

LAKSHMI VACUUM SERVICES PVT LTD



No. 604/2,605/2A, MAHAKAVIBHARATHI NAGAR,

> NEAR PUTHU KOVIL, THIRUMUDIVAKKAM, CHENNAI – 600 044.

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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 rate.
- 360°C Gas circulations throughout the workload ensure uniform properties.
- Consistent results due to fully automatic operation.
- Best obtainable microstructure owing to all of the above criticalities.
- Entire process data can be stored & retrieved for various analyses.

Process capabilities of Lakshmi Vacuum Heat Treaters:

Vacuum Hardening, Vacuum Tempering, Vacuum Annealing, Vacuum Stress-relieving, Sub-zero treatment, VacuumAgeing, Vacuum Brazing, Post Weld Heat Treatment (PWHT).

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, Valves.

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







CERTIFICATE

The Certification Body of TÜV SÜD Management Service GmbH

certifies that

Lakshmi Vacuum Services Pvt Ltd

No. 604/2, 605/2A, Mahakavi Bharathi Nagar Thirumudivakkam - 600044, Chennai, Tamii Nadu India

> has established and applies a Quality Management System for

Providing Vacuum Heat Treatment (without Product Design as per Chapter 8.3).

An audit was performed and has furnished proof that the requirements according to

> IATF 16949 First Edition 2016-10-01

> > are fulfilled.

Issue date: 2021-12-02 Expiry date: 2024-12-01

Expiry data. Ever 12 v 1

Certificate Registration No.: 12 111 63160 TMS

IATF Certificate No.: 0436563

RAN Don

Head of Certification Body Munich, 2021-12-02

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VACUUM HARDENING FURNACE – VHF 01 / 02





Characteristics	VHF 01	VHF 02
Chamber Size	900mm x 600mm x 600mm	600mm x 600mm x 400mm
Maximum Operating Temperature	1350°C	1350°C
Absolute Vacuum Level	5X 10-2 Torr	5X 10-2 Torr
Maximum Load Per Charge	600Kgs	450Kgs

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





Characteristics	VHF 03	VHF 04
Chamber Size	900mm x 900mm x 1200mm	600mm x 600mm x 900mm
Maximum Operating Temperature	1250°C	1300°C
Absolute Vacuum Level	5X 10-3mbar	5X 10-2 mbar
Maximum Load Per Charge	1Ton	600Kgs

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

VACUUM TEMPERING FURNACE – VTF 01 / 02





VTF 01

VTF 02

Characteristics	VTF 01	VTF 02
Chamber Size	600mm x 600mm x 900mm	600mm x 600mm x 900mm
Maximum Operating Temperature	700°C	700°C
Absolute Vacuum Level	5X 10-1mbar	5X 10-1 mbar
Maximum Load Per Charge	600Kgs	600Kgs

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

VACUUM OIL QUENCH FURNACE



Hot Zone Size	Dia 800 x 800 H
Hot Zone	Graphite
Max Temp	1100°C
Vacuum Level	5x10-2mbar
Quench Media	Oil

Materials Processing in Oil Quench:

- ➤ HCHCR (D3)
- > OHNS
- ➤ EN24, EN31, EN8, EN19,EN9,EN42,EN44, EN45,EN351, EN353

TEMPERING FURNACE - 6 NOS













Oven -6Nos for Stress reliving/tempering upto 350/650/850°C

Testing Equipments:

Rockwell Hardness Tester- 4Nos



VICKERS HARDNESS TESTER

With load selection from 5Kgs to 50 Kgs



Portable Hardness Tester – 3nos





Surface Table (1000mm x 600mm)



METALLURGICAL MICROSCOPE

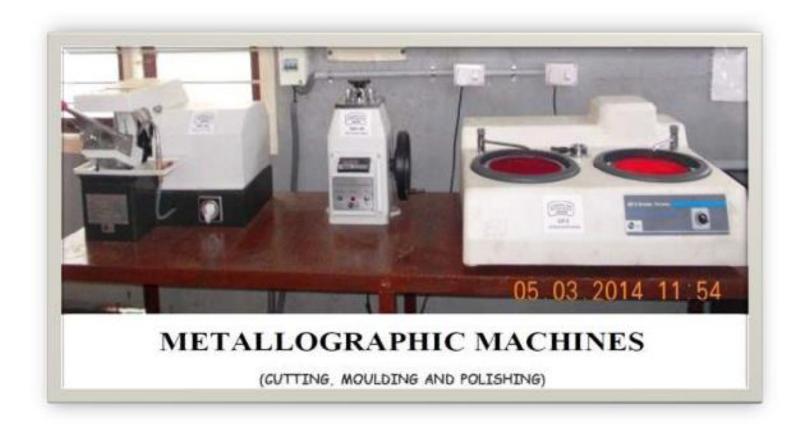


MICRO VICKERS



Min 0.01 – 1Kgs

METALLOGRAPHIC SAMPLE PREPARATION MACHINES



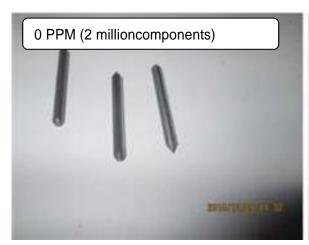
Some of our valuable materials and industries

- > Automobile Industries,
- > Automotive Industries,
- > Die Casting Industries,
- > Plastic Moulding Industries,
- > Valve Industries,
- > Petro Chemical Industries,
- > Pharmaceutical Industries,
- > Paper Industries,
- > And many more...

MATERIAL PHOTOS





































CONTACT DETAILS	
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GST:	33AABCL7058B1ZV
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