

Drying and curing ovens

Ovens for various purposes

AABO-IDEAL ovens are designed to handle a wide range of different tasks:

- Water drying
- Pre-heating of workpieces
- Drying of paint
- Curing of powder coating
- Curing of wet painting
- Technical heat finishing
- High temperature finishing

Our ovens are heated using:

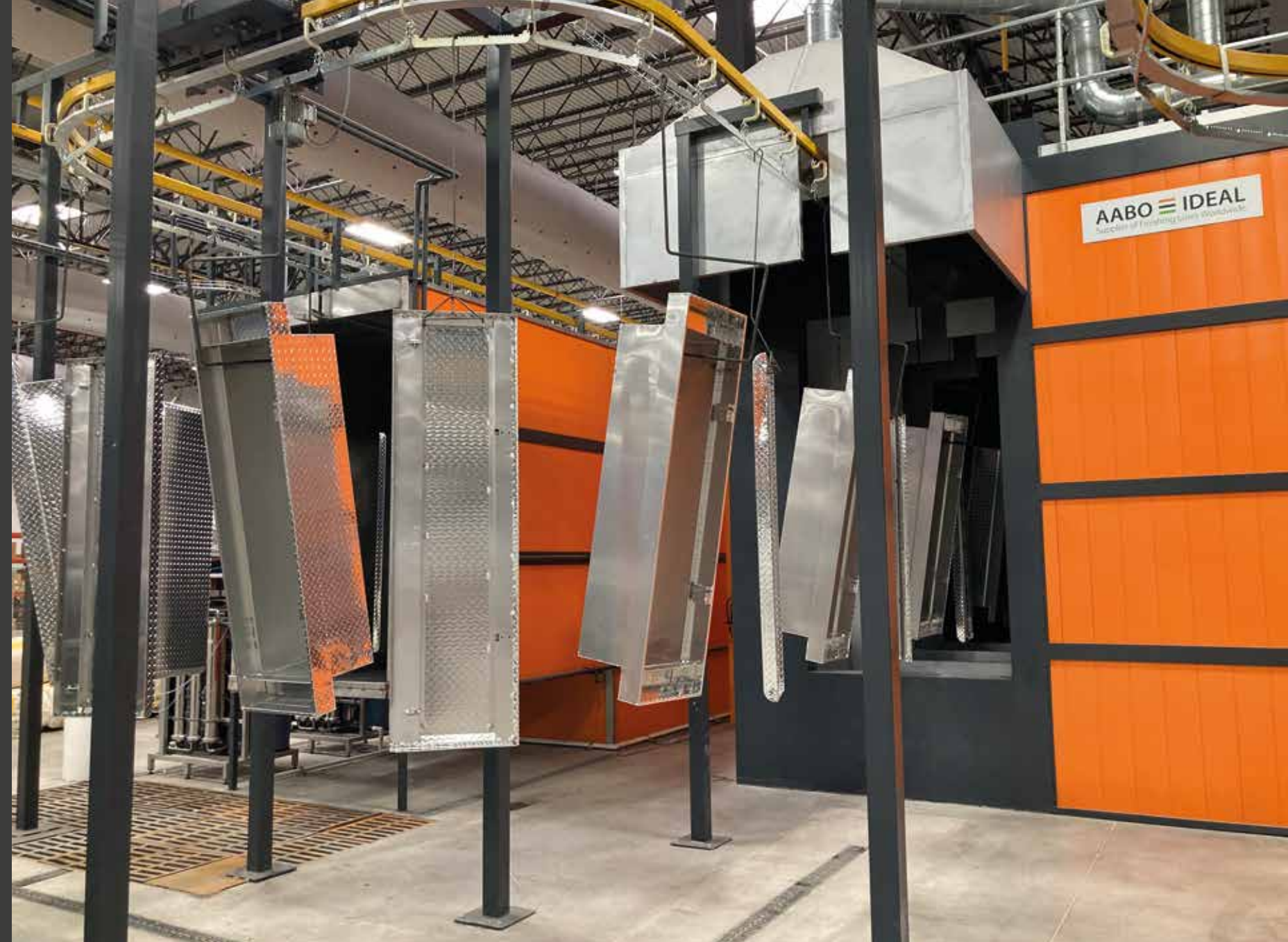
- Gas
- Electricity
- Oil

AABO-IDEAL has more than six decades of experience in manufacturing industrial solutions for surface treatment, and over the years we have supplied many ovens.

