



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



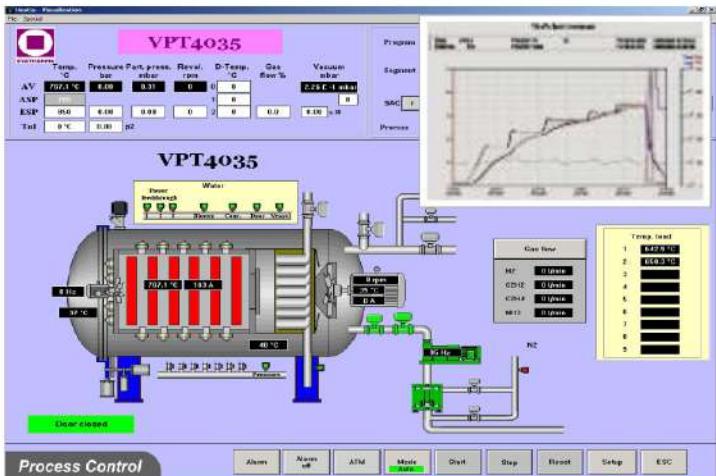
50:50 Joint Venture between

UNITHERM
ENGINEERS LIMITED
Commercial Atmospheric Heat Treatment

SYSTHERMS



Equipments



Process Control



Aerospace



Laboratory

About IGBT

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:

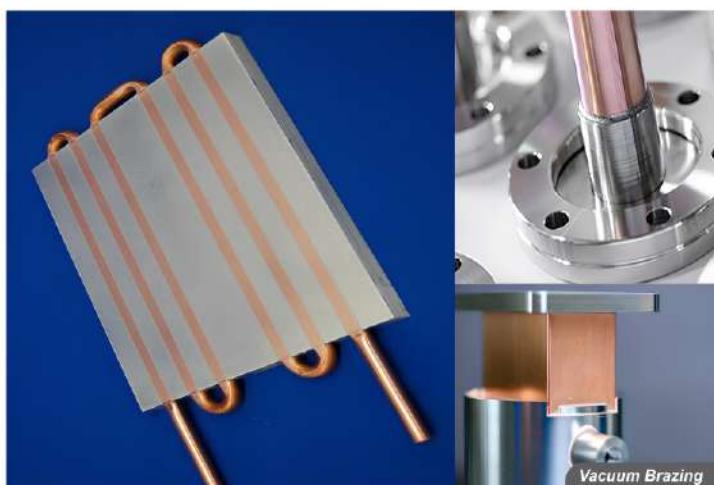
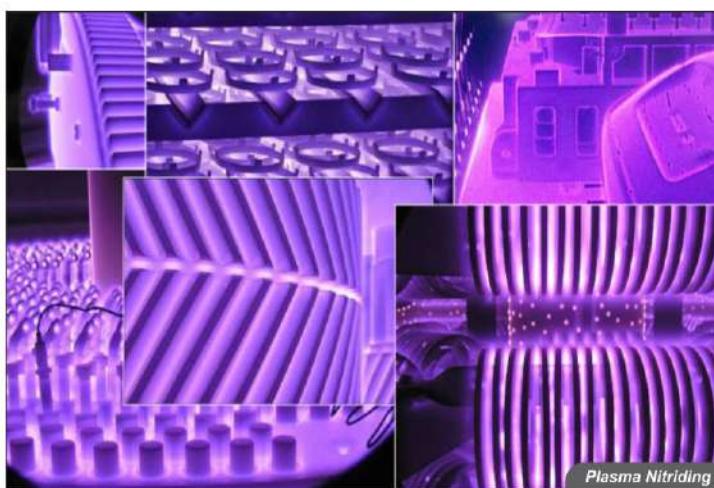
- Microscope with image analyzer
- Auto – Micro Vickers Hardness tester
- Digital Rockwell hardness tester

