

voestalpine High Performance Metals India Pvt Ltd

Corporate Presentation

voestalpine High Performance Metals India Pvt Ltd

www.voestalpine.com/highperformancemetals/india

voestalpine

ONE STEP AHEAD.

THE voestalpine GROUP



- » voestalpine is a leading steel and technology group with combined material and processing expertise, holding global top positions in its business units.
- » The group focuses on product and system solutions based on steel and other metals of the highest quality in technology-intensive industries and niches.

GLOBAL FOOTPRINT

OUR BUSINESS IN FIGURES



500/50/5

locations/countries/
continents



48,700

employees



11.3

billion € turnover



1.1

billion € EBITDA

THE DIVISIONS OF voestalpine

Metal Forming

Revenue (M€) 2,553.9

Employees (full-time equivalent) 11,525

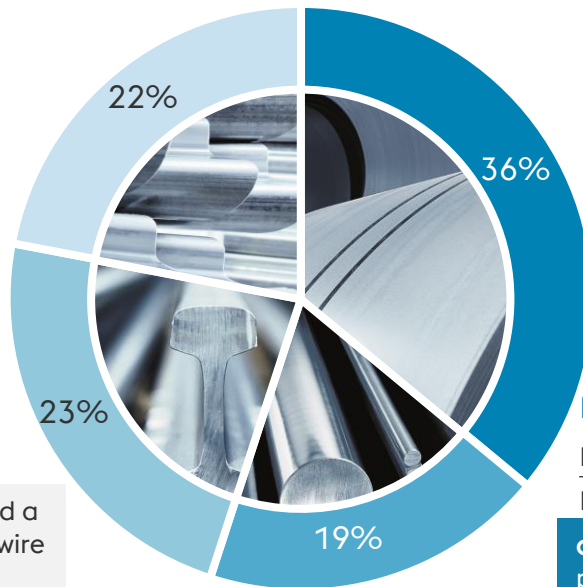
GLOBALY LEADING SUPPLIER of highly refined sections, tubes and precision strip steel products, as well as of ready-to-install system components made of pressed, stamped and roll-formed parts

Metal Engineering

Revenue (M€) 2,667.3

Employees (full-time equivalent) 13,145

WORLD MARKET LEADER in turnout technology and a leading partner for premium rails, top quality wire rod and drawn wire, ready-to-install seamless tubes, medium-alloy and high-alloy filler materials and semi-finished steel goods.



Steel

Revenue (M€) 4,216.7

Employees (full-time equivalent) 10,461

WORLDWIDE QUALITY LEADER for highest quality steel strip and foundry products, as well as the world's leading supplier of heavy steel plates

High Performance Metals

Revenue (M€) 2,299.8

Employees (full-time equivalent) 12,586

GLOBAL MARKET LEADERSHIP for tool steel and a leading partner for high-speed steel, valve steel, special forged parts and powder metallurgical materials

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HIGH PERFORMANCE METALS DIVISION

GLOBAL

- » With our international production facilities and our worldwide Value Added Services network, we guarantee that our customers get “everything from a single source”.

HPM Production



We manufacture **high-performance materials** and **components** for the technologically most demanding applications in a wide variety of industrial segments.

Value Added Services



With a unique global distribution network and related local services, we are the global N° 1 in tool steel and a leading partner for the oil & gas and aerospace industries.



voestalpine HPM INDIA

We are one of the India's leading supplier of high-performance materials with a unique service network all under one roof.

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HIGH PERFORMANCE METALS DIVISION INDIA



- » voestalpine High Performance Metals India Pvt Ltd. was **incorporated in 2008**, formerly known as **Böhler-Uddeholm India Pvt Ltd.**

HPM distribution & processing



We are into distribution and processing of **high-performance materials** and **components** of our own brands, for the technologically most demanding applications in a wide variety of industrial segments.

