



RAVI



Metal Treatment

Expert Heat Treaters



Corporate Profile

One of the Largest Heat Treatment Service Provider in India Since 1977

www.ravimetal.com

About The Company

Ravi Metal Treatment is a leading service provider of heat treatment solutions to the industries in India and abroad. The company owns seven fully equipped and smartly manned facilities in the city of Rajkot, India.

Lead by the founder and proprietor Mr. Ramesh V Rachh, the company has achieved the leadership status through use of latest technologies with consistence upgradation of people, process and quality services. He has more then 45 + years of experience in the field of heat treatment, some of them being in the association of Czech and German Heat Treatment Experts. Being an undisputed specialists in the field of heat treatment of metal, the founder and the team pride themselves of having a strong and sustainable client base.

Since its inception, the founder has been a firm believer in delivering solutions that are effective and value generating. They do not just heat treat metal but enhance its properties for performance.

Mr. Rachh believes delivering quality in every aspect of the business should be an attitude of Ravi Metal Treatment. The company is ISO 9001 certified for its consistent focus on improvement of quality. Additionally, ethical business practices and an attitude to give the best and nothing but the best has empowered the company to build a trust amongst its clients and community.

Our expertise include Case Hardening, Carbo Nitriding, Gas Carburizing, Neutral Hardening, Stress Relieving, Sub Zero Treatment and Super cooling of low, medium, high carbon and high carbon high alloy steels.

We are proud to have a record of over 1500Ton/ month qualitative, cost effective and in time delivery to our widely spread customers of India and



From The Founder's Desk

I see a world that is developing. I see a world that is constantly achieving. I see my world in Ravi Metal Treatment.

After giving 45+ years of my life to my mission of qualitative heat treatment, I am satisfied and fulfilled. These 45 years have been challenging and rewarding, putting together people and machines in perfect association to deliver services that made Ravi Metal Treatment a leader in it's sector.

It has been an incredible journey, presently when I see my team performing as leaders, I feel proud and happy. The mentorship delivered to these young minds has blossomed into an invincible force that is moving ahead with strong momentum. The several factory units we own operates efficiently and are all self sustained because of these leaders adapting to their responsibilities with enthusiasm and excitement.

I am satisfied and fulfilled, but not finished. I see the company out growing all its past achievements in the coming years through broader vision, much more demanding markets and highly challenging jobs that test our limits and inspires us to move towards higher achievements.

Here, I would like to challenge these young guns to move out of their comfort zones, go beyond their limits, invent, discover and evolve into an organization that lasts for years to come.

I see my world of Ravi Metal Treatment, developing, happy and achieving.

We thank all our valued customers for keeping the faith and trust intact since these many years. Thank you for your continued patronage.



Our Mission And Vision

We will strive to achieve our vision through a positive blend of latest technology, updated knowledge, understanding customer needs and responding with proactive ideas to meet their needs effectively, efficiently and profitably. Our focus always will be enhancing customer value and top notch quality.

The company visualizes in becoming the most admired and preferred Heat Treatment Service provider by delivering solutions that not only meet but exceed the clients' expectations.

AJI PLANT

| PIT TYPE GAS CARBURIZING FURANCE | | |
|----------------------------------|-----|-------------|
| MAKE | NOS | CAPACITY |
| RMT | 02 | 500 Kg. |
| RMT | 11 | 950 Kg. |
| THERMO | 02 | 1500 Kg. |
| SHAKER HEARTH FURNACE | | |
| MAKE | NOS | CAPACITY |
| QTE | 02 | 120 Kg./Hr. |
| TEMPERING FURNACE | | |
| MAKE | NOS | CAPACITY |
| RMT | 03 | 500 Kg. |
| RMT | 17 | 950 Kg. |
| THERMO | 04 | 1500 Kg. |

BHAKTINAGAR PLANT

| PIT TYPE GAS CARBURIZING FURANCE | | |
|----------------------------------|-----|----------|
| MAKE | NOS | CAPACITY |
| RMT | 02 | 500 Kg. |
| TEMPERING FURNACE | | |
| MAKE | NOS | CAPACITY |
| RMT | 03 | 500 Kg. |

