

COMPLETE BUSINESS SOLUTIONS

Heat Treatment Technologies

Atmospheric Heat treatment
Vacuum Heat Treatment
Plasma Nitriding / Gas - Nitriding
Steam Treatment
Sub Zero Treatment

Customer Contact Points

Sales & Marketing
Engineering
Quality
Supply chain/Customer Service Support

Specialities

Plants at multiple locations
Strong team of qualified metallurgists
Customer Specific Solutions

Value Added Services

Shot Blasting
Basic Final Inspection
Customer Specific Packing
Logistics Management

Quality Management

IATF 16949 Certified
CQI-9 Certification (by Tier-1 & OEMs)
Customer audits
ISO : 14001 (Bengaluru)

Technical Support

Technical Recommendations
Development and Qualifications
New Products / Processes
Technical Seminars

End Customers:



Non Automotive:



We will partner with global companies for introduction of state-of-art technologies in the domestic market

Pune Plant

Unitherm Engineers Limited
Gat No.257, Village
Kharabwadi, Post: Chakan,
Taluka: Khed, Dist.: Pune,
Maharashtra - 410501
Mobile: +91 8308847051
7666900438

Bengaluru Plant

Unitherm Engineers Limited
Plot No. 47E, Bommasandra
Industrial Area, Road No.6, Off
Hosur Road, Bengaluru -
560099, Karnataka, India
Mobile: +91 9008621009

Bhiwadi Plant

Unitherm Engineers Limited
Plot No. E-43, G-2, Industrial
Area, Khush Khara, Tehsil
Tijeras, Bhiwadi, Dist., Alwar,
Rajasthan - 301707 India.
Mobile: +91 8308847051

Chennai Plant

Unitherm Engineers Limited
Plot No L-7/1C & L-7/1D,
SIPCOT Industrial Park,
Aerospace, Vallam Vadagal,
Sriperumbudur,
Kancheepuram - 602105.
Mobile: +91 8197647189

Group Companies

Indo-German Vacu Treat Pvt Ltd - Commercial Vacuum heat treater | www.igvtvacutreat.com
Aichelin Unitherm Heat Treatment Systems India Pvt Ltd - Heat Treatment Furnace Manufacturer | www.au-india.com

www.unithermfurnaces.com

UNITHERM ENGINEERS LIMITED

Commercial Atmospheric Heat Treatment
Pune | Bengaluru | Bhiwadi | Chennai



**IGVT INDO - GERMAN
VACU TREAT PVT. LTD.**

AICHELIN unitherm
Heat Treatment systems India Pvt. Ltd.
Furnace Manufacturing Division

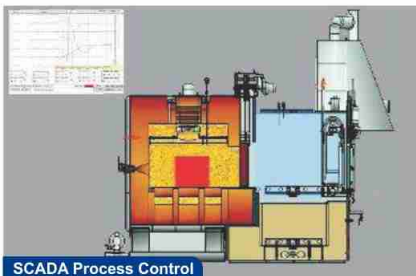
"We will be the leading service partner for our customers by providing complete Surface Treatment & Metallurgical Solutions"



Sealed Quench Furnace



Gas Nitriding Furnace



SCADA Process Control



Fully Equipped State of Art Metallurgy Labs

About Unitherm Engineers Ltd

Unitherm Engineers Limited is largest commercial heat treatment services provider in India. Four plants at Pune (West India), Bengaluru (South India), Bhiwadi (North India) and Chennai (South India) are strategically located close to automotive OEMs and component manufacturers in major automotive hubs in India.

Unitherm has established itself as "One stop" heat treatment solutions provider for range of engineering products. Proven competence in providing heat treatment services!

Company employs highest number of metallurgists across all the operational departments. Experienced and qualified team of metallurgists ensures shorter process development time. Get it right first time!

Infrastructure

Plant	Furnace Type	Make	No. of Furnaces	Gross Capacity
Chennai	Sealed Quench Furnace	Unitherm	2	2 x 600 Kg
	Sealed Quench Furnace	Unitherm	1	1 x 1500 Kg
	Gas Nitriding	Unitherm	1	1 x 1500 Kg
Pune	Sealed Quench Furnace	Unitherm	9	9 x 600 Kg
	Sealed Quench Furnace	Unitherm	6	6 x 1200 Kg
	Gas Nitriding	Unitherm	1	1 x 1200 Kg
	Gas Nitriding	Unitherm	3	3 x 1500 Kg
	Steam Treatment	Unitherm	2	2 x 600 Kg
	Sealed Quench Furnace	Unitherm	10	10 x 600 Kg
Bengaluru	Gas Nitriding	Unitherm	3	3 x 1500 Kg
	Sealed Quench Furnace	Unitherm	4	4 x 1500 Kg
	Sealed Quench Furnace	Unitherm	1	1 x 1200 Kg
Bhiwadi	Gas Nitriding	Unitherm	2	2 x 1500 Kg

Services Offered

Gas Carburizing
Carbo-Nitriding
Gas Nitro-Carburizing / Gas - Nitriding & Post Oxidation
Case Hardening
Hardening under Protective Atmosphere

Ancillary Services

Shot Blasting Laser Marking M/C
Steam Treatment Ultrasonic Cleaning M/C
Sub-zero Treatment

Laboratory

Microscope with image analyzer
Auto - Micro Vickers Hardness tester
Digital Rockwell hardness tester
SCADA system - for real-time process monitoring & control

Certifications

All Plants are IATF 16949:2016 certified
Compliance with CQI-9 heat treatment requirements
All our plants are approved by major automotive OEMs
-and tier 1 suppliers

USP

Experience and qualified team of metallurgists at all locations

Shorter development time & quick turnaround from concept to delivery

Large capacity available at all locations to cater to new/growing requirements

Flexibility of operations due to approval on multiple furnace & variety of quenching oils

Online automatic SCADA process control & monitoring for all processes
Compliance with CQI-9 heat treatment requirements

Joint venture partnership with leading European industrial furnace manufacturer Aichelin, Austria.

Steel Grades Processed / Applications

Heat Treatment / Applications	Grades
Gas Carburizing Applications: Transmission Components (First, second and third stage gear, Pinion, input shaft, Output shaft, Balance Idler, Sprag Clutch, CV Cages, Gear Oil Pump Drive, Different Spider etc...)	20MnCr5 16MnCr5 SAE 8620H SAE 8625H En353 25CrMo4 SCM 420 SCM 415 etc.,
Carbo-Nitriding Applications: Gears & Shafts Roller & Bearings, Synchro rings, Sintered parts etc...	16MnCr5 20MnCr5 SAE 52100 Sintered parts etc.,
Gas Nitriding Applications: Gears Coupling Bolts, Head Machines, Connecting rod/ Supporting rod, Crank shaft, Camshaft, PDC Dies, Plastic Moulds etc...	42CrMo4 EN 19 EN 24 H-13 (PDC Dies) P-20, P-22 (Plastic Moulds) etc.,
Gas Nitro-Carburizing Applications: Gears & Pinions, Valve components, Dies & toolings	42CrMo4 EN 19 En 24 etc.,



Bearing



Gears



Transmission Components



Oil & Gas Product

We will continue to improve customer satisfaction through consistent quality, on-time delivery and cost-effective innovative solutions

We will grow through investments in our people, infrastructure and business diversification