

SUPPORTED BY



Ministry of Defence*
Ministry of Steel
Department of Scientific & Industrial Research
GOVERNMENT OF INDIA

ORGANISED BY



15th Edition

Presents

HTS 2024

International Exhibition on Heat Treatment

Wed. 4th - Fri. 6th September 2024

Bombay Exhibition Centre, Mumbai, India



**INDIA'S
LARGEST EXHIBITION ON
HEAT TREATMENT...**

German Pavilion by



Metallurgy

Industry Support



All India Association of Industries



Thane Belapur Industries Association

www.htsindiaexpo.com

EVENT OVERVIEW

- An ideal Platform for display and launches of new initiatives, machinery, products and technologies, establishing joint ventures, developing and renewing international and regional contacts.
- Expected to be have about 300 Stalls, 600 Delegates, 70 Speakers from over 20 countries.
- Participation of Government Departments, PSUs, Corporates, SMEs, Start-up Organisations.
- Concurrent 3 days high level international conference will offer industry focused keynote addresses, plenary sessions, panel discussions and technical presentations.
- Innovation / Start-ups, SMEs, R&D Institutes, Academia, etc. will showcase their global developments.
- Innovation Pavilion inviting Models / Posters from Entrepreneurs and Engineering Students.
- Student Outreach programme from the senior Engineering Students.



MAJOR SPONSORS & PARTICIPANTS OF EARLIER EDITIONS



GLOBAL HEAT TREATMENT INDUSTRY

World over, the Heat Treat Industry is a huge market. The growth of the Heat Treat Market in Asia has been phenomenal in the recent years.

Heat treating is a group of industrial and metalworking methods used to vary the physical, and sometimes chemical, properties of a material. The most common application is metallurgical.

Being dynamic in nature, the industry players for the Heat Treat sector are engaged in extensive research and development of newer, innovative and green technologies.

Globally, a large number of industries use heat treatment in their everyday processes – sectors namely automotive, defence, aerospace, mining, metalworking, heavy construction machinery and tool & die, etc. Heat Treatment is used in the production of various other materials, such as metals, glass, ceramics, etc.



INDIA HEAT TREATING MARKET

The India heat treating market is expected to reach USD 8.37 billion by 2027 at a 7.5% CAGR, according to a report by Grand View Research, Inc. The entry of various automotive manufacturers in the country has fueled the demand for heat treating services over the past few years.

Heat treating involves controlled heating and cooling of materials to attain distinct mechanical properties such as strength, flexibility, and hardness. Steel is the most commonly used material for heat-treating in India, along with cast iron, aluminum, copper, brass, and other metals.

The use of high-strength steel in the automotive industry has increased at an exponential rate, owing to the requirements of light-weight vehicles with improved fuel efficiency. The rapid growth of the Indian automotive sector has propelled the demand for heat treating. Heat-treated components are used in numerous auto-parts, such as transmission, suspension, engine, body frame, and braking systems.

Players in the heat treating market in India are focusing on the implementation of green technologies and processes to reduce environmental footprint. Companies are focused on increasing the use of natural gas-fired and electrically-heated furnaces. The use of induction heating and plasma heating is estimated to rise at a rapid pace over the next few years.

EXHIBITING PROFILE

- Induction Hardening / Heating / Melting Furnaces
- Heat Treatment Service Providers
- Continuous and Batch Type Furnaces
- Nitriding Furnaces
- Refractory and Insulation Materials
- Heat Exchangers, Radiators and Cooling Towers
- Vacuum Furnaces
- Temperature Measuring and Control Devices
- Laser Hardening / Heating Equipment
- Process Automation Technology and Equipment
- Metallographic, Hardness and Material Testing Equipment
- Shot Blasting and Shot Peening Equipment
- Fixtures, Radiant Tubes and Tray Suppliers
- Industrial Washing Machines
- Controlled Atmosphere Furnaces
- Charging Machines / Quenching Systems
- Cryogenic Equipment
- Microwave Heating
- Plasma Nitriding
- Technology and Equipment for Surface Treatments
- Flame Hardening
- Gas Generators and Sensors
- Industrial Gas Suppliers
- Quenchants, Fuel Additives and Consumables
- Fire Fighting and Safety Equipment
- Oil Filtration Equipment
- Burners and Combustion Equipment
- Modelling and Simulation
- Calibration Services
- In-situ Heat Treatment
- Forging Industry
- Foundry Industry
- Carburizing
- Annealing
- Brazing
- Advance Materials for Furnaces and Kilns

