



**INDO-GERMAN
VACU TREAT PVT. LTD.**
Commercial Vacuum Heat Treatment Plant



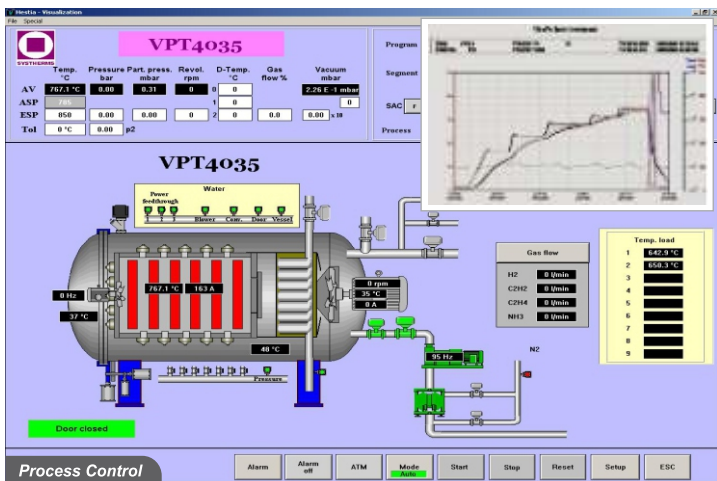
50:50 Joint Venture between



“Delivering Trust through Metallurgical Excellence”



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
Tempering Furnace	1500 X 1100 X 800	5000

- 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
- Bright Tempering (5 % H₂ Forming Gas)
- Argon Gas Cooling

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

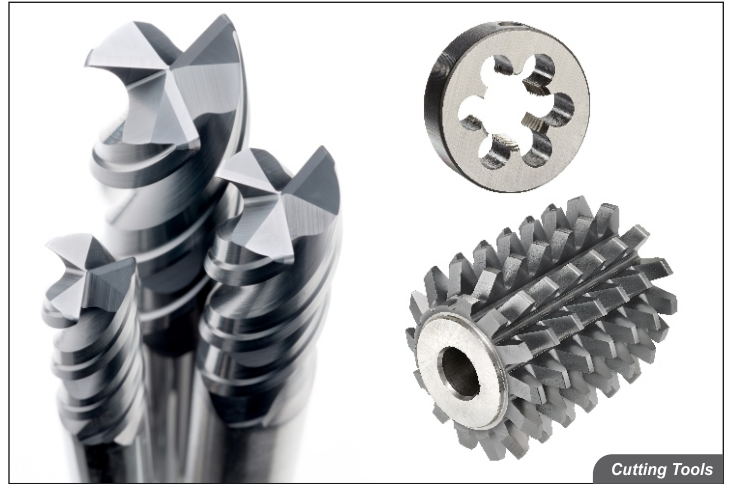
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Steel Grades Processed

