

Corporate Profile



AN ISO 9001 COMPANY

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

Ravi Metal Treatment operates 24/7,
Providing worldwide heat treatment service
with efficient staff and latest technology.



Pit Type Furnace



Shaker Hearth Furnace



Sealed Quench Furnace



Subzero
Treatment

About **Company**

Ravi Metal Treatment is a leading 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 ably by the founder and proprietor Mr. Ramesh V Rachh, the company has achieved the leadership status through use of the latest technologies and consistent up-gradation of people, processes and quality services. He has an experience of more than 40 years in the field of Heat treatment, some of them being in the association of Czech and German Heat Treatment experts. Being the undisputed specialists in the field of heat treatment of metals, 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.

Quality of the company, Mr Rachh believes, resides in the attitudes of people. Delivering quality in every aspect of the business is a habit at 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.



From the **Founder's Desk**

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

After giving 40+ years of my life to my mission of quality heat treatment, I am satisfied and fulfilled. These 40 years have been challenging, rewarding, punishing, delighting, questioning and answering. Words cannot describe the journey, but it has been one of putting together people and machines in perfect association to deliver services that have made Ravi Metal Treatment a leader in the sector.

Presently when I see my team performing as leaders I feel proud and happy. I feel the mentorship delivered to these young minds has blossomed into an invincible force that is moving ahead with strong momentum. The seven plants we own operate efficiently are all self sustained because of these leaders taking over 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 inspire my team and myself to move towards higher achievements.

Here, I would like to challenge these young guns to move out of their comfort zones, challenge their limits, invent, discover, evolve into an organization that lasts for years to come. The dynamism of the markets can make you great due to availability of emerging opportunities. Grab them with confidence and move ahead.

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



Our **Mission & Vision**

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

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



INFRASTRUCTURE



AJI PLANT

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

BHAKTINAGAR PLANT

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

METODA PLANT

PIT TYPE GAS CARBURIZING FURNACE		
MAKE	NOS	CAPACITY
RMT	01	950 Kg.
RMT	01	950 Kg.
RMT	02	1500 Kg.
SEALED QUENCH FURNACE		
MAKE	NOS	CAPACITY
RMT	03	800 Kg.
TES	01	1500 Kg.
SUB ZERO TREATMENT		
MAKE	NOS	CAPACITY
COMET	02	500Kg. / Batch
TEMPERING FURNACE		
MAKE	NOS	CAPACITY
RMT (SQT)	05	900 Kg.
RMT (PIT TYPE)	06	800 Kg.
RMT (PIT TYPE)	04	1500 Kg.
RMT (SQT)	03	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 Furnaces: 04 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 Furnaces: 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 is $\pm 1^{\circ}\text{C}$
- » 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: 02 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



Process of **Tempering**

Pit Type Tempering Furnace



- » No. of Furnaces: 42 Nos.
- » Temperature Controller Type:
MASIBUS, 2 Set Point with
Digital Temperature Controller
- » Accuracy of the Temperature Controller is $\pm 1^{\circ}\text{C}$
- » Thermocouple used in each Furnace: 2 Nos.
- » Recorder Type : SCHNEIDER SCADA Data Logger
Online 24/7 x 365 Days

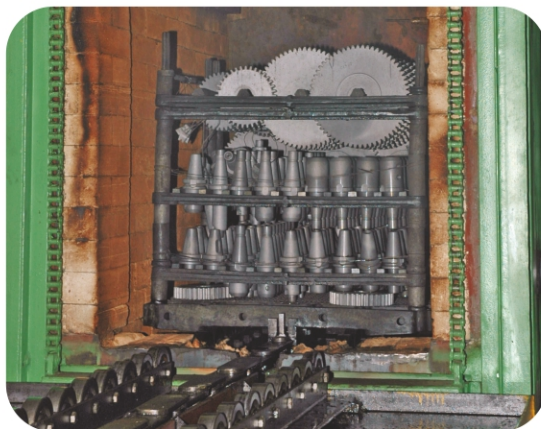


Process of **Tempering**

Chamber Type Fac Tempering Furnace



- » 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



Metallurgical Equipments Available



Inverted Microscope of Olympus



Rockwell Hardness Testing Machine



Micro Vickers Hardness Tester



Vickers / Brinell
Hardness Tester



Brinell Hardness
Testing Machine

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 Testing	Saroj / Fine	18
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