For optimum energy efficiency, all our ovens are designed and produced including the latest technology.

Each project has been thoroughly analyzed according to our customer's requirements always ensuring a tailor-made, high performing and environmentally friendly solution.

On these pages you will find technical information and examples of the AABO-IDEAL ovens.

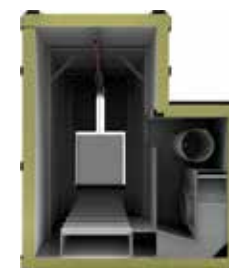


Energy efficient and environmentally friendly solutions

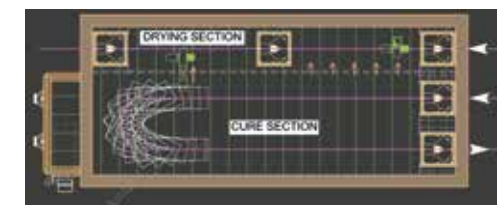
AABO-IDEAL offers the following solutions as part of our range of ovens:

- "Combined oven" principle.
- "Floating" inner chamber with a minimum of overhead suspension points.
- Extraction heat from curing oven recycled for water drying.
- Optimized combustion and ventilation units.
- Optimized internal heat convection.
- All motors comply with IEC standards.
- Frequency control of motors.
- Optimum insulation thickness according to process temperature.
- Heat recovery systems.

DIRECT HEATING



INDIRECT HEATING



- "Combined oven" principle.
- Layer-structured insulation: 0-100°C 100mm
100-250°C 200 or 310mm
250-550°C 450mm
- "Floating" core w/very few contact points.
- Heating sources: Gas - direct / indirect
Oil - indirect
Electricity
- Convection and IR (infrared) ovens.
- Possibility for replacement of insulation.
- Optimal air distribution throughout the oven.
- Optimal use of energy.
- Optimal heat transfer.
- Bottom or side heat injection.
- All motors comply with IEC standards.
- Modular construction.

**we
know
how**



Tunnel ovens

The products pass through the oven either continuously or by power & free conveyor with stops.

High air volume circulation ensures quick and very effective heat transference to the product; powerful fans distribute the heated air. This technique optimizes the process.



- 1 A-oven
- 2 Door oven
- 3 "Sluice" oven



- Suitable for semi or fully automatic conveyor systems
- Available for use at several temperature points – up to 250° C
- Convection principle
- Direct or indirect heating
- Available as: A-oven, "Sluice" oven, Door oven





Box ovens

This type of oven is typically used for manual lines or high-capacity power & free lines.

