ICBP® Duo TH Oil Quenching comprises 2 independent chambers separated by a vacuum-tight door. This furnace is compatible with AMS 2750 E and suitable for the treatment of aeronautics parts. ICBP® Duo TH Oil Quenching does not need any pit installation which reduces the floor space. Quenching cell can use hot or cold oil.

**MAIN STRENGTHS**

- The design is optimized to shorten treatment cycles thanks to the heating chamber which remains hot.
- High quenching efficiency: cold quenching chamber with vacuum-tight door separation.
- Enhancement of treatment quality by using our INFRACARB® Low Pressure Carburizing (LPC) & Carbonitriding (LPCN) processes already proven on more than 1100 ICBP heating cells worldwide.
- Pitless Design up to 966 size.
Process advantages:
- No oxidation
- No decarburizing
- No carbon potential control required
- Less power consumption
- Optimum atmosphere quality
- Enhanced fatigue strength with combination of LPC and stop quenching
- Excellent repeatability, from batch to batch, from part to part

Facility advantages:
- Direct integration in machining workshop
- The installation is completely automated
- Less surface occupied on the ground
- No civil engineering required (pitless)
- Short transfer time between heating chamber & quenching
- Easy maintenance: back and lateral doors, oil is mixed by an internal hydraulic turbine, sensors and actuators located externally...

POSSIBLE PROCESSES
- Vacuum carburizing
- Vacuum carbonitriding
- Hardening
- Precipitation hardening
- Vacuum annealing
- Brazing
- Sintering

OPTIONS
- Machine compatible with AMS2750
- Protective atmosphere convection heating
- System for exhaust gas treatment
- Cooling water loop
- All peripherals such as washing machine, preheating, tempering, storage, transfer and loading/unloading stations, etc.

TREATMENT CAPACITY

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Oil Quenching Chamber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>Pitless</td>
</tr>
<tr>
<td>ICBP® DUO 644</td>
<td>600 mm x 450 mm x 450 mm</td>
</tr>
<tr>
<td>ICBP® DUO 966</td>
<td>1000 mm x 610 mm x 750 mm</td>
</tr>
<tr>
<td>ICBP® DUO 1299</td>
<td>1200 mm x 910 mm x 910 mm</td>
</tr>
</tbody>
</table>

Working temperature up to 1,200 °C