METODA PLANT

| PIT TYPE GAS CARBURIZING FURANCE | | |
|----------------------------------|-----|-----------------|
| MAKE | NOS | CAPACITY |
| RMT | 01 | 800 Kg. |
| RMT | 01 | 800 Kg. |
| RMT | 02 | 1500 Kg. |
| SEALED QUENCH FURNACE | | |
| MAKE | NOS | CAPACITY |
| RMT | 03 | 850 Kg. |
| TES | 02 | 1500 Kg. |
| SUB ZERO TREATMENT | | |
| MAKE | NOS | CAPACITY |
| COMET | 02 | 500 Kg. /Batch |
| COMET | 01 | 850 Kg. / Batch |
| TEMPERING FURNACE | | |
| MAKE | NOS | CAPACITY |
| RMT(SQT) | 07 | 850 Kg. |
| RMT(PIT TYPE) | 06 | 850 Kg. |
| RMT(PIT TYPE) | 04 | 1500 Kg. |
| RMT(SQT) | 06 | 1500 Kg. |

Plant AJI & BHAKTINAGAR



Pit Type Gas Carburizing & Hardening Furnace

- No. of Furnaces: 21 Nos.
- Temperature Controller Type: MASIBUS, 2 set point with Digital Temp. Controller
- Accuracy of the Temperature Controller is $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 3 Nos.
- Recorder Type: SCHNEIDER SCADA Data Logger Online 24/7 x 365 Days
- Method of controlling Carbon Potential is OXY-PROBE with CP Controller or Mv Controller



Plant METODA



Sealed Quench Furnace

- No. of Carburising Furnaces: 05 Nos.
- Carburizing medium used is LPG + METHANOL
- Temperature Controller Type: HONEYWELL TYPE/ STANGE / MASIBUS Through PLC High Set Point
- Accuracy of the Temperature Controller is $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 2 Nos.
- Recorder Type: Data Logger Online 24/7 x 365 Days
- Furnace Atmosphere is monitored through an OXY-PROBE + HONEYWELL/STANGE CP Controller with Communication Port to PLC



PROCESS OF HARDENING

Shaker Hearth Furnace

- No. of Furnace: 02 Nos.
- Neutral Atmosphere is created by METHANOL/ NATURAL GAS
- Temperature Controller Type: MASIBUS, 2 set Point with Digital Temp. Controller
- Accuracy of the Temperature Controller $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 6 Nos.
- Recorder Type: SCHNEIDER SCADA Data Logger Online 24/7 x 365 Days



PROCESS OF STABILIZING

Subzero Treatment

- No. of Sub Zero Chamber: 03 Nos.
- Temperature Controller Type: Eurotherm Programmable Digital Temperature Controller
- Accuracy of the Temperature Controller is $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 1 Nos.
- Recorder Type: iTool Engineering Software Online 24/7 x 365 Days



Supercooling

- No. Of Super Cooling Chamber: 1 NOS
- Thermocouple Used In Each Furnace: 2 NOS
- Controller Make: Sub Zero Lab Instruments
- Accuracy Of Temperature controller is $\pm 2^{\circ}\text{C}$
- Recorder Type: 24/7 x 365 Days



PROCESS OF TEMPERING

Pit Type Tempering Furnace

- No. of Furnace: 43 Nos.
- Temperature Controller Type: MASIBUS, 2 Set Point with Digital Temperature Controller
- Accuracy of the Temperature Controller: $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 2 Nos.
- Recorder Type: SCHNEIDER SCADA Data Logger Online 24/7 x 365 Days

Chamber Type Tempering

- No. of Furnaces : 10 Nos.
- Temperature Controller: One through PLC & other through High Set Point
- Accuracy of the Temperature Controller is $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 2 Nos.
- Recorder Type: Data Logger Online 24/7 x 365 Days



