

Specialized in custom industrial ovens

VERTICAL OVENS



ELMETHERM S.A. 87310 Saint-Auvent, France Tel. +33 (0)5 55 48 47 47 Fax. +33 (0)5 55 48 16 16

ZELYETKERY

Company know-how

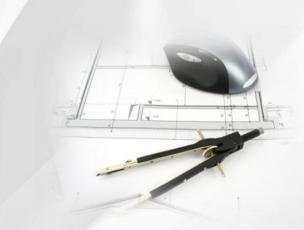
Design and **manufacturing** of turnkey and **custom industrial ovens**, with conveying and handling solutions for all industrial applications

>Thermal expertise up to 650°C (1200°F)

> Mechatronic solutions to load, unload, convey and handle products

Strengths of Elmetherm

Complete control of the manufacturing: mechanical and automation studies, assembling, wiring, testing and set-up in our workshop; commissioning on site
Custom design to match your specifications
Thorough aeraulic study for every project to guarantee the best heat homogeneity, effective drying of water and solvents





Industrial applications

•Heat treat: hardening, tempering, annealing, ageing, stabilization

- •Heat control: preheating, temperature holding, cooling
- •Drying : water and solvents exhaust
- •Material forming and production: polymerization, vulcanisation, sealing, gelation
- •Food industry: baking, dehydration, sterilisation, pasteurisation, roasting

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<u>Paternoster oven</u>

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moving

Industrial oven integrating vertical conveyor: the

parts are placed on swing

trays, fixed on chains and

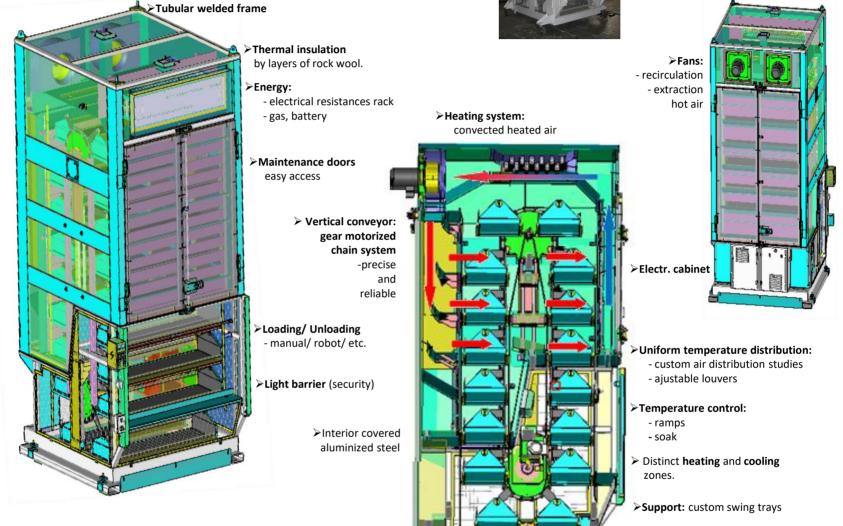
pattern of Paternoster.

according

the

The pros:

- ✓ Compact, single-block construction;
- ✓ Economical and performant conception;
- ✓ Reduced footprint;
- ✓ Convient and easy integration in existing production lines;
- ✓ Accessibility et mobility
- ✓ Numerous industrial applications.



Paternoster-Oven: dimensions

Total length	Total height	Total width,	Nbr of swing trays	Length swing tray	Width swing tray	Weight
mm	mm	mm	mm	mm	mm	t
2 300	4 450	1 900	22	600	500	< 3
2 500	4 800	1 400	18	800	500	< 3
2 600	4 800	1 600	18	1 000	500	< 4
2 600	5 000	2 300	18	1 200	500	> 4
2 600	5 000	2 300	18	1 600	500	> 4
5 600	4 700	2 700	22	2 600	640	> 10

Conditions of Use •Max. temperature : < 250 °C

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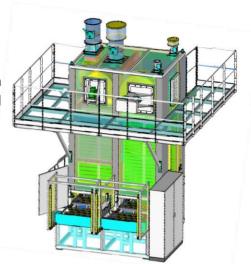


