

CODEPE SA

INDUSTRIAL FURNACES SWITZERLAND

BATCH TYPE FURNACE LINE IN MODULAR CONSTRUCTION



Hardening
Carburizing
Carbonitriding
Quenching
(in oil/water/salt)
Nitriding
Nitrocarburizing
Tempering
Annealing

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INDUSTRIAL FURNACES SWITZERLAND

CONSULTING, DEVELOPMENT, RESEARCH AND MANUFACTURE OF INDUSTRIAL FURNACES

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AGENT'S STAMP



SYSTEM 250

BATCH TYPE FURNACE LINE
under controlled atmosphere, in modular construction
No mechanical locking of the charge

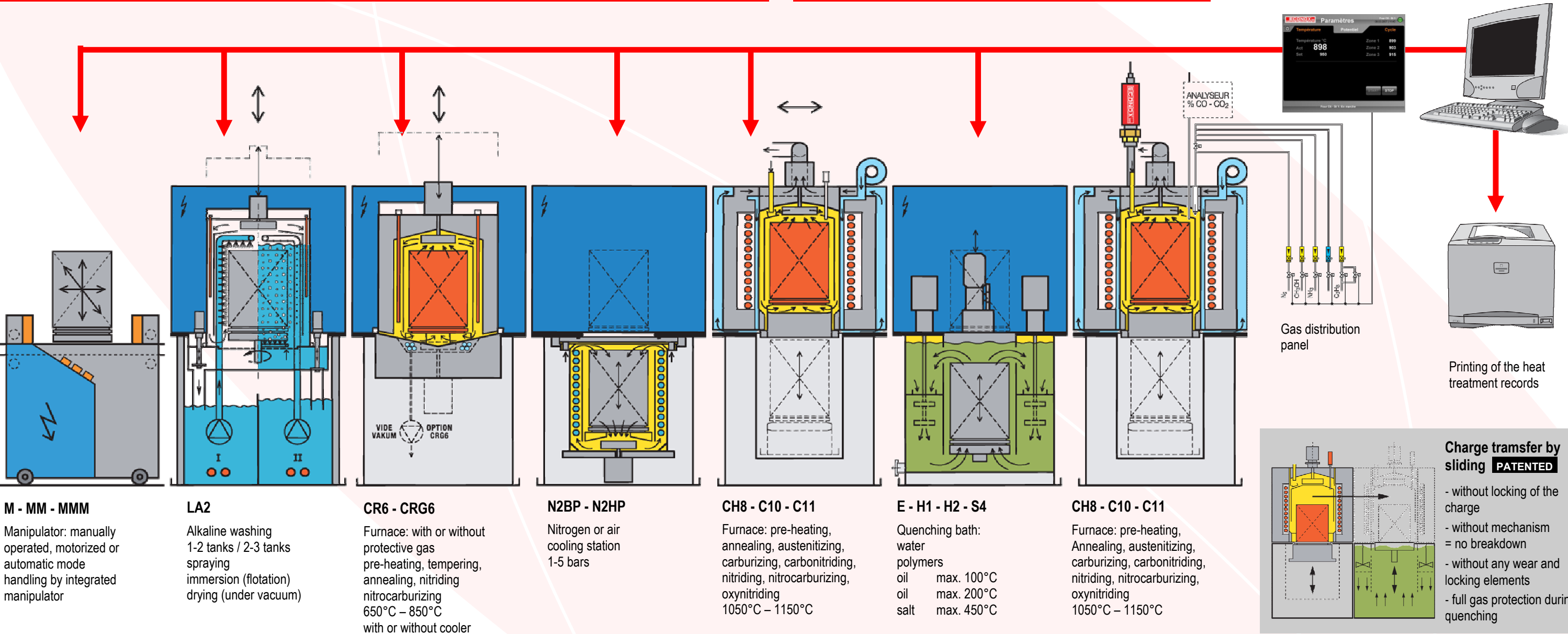
SYSTEM 250
PATENTED

Resuming by hand possible

Treatment programme

Control and monitoring system

Console for programming and visualisation



A concept for the future and its advantages
To let the load slide is easier and more reliable than to lock it.

- Half or fully automated operation (automates + monitoring system)
 - Change of heat-treatment atmospheres within minutes
 - Several temperature ranges (1150°C – 1000°C – 850°C – 650°C)
 - Cylindrical tight heat-treatment chamber (very long working life)
 - Uniform, intense forced circulation of the furnace atmosphere
 - No mechanical locking of charge, no intermediate charge support
 - All modules with double jacket, evacuation of exhaust gas at only one point
 - Visualization of the running program, the running and registered cycles and of the alarms
 - Printing of the production records
 - The installation is operated by only one person, reproducibility of the heat treatments
 - Great flexibility when changing temperatures, forced gas circulation through the charge
- Space-saving dimensions, reduced height, no special foundation necessary
 - Modular system. Numerous installation combinations according to requirements
 - High uniformity of temperature ($\pm 3^\circ\text{C}$) and carbon potential ($\pm 0.05^\circ\text{C}$)
 - More operation safety, round or square charges
 - Simple handling, preparation ramp and transfer table
 - Less distortion, less allowance for machining, homogeneous hardness
 - Computerized monitoring
 - In case of breakdown of a module, the other modules are fully operational
 - Modular line with expansion possibilities
 - Production doubling by adding a new module
 - Possibility of integration into a production line

SYSTEM 250
PATENTED

Technical data	units	ø 30/35	ø 42/60	ø 42/100	ø 70/60	ø 70/100	ø 90/60	ø 90/100	ø 90/150	ø 120/100	ø 120/150	ø 200/330
Charge												
Maximum charge (gross weight)	kg	30	150	250	350	500	600	1000	1500	1400	2000	3000
Outside diameter	mm	300	430	430	710	710	920	920	920	1120	1120	2000
Effective height	mm	400	650	1050	670	1070	690	1090	1590	1090	1590	3300
Charge volume	dm3	25	80	140	220	360	380	630	960	950	1400	9500

Electric heating and/or Gas heating available - Other dimensions on request