

# JUMBO

## MODULAR AND MULTI PROCESS HEAT TREATMENT SYSTEM



**ECM**  
TECHNOLOGIES

The ICBP® Jumbo completes the range of ECM Technologies' solutions by allowing to handle large loads and/or large production volumes. This solution, articulated around a central shuttle on rail, keeps all the qualities of the modular and compact architecture of the ICBP® Flex and allows to go even further in terms of quantity of parts treated in a heat treatment installation, while keeping the best metallurgical quality.



- E-Mobility
- Automotive
- Aeronautics
- Tooling
- Reducers
- Flexible heat treatment shops
- Mining

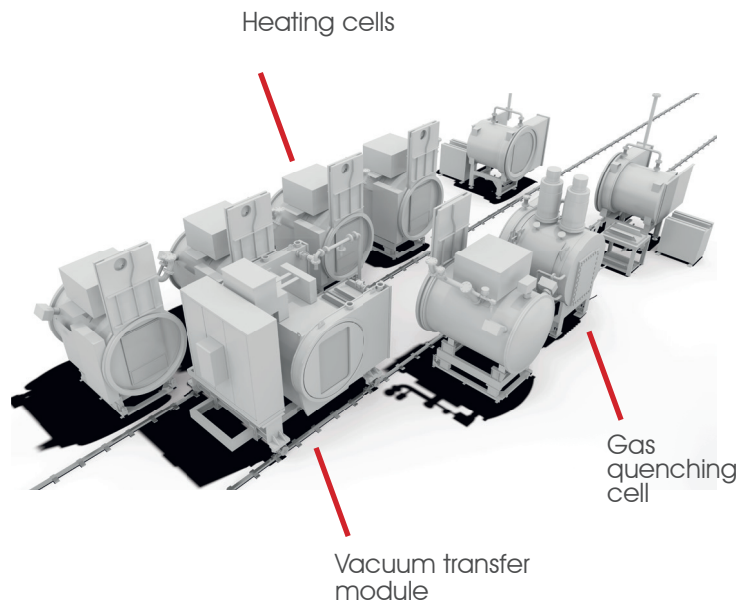
## ADVANTAGES

- **Optimized layout** thanks to cells facing each other
- Maintenance possible while producing : **reduced downtimes**
- Heated and insulated vacuum transfer module
- Excellent **reproducibility** from load to load / part to part
- Strong cuts in CO2 emissions



# A MULTI PROCESS SYSTEM

- Low Pressure Carburizing
- Vacuum Hardening
- Brazing
- Sintering
- Oil and/or gas quenching
- High Temperature Annealing
- Tempering



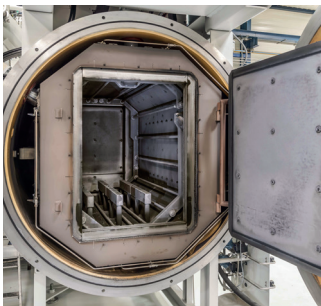
## TREATMENT CAPACITY

Jumbo	Gross weight	Width	Height	Length
	750 Kg	610 mm	750 mm	1000 mm

## MODULAR CONCEPT

The ICBP Jumbo is a modular and flexible system with heating cells facing each other. It has the capacity to integrate both gas quenching and oil quenching on the same line. In order to avoid high downtimes, there is the possibility to perform maintenance operations during production thanks to the rails on which the cells are mounted.

The central module is both heated and insulated to ensure temperature uniformity of the load during the transfer to the quenching.



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