Certifications

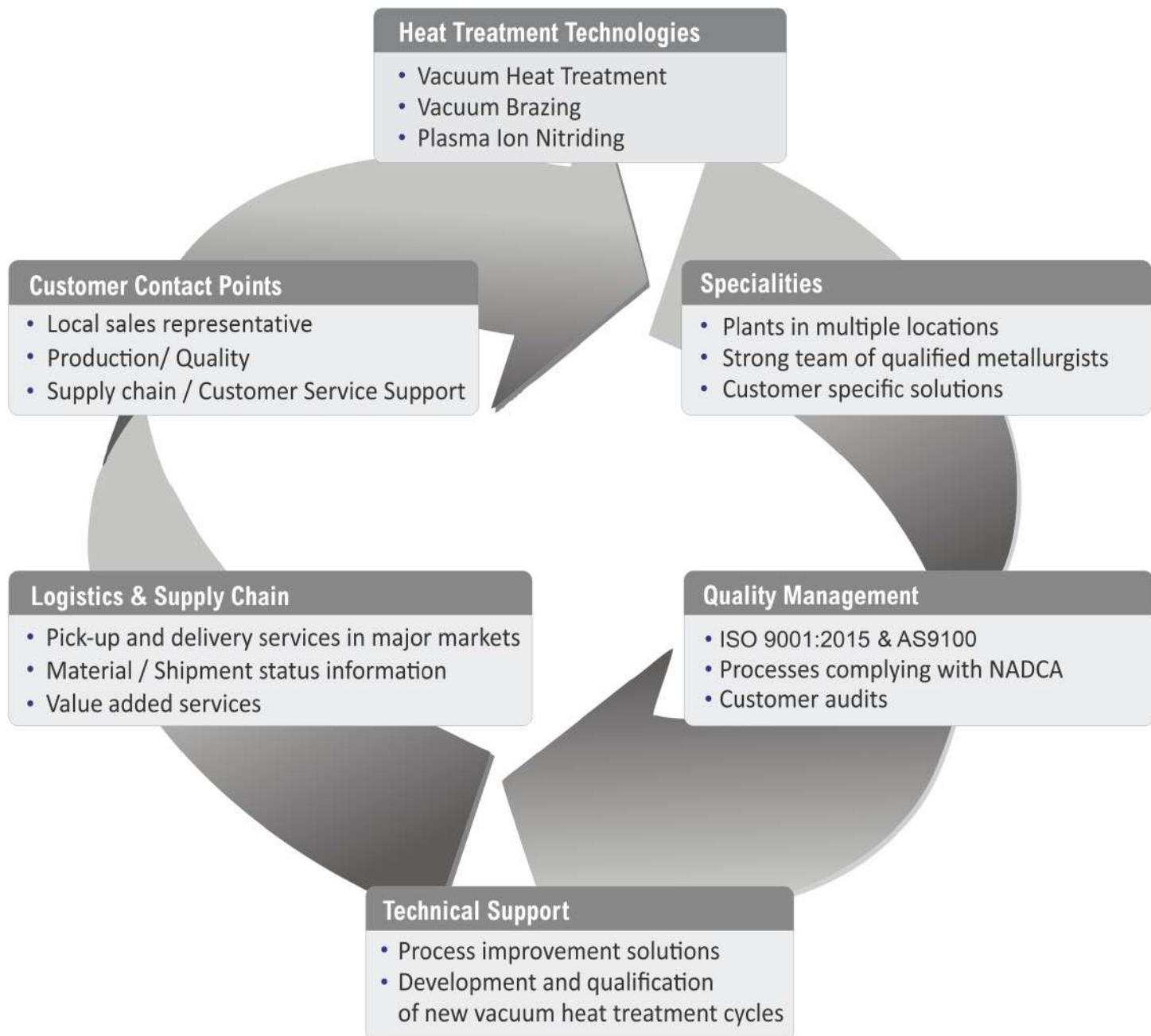
- ISO 9001:2015
- AS9100

Steel Grades Processed

Category	Grades
Hot Working Steel	<p>Orvar Supreme, Orvar 2M, QRO-90, Dievar, Hotvar, Vidar Supreme, SKD-61</p> <p>W-300, W-302, W-320, W-350, W-360, W-303, W-321, W-400, W-403, E40K</p> <p>DAC, DAC-55, DAC-S</p> <p>HDS HP-1, USD, USN, TQ1</p> <p>1.2343, 1.2344</p> <p>H-11, H-13, H-21</p> <p>DH31- EX , DHA 1, DHA – WORLD</p> <p>ESKYLOS 2343, 2344,2367,Optimo</p>
Cold Working Steel	<p>Swerkar – 21, Sleipner, Vanadis – 4, Vanadis – 6, Vanadis – 10, Calmax, SKD-11</p> <p>K-100, K-110, K-340, K-353, K-360, K-455, K-600, K-890, A-2</p> <p>1.2379, DCMX, DC53, DC11</p> <p>D-2, D-3, D-6, S-7</p>
Plastic Mould Steel	<p>P-20, P-22, DIN 1.2378, DIN 1.2312</p>
High Speed Steels (HSS)	<p>M-2, M-3, M-4, M-35, M-42, M45, T-1, T-2, T-15</p> <p>ASP-30, ASP-60, ASP-23</p> <p>S- 290, S-390, S-600, S-590</p> <p>1.3343 (M2), 1.3243 (M35), 1.3247 (M35)</p>
Austenitic Stainless Steel	<p>SS 316, SS 304, SS 301, SS 303, SS 316L, Duplex Stainless Steels</p>
Martensitic Stainless Steel	<p>Stavax, Impax Supreme, Nimax, Unimax</p> <p>1.2083</p> <p>SS 410, SS 420 , SS 440B, SS 440C, SS 2242, SS 2541, SS 2022</p> <p>M310, M 390</p>



“Complete Business Solution”



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Pune Plant

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Bangalore Plant

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Plot No. 47 E, Bommasandra
Industrial Area, Rd. No. 6, off Hosur
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Mob. : +91 9226553112

Chennai Plant

Indo German Vacu Treat Pvt Ltd.
L7/1C, L7/1D, Aerospace Park, SIPCOT
Industrial Park Vallam Vadgal, Sriperumbudur,
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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