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## DOUBLE CHAMBER VACUUM FURNACE FOR HEAT TREATMENTS

ICBP® Duo TH Oil Quenching and ICBP® Duo TG Gas Quenching comprises 2 independent chambers separated by a vacuum-tight door. Both solutions are compatible with AMS 2750 E and suitable for the treatment of aeronautics parts. ICBP® Duo TH Oil Quenching: hot or cold oil quenching;

ICBP® Duo TG Gas Quenching: up to 20 bars for gas quenching (Nitrogen / Argon / Helium).

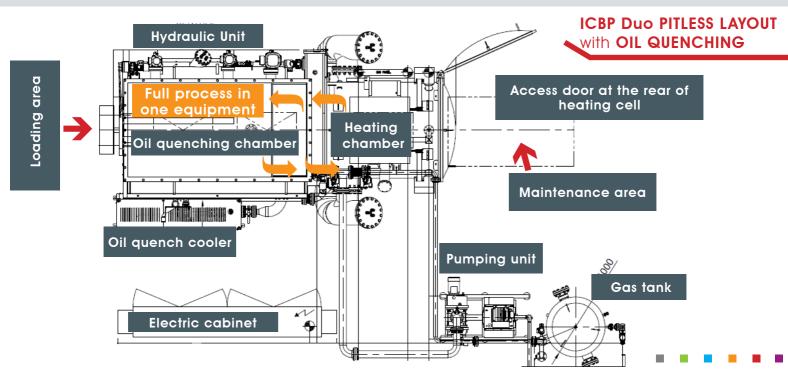


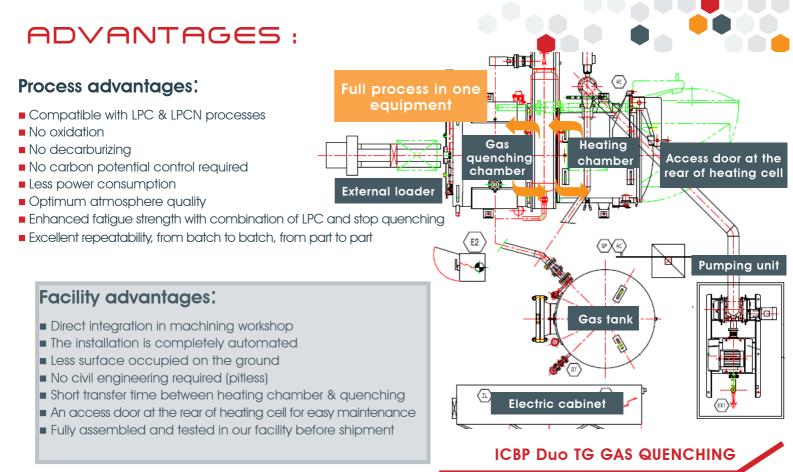
ICBP Duo® TH Oil Quenching

ICBP Duo<sup>®</sup> TG Gas Quenching

#### MAIN STRENGTHS :

- The design is optimized to shorten treatment cycles thanks to the heating chamber which is already hot;
- High quenching efficiency: cold quenching chamber with vacuum-tight door separation;
- Enhancement of treatment quality by using mature and patented Low Pressure Carburizing (LPC) & Carbonitriding (LPCN) processes already proven on more than 200 installations and 1100 ICBP heating cells throughout the world.





### TREATMENT CAPACITY :

	oil quenching			gas quenching		
Range		Useful dimension L*W*H	Gross load		Useful dimension L*W*H	Gross load
ICBP® DUO 644		600 mm x 450 mm x 450 mm	200 kg		600 mm x 450 mm x 450 mm	250 kg
ICBP® DUO 966		1000 mm x 610 mm x 750 mm	750 kg		960 mm x 610 mm x 660 mm	500 kg
ICBP® DUO 1299		1200 mm x 910 mm x 910 mm	1500 kg			
Working temperature from 800 °C to 1,200 °C, maximum temperature is 1,250°C						

#### POSSIBLE PROCESSES

- Vacuum carburizing
- Vacuum carbonitriding
- Hardenina
- Precipitation hardening
- Vacuum annealing
- Brazing
- Sinterina



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**OPTIONS** 

- Machine compatible with AMS2750
- Protective atmosphere convection heating
- System for exhaust gas treatment
- Cooling water loop
- Quenching gas recovery system (for Helium)

 All peripherals such as washing machine, preheating, tempering, storage, transfer system and loading/unloading stations, etc.



