



LAKSHMI VACUUM SERVICES P LTD.



No. 604/2,605/2A Maha kavi barathi nagar,
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LAKSHMI VACUUM SERVICES PRIVATE LIMITED is a part of the Lakshmi Vacuum group of companies and is engaged in offering Vacuum Heat Treatment services across India.

Since its inception, high standards were set in attaining the goal, of achieving, total customer satisfaction, in the commercial Vacuum heat treatment sector. **LVS** currently operates state-of-art vacuum furnaces at its plant located at **CHENNAI**.

Salient features of Vacuum heat treatment at LVS :

No scaling or decarburization.

Bright surface finish.

Uniform & gradual heating.

Uniform temperature throughout the hot zone.

Optimum process know-how ensures adequate soaking times, heating rate & cooling rates.

360 ° Gas circulations throughout the workload ensure uniform properties.

Consistent results due to fully automatic operation.

Best obtainable microstructures owing to all of the above criticalities.

Entire process data can be stored & retrieved for various analysis.

Process capabilities of Lakshmi Vacuum Heat Treaters

Vacuum Hardening , Vacuum Tempering , Vacuum Annealing , Vacuum Stress-relieving,
Sub-zero treatment , **Vacuum Brazing** , Vacuum Ageing ,

Areas of application

Hardening & Tempering of

Pressure Die-casting Dies , Plastic Injection Moulds, Plastic Compression Moulds ,

Cutting Tools , Hot & Warm Forging Dies , Hot & Cold Extrusion Dies

Blanking, Forming, Stamping, Progressive Dies

List of Steels being processed at LVS

Hot Work Steels , Cold Work Steels

High Speed Steels , Stainless Steels (400 Series)

Precipitation Hardening Steels

All Air-hardening Steels

ISO 9001:2015 Certificate by KVQA - NORWAY.





VACUUM HARDENING FURNACE-01/02

Chamber size	:	900mmX600mmX600mm	600mmX600mmX550mm
Maximum Operating Temperature	:	1350 ° C	1350 ° C
Absolute Vacuum Level	:	5X 10-2 Torr .	5X10-2 Torr.
Maximum Quenching Pressure	:	10 bar	12 bar
Maximum Load Per Charge	:	450 Kgs	350 Kgs.

Totally PLC Controlled with Data Logger for effective process control and recording



VACUUM TEMPERING FURNACE-01/02

Inner Chamber size	:	900mmX600mmX600mm	900mmX600mmX600mm
Maximum Operating Temperature	:	700 ° C	700 ° C
Absolute Vacuum Level	:	3X 10 ⁻¹ Torr	3X 10 ⁻¹ Torr
Maximum Quenching Pressure	:	2bar	2bar
Maximum Load Per Charge	:	450 Kgs	450 Kgs

Totally PLC Controlled with Data Logger for effective process control and recording



Oven - 3No for Stress relieving/tempering upto 350/650/850 °C



MATERIAL STORAGE RACKS

Quality Control Equipments:
Rockwell Hardness Tester- 3Nos



RHC :01



RHC : 02



RHC : 03

VICKERS HARDNESS TESTER

with load selection from 5Kgs to 50 Kgs



Equo Tip-Portable Hardness Tester



Surface plate



METALLURGICAL MICROSCOPE



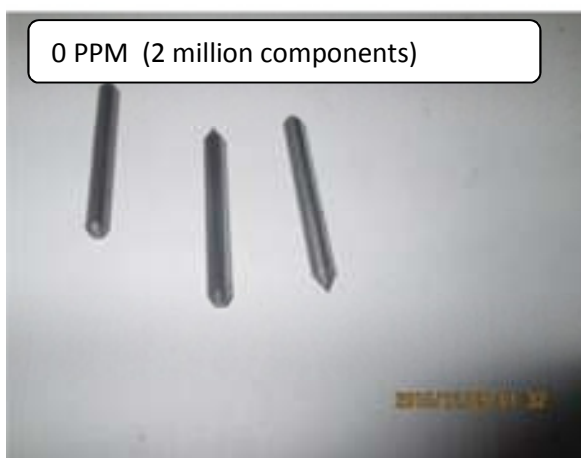
METALLOGRAPHIC MACHINES

(CUTTING, MOULDING AND POLISHING)

Some of our valuable materials and industries

**Automobile industries,
Automotive industries,
Die casting industries,
plastic molding industries,
Valve industries,
Petro chemical industries,
Pharmaceutical industries,
Paper industries
and many more...**

MATERIAL PHOTOS







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Thanks

