

**Super IQ™
Integral Oil
Quench**



SUPER IQ

Innovative Gas Carburizing and Through Hardening

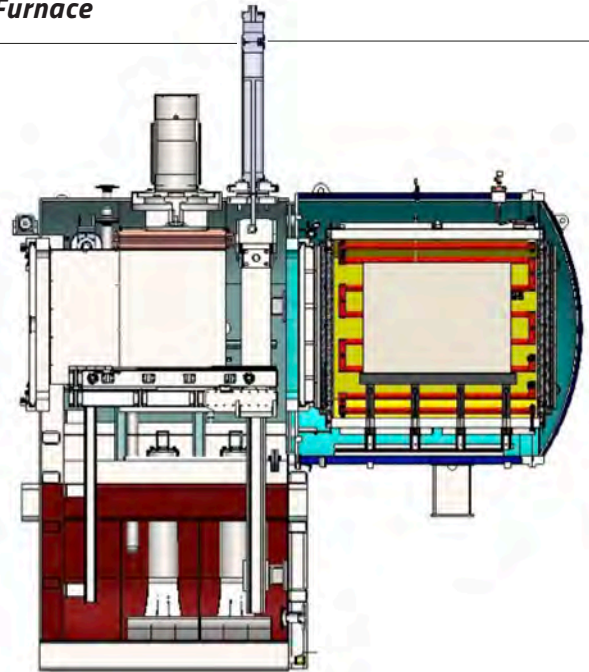
- **No** flames, **no** endothermic gas!
- Proven gas carburizing the low pressure way
- Oil quenching with standard quench oils
- Turn it on, turn it off – no conditioning
- Effortless through-hardening
- High temperature hardening of tool steels and more
- Easy to own, easy to use

/ Super IQ Gas Carburizing and Through Hardening Furnace

Description:

The Super IQ is available in one size (36" wide x 36" tall x 48" deep). The standard design includes loading through the quench vestibule and additional slow cooling in Nitrogen available over the oil.

D-Type Double chamber for batch (in & out) work with integral oil quench, plus nitrogen slow cooling.



Industries:

- Industrial Equipment
- Automotive
- Energy
- Gears
- Bearings
- Commercial Heat Treating
- Tool & Die
- Agriculture
- Oil & Gas
- Aerospace





Lose the flames!

Furnace Benefits & Advantages:

- No endothermic generators needed!
- No flames
- Low use of process gases (acetylene), nitrogen
- High temperatures (over 2000°F) with no damage to furnace
- Nominal temperature up to 2200°F
- Process simulators & fully automated processing
- Flexibility, no idling needed on weekends – turn it on, turn it off
- Meets AMS 2750E (+/- 10°F uniformity)
- Fast transport times to quench (less than 30 seconds)
- Compact, modular design
- Highly agitated oil circulation design



Go clean – Super IQ integrates with older gas carburizers and material handling systems.

Furnace Features:

- Oil quenching
- Fast transfer to quench
- Decarb-free through hardening
- Carburizing with FineCarb®
- "Top" cooling in nitrogen gas
- Uses standard quench oils

Auxiliary Equipment:

- Tempering furnaces (air, N₂ or vacuum)
- Parts washers
- Closed loop water cooling systems
- Loading and unloading (can use existing loader)
- Loading trays
- Fully automated loading/multicell
- Cryotemper

Find out more about our Super IQ!



Specifications

Style	SIQ-17
Workload Size W x H x L Inches (mm)	36 x 36 x 48 (914 x 914 x 1219)
Maximum Gross Load – lbs. (kg)	3300 (1510)

240 kWh heating power

Auxiliary Equipment

- Tempering furnaces
- Batch post- and pre-washers
- External closed loop water cooling system
- Mobile loading and unloading machines
- Loading trays
- And more – ask a Sales Rep for a complete list

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