

## Vacuum oil gas quenching furnace

Model : VOGQ-3345



### 1.Usage

This equipment is a multipurpose vacuum heat treatment equipment, widely used in stainless steel, mold steel, tool steel, alloy structural steel, gear steel, cemented carbide work piece vacuum oil quenching, also used in high speed steel, high ally mold steel, high temp alloy vacuum pressure gas quenching, this equipment has non-oxidation, decarburization, degassing, debinding, small deformation features.

## 2.Main technical index of furnace

Furnace type: double chamber, horizontal type

Ultimate vacuum degree:  $2 \times 10^{-1}$ Pa (heat chamber)

Pressure rising degree:  $\leq 0.65$ Pa/h (heat chamber)

Loading capacity: 60Kg (including basket and clamp)

Working zone size: 300(W) $\times$ 300 ( H )  $\times$ 450 ( L ) mm

Max temp: 1300 $^{\circ}$ C

Temperature uniformity:  $\leq \pm 5^{\circ}$ C ( 800 $^{\circ}$ C-1000 $^{\circ}$ C )

Max temp rising rate: empty furnace from room temp to 1100 $^{\circ}$ C in 60min

Temp control accuracy: $\pm 1^{\circ}$ C

Control method: programmable PLC, touch screen display and index setting

Temp control method: MITSUBISHI PLC and PID control

Operation method: Auto / manual

Heating power: 50KW

Quenching gas charging pressure: 2 bar (absolute pressure)

Work-piece transfer time:  $\leq 25$ sec

Cooling water consumption:  $\leq 15$ cbm/hour