

ECO

THE SUSTAINABLE
ALTERNATIVE TO
ATMOSPHERIC
FURNACES



ECM
TECHNOLOGIES

The **ECO Furnace** is a double chamber system composed of one heating cell and one integrated **quenching** cell. It is a compact installation that aims at replacing sealed quench furnaces or IQ furnaces for heat treatment operations. Its development was based on four pillars : environmental impact, efficiency, metallurgical quality and ease of integration into existing heat treatment lines.



ECO - Oil quenching

- E-Mobility : Hybrid and EV
- Automotive Industry
- Mining
- Aeronautics
- Industrial Tooling
- Heat Treaters

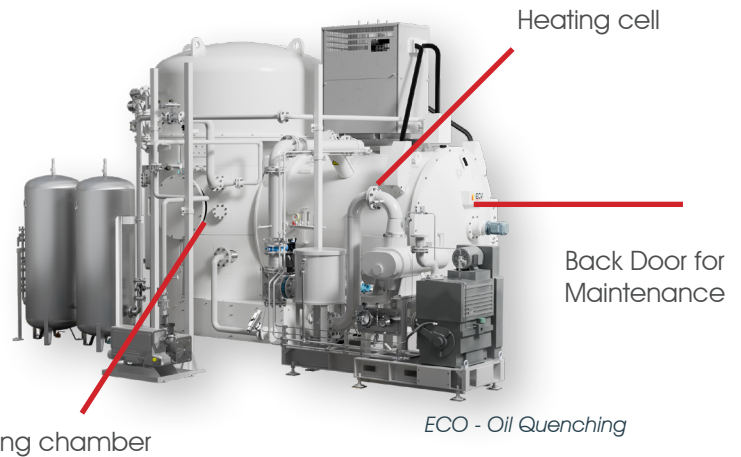
ADVANTAGES

- **Sustainable** solution : reduction of CO2 emissions up to 80% and energy consumption reduced by 40%
- **Safety** : no flames, no fire hazard
- Better **metallurgical** quality
- Easy **integration** in existing lines
- Machine compatible with **AMS2750 & CQI9** standards



LAYOUT & PROCESSES

- Low pressure carburizing
- Low pressure carbonitriding
- Hardening
- Brazing
- Sintering
- Oil quenching / Gas quenching
- Vacuum annealing



TREATMENT CAPACITY

ECO range	OIL QUENCHING		GAS QUENCHING	
	Useful dimensions L*W*H	Gross load	Useful dimensions L*W*H	Gross load
◆	600 mm x 450 mm x 450 mm	200 kg	600 mm x 450 mm x 450 mm	200 kg
◆	1000 mm x 610 mm x 750 mm	750 kg	1000 mm x 610 mm x 660 mm	500 kg
	1220 mm x 910 mm x 910 mm	1500 kg		

- ◆ Pitless oil quenching design

ENVIRONMENTAL IMPACT

ECO range furnaces support the industrial ecological transition by allowing a strong reduction in the carbon impact of heat treatment operations. This is particularly enabled thanks to :

- No endo gas generator
- Higher temperature treatments that reduce cycle times
- No CO gas used for carburizing operations
- Electrical heating system



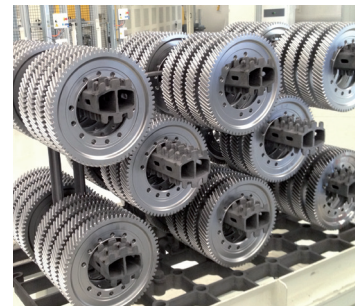
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