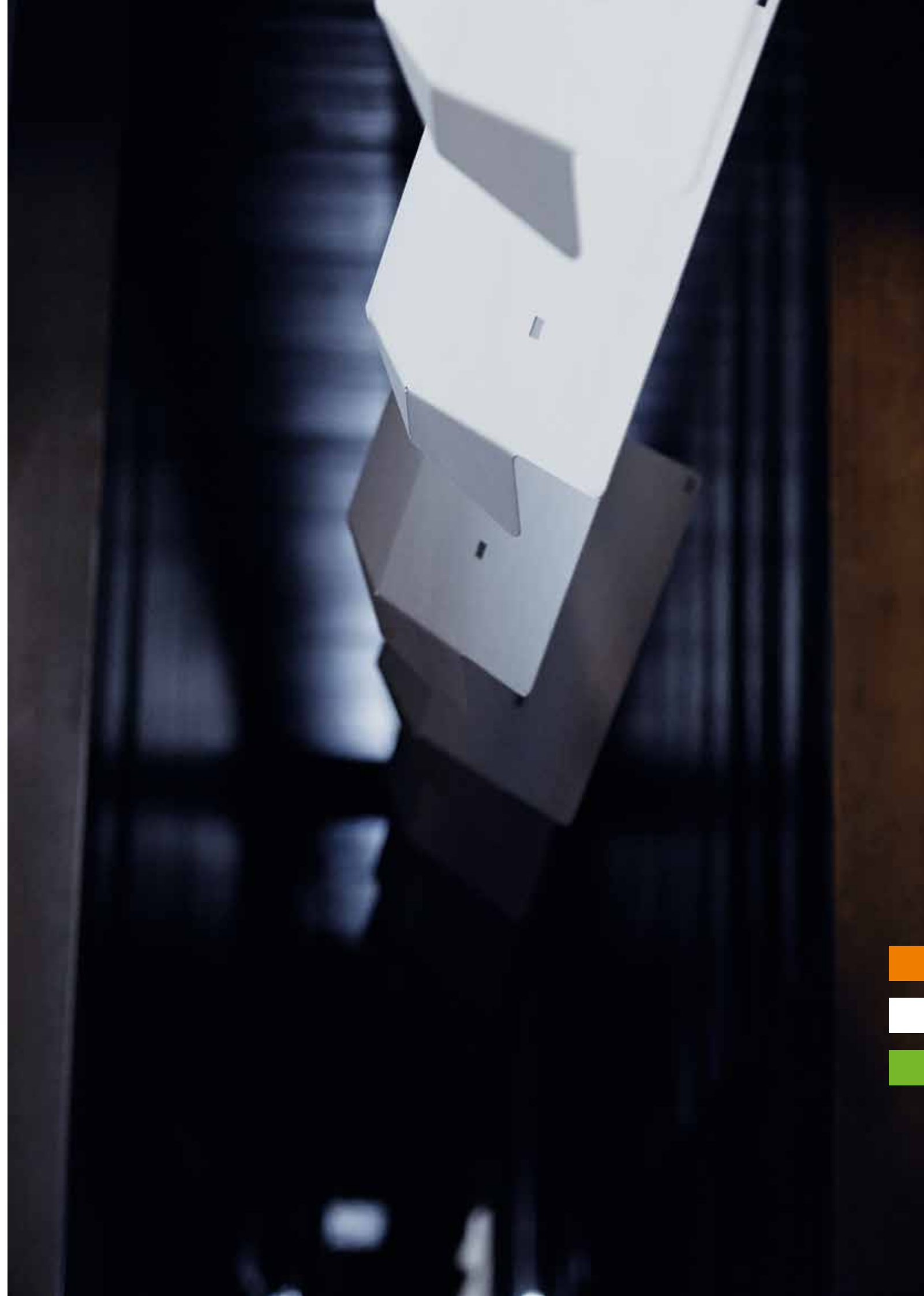
A special type of box oven is used in a crane operated system; here the products enter the oven vertically by crane.

Box ovens are convection ovens that ensure efficient heat transference to the product.

The powerful fans distribute the heated air through ducts in the entire length of the oven.



- Suitable for manual or power & free conveyor systems
- Can be used as standalone units
- Available for use at several temperature points – up to 550° C
- Convection principle
- Direct or indirect heating
- Available as: Door oven





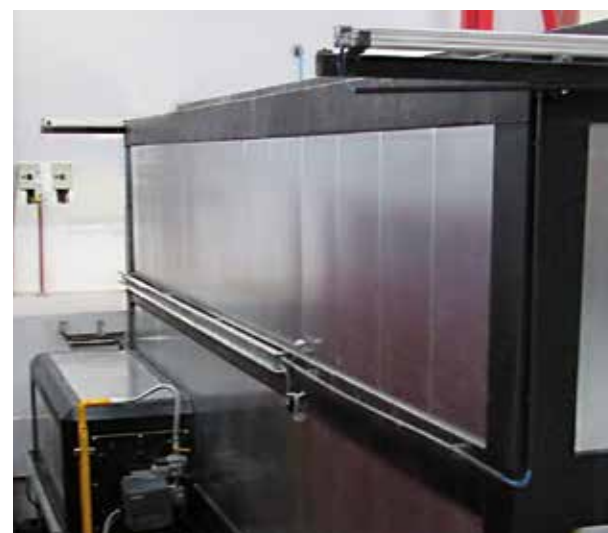
Dip ovens

A dip oven is usually used for manual or automatic crane systems in which dip heat treatment is required during the finishing process.

The AABO-IDEALS dip ovens are available for use at several temperature levels. This means our ovens are available with a variety of different insulation layers and constructions:

- 0 - 100° C : 100 mm
- 100 - 250° C : 200 or 310 mm
- 250 - 550° C : 450 mm

The dip ovens are designed as a "floating" internal core, suspended using a minimum of contact points to the bearing external construction. This minimizes the development of a heat bridge. To ensure optimum energy utilisation the dip ovens are all based on the convection principle.



