turning station, automatic stacking as well as electronic thickness measurement



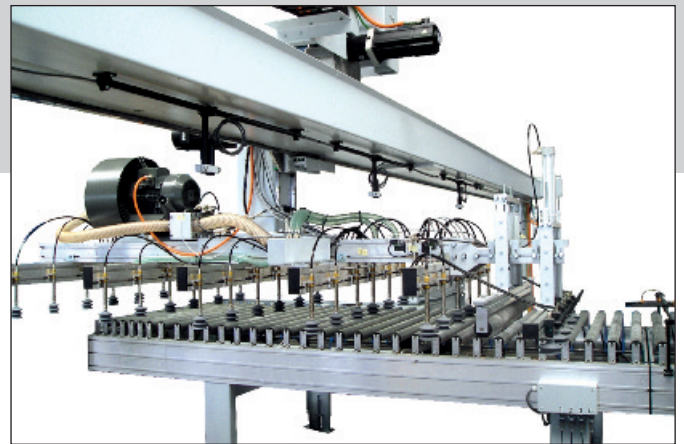
PWR 500 with vacuum feeding, barrel melting unit, automatic frame positioning unit, automatic honeycomb panel insertion unit as well as stacking and expanding channel



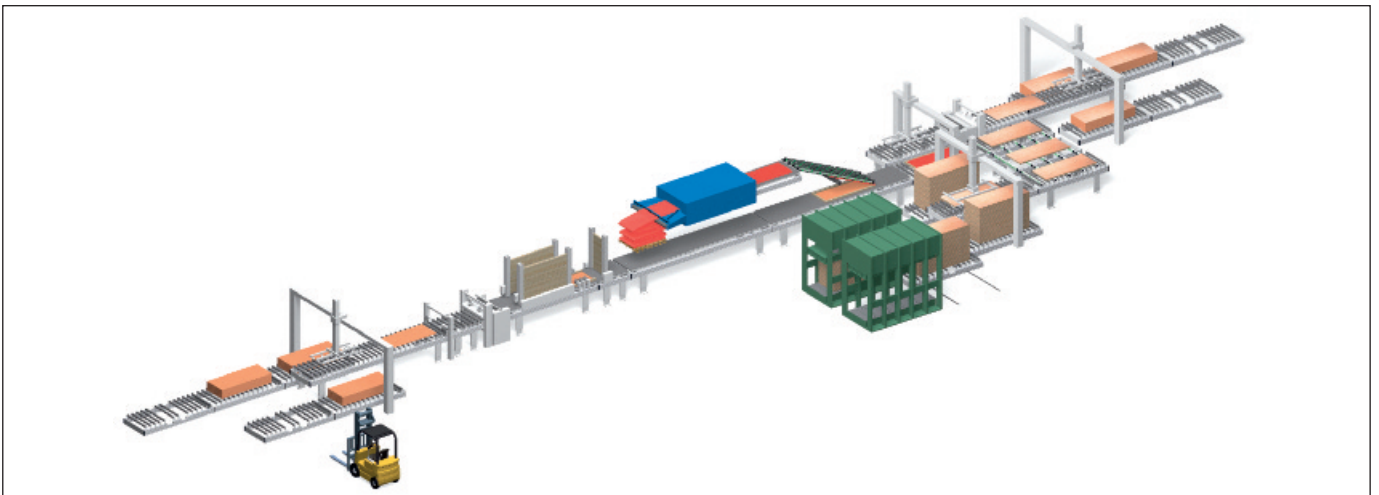
Lightweight Panel Plant with automatic rail magazine and automatic frame positioning station



Thin panel feeding



Positioning gantry



Fully-automatic production line for the production of compound and lightweight panels with longitudinal and cross rails on the basis of PVAc-glue

Technical Data:	Other solutions on demand
Workpiece dimensions:	
• Length:	600 - 4500 mm
• Width:	200 - 2.200 mm
• Thickness:	3 - 100 mm
Working height: approx. 950 – 1200 mm	(depending on machine configuration)
Capacity: 1 – 6 pcs/min.	(depending on machine type and configuration)
No. of layers: 2 – 7 layers/pc	(depending on workpiece specification)
Glue types: PUR glue, PVAc glue, Urea glue (urea resin)	(depending on machine configuration)

Technical data are not binding in every detail. We explicitly reserve the right to modifications in the course of further developments.