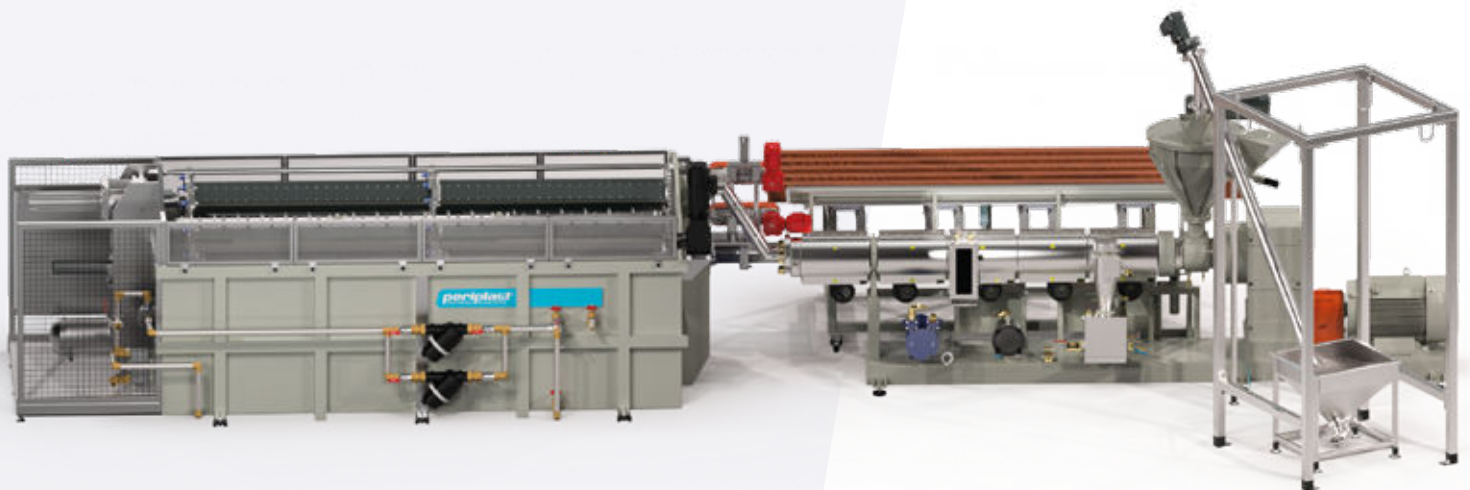


AUTOMATIC PLASTIC LUMBER EXTRUSION LINE



ECO FRIENDLY
SUSTAINABLE
CIRCULAR ECONOMY



Plastic lumber is used today as a **substitute for wood in several scenarios**, including civil construction and urban furniture.

Reducing landfill waste by reusing plastic materials to create **more sustainable new products that will have many long-term benefits for the environment**, reduces our overall carbon footprint

Recycled plastic lumber is a perfect choice to solve the problems of the traditional wood, works with high-contaminated plastics without washing them **reducing the maintenance costs to zero**.