Available (All Units) Metallurgical Equipments



| DESCRIPTION | COMPANY | NOS. |
|---|------------------|------|
| Micro Vickers Hardness Tester | Shimadzu - Japan | 03 |
| Inverted Microscope | Olympus - Japan | 02 |
| Vickers/ Brinell Hardness Tester (1 to 50 Kgf.) | Fine | 01 |
| Rockwell Hardness Tester | Saroj/Fine | 20 |
| Superficial Hardness Tester | Saroj/Fine | 02 |
| Brinell Hardness Tester | Saroj/Fine | 04 |
| Digital Portable Hardness Tester | Fine | 04 |
| Cut Off Machine | Chennai Metco | 04 |
| Pneumatic type Hot Moulding Machine | Chennai Metco | 03 |
| Disc type Polishing Machine | Chennai Metco | 03 |
| Spectrometer | Metal Power | 01 |



Rockwell Hardness
Testing Machine



Brinell Hardness
Testing Machine



Micro Vickers
Hardness Tester



Inverted Microscope
of Olympus

FREQUENCY OF CALIBRATION & TESTING

Oxygen Probe:
Every 6 Months (Replaced)

Temperature Controller:
Yearly (Outsourced)

Rockwell Hardness Tester:
Monthly (Outsourced)
(In-house Daily On Standard Block)

Brinell Hardness Tester:
Every 6 Months (Outsourced)
(In-house Daily On Standard Block)

Furnace Validation:
9 Point Calibration Yearly (As per CQI-9 Standard)

Vickers Hardness Tester:
Yearly

Microscope:
Yearly

Thermocouple:
Hardening Furnace
Tempering Furnace

Quench Oil Testing:
Every 6 Months

System Accuracy Test:
Quarterly As Per CQI9

Washing Liquid:
PH value & concentration checked daily

Scada Data Back Up:
5 To 10 Years (Depending On Data File Size)

Temperature Uniformity Survey:
Yearly As per CQI9 & API6A

CP Controller:
Every 6 Months (Outsourced)



CERTIFICATE

The Certification Body
of TÜV SÜD South Asia Private Limited
certifies that

RAVI METAL TREATMENT PRIVATE LIMITED (Unit 5)
Plot No C-1-227, E1 Road, Aji GIDC,
Rajkot - 360 003, Gujarat, India
including the sites and scope of application see enclosure

has implemented Quality Management System
in accordance with **ISO 9001:2015**
for the scope of

**Heat Treatment of Ferrous Materials for Processes like Gas Carburising,
Carbonitriding, Stress Relieving, Through Hardening and Tempering.**

The certificate is valid from **2025-11-14** until **2028-11-13**

Subject to successful completion of annual periodic audits

The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of this certificate may be obtained by consulting the certification body at info.in@tuvsud.com

Certificate Registration No. **99 100 03380**

Date of Initial certification: **2007-12-27**

Issue Date: **2026-04-13** Rev. 01

Rahul Kale
Head of Certification Body
of TÜV SÜD South Asia Private Limited,
Mumbai
Member of TÜV SÜD Group
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CERTIFICATE

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Plot No C-1-227, E1 Road, Aji GIDC,
Rajkot - 360 003, Gujarat, India

has implemented Quality Management System
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**Heat Treatment of Ferrous Materials for Processes like Gas Carburising,
Carbonitriding, Stress Relieving, Through Hardening and Tempering.**

The certificate is valid in conjunction
with the main certificate from **2025-11-14** until **2028-11-13**

Subject to successful completion of annual periodic audits

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Rahul Kale
Head of Certification Body
of TÜV SÜD South Asia Private Limited,
Mumbai
Member of TÜV SÜD Group



Our Clientele

We are Directly or Indirectly tied up with these Companies for providing Heat Treatment Services.



Disclaimer: The Brand names and the Company logos mentioned in the entire document belong to the respective owners and have been used for reference



RAVI METAL TREATMENT PRIVATE LIMITED

Registered Office:

C1/227, Road E1, GIDC, Aji Industrial Area,
Aji Vasahat, Rajkot - 360 003 (Gujrat), India

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✉ info@ravimetal.com

🌐 www.ravimetal.com



Unit-1:

21/W GIDC, Industrial Area, Bhaktinagar,
Rajkot - 360 002

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+91 92279 45684

✉ bhaktinagar@ravimetal.com

Unit-2:

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Unit-2/A:

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Unit-3:

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Unit-4:

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Unit-5:

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Unit-6:

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