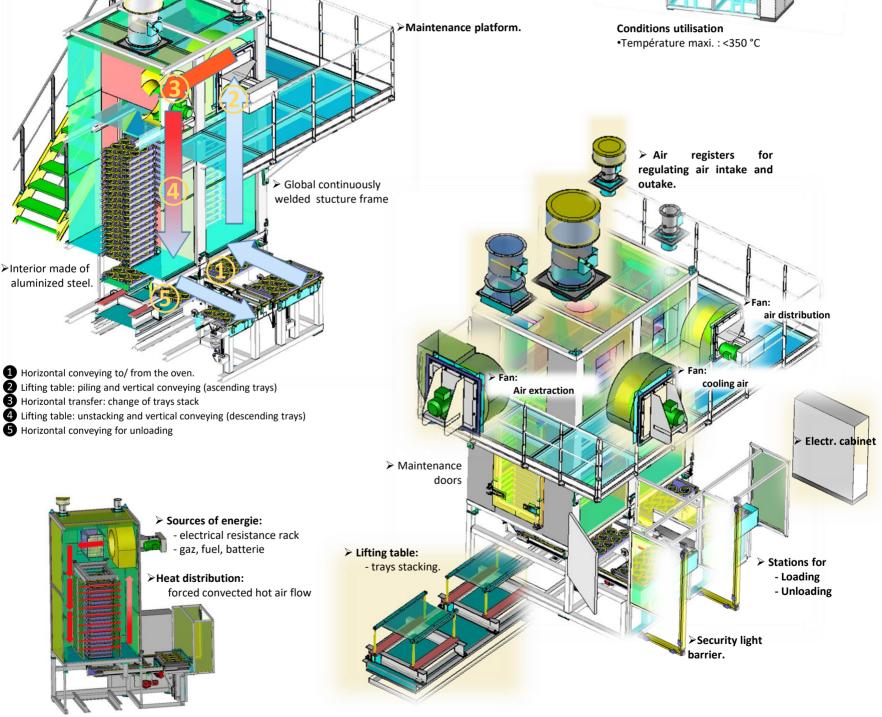
<u>Tray oven</u>

The pros:

- ✓ Compact, monobloc construction;
- ✓ Economical, performant conception;
- ✓ Reduced footprint;
- No mechanization freed of gears and chains:
 -extended temperature range
 -no lubrification.
- ✓ Numeruous industrial applications.

Vertical Trays Oven: workparts are deposited on trays. Stack of trays are moved vertically.