periplast
extrusion expertise

LINE ELEMENTS

1



2



3



4

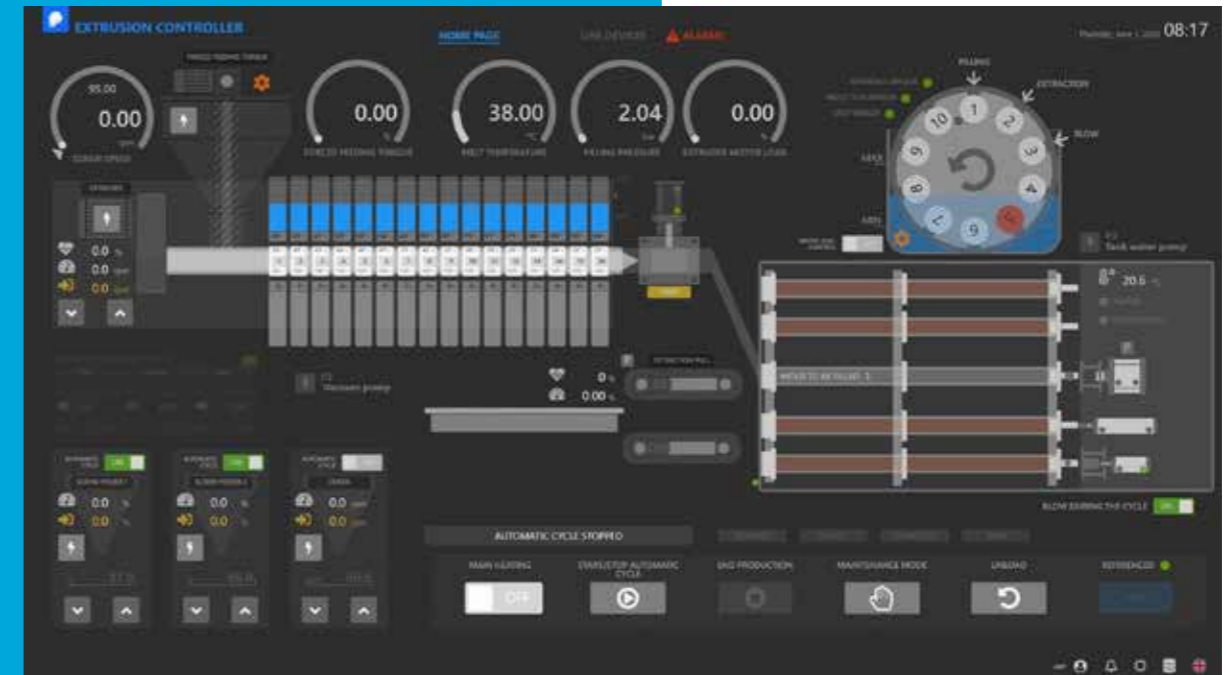


5



- 1. Line control
- 2. Feeding
- 3. Extruder
- 4. Moulding group
- 5. Collecting table

LINE CONTROL



Software that allows you to control the entire line synchronously and automatically, with the operator only intervening once in each cycle to remove the bars/load more raw material.

MAIN FEATURES

- ✓ Production history
- ✓ Recipes
- ✓ Control every component of the line
 - Feeding (force feeding and dosers)
 - Extrusion (Temperature, speed degassing, pressure)
 - Mould Group position
 - Water temperature
 - Extraction

FEEDING AND FORCE FEEDING



FEEDING SYSTEM

- ✓ Big bag system
- ✓ Worm Screw (with alert for lack of raw material)
- ✓ Force feeding (allows mixing LDPE film)
- ✓ Doser for colouring or fibres could be included



EXTRUDER



Extruder with a capacity of more than 300 kg/h

MAIN FEATURES

- ✓ Insulated panels that guarantee thermal high efficiency
- ✓ Powerful vacuum degassing
- ✓ Closed loop circuit of contaminated water reducing freshwater waste
- ✓ Very accurate temperature control

MOULDING GROUP

Moulds holding group unit for 10 4-metre-long moulds. The complete cycle time corresponds approximately to 1 mould filling, 8 mould in cooling and 1 mould being extracted.

Extraction system by pneumatic cylinder assisted by a haul-off for parallel positioning to the plasticizing unit.

Moulding unit installed inside a stainless-steel cooling tank in a closed water circuit with controlled temperature to optimise cooling.



TECHNICAL DETAILS:

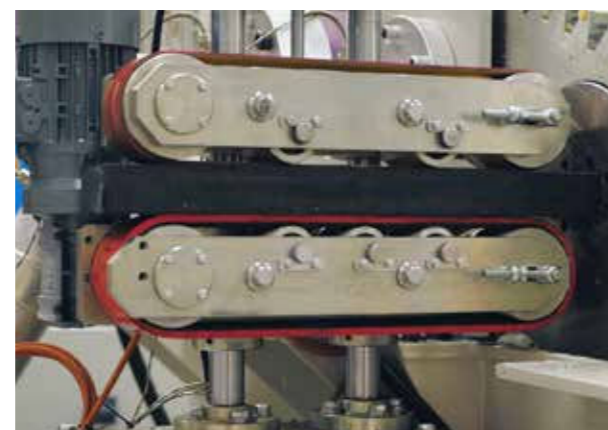
- ✓ Maximum production: 300 kg/h
- ✓ Total installed power: 175 kW
- ✓ Power consumption (@250kg/h): 60 kW/h
- ✓ Cooled water: 15° C
- ✓ Air consumption: 600 lt/min
- ✓ Operator (workers): 1 for 2 lines
- ✓ Moulds length: 0,1 m to 4 m
- ✓ Mould (WxH):
Square 150x150 mm
Rectangular 230x20 mm
Round 200 mm

EXTRACTION & COLLECTING TABLE



Dumping table pneumatically driven.

Capable of collecting more than 10 pieces of 100×50 plastic lumber beams.



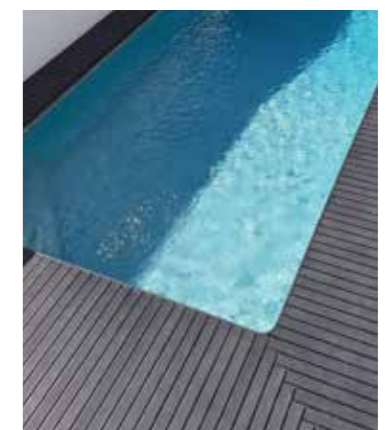
FINAL PRODUCT



The plastic lumber line is designed to produce round, square, and rectangular beams, from 0,1 to 4 metres (using the same mould).

The tops of the beams - round, square or rectangular - can have a straight, pointed or half-moon shaped finish.

On the beams sides it is possible to make tongue-and-groove joints or slip resistant footpath planks.





Address

Rua de Marrazes, lote 32
Zicofa 2415-807 Leiria
Portugal

Phone

+351 244 859 990

Online

comercial@periplast.pt
www.periplast.pt

