



# SEAL QUENCH BATCH FURNACES



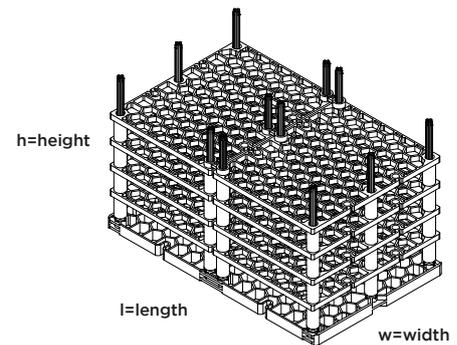


# SEAL QUENCH BATCH FURNACES



Standard dimensions of our seal quench batch furnaces:

Batch furnaces for gas carburizing quenching and hardening	charge dimensions (w x h x l)	charge gross-weight
IVR-SQ-6-6-9	610x610x910mm	500 kg
IVR-SQ-7-7-12	760x760x1220mm	800-1000 kg
IVR-SQ-9-9-12	910x910x1220mm	1000-1200 kg
IVR-SQ-9-11-12	910x1100x1220mm	1500 kg
IVR-SQ-10-11-12	1050x1100x1220mm	1500-1800 kg
IVR-SQ-12-9-15	1220x910x1520mm	1800-2000 kg



**NB: other dimensions are possible and achievable according to the client's needs and specifications**

The industry market and the final consumers are more and more attentive to the results of the heat treatment of the treated components. This is why our experience combined with the continuous research and the great flexibility of our seal quench batch furnaces, allows us to satisfy completely the customer's requests. IVR's seal quench batch furnaces are machines that can work completely automatic (24/24h and 7/7 days), with the possibility of remote control, thanks also to the use of new supervision and control technologies and use of code detection systems, monitoring with cameras, etc. These modern systems also allow the integration of the furnaces and the lines in the management of Industry 4.0. Inside the line it is possible to carry out the whole heat treatment cycle: case hardening / hardening, quenching in oil or salt or polymer, pre-post-washing, tempering, cryogenic, nitriding; moreover, the plants can be used with protective atmosphere as for example: nitrogen, nitrogen-methanol or endogas atmosphere. The cooling system of our machines can be made without using water, making them even more safe and reliable. The plants can be electrically or gas heated. Further advantages of this solution are the precise regulation of the carbon potential and the excellent temperature uniformity.

Our seal quench batch furnaces are available:

- in single chamber version or
- with multiple heat treatment chambers.

Other machines can be placed next to the chamber furnace, as for example:

- Tempering and annealing furnaces with working temperature 450°C / 500°C / 750°C / 900°C, with and without atmosphere.
- nitriding furnaces
- cryogenic furnaces
- washing machines
- single or multi-level loaders / unloaders
- single or multi-level storages with test bays