Value Added Services



With a unique distribution network we also provide VAS like Surface Engineering, Heat Treatment, Additive Manufacturing and Metallurgical Laboratory

LOCAL FOOTPRINT

OUR BUSINESS IN FIGURES



3/3/1

warehouses/VHT /
PVD



115

employees



21.5

million € turnover



2.11

million € EBITDA

DISTINCTIVE THROUGH STRONG BRANDS



OUR PRODUCT PORTFOLIO

Tool Steel

Hot Work Tool Steel
Cold Work Tool Steel
Plastic Mould Steel

High-speed steel

Conventional Steel
Powder Metallurgy Steel

Special steel

Aerospace
Chemical Processing Industry
Oil and Gas
Powergen

Engineered Products

Core Pins & Sub inserts
Press Tool

Others

Beryllium Copper
Alumec

OUR VALUE ADDED SERVICES (VAS)

Heat Treatment

Vacuum Heat Treatment
Cryogenic process
Stress Relieving

Surface Engineering

Physical Vapor Deposition (PVD)
Advanced Benefit Process (ABP)
Polishing

Additive Manufacturing

AM powder
Nozzle Flow Filters

Metallurgical Laboratory

Training and Consultation
Failure Analysis
Suggesting Corrective Action

Our Products

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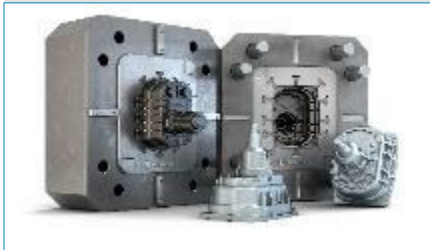
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PRODUCT : TOOL STEEL

Hot Work Tool Steel

Application

- » Die Casting
- » Hot Forging
- » Extrusion
- » Compression Moulding



Cold Work Tool Steel

Application

- » Cutting / Blanking
- » Cold forming
- » Coining (Minting)
- » Industrial knives
- » Deep drawing
- » Powder sintering
- » Cold / forming rolls



Plastic Mould Steel

Application

- » Injection moulding
- » Backlight moulding
- » Compression moulding
- » Poly Vinyl Chloride (PVC)



PRODUCT : HIGH SPEED STEEL

Conventional Steel

Application

- » Drills & Taps
- » Milling Cutters
- » Hobs
- » Broaches
- » Cold-forming



Powder Metallurgy (PM)

Application

- » Drills & Taps
- » Milling Cutters
- » Hobs
- » Broaches
- » Stamping



PRODUCT : SPECIAL STEEL

Aerospace

- » High-performing metals for aerospace
- » optimization of our capabilities
- » Global supply local focus
- » Reliable and Consistent high quality levels



Chemical Processing Industry

- » Hastelloy sheets of 3, 5 & 6 mm thickness
- » Inconel Sheets
- » Corrosion Resistance



Powergen

- » Turbine Rotors
- » Turbine Blade Material
- » Creep Resistance



Oil and Gas

- » Higher Strength
- » Corrosion Resistance
- » API Approved
- » Drill collars
- » Completion Tools
- » Inconel



OUR MOST FREQUENT PRODUCT SHAPES

in various dimensions



PRODUCT : Engineered Products

Core Pins for HPDC

We have the engineering expertise and experience to provide “special” and “custom” **core pins** for die casting applications.



Sub inserts for HPDC

We have the engineering expertise and experience to provide “special” and “custom” **sub inserts** for die casting applications.





OUR SERVICES

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Services : Heat Treatment

Imparting Soul To Steel



- » We provide Heat Treatment process like
 - » Vacuum Heat Treatment
 - » Cryogenic Treatment (Liquid Nitrogen)
 - » Stress Relieving Vacuum & Atmosphere)
 - » Vacuum Annealing



Services : Surface Engineering



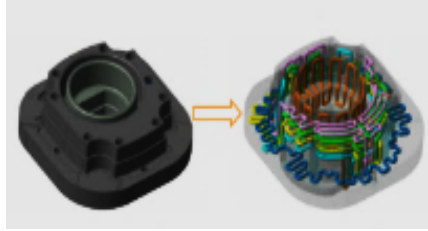
- » Our state-of-the-art coating center is equipped with the latest coating process technology.
- » The PVD Coating Services are provided by **voestalpine eifeler Coatings**, a wholly owned member of the voestalpine Group
- » Physical Vapor Deposition (PVD)
 - » Machines
 - » Alpha 900 (Ø 750x880)
 - » Alpha 400 (Ø 450x485)
 - » Specialised in Ultrafine Coating
 - » 7 stage Cleaning Line
- » Advanced Benefit Process (ABP)
- » Polishing