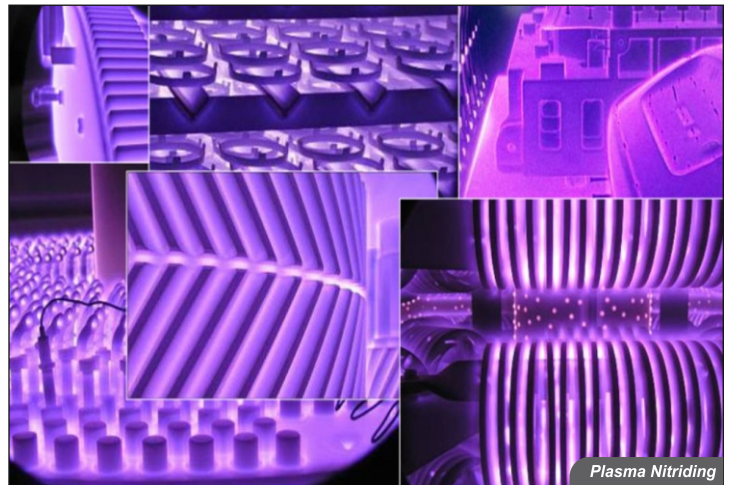
Category	Grades
Hot Working Steel <i>Treatment : Vacuum Hardening / Plasma Ion Nitriding</i> <i>Applications : PDC Dies, Hot/ Warm Forging Dies, Press tools</i>	Orvar Supreme, Orvar 2M, QRO-90, Dievar, Hotvar, Vidar Supreme
	W-300, W-302, W-320, W-350, W-360, W-303, W-321, W-400, W-403, E40K
	DAC10, DAC, DAC-I, DAC-55, DAC-S, DAC Magic
	RPU, HP1, USD, USN, TQ1, CR7VL, FTCO,UH1
	1.2343, 1.2344, 1.2367
	H-11, H-13, H-21
	DH31-EX, DHA 1, DHA-WORLD
	2343, 2344, 2367
	HWS Supreme, Conqueror Super Clean, HWR Mx, Ex-Stahl Super Clean
	SKD61, SKD6
Cold Working Steel <i>Treatment : Vacuum Hardening / Plasma Ion Nitriding</i> <i>Applications : Press Tools, Jigs, Fixtures, Moulds, Forming tools</i>	Sverker-21, Sleipner, Vanadis-4, Vanadis-6, Vanadis-10, Calmax
	K-100, K-110, K-340, K-353, K-360, K-455, K-600, K-890
	DCMX, DC53, DC11
	1.2379, 1.2080, 1.2355, 1.2363
	SKD1, SKD11, SKD12
	D-2, D-3, D-6, S-7, A-2, S-1
Plastic Working Steel <i>Treatment : Vacuum Hardening / Plasma Ion Nitriding</i> <i>Applications : Plastic Moulds</i>	P-20, P-21, SS420
	1.2311, 1.2738, 1.2083, 1.2767
	STAVAX, NIMAX, RIGOR, M310, M201, HPM38
High Speed Steels (HSS) <i>Treatment : Vacuum Hardening</i> <i>Applications : Cutting Tools, Shearing tools</i>	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, S-790, S-700, S-600, S-705, S-500
	1.3343, 1.3243, 1.3247, 1.3355, 1.3207
M2, M35, M42, T1, T2, T42	
Austenitic Stainless Steel <i>Treatment : Solution Annealing</i> <i>Applications : Auto components</i>	SS 316, SS 304, SS 301, SS 303, SS 316L
Martensitic Stainless Steel <i>Treatment : Vacuum Hardening</i> <i>Applications : Valve seats, valve plugs, stem, Food</i>	Stavax, Impax Supreme, Nimax, Unimax
	1.2083
	SS 410, SS 420, SS 440B, SS 440C, SS 2242, SS 2541, SS 2022
	M310, M390
Precipitation hardening (PH) stainless steels <i>Treatment : Solution Annealing+ Age Hardening</i> <i>Applications : Surgery Instrument, Oil & Gas industry components</i>	17-4PH, 17-7PH
Nickel Alloy <i>Treatment : Solution Annealing+ Age Hardening , Annealing</i> <i>Applications : Automobile, Aerospace, Nuclear Power, Oil & Gas</i>	Inconel 718, Inconel 625, Inconel X-750, NVAR 36



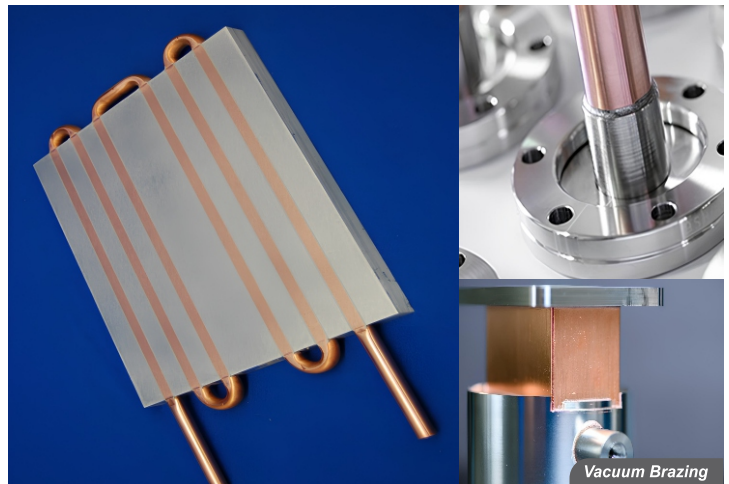
Dies & Moulds



Cutting Tools



Plasma Nitriding



Vacuum Brazing

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Category	Grades
Copper Alloy <i>Treatment : Stress Relieving, Age Hardening , Annealing</i> <i>Applications : Automobile, Aerospace, Nuclear Power, Oil & Gas</i>	Brass, Aluminium Bronze, Alloy 172, CuAl10Ni5Fe4
Cobalt Alloy <i>Treatment : Age hardening, Solution Annealing</i> <i>Applications : Implant</i>	CoCr
Titanium Alloy <i>Treatment : Annealing</i> <i>Applications : Implant</i>	Ti-6 Al 4V (Grade - 5)

Heat Treatment Technologies

- Vacuum Heat Treatment
- Vacuum Brazing
- Plasma Ion Nitriding

Customer Contact Points

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

Specialities

- Plants in multiple locations
- 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 & AS9100
- Processes complying with NADCA
- Customer audits

Technical Support

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

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Pune Plant

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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
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Chennai Plant

Indo German Vacu Treat Pvt Ltd.
 L7/1C, L7/1D, Aerospace Park, SIPCOT
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IGVT Corporate Video



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
 Unitherm NOVA Coating India Pvt Ltd - High-Performance Coating Solutions Provider www.unc-india.com

IGVT Website