VISITORS PROFILE

- Fabricated Metal Products and Component Companies.
- Iron and Steel Companies
- Industrial Furnace Companies
- Heat Treatment and Processing Enterprises
- Automobile Manufacturers
- General Engineering And Infrastructure Projects – Roads, Bridges, Tunnels etc.
- R&D Institutions
- Technology Suppliers
- Technology Seekers
- Railways Industry
- Steel & Metallurgy Industry
- Alternate / Renewable Energy Industry
- Technology Providers and Consultants
- Manufacturers & Suppliers
- Digital and Emerging Technologies
- Automobile Industry
- Molds and Dies
- Oil and Gas - Marine & Offshore
- Central and State Government Senior Officials
- Policy Makers and Entrepreneurs
- Government Departments
- Research & Development Technology Institutes
- R&D Professionals & Academicians
- Investors, MNC's, Industrialist and Traders
- Banking and Financials Institutions
- Equipment Buyers & Suppliers
- Importers, Exporters & Traders
- Industry Associations, Chambers
- Foreign Trade Commissions
- Trade Delegations



INDIA'S LARGEST EXHIBITION ON **HEAT TREATMENT...**

PARTICIPATING OPTIONS

OPTION 1: Bare Space (inside AC Exhibition Hall)

Exhibitors can adopt design of their choice with approval of the organiser.

OPTION 2: Built-Up Stall (inside AC Exhibition Hall)

Includes: Wall Panels, Carpet, Fascia in English, 1 Spotlight per 3 sqm., One 5 amp socket per 12 sqm., 1 Counter, 3 Chairs, 1 Glass Top Round Table, Basic Electricity consumption, Cleaning of the Stalls.

OPTION 3: Sponsorship

Choose from Various Sponsorship Packages (inclusive of exhibition space). Contact our Ms. Shruti Sachdeva, Email: htsexpo@tafcon.in for Sponsorship and Branding Catalogue.

KEY FIGURES OF LAST EDITION

164 Exhibitors

12 Countries

142 Speakers

Reverse Buyer Seller Meet

14,256 Footfalls

528 Delegates

Jharkhand - Focus State

Innovation Pavilion



PARTICIPANTS OF LAST EDITION

- Ace Carbo Nitriders
- Aditya Birla Group
- Afeco Heating & Automation Pvt. Ltd.
- Aggarwal Soundcast Pvt. Ltd.
- Aimil Ltd.
- AkzoNobel India Ltd.
- ALD Vacuum Technologies India Pvt. Ltd.
- All India Association of Industries
- All India Plastic Industries Association
- Alleima India Pvt. Ltd.
- AMB Electronic System Tech Pvt. Ltd.
- AMI Polymer Pvt. Ltd.
- Ananth Technologies Ltd.
- Arabian Petroleum Ltd.
- Avdhoot Heat Treat Pvt. Ltd.
- Banaras Locomotive Works (BLW)
- Bharat Electronics Ltd.
- Bharat Forge Ltd. (Kalyani Group)
- Chittaranjan Locomotive Works (CLW)
- CRC India Manufacturing and Distributors Pvt. Ltd.
- CSIR - Institute of Minerals and Materials Technology
- CSIR – National Environmental Engineering Research Institute (CSIR-NEERI)
- Daksh Quality Systems
- Defence Laboratory Jodhpur, Jodhpur
- Defence Materials and Stores Research and Development Establishment, Kanpur
- Defence Metallurgical Research Laboratory, Hyderabad
- Defence Research and Development Organisation
- Desktop Metal
- Dhanaprakash Industrial Corporation
- Directorate of Industries, Government of Jharkhand
- Dr. Fritsch Machines & Powders Pvt. Ltd.
- EC Metals India Pvt. Ltd.
- ECM Technologies
- EEPC India
- EFD Induction Pvt. Ltd.
- Engineering Review (Divya Media Publications Pvt. Ltd.)
- EPC World
- Eurosense Analyticals Pvt. Ltd.
- Eurotherm India Pvt. Ltd.
- ExOne GmbH
- Fibrotemp Metatek India Llp
- Filfab Corporation (SMD)
- Fine Finish Organics Pvt. Ltd.
- Fluidtherm Technology Pvt. Ltd.
- Forgings Today
- FuelSave
- G.N.R. Srl
- Gates India Pvt. Ltd.
- Gem Orion Machinery Pvt. Ltd.
- Global Axis Ltd.
- Grasim Industries Ltd.
- Hapag - Lloyd India Pvt. Ltd.
- Heat Treat Today
- Hind High Vacuum Company Pvt. Ltd.
- Hindalco Industries Ltd.
- I R Technology Services Pvt. Ltd.
- India Strategic Inc.
- Indian Railways
- Indian Rubber Manufacturers Research Association
- Indo German Chamber of Commerce
- Industrial Product Monitor
- Infrastructure Line
- Institute for Plasma Research
- Integral Coach Factory (ICF)
- International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI)
- International Federation for Heat Treatment and Surface Engineering (IFHTSE)
- International Thermal Systems
- Iron & Steel Review
- Jay Elastomers Pvt. Ltd.
- Jiangsu Cera Thermal Technology Co., Ltd.
- John T. Hardaker India Pvt. Ltd.
- JR Furnace & Ovens Pvt. Ltd.
- JSW Cement Ltd.
- JSW Energy Ltd.
- JSW Foundation
- JSW Group
- JSW Infrastructure Ltd.
- JSW Paint Pvt. Ltd.
- JSW Steel Ltd.
- Kalyani Technoforge Ltd. (Thermal Processing Division)
- Kanthal