SERVICES: ADDITIVE MANUFACTURING

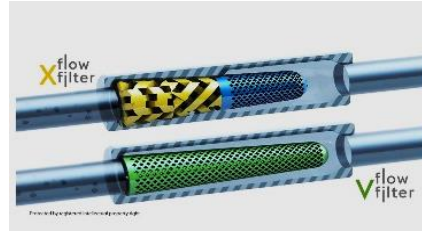
R&M of Component



Powder



Component – Designing and Modelling



Nozzle Filters made using AM technology



- » Manufacturing Service
 - » The **additive manufacturing process** uses **3D data** to manufacture components by adding layer upon layer of metal powder.

- » Material expertise in powder metallurgy – Particle size 15-45 µm & 45-150 µm
 - » Uddeholm COREX
 - » Böhler L718 AMPO
 - » Böhler L625 AMPO
 - » Böhler N700 AMPO
 - » Böhler W722 AMPO

- » Research competence centre
 - » R&D and manufacturing Facilities in GmbH Dusseldorf and Singapore
 - » Combines the core competences of
 - » powder production
 - » design optimization
 - » component production

SERVICES: METALLURGICAL LABORATORY



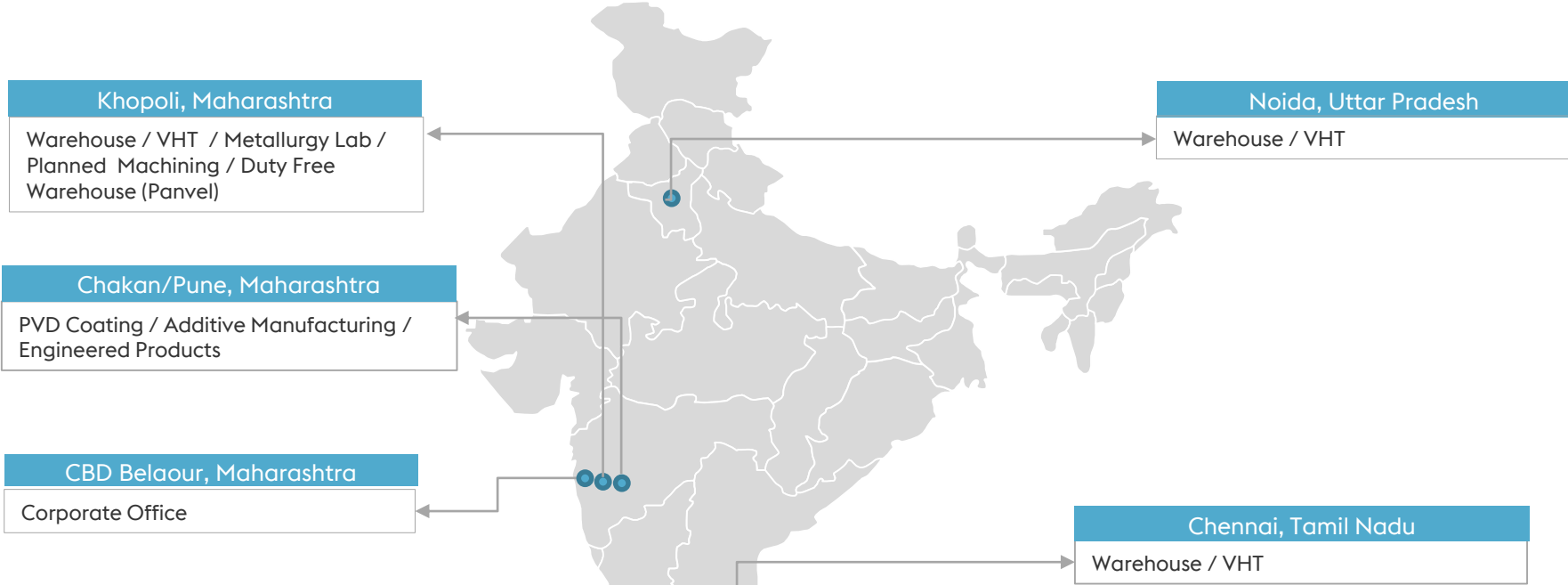
- » Tool Design support
- » Tool Life performance improvement
- » Tool Failure analysis
- » Highly experienced Team
- » Guidance on right selection of TS according to application
- » Close interactions with universities and institutions
- » Conducting technical seminars and trainings