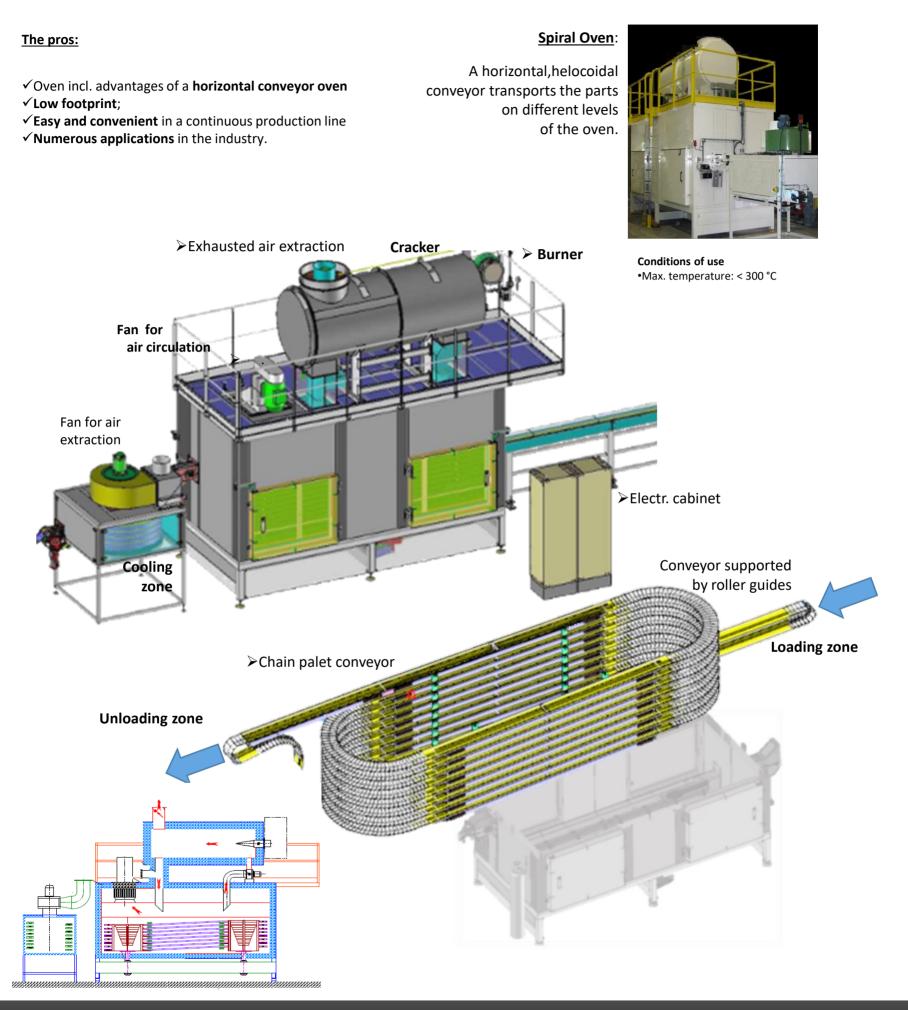


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<u>Spiral oven</u>



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The pros:

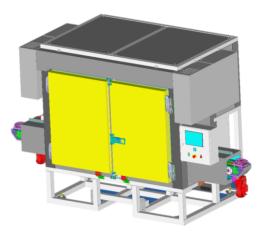
- Compact, monobloc construction;
- Economical and performant conception;
- ✓ Low footprint;
- ✓ Quick and continuous transfer;
- ✓ Implemented customer's trays; continuous process
- ✓ Numeruous applications.

Vertical conveyor oven:

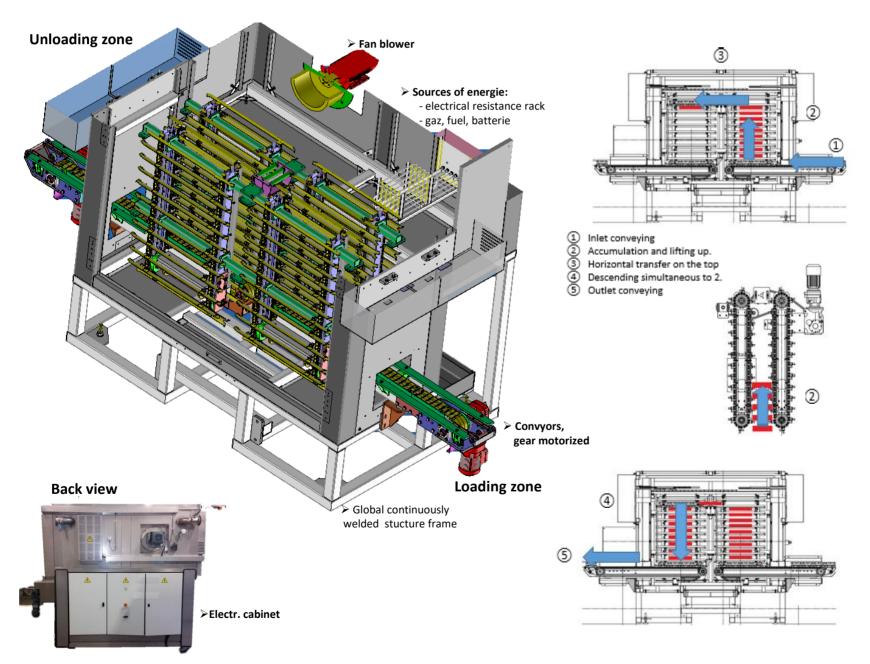
Two chain conveyor equipped with steel corners take in charge the parts deposited on customer's trays.

One chain conveyor transfers the trays to the top of the oven; the second chain conveyor transfers the trays to the bottom.

> Change of conveyor via pneumatic horizontal transfer.



Max. temperature of use •Temperature maxi. : < 300 °C



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For over 40 years, Elmetherm realizes industrial furnaces for a variety of industrial applications:

Car industry	
Aeronautics	
Steel & Aluminium industry	
Space and military industry	
Food industry	
Raw materials industry	

The specialist for custom industrial oven solutions

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