



ENERGOINSTAL
constructing tomorrow

PROCESSING LINE OF HYBRID WELDING OF MEMBRANE WALLS PANELS

The line comprises the transport system of supply pipes, cleaning system (sandblasting), supply pipes butt welding system, calibration system and transport of flat (fin), hybrid welding machines, system of technological transport, transport of finished panels and sources of laser and arc welding sources.

The line allows the automated process of panels manufacturing.

The operator controls the manufacturing process and sets the geometric parameters of each panel. The products meet the requirements of 97/23/EC and EN12952 Directives.



Technical parameters:

width of the panels:	up to 1.4 m
length of the panels:	up to 25 m (line can be extended, option)
pipes diameters:	from 38 mm to 60.3 mm (can be adjusted to other diameters)
scale of the panel:	any (panels can be made without the flat (fin))
materials:	ferrite-pearlite, bainitic, martensitic steels and nickel alloys
materials:	ferrite-pearlite, bainitic, martensitic, austenitic steels and nickel alloys in any combination
linear welding speed:	up to 4m/min

The unique advantages of hybrid welding of membrane walls panels:

- 4-fold increase in the efficiency of production in relation to the submerged arc welding
- guarantee of full remelting in weld, meeting the requirements of EN ISO 13919 "B" level
- 3. possibility of one-sided welding, also with a guarantee of full remelting, meeting the requirements of EN ISO 13919 "B" level
- 5 times less demand for welding wire
- 6-fold reduced process energy
- consumption
- very high precision of manufacture, finished products retain flatness and linearity
- 4. the line is designed to operate in continuous production mode, no interruptions in technological process are required

Processing lines of panels hybrid welding can be assembled into production line systems in order to increase the production capacity.

