



INDO-GERMAN VACU TREAT PVT. LTD.

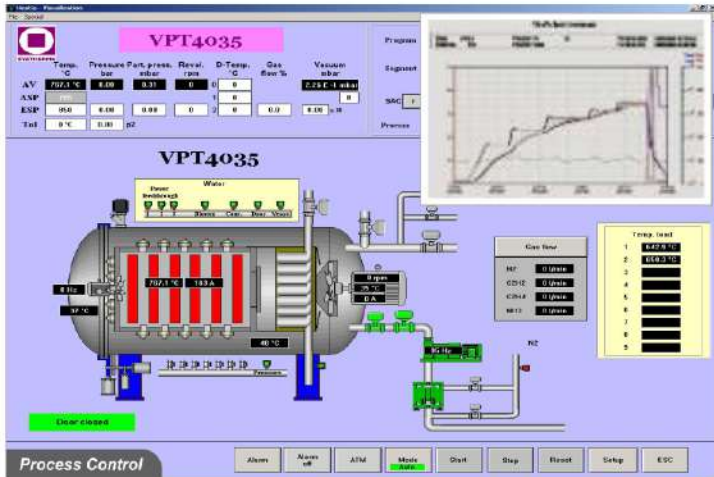


50:50 Joint Venture between





Equipments



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 serving you since 2007.

We provide 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 serving customers across India.

Infrastructure

Furnace Type	Chamber Size (mm)	Gross Capacity (KG)
Vacuum Hardening	900 X 900 X 1250	1400
Vacuum Hardening	600 X 600 X 900	800
Vacuum Hardening	600 X 600 X 900	600
Vacuum Tempering	600 X 600 X 900	600
Vacuum Brazing	500 x 300 x 500	200
Vacuum Brazing	600 X 600 X 900	600
Plasma Ion Nitriding	Dia 900 X 1000	800
Plasma Ion Nitriding	Dia 900 X 800	600
Plasma Ion Nitriding	Dia 700 X 800	600
Sub Zero Furnace	1500 X 1500 X 1000	500

- All our facilities are equipped with a diverse array of furnaces, varying in sizes and capacities, meticulously designed to cater to the specific needs of our customers

Services Offered

- Vacuum Hardening & Tempering
- Vacuum Annealing/ Solution Annealing
- Precipitation Hardening & Aging
- Vacuum Brazing (*Filler metals - Copper, Nickel, Silver, Aluminum*)
- Plasma Ion Nitriding
- Vacuum Sintering
- Stress Relieving

Ancillary Services

- Micro Blasting
- Sub-zero Treatment

Aerospace

Furnace is Class 2 as per AMS2750G Standard Services

- Vacuum heat treatment of Aerospace Components
- Vacuum Brazing

Laboratory

We have state of art fully equipped metallurgical laboratory including:

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

Certifications

- ISO 9001:2015
- AS9100

Steel Grades Processed

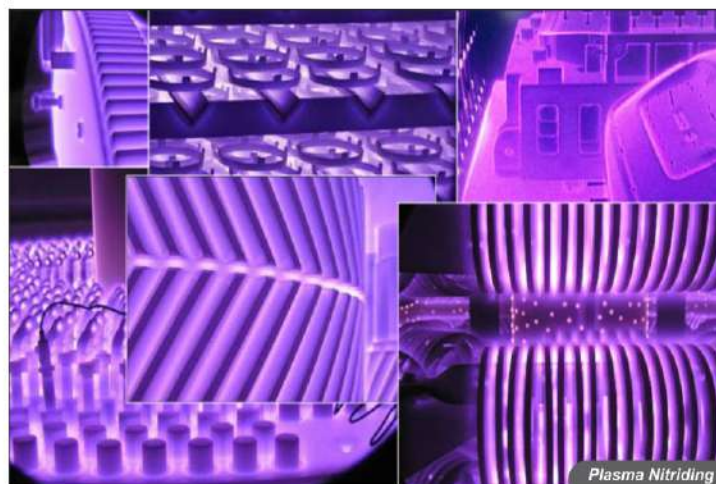
Category	Grades
Hot Working Steel <i>Treatment:</i> Vacuum Hardening/ Plasma Ion Nitriding <i>Applications:</i> PDC Dies, Hot/ Warm Forging Dies, Press tools	Orvar Supreme, Orvar 2M, QRO-90, Dievar, Hotvar, Vidar Supreme, SKD-61
	W-300, W-302, W-320, W-350,
	W-360, W-303, W-321, W-400,
	W-403, E40K
	DAC, DAC-55, DAC-S
	HDS HP-1, USD, USN, TQ1
	1.2343, 1.2344
	H-11, H-13, H-21
	DH31- EX , DHA 1, DHA – WORLD
	ESKYLOS 2343, 2344, 2367, Optimo
Cold Working Steel <i>Treatment:</i> Vacuum Hardening/ Plasma Ion Nitriding <i>Applications:</i> Press Tools, Jigs, Fixtures, Moulds, Forming tools	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, DCMX, DC53, DC11
	D-2, D-3, D-6, S-7
Plastic Mould Steel <i>Treatment:</i> Vacuum Hardening/ Plasma Nitriding <i>Applications:</i> Plastic Moulds	P-20, P-22, DIN 1.2378, DIN 1.2312
High Speed Steels (HSS) <i>Treatment:</i> Vacuum Hardening <i>Applications:</i> Cutting Tools, Shearing tools	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)
Austenitic Stainless Steel <i>Treatment:</i> Solution Annealing <i>Applications:</i> Auto components	SS 316, SS 304, SS 301, SS 303, SS 316L, Duplex Stainless Steels
Martensitic Stainless Steel <i>Treatment:</i> Vacuum Hardening <i>Applications:</i> Valve seats, valve plugs, stem, Food processing Industry & Oil & Gas Industry components	Stavax, Impax Supreme, Nimax, Unimax
	1.2083
	SS 410, SS 420 , SS 440B, SS 440C, SS 2242, SS 2541, SS 2022
	M310, M 390



Dies & Moulds



Cutting Tools



Plasma Nitriding



Vacuum Brazing

“Complete Business Solution”

Heat Treatment Technologies

- Vacuum Heat Treatment
- Vacuum Brazing
- Plasma Ion Nitriding

Specialities

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

Quality Management

- ISO 9001:2015 & AS9100
- Processes complying with NADCA
- Customer audits

Technical Support

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

Customer Contact Points

- Local sales representative
- Production/ Quality
- Supply chain / Customer Service Support

Logistics & Supply Chain

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

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Pune Plant

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Bangalore Plant

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Industrial Area, Rd. No. 6, off Hosur
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Chennai Plant

Indo German Vacu Treat Pvt Ltd.
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Group Companies

Unitherm Engineers Ltd – Atmospheric commercial heat treater www.unithermfurnaces.com
Aichelin Unitherm Heat Treatment Systems India Pvt Ltd – Heat treatment furnace manufacturer www.au-india.com