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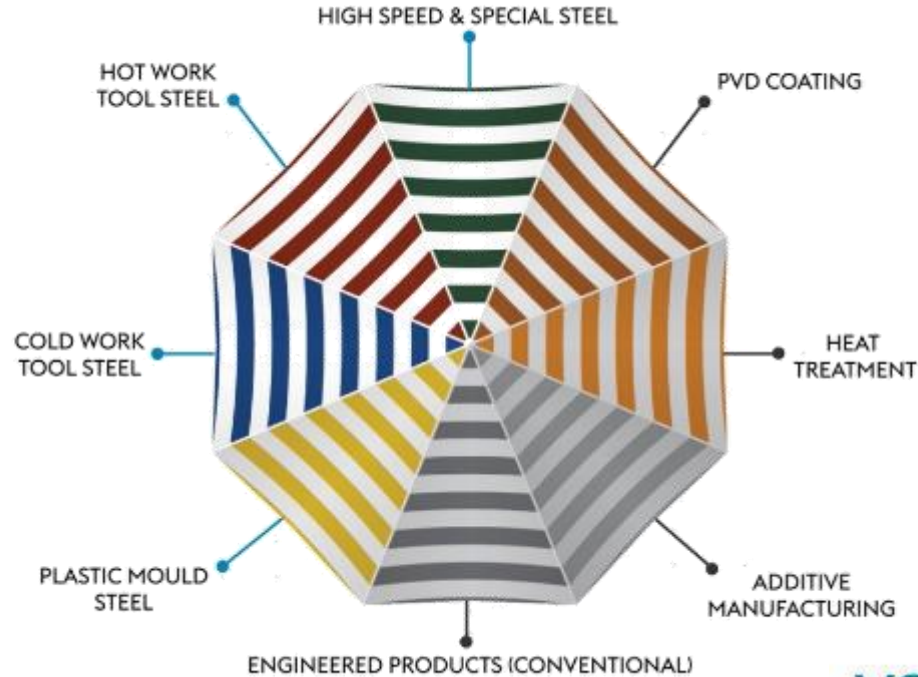
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ONE STEP AHEAD.

OUR PRESENCE IN INDIA



WE HAVE YOU COVERED

HIGH
PERFORMANCE
MATERIALS



VALUE
ADDED
SERVICES

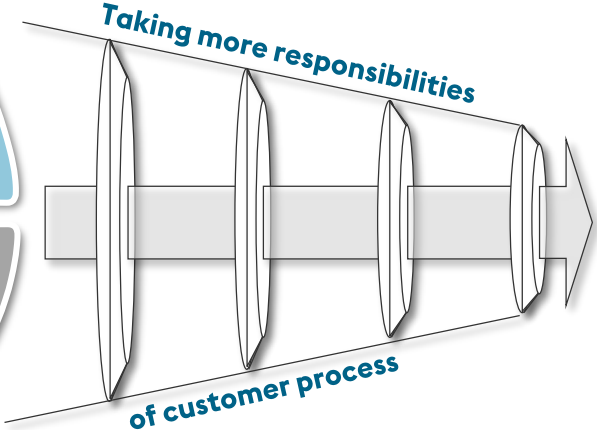
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WHY US ?



Satisfied Customer



Our Major Customers



DIETECH INDIA



BOSCH



LMT TOOLS



ZAHORANSKY



SIEMENS



ADDISON



EMERSON



HAL



GKN DRIVE LINE



SIGMA



HONDA



EMKAY TOOLS



GODREJ



GE ALSTOM



VOLKSWAGEN



SANDVIK



ENDURANCE



SHIVAM AUTOTECH



SCHAEFFLER



VISTEON



“Taking more responsibility of our customer’s processes”

Thank you