PARTICIPANTS OF LAST EDITION

- Keepsake Engineering Consultancy Pvt. Ltd.
- Keller - ITS India LLP
- Kermetico Inc, USA
- Kinetic Surface Technologies
- Kisco Castings India Ltd.
- Kotak Mahindra Bank Ltd.
- Lakshmi Vacuum Technologies Pvt. Ltd.
- Larsen & Toubro Ltd.
- Leister Technologies India Pvt. Ltd.
- Magnatherm Alloys Pvt. Ltd.
- Maharashtra Multi Distributors Ltd.
- Mahindra & Mahindra Ltd.
- Mahindra Defence Systems Ltd.
- Mangalore Minerals Pvt. Ltd.
- Manglam Electricals
- Marathon Heater India Pvt. Ltd.
- Mazagon Dock Shipbuilders Ltd.
- MEC Shot Blasting Equipments Pvt. Ltd.
- Megatherm Induction Pvt. Ltd.
- Metal Power Analytical Pvt. Ltd.
- Metalspain.Com
- Metatech Industries
- Microcon
- Millenia Technologies (I) Pvt. Ltd.
- Minex Metallurgical Co. Ltd.
- Modern Coach Factory, Raebareli (MCF Raebareli)
- Munitions India Ltd.
- Nandan Petrochem Ltd.
- Naval Materials Research Laboratory
- Nilkamal Ltd.
- Northwest Mettech Corp.
- Orbit Technologies Pvt. Ltd.
- Ore and Metals Publishing House
- Oxilon Pvt. Ltd.
- Patiala Locomotive Works (PLW)
- Phillips Machine Tools India Pvt. Ltd.
- Plasma Induction India Pvt. Ltd.
- PMA Controls India Ltd.
- Pradeep Metals Ltd.
- Pune Gas Projects Pvt. Ltd.
- Pune Gas Systems Pvt. Ltd.
- Rail Analysis India (Projection Strategy Llc)
- Rail Coach Factory, Kapurthala (RCF)
- Rail Wheel Factory (RWF)
- Raj Mesh Belt Co.
- Reliance Industries Ltd.
- Research Design and Standards Organisation (RDSO)
- Riello
- Rubig GmbH & Co Kg
- S.R. Thermal Solution
- Saarloha Advanced Materials Pvt. Ltd.
- Sajjan Precision Castings
- Seco Warwick Systems & Services (India) Pvt. Ltd.
- Smart Induction Converter Technologies, S.L.
- Society of Indian Defence Manufacturers (SIDM)
- Space Product Finder
- Spraymet Surface Technologies
- Steel & Metallurgy
- Suntec Energy Systems
- Tata Advance Systems Ltd.
- Tata Group
- Tata Motors Ltd.
- Tata Power Company Ltd.
- Tata Steel Ltd.
- Technology Development Board, GOI
- Tekman India Pvt. Ltd.
- Tempsens Instruments India Pvt. Ltd.
- Thane Belapur Industries Association
- Toshcon CD Automation India Pvt. Ltd.
- Triton Electric Vehicle India Pvt. Ltd.
- UltraTech Cement Ltd.
- Uniloc Fasteners
- United Enterprises
- Urja Products Pvt. Ltd.
- Veekay Industries
- Webzworld
- WS Thermal Process Technologies Inc.
- Wuxi Junteng Fanghu Alloy Casting Co., Ltd.
- Xitiz Technomech Llp
- Yamayo India
- Zara P Care – Melika
- 99 Machinery for You

TESTIMONIALS...



