



# INDO-GERMAN VACUTREAT PVT.LTD.



a 50:50 joint venture between

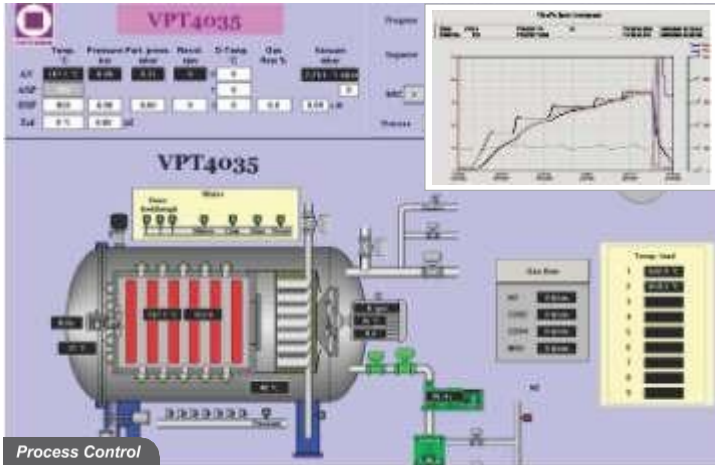


**unit<sup>therm</sup>**  
EMGIID EERS LIMITED

 **SYSTHERMS**



Shop floor



Process Control



Aerospace



Laboratory

## About IGVT

Indo German Vacu Treat Pvt Ltd is a 50:50 joint venture between Systherms GmbH, Germany and Unitherm Engineers Ltd, India operational since 2007.

The company provides vacuum heat treatment services to Automotive, Defense, Aerospace, Medical, Electronics/ Telecommunication, Agricultural, Construction, Consumer Goods, Power Generation, Mining & Drilling, Nuclear industries.

We are a professionally managed company with qualified and experienced staff with sound technology support from our German partner.

We are multi-locational company with a strong team of sales persons in West, South & North India.

## Infrastructure

Type of Furnace	Make	No. of Furnaces	Gross Capacity
Vacuum Hardening	Systherms, Germany	1	1 x 1400 Kg
Vacuum Hardening	Systherms, Germany	2	2 x 600 Kg
Vacuum Tempering	Systherms, Germany	1	1 x 600 Kg
Vacuum Brazing / Hardening	Systherms, Germany	1	1 x 200 Kg
Plasma Ion Nitriding		3	3 x 1000 Kg

## Services Offered

- Vacuum Hardening & Tempering
- Vacuum Annealing/ Solution Annealing
- Precipitation Hardening & Aging
- Vacuum Brazing (*Filler metals - Copper, Nickel, Silver, Aluminum*)
- Plasma Ion Nitriding
- Vacuum Carburizing
- Thermal Calibration
- Aluminisation
- Stress Releiving

## Ancillary Services

- Micro Blasting
- Sub-zero Treatment

## Aerospace

Type 'B' furnace as per Aerospace standard AMS 2750 Rev. E for vacuum heat treatment of aerospace components.

Services

- Argon quenching (Vacuum hardening using argon as quenching media) for critical aerospace components
- Vacuum Brazing

## Laboratory

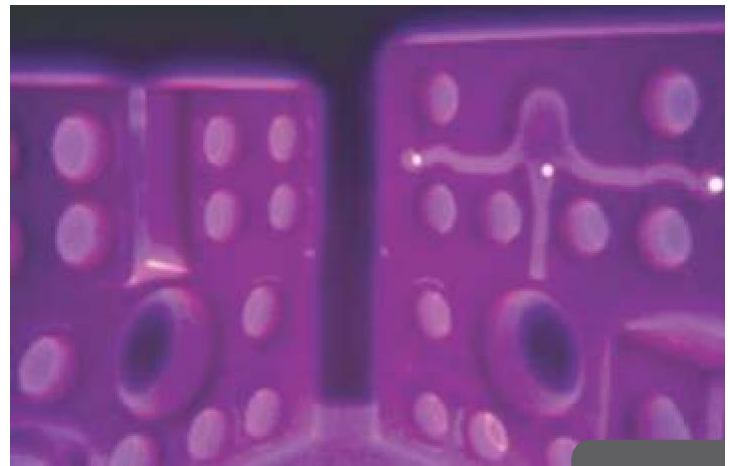
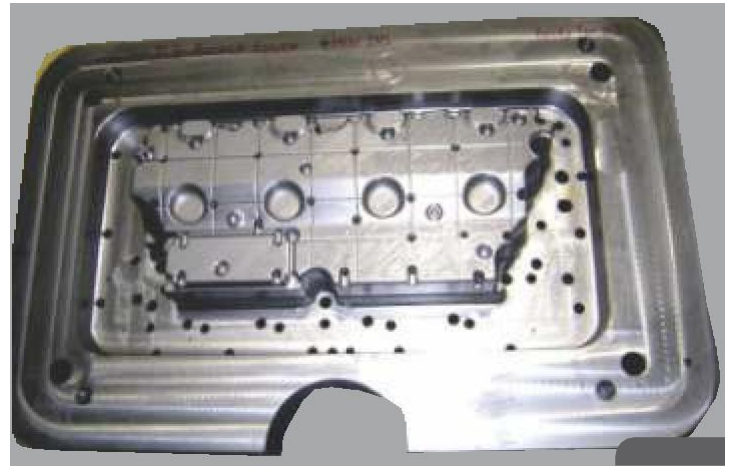
- Microscope with image analyzer
- Auto – Micro Vickers Hardness tester
- Digital Rockwell hardness tester

