

Pit-LPC

Vacuum Pit furnace for carburizing thick layers on large workpieces



Pit-LPC

Modern alternative for atmosphere furnaces – 21st century. Low Pressure Carburizing (LPC) for thick layers.

INDUSTRIES:



- Automotive Aerospace Power
- Bearings Mining Tools

FEATURES:



- Effective and efficient carburizing
- Time-saving
- Energy-saving
- Space-saving
- Increased operation safety

TECHNOLOGIES:



Low Pressure Carburizing (LPC)

Pit-LPC — Alternative for atmosphere carburizing, which achieved the maximum of its possibilities. Pit-LPC means cost reduction, environment-friendly approach and an increase in production – all made possible thanks to performing the carburizing process under vacuum and in higher than typical temperatures. The state-of-the-art solution meets strict ecological standards. While increasing the work safety through elimination of natural gas. High homogenity of the process has a direct effect on the thickness of the carburized layer and, as a result, on the quality of the workpiece.

Pit-LPC is:

- Adapted to the client's needs; we adapt the furnace so that it can be easily installed in the old atmosphere furnace bay
- A tool for companies that want to increase their productivity while respecting the highest environmental standards
- Dedicated for: manufacturers carburizing large elements such as gears, bearing races, cutting tools and other elements requiring thick carburized layer
- Addressed to clients who want to reduce their costs through elimination of unnecessary media
- A tool for companies that want to increase their production capacity without purchasing additional equipment
 / a single Pit-LPC furnace = 3 atmosphere furnaces
 / or save space by replacing three machines with one.

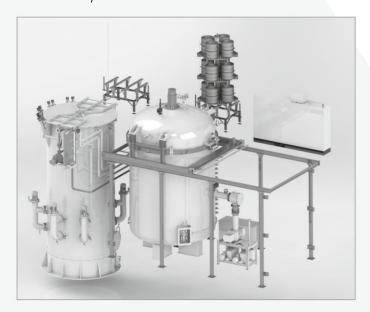


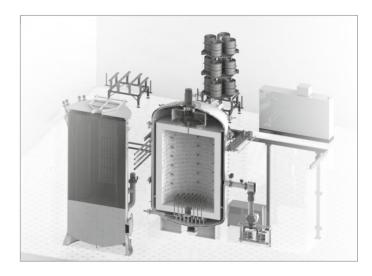
INVENTION MEETS RELIABILITY

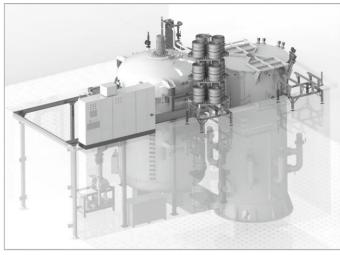


ADVANTAGES

- The highest quality and uniformity of the process
- Excellent quality of the surface
- No surface oxidation (IGO)
- Reduction of the necessary media to the minimum = savings
- Quick high-temperature process
- Minimum consumption of process gases
- Time savings as there is no need to prepare the process atmosphere
- Quick process initiation that does not require purging nor atmosphere conditioning as in atmosphere furnaces
- Safety: No flammable or explosive atmosphere
- Low heat emission and no pollution (CO & CO₂)
- ECO friendly solution







SEE WHAT OTHERS DO NOT SEE

- WIN THE ADVANTAGE

- Lower your production and maintenance costs
- Save time and increase productivity
- Increase work safety through elimination of flammable and explosive atmosphere
- Be environmentally friendly by shortening the process



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