These events would pave the way for many path-breaking innovations

Nitin Gadkari

Hon'ble Minister for Road Transport and Shipping
Government of India



Privileged to attend the MET+HTS 2022. I am sure that these Exhibitions will serve the purpose of 'Atmanirbhar Bharat' vision of Hon'ble Prime Minister. My best wishes for the grand success of these Events. "Jai Hind"

Ajay Bhatt

Hon'ble Defence Minister of State, GOI



Excellent Talent Display

Late Mr. Manohar Parrikar

Hon'ble Minister of Defence, Government of India



Good to see remarkable advancement in Research and Development and this is the way we move forward as a Strong Nation

Ch. Birender Singh

Hon'ble Minister of Steel, Government of India



The event is very well organised. I enjoyed visiting the stalls and was enlightened with the kind of work that is happening in the industry. My best wishes for a very successful event.

Dr. S.V. Kamat

Secretary and Chairman, DRDO



I am very happy that JSW is associated with this programme under the aegis of ASM.

Sajjan Jindal

Chairman, JSW Group



Very proud to see this great Indian prowess at these exhibitions

Dr. R. A. Mashelkar

Chancellor, AcSIR
National Research Professor, CEPD,
National Chemical Laboratory, CSIR
Director, Reliance Industries Ltd.



Am extremely impressed by the Exhibition; the range of technology & products covered in the exhibition is impressive and completely in line with Atmanirbhar Bharat. Many congratulations to Organizers.

Rear Admiral R.K. Shrawat (Retd.)

Chairman, Naval Group



A pleasure to be at a very well organised event. The facilities & stalls laid out have been absolutely brilliant. Kudos to the team. Jai Hind

Maj Gen Rakesh Manocha

HQ MG&G Area, Ministry of Defence, GOI



Felt enlightened to be among the elite crowd who produce materials for the defence sector. It was a pleasure interacting with various functionaries of ASM, SIDM & other Panelist. All the very best in all endeavours of ASM to keep the country flag high. Jai Hind!

AVM S.K. Jain

ACAS (MP), Air HQ, Ministry of Defence, GOI



Excellent Organisations. Compliments

S.P. Shukla

Chairman, Mahindra Aerospace, Defence & Mahindra Sanyo Steel



We all can mutually gain by knowing who are doing what in these sectors

Hemant Kumar

Member (Rolling Stock) Railway Board
Ministry of Railways, GOI

TESTIMONIALS...



The exhibition is of world class showing the prowess of India, and its innovative capabilities

M.V.S. Seshagiri Rao
Jt. M.D. & Group CFO, JSW Steel Ltd.



A wider collaboration between the Corporates, PSUs and Scientists, is the need of country like India, with vast growth potential in all these sectors is displayed in this Event

Shailendra Roy
Director & Sr. VP - Power, Head, Nuclear - L&T Group



MET+HTS 2022 is very professionally organised and i got insightful ideas during deliberations.

Manish Bhimte
Chief Mechanical Engineer /
IT & Safety Western Railway, GOI



Excellent show and beautifully arranged one. Keep it up!!!

Arun Goradia
Chairman, EEPC India



Most outstanding arrangements for the event; Good luck for the next edition.

Pradeep Goyal
Sr. VP, ASM International, USA
Chairman, Pradeep Metals Ltd.



My heartiest congratulations to ASM India Chapter & Tafcon. The event is again a trailblazing success.

C. (Ravi) Ravindran
Past President, ASM International
Past President, Canadian Academy of Engineering



Amazing foot traffic in exhibition. Very well organized.

Dr. T.S. Sudarshan
President & CEO, Materials Modification Inc., USA



Excellent event with participation from the Industry, Academia & Labs. It is a great platform for Industry-Labs -Universities, to identify best areas for a great collaboration.

Dr. Navin Manjooran
Chairman, SOLVE & VP, ASM International, USA



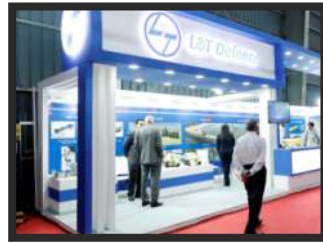
Most useful show I have ever attended. A lot of knowledge on technology.

