

FLEX

MODULAR &
MULTI-PROCESS
HEAT TREATMENT
INSTALLATION



ECM
TECHNOLOGIES

The ICBP® Flex is the most popular solution of ECM's Low Pressure Carburizing furnaces range. Its modular and compact architecture, based on a tunnel concept, is designed to meet the highest demands in terms of part processing quality and productivity. It can be assembled with oil quenching and / or gas quenching equipment as well as several heating cells, which number depends on the required production capacity.



- E-Mobility
- Aeronautics
- Industrial tooling
- Industrial reducers
- Heat treatment workshops
- Mining

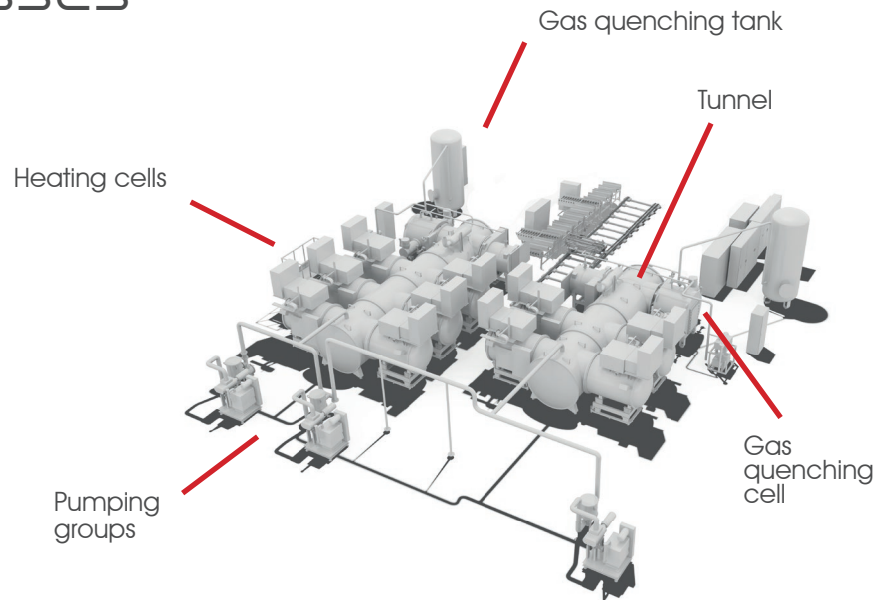
ADVANTAGES

- **Flexibility** : easy addition of cells to existing installations
- Improved **productivity** : shorter treatment cycles and excellent repeatability
- Modular & **multi-process** solution
- Strong **cut in CO2 emissions**



LAYOUT & PROCESSES

- Low pressure carburizing
- Low pressure carbonitriding
- Hardening
- Brazing
- Sintering
- Oil quenching / gas quenching
- Tempering
- Nitriding
- Nitrocarburizing (FNC)
- Vacuum annealing



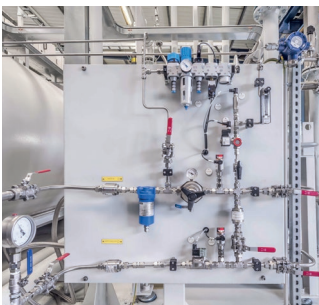
TREATMENT CAPACITY

Flex	Gross load	Width	Height	Length
	750 Kg	610 mm	750 mm	1000 mm
	750 Kg	610 mm	900 mm	1000 mm

MODULAR & MULTI-PROCESS CONCEPT

The benefits of vacuum installations rely on an easier integration of the equipment, a cleaner and safer work environment, and a better overall energetic performance.

The modular FLEX heat treatment installation is able to combine several processes in a single and fully automated machine, such as : nitriding, nitrocarburizing, low pressure carburizing, low pressure carbonitriding, brazing and sintering operations. This can be achieved in combination either with high pressure gas or vacuum oil quenching.



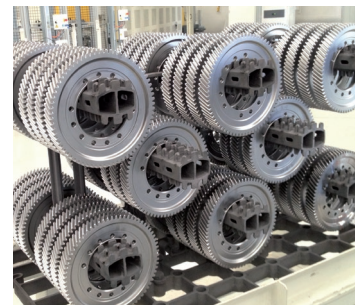
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