Spectrometer

Frequency of Calibration

Oxygen Probe:

Every 6 Months

Temperature Controller:

Every Three Months (In House)

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 API Standard)



South Asia

CERTIFICATE

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



Ravi Metal Treatment (Unit 5)
C-1/227, GIDC, Aji Ind. Estate, Aji Vasahat,
Rajkot - 360 003, Gujarat, INDIA

including the sites and scope of application see enclosure

has implemented a Quality Management System
in accordance with ISO 9001:2015
For Scope of

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

The certificate is valid From 2017-10-27 until 2019-11-13
Subject to successful completion of annual periodic audits
The present status of this Certificate can be obtained on www.tuv-sud.in
Further clarifications regarding the scope of this certificate may be obtained by consulting the certification body

Certificate Registration No. 99 100 03380
Date of Initial certification : 2007-12-27



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




Page 1 of 2

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South Asia

Enclosure of Certificate No.:

99 100 03380

Sites	Scope of application
Ravi Metal Treatment (Unit 5) C-1/227, GIDC, Aji Ind. Estate, Aji Vasahat, Rajkot - 360 003, Gujarat, INDIA	Heat Treatment of Ferrous Materials for Processes like Gas Carburising, Carbonitriding, Stress Relieving, Through Hardening and Tempering.
Ravi Metal Treatment (Unit 1) 21 - W, GIDC, Bhaktinagar, Rajkot - 360 002, Gujarat, INDIA	Heat Treatment of Ferrous Materials for Processes like Gas Carburising, Carbonitriding, Stress Relieving, Through Hardening and Tempering.
Ravi Metal Treatment (Unit 7) G - 1 / B, Lodhika Ind. Estate, GIDC, Metoda, Rajkot- 360 021, Gujarat, INDIA	Heat Treatment of Ferrous Materials For Processes like Gas Carburising, Carbonitriding, Stress Relieving, Through Hardening and Tempering, Sub Zero Treatment.
Ravi Metal Treatment (Unit 6) C-1/226, GIDC, Aji Ind. Estate, Aji Vasahat, Rajkot - 360 003, Gujarat, INDIA	Maintenance and Metallurgical Laboratory for Micro structure examination, Effective case depth and Carburization level checking.
Ravi Metal Treatment (Unit 3A) C-1B/306, GIDC, Aji Ind. Estate, Aji Vasahat, Rajkot - 360 003, Gujarat, INDIA	Heat Treatment of Ferrous Materials for Processes like Gas Carburising, Carbonitriding, Stress Relieving, Through Hardening and Tempering.
Ravi Metal Treatment (Unit 3) C-1B/302, GIDC, Aji Ind. Estate, Aji Vasahat, Rajkot - 360 003, Gujarat, INDIA	Heat Treatment of Ferrous Materials for Processes like Gas Carburising, Carbonitriding, Stress Relieving, Through Hardening and Tempering.
Ravi Metal Treatment (Unit 4) C-1/225, GIDC, Aji Ind. Estate, Aji Vasahat, Rajkot - 360 003, Gujarat, INDIA	Heat Treatment of Ferrous Materials for Processes like Through Hardening and Tempering (In Neutral Bath and Modified Marquenching)



Certification Body
of TÜV SÜD South Asia Private Limited, Mumbai
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Page 2 of 2

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We are **Directly or Indirectly** Tied up with these Companies for providing **Heat Treatment Services**



Disclaimer: The brand names & Company Logos mentioned in the entire document belong to the respective owners and have been used for reference purpose only.



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