## Certifications

- ISO 9001:2015
- AS 9100D:2016 Quality Management system for Aerospace Industry



<p><b>Hot Working Steel (HCHR),</b>  <i>treatment: Vacuum Hardening/  Plasma Ion Nitriding</i>  <b>Applications:</b> PDC Dies, Hot/  Warm Forging Dies, Press tools</p>	Orvar Supreme, Orvar 2M, QRO-90, Dievar, Hotvar, Vidar Supreme, SKD-61
	W-300, W-302, W-320, W-350, W-360, W-303, W-321, W-400, W-403
	DAC, DAC-55
	HDS HP-1, USD, USN
	1.2343, 1.2344
	H-11, H-13, H-21
<p><b>Cold Working Steel</b>  <i>Treatment: Vacuum Hardening/  Plasma Ion Nitriding</i>  <b>Applications:</b> PressTools, Jigs,  Fixtures, Moulds, Forming tools</p>	Swerkar —21, Sleipner, Vanadis — 4, Vanadis — 6, Vanadis — 10, Calmax, SKD-11
	K-100, K-110, K-340, K-353, K-360, K-455, K-600, K-890, A-2
	1.2379
	D-2, D-3, D-6, S-7
<p>Plastic Mould Steel  <i>Treatment: Vacuum Hardening/  Plasma Nitriding</i>  <b>Applications:</b> Plastic Moulds</p>	P-20, P-22, DIN 1.2378, DIN 1.2312
<p>High Speed Steels (HSS)  <i>Treatment: Vacuum Hardening</i>  <b>Applications:</b> Cutting Tools,  Shearing tools</p>	M-2, M-3, M-4, M-35, M-42, M45, T-1, T-2, T-15
	ASP-30, ASP-60, ASP-23
	S- 290, S-390, S-600, S-590
	1.3343 (M2), 1.3243 (M35), 1.3247 (M35)
<p><b>Austenitic Stainless Steel</b>  <i>Treatment: Solution Annealing</i>  <b>Applications:</b> Auto components</p>	SS316, SS304, SS301, SS 303, SS 316L, Duplex Stainless Steels
<p>Martensitic Stainless Steel  <i>Treatment: Vacuum Hardening</i>  <b>Applications:</b> Valve seats, valve  plugs, stem, Food processing  Industry &amp; Oil &amp; Gas Industry  components</p>	Stavax, Impax Supreme, Nimax, Unimax
	1.2083
	SS 410, SS 420, SS 440B, SS 440C, SS 316L, SS 310, SS 2242, SS 2541, SS 2022
	M310, M 390
<p><b>OHNS</b>  <i>Treatment: Vacuum Hardening</i>  <b>Applications:</b> Blanking &amp;  Stamping dies, punches, Rotary  shear blades, Thread cutting  tools, Milling cutters, Reamers</p>	OHNS quality AISI grades 01, 02, EO 300



# “Complete Business Solution”

## Heat Treatment Technologies

- Vacuum Heat Treatment
- Vacuum Brazing
- Plasma Ion Nitriding

## Customer Contact Points

- Sales & Marketing
- Production/ Quality
- Supply chain / Customer Service Support

## Specialities

- Plants in multiple locations
- Local sales representatives
- Strong team of qualified metallurgists
- Customer specific solutions

## Logistics & Supply Chain

- Pick-up and delivery services in major markets
- Material / Shipment status information
- Value added services

## Quality Management

- ISO 9001:2015 & AS9100D:2016
- Processes complying with NADCA
- Customer audits

## Technical Support

- Process improvement solutions
- Development and qualification of new vacuum heat treatment cycles

Contact details : +91 8308849624 | [info@igtvacutreat.com](mailto:info@igtvacutreat.com) | [www.igtvacutreat.com](http://www.igtvacutreat.com)

## Pune Plant

Indo German Vacu Treat Pvt Ltd  
Gat No. 257, Village Kharabwadi,  
Talegaon – Chakan Road, Tal: Khed  
Dist: Pune, Maharashtra – 410 501

## Bhiwadi Plant

Indo German Vacu Treat Pvt Ltd  
Plot E- 43, G2, Industrial Area  
Khushkhera, Bhiwadi, Tehsil Tijara,  
Dist: Alwar, Rajasthan – 301 707

## Bangalore Plant

Indo German Vacu Treat Pvt Ltd  
Plot No. 47 E, Bommasandra  
Industrial Area, Rd No. 6, off Hosur Rd,  
Bangalore, Karnataka – 560 099

## Group Companies

Unitherm Engineers Ltd – Atmospheric commercial heat treater [www.unithermfurnaces.com](http://www.unithermfurnaces.com)  
Aichelin Unitherm Heat Treatment Systems India Pvt Ltd – Heat treatment furnace manufacturer [www.au-india.com](http://www.au-india.com)  
Innovae 3D – Into additive manufacturing | [www.innovae3D.com](http://www.innovae3D.com)