

PRODUCTION LINES FOR XPS BOARDS



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Great flexibility, compatibility
and thermal efficiency



Complete technological lines and single machines for the production of XPS boards.

The extruded polystyrene called also XPS is a plastic material combined with other components and expanded by means of a blowing agent in order to create a continuous foamed structure. Extruded polystyrene is used as an insulating material, it has several properties, such as: simple installation (it's very light but very strong), high resistant to temperature changes, physical and dimensional stability, good resistance to compression, this is an inorganic product (therefore it prevents the development of micro organisms such as fungus and moulds), it is water-resistant and it is not dangerous for people or environment.



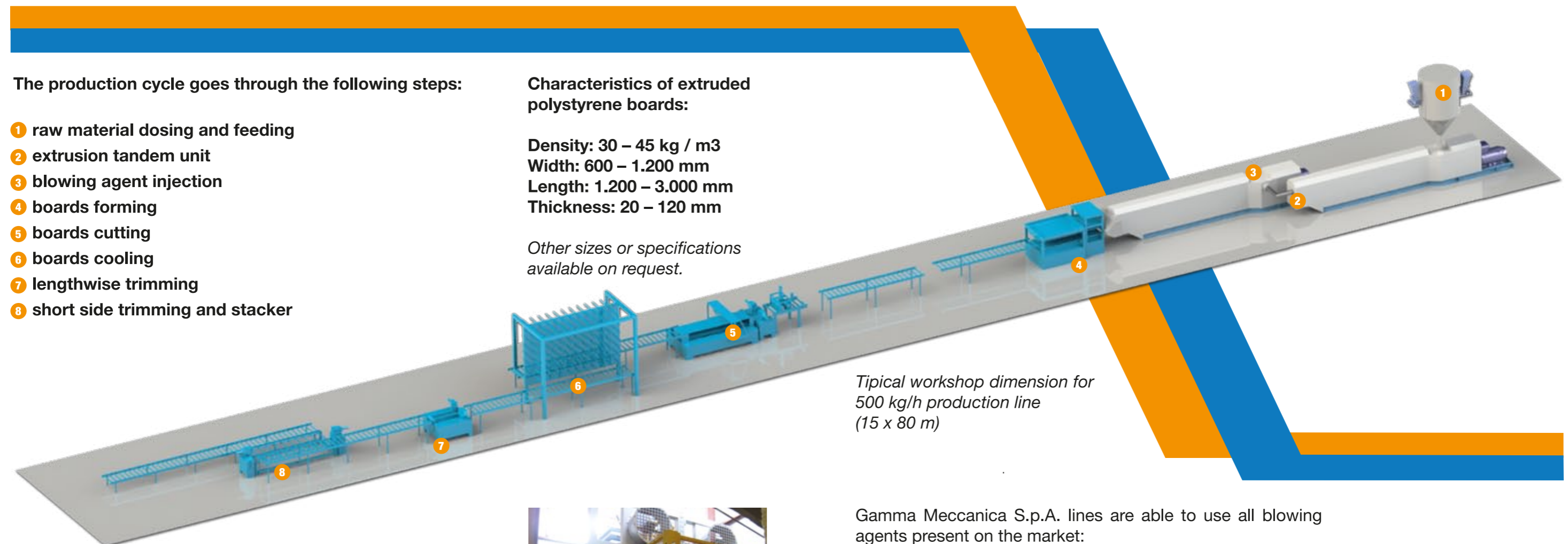
The production cycle goes through the following steps:

- 1 raw material dosing and feeding
- 2 extrusion tandem unit
- 3 blowing agent injection
- 4 boards forming
- 5 boards cutting
- 6 boards cooling
- 7 lengthwise trimming
- 8 short side trimming and stacker

Characteristics of extruded polystyrene boards:

Density: 30 – 45 kg / m³
 Width: 600 – 1.200 mm
 Length: 1.200 – 3.000 mm
 Thickness: 20 – 120 mm

Other sizes or specifications available on request.



Typical workshop dimension for 500 kg/h production line (15 x 80 m)



Gamma Meccanica S.p.A. lines are able to use all blowing agents present on the market:

- CO₂
- Ethanol
- Butane
- Dme
- HFA
- Other blowing agents

The percentages of use is based on customer request.



STANDARD CAPACITY PRODUCTION

PRODUCTION RANGE		THICKNESS RANGE
Kg / h	mq / year	mm
from 300	from 60,000	from 20
to 1,500	to 300,000	to 200