

# VPA-VPC & FIC LINES



CHEMICAL VAPOR DEPOSITION  
INSTALLATIONS DEDICATED TO

ALUMINIZING  
CHROMIZING  
FLUOR ION CLEANING

Chemical vapor deposition is a process which allows the creation of a deposit on the surface of mechanical parts to protect them from oxidation and corrosion. This process also allows giving specific properties to treated parts, such as strong resistance to heat.

Serthel Industrie's CVD installations can handle all kinds of deposition / coating treatments:

- Vapor phase aluminizing (**VPA**)
- Vapor phase chromizing (**VPC**)
- Fluor ion cleaning (**FIC**)



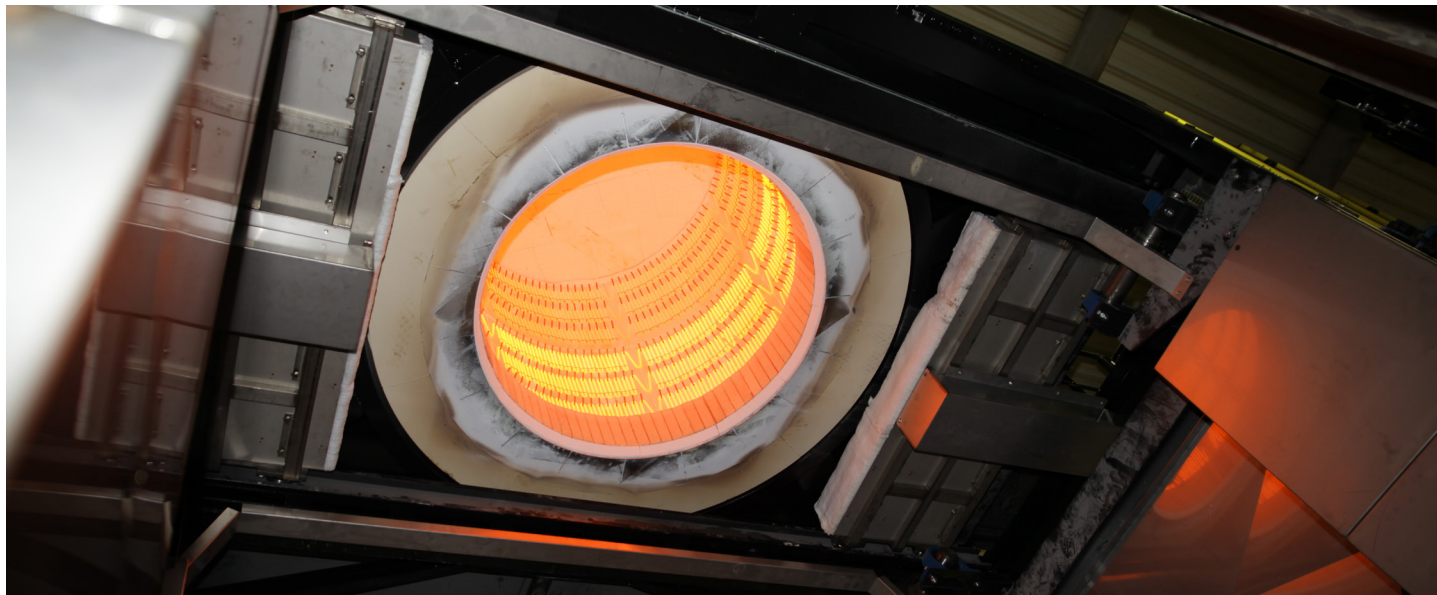
These furnaces are particularly adapted to Vapor Phase Aluminizing processes (VPA) of turbines blades but they can also be used as well for Vapor Phase Chromizing processes (VPC) as for pickling processes under HF gas (Hydrogen Fluoride), in the case of corrosion repairs and treatments (FIC Process – Fluoride Ion Cleaning).

## ADVANTAGES

- High production flexibility
- Complete lines involving several processes
- Fast cooling in masked time
- Modular designs that can be delivered in a mono or multi hearth configuration
- Great temperature homogeneity ensuring great process repeatability

## TECHNICAL CHARACTERISTICS

- Useful diameter of the hearth: 700, 1000, 1200 & 1400mm
- Useful height of the hearth: from 500mm up to 1800mm
- Working temperature: from 900°C up to 1160°C
- Manual or automated cycles



Serthel Industrie's chemical vapor deposition lines are made of :

- 1 high temperature furnace
- 2 under hearth mobile treatment cells
- 1 cooling cell
- 1 loading / unloading position

## OPTIONS

- AMS2750
- NADCAP
- Gas treatment system

