

ECO

THE SUSTAINABLE
ALTERNATIVE TO
ATMOSPHERIC
FURNACES



ECM
TECHNOLOGIES

The **ECO Furnace** is a double chamber installation made of a heating cell and an 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

- Automotive : Hybrid and EV
- 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
- Compliance with **AMS2750 & CQI9** standards



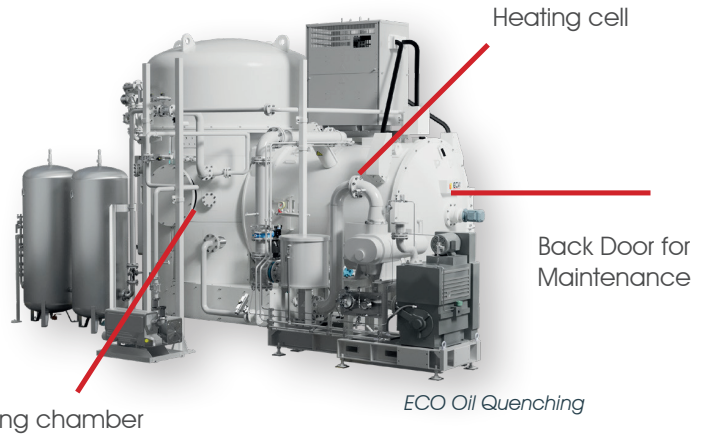
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LAYOUT & PROCESSES

- Low pressure carburizing
- Hardening
- Brazing
- Sintering
- Oil quenching
- Gas quenching
- Annealing
- Tempering



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



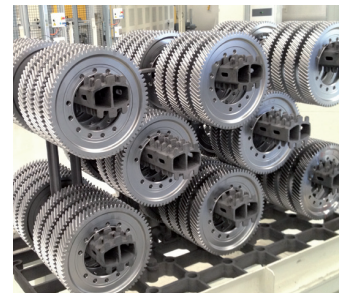
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