CMC TEXPAN
Machinery and Technology

LYNX

Compact and versatile technology for effective detection and removal of contaminants

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The **LYNX** System, based on and advanced proprietary technology developed by CMC TEXPAN, is meant for detecting and removing contaminants from flows of milled particles to be used in the production of wood-based panels: the removed contaminants are then separated from the continuous flow of recycled material.

The system is integrated in an only, compact machine and it is specially designed for the removal of contaminants such as plastics, foam, silicone, sponge and polystyrene. Therefore, LYNX is suitable also for applications in sectors other than that of the woodworking industry.

The device, whose working principle makes use of SWIR spectroscopy (an evolution of NIR imaging), encompasses a special camera system that detects the molecular footprint in reflection of the type of product struck by light.

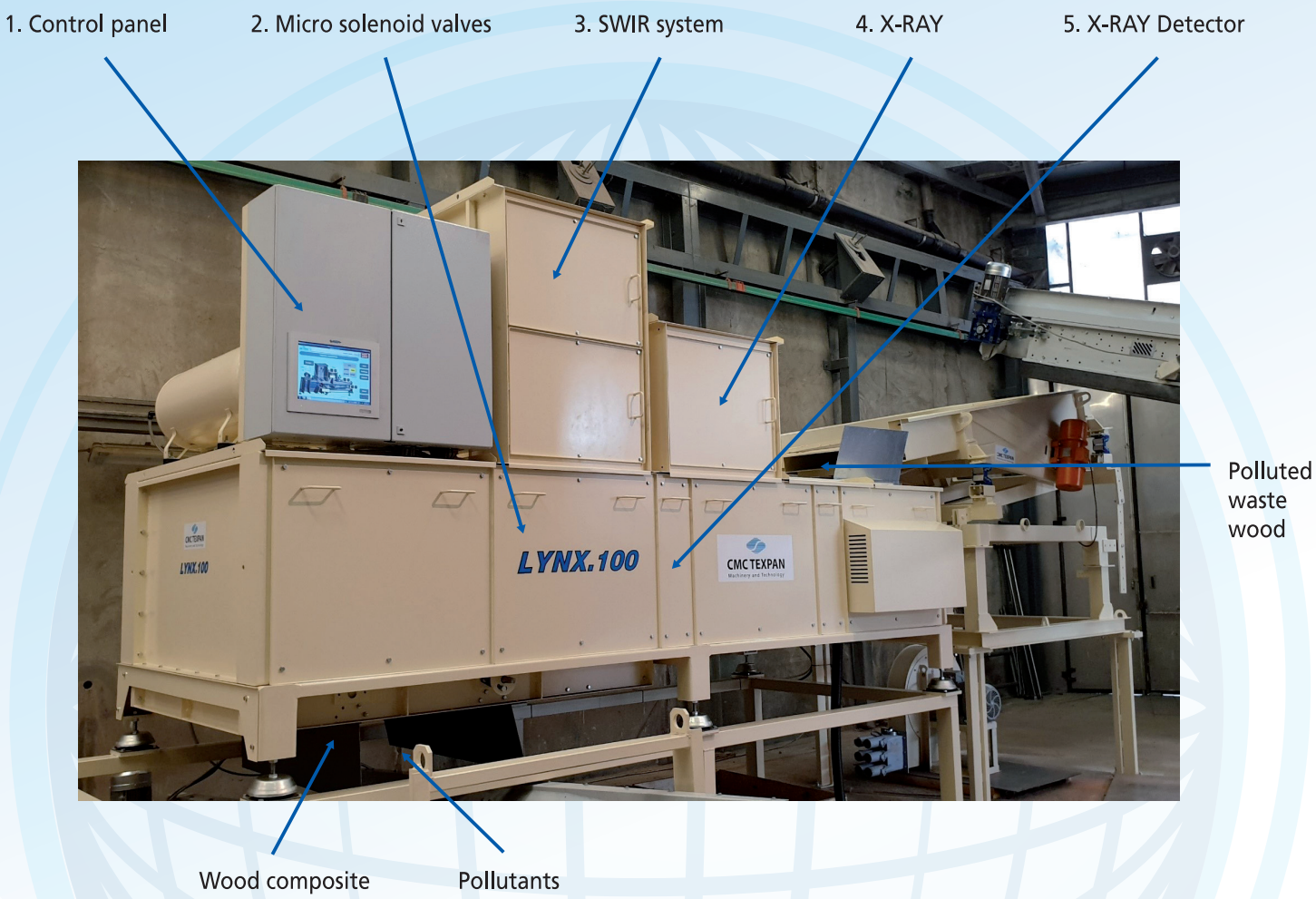
Following optional accessories are available and may be installed on the equipment to further enhance its completeness and versatility:

• a **colour camera**, to select particles according to their colour and to define which colours are not allowed in the process: these unwanted particles will then be rejected via the software and the ejection system;

• an **X-ray system**, to detect and remove particular pollutants, materials with higher density (such as ferrous and non-ferrous metals, aluminium, copper, lead, various alloys etc.), thus enhancing the efficiency of the machine. This system operates according to the thickness and density of the unwanted pollutants to be removed from the flow.

Advantages:

- **compact design**, facilitates installation on existing plants;
- effective **detection of "difficult" contaminants**, for better use of sustainable materials (recycled wood);
- **versatility**: the base machine can be equipped with optional accessories, to suit any individual needs.



	MACHINE MODEL RANGE								
	LYNX.100			LYNX.150			LYNX.200		
Material layer	**Fines Sawdust**	**Micro Chips**	**Macro Chips**	**Fines Sawdust**	**Micro Chips**	**Macro Chips**	**Fines Sawdust**	**Micro Chips**	**Macro Chips**
Mesh size (mm)	2,0 ÷ 3,0	8,0 ÷ 12,0	35 ÷ 45	2,0 ÷ 3,0	8,0 ÷ 12,0	35 ÷ 45	2,0 ÷ 3,0	8,0 ÷ 12,0	35 ÷ 45
Range (m^3/h)	10 ÷ 30	30 ÷ 50	80 ÷ 120	30 ÷ 50	50 ÷ 80	120 ÷ 180	50 ÷ 80	80 ÷ 100	180 ÷ 220

Above data are non-binding and they are provided for information purposes only.

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