Himanshu B. Patel
Founder & CEO, Triton Electric Vehicles LLC, USA

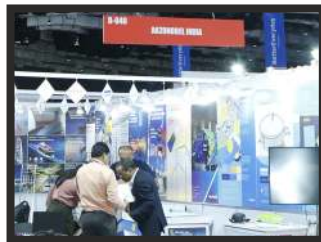
KEY HIGHLIGHTS LAST EDITION

- INAUGURATION - by Chief Guest: Shri Ajay Bhatt, Hon'ble Minister of State for Defence along with Dr. Samir V Kamat, Secretary, Department of Defence R&D and Chairman, DRDO.
- INTERNATIONAL CONFERENCES (organised by ASM) with the theme "ADVANCES IN MATERIALS ENGINEERING TECHNOLOGY" & "ADVANCES IN HEAT TREATMENT" were well attended and had high level panel discussions and presentations on role of Advanced MATERIALS and TECHNOLOGIES for Defence, Railways, Aerospace, Transport, Energy, Space. And Challenges for Heat Treat industry like Plasma Nitriding, Additive Manufacturing and many more.
- REVERSE BUYER SELLER MEET (RBSM) BY EEPC – Foreign Buyers from different Countries held one to one business meetings with the Exhibitors, giving opportunities for direct orders and Exports.
- "INNOVATION PAVILION" (Powered by Minex) showcased Innovations / Start Ups, by about 15 companies.
- "ROUND TABLE SESSION" (in partnership with SIDM), on the Defence Equipment Acquisition with the theme "Innovations and Indigenization in Defence Materials and Manufacturing" was very successful and saw participation from all the 3 Defence Forces and corporates manufacturing for the Defence Industry

GLIMPSES OF LAST EDITION



GLIMPSES OF LAST EDITION



VENUE - BOMBAY EXHIBITION CENTRE (BEC)

BEC is one of the Largest Exhibition Centre in Western India. After decades of hosting prestigious International Trade Fairs and Exhibitions, BEC is still among the most well facilitated and convenient venues in the country. It is ideally situated along the Western Express Highway in Goregaon, within 10 minutes from Airport, walking distance to Train Stations and a 20 minute drive from the Heart of the City. There are numerous Hotels, Entertainment activities, Shopping & Sightseeing Spots in close proximity.

BEC consists of 5 Large Exhibition and many Conference Halls spread across over 60,000 square meters of Centrally Air-Conditioned space for conducting Exhibitions & Conferences. It is one of the best well designed and busiest Exhibition Centre across the Country. The Halls are Wi-Fi enabled, have ample height, good lighting, well-designed ventilation and strong flooring to withstand even the heavy machinery.

ORGANISED BY



ASM INTERNATIONAL (INDIA CHAPTER) - Established in the year 1979, is one of the most active chapters in the world. It organizes technical courses on subjects like Heat Treatment, Welding, Metallurgy for the Non-metallurgist, Metal Forming,

Stainless Steels, Non-ferrous Metals, Thermal Spraying, etc. under the Continued Education Programme for engineers and technocrats. Other activities include Conferences, Workshops and Exhibitions on recent developments in Materials Processing, Materials Application Engineering, Heat Treatment, Equipment, etc. at National and International levels.



TAFCON - A professionally managed company with over six decades of experience and expertise in organizing international Trade Fairs and conferences in India and Overseas, on various industry sectors namely Mineral & Metals, Materials Engineering Technology, Heat Treat, Defence, Railway, Energy, Construction, Environment, Oil & Gas, Mining, Poultry, Dairy & Food Technology, Packaging, Printing Machinery, Travel & Tourism, Education, Surface Engineering, Paints & Coating & allied industries etc.

Contact Us

For Conference:
ASM INTERNATIONAL - INDIA CHAPTER
409, Srishti Square, LBS Marg, Bhandup (West)
Mumbai - 400079, Maharashtra, India
Tel: +91-22-35933220
Email: asmindia79@gmail.com
Web: www.asm-india.com

For Exhibition:
TAFCON PROJECTS INDIA PVT. LTD.
923 & 923A, 9th Floor, Devika Tower,
6 Nehru Place, New Delhi - 110019, India
Tel: +91-11-4985 7777 (50 Lines)
Email: htsexpo@tafcon.in
Web: www.tafcon.in

www.htsindiaexpo.com



Co-Located with

JSW
Presents

5th Edition

MET 2024

Material Engineering, Equipment & Technology Exhibition
on Defence, Transport and Alternate Energy

Wed. 4th - Fri. 6th September 2024

Bombay Exhibition Centre, Mumbai, India