- Suitable for manual or automatic crane systems

- Available for use at several temperature points
– up to 250° C

- Convection principle

- Direct or indirect heating

- Available as: Door oven





High temperature ovens

This type of oven can be constructed as tunnel or box oven; it is made of stainless steel with a very small expansion coefficient.

The skeleton is made of strong mild steel frames on which the stainless steel cassettes are placed in a holder allowing the whole inside of the oven to move freely to avoid oven damage due to the expansion.

High temperature ovens can handle an operating temperature up to 550° C.

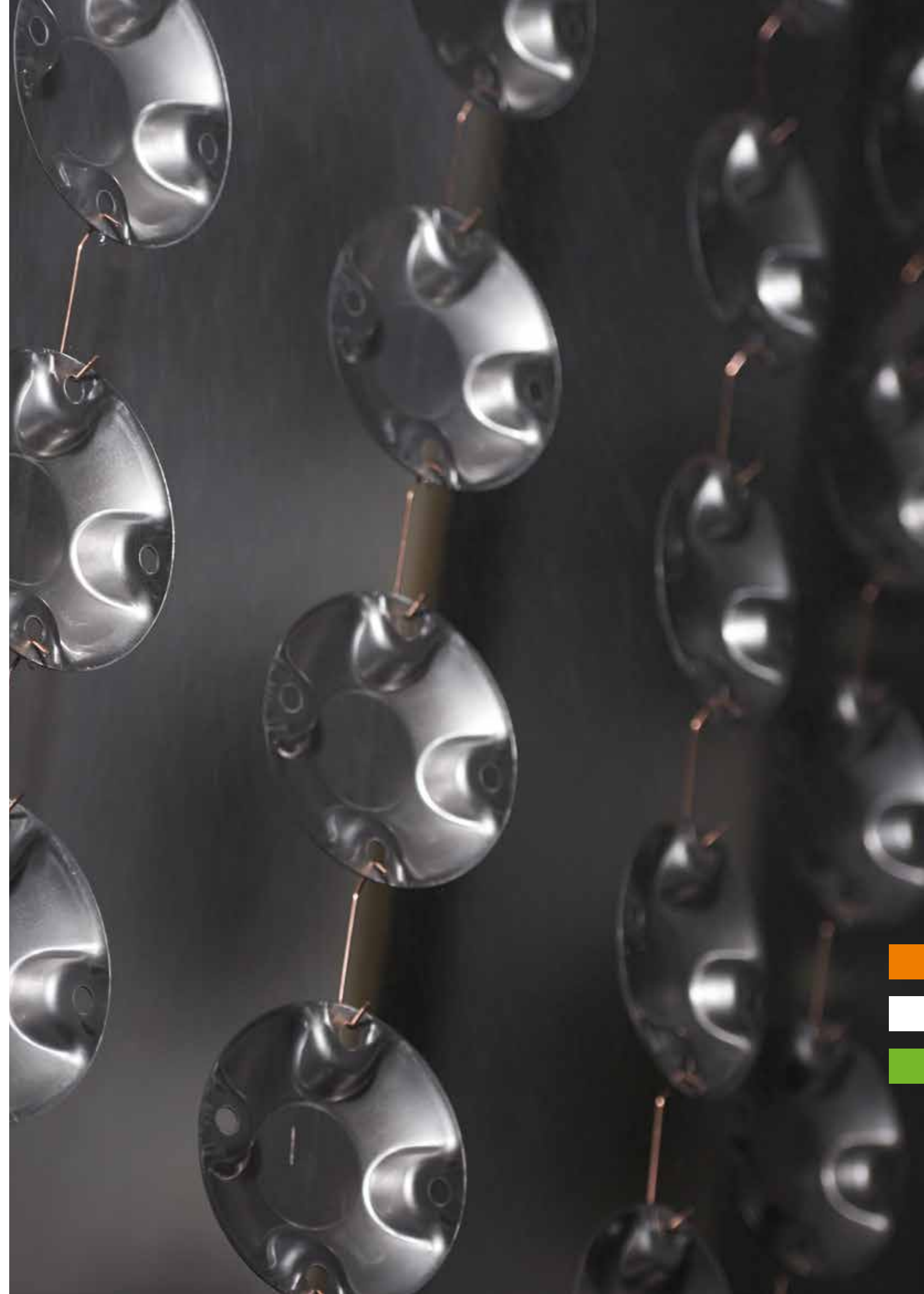


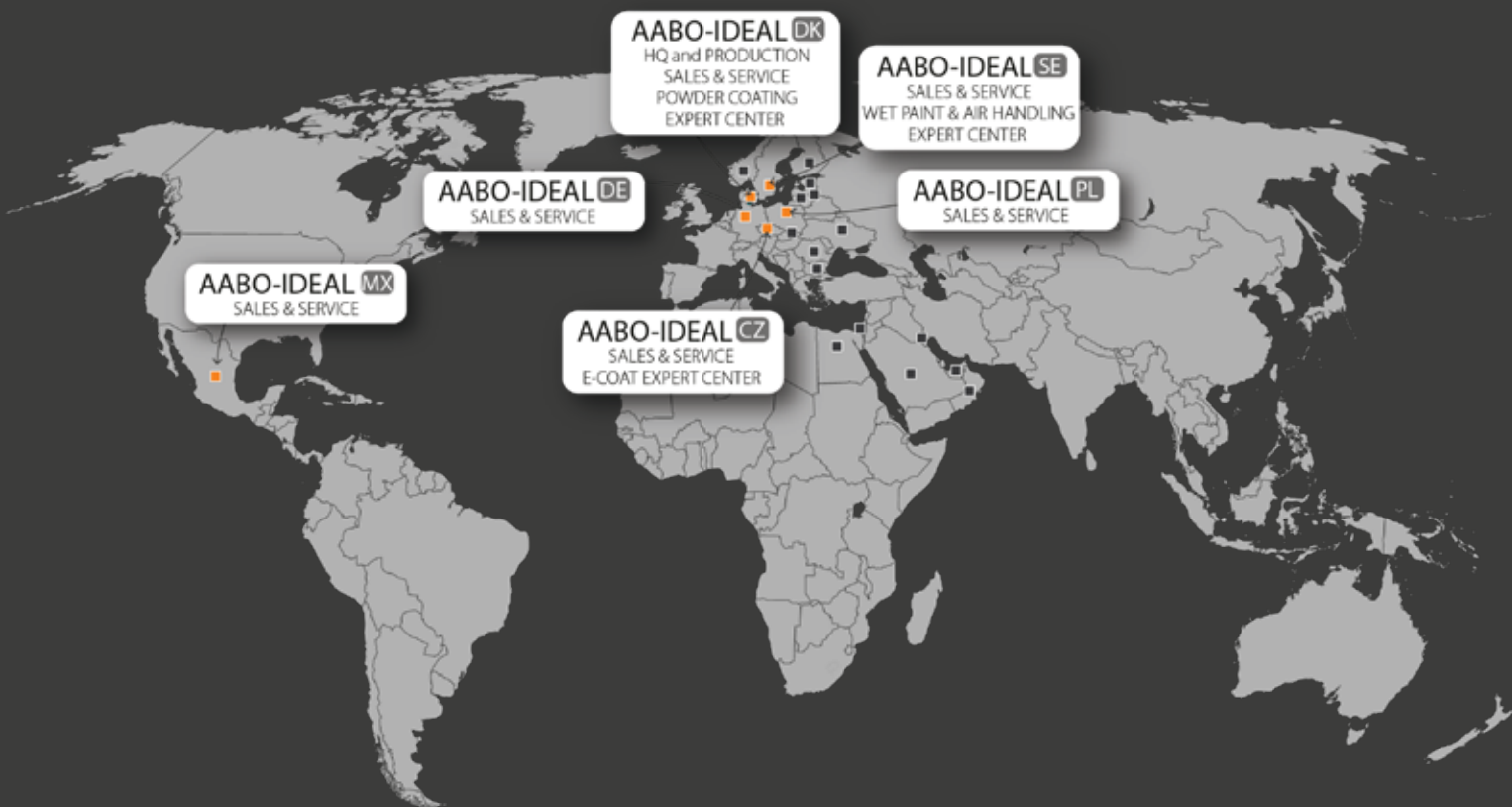
- Available for use at several temperature points – up to 550° C

- Convection principle

- Direct or indirect heating

- Available as: Box oven





- AABO-IDEAL headquarters and subsidiaries
- AABO-IDEAL agents

Represented world wide



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