Trushape®

Ideas Shaped, Quality Delivered

TRUSHAPE COMPANY PRESENTATION

QUALITY SYSTEM CERTIFICATION DNV ISO 13485

TÜVNORD TÜV NORD CERT GmbH ISO 9001 tuev-nord.de

TÜVNORD TÜV NORD CERT GmbH ISO 14001 tuev-nord.de

TÜVNORD TÜV NORD CERT GmbH ISO 45001 tuev-nord.de

About Us

- Investment Casting / Lost Wax / Feinguss
- Lost Foam Casting
- Shell Moulding
- Gravity Die Casting
- Rapid Prototyping & 3D Printing
- No Bake Sand Casting

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Manufacturing precision components since past 24 years

- Ferrous and Nonferrous
- 180 employees
- Heat Treatment
- Electroplating & Polishing
- CNC Machine Shop
- Assembly
- Mechanical and Chemical Testing
- NDT testing

The Journey That Shaped Us

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2000 — *Est. of Trushape*

2011 — *ISO 9001:2008 Quality Management System (QMS)*

2014 — *Est. of CNC Machine shop*

2016 — *Exports to Volkswagen & Audi Germany*

2016 — *Est. of Heat Treatment, Plating, Polishing & Surface Treatment*

2017 — *ISO 9001:2015 Quality Management Systems (QMS)*

2018 — *Development of Artificial Lower Limb Products*

2020 — *ISO 13485:2016 Medical devices Quality management systems*

2020 — *Development of Additive Casting for Rapid Prototyping*

2021 — *Induction of Zeiss CMM, Keyence VMM & Spectromaxx Analyxer*

2022 — *Est. of Lost Foam (Replica) & Shell Moulding Processes*

2023 — *ISO 14001:2016 (EMS) & ISO 45001:2018 (OH&S)*

2024 — *Est. Of Gravity Die Casting Process*

2025 — *In Process: CBAM, GHG Carbon Footprint, ECO Vadis, Llyod's Certificate*

2026 — *Future Certification Scope IATF 16949*

To be continue...

Exports in Million (INR) - 2020 - 2025

Exports Countries

In House Facilities

Processes:

- Investment Casting / Lost Wax / Feinguss
- Shell Molding Casting
- Lost Foam Casting
- No Bake Casting
- Rapid Prototyping / 3D Printing
- Gravity Die Casting

Quality Control:

- Trimos Height Gauge
- Zeiss CMM
- Keyence VMM

Testing Lab:

- Tensile Testing
- Izod Impact Testing
- Hardness Testing
- Spectrometer (Spectromaxx & Bruker)
- Dye Penetrant Test
- Ultrasonic Test
- Conductivity Test
- Pressure Test

Weight capabilities:

- Lost Wax : 3 Grams to 30 Kgs
- Shell Molding: 5 Kgs to 60 Kgs
- Lost Foam: 3.5 Kgs to 90 Kgs No Bake: 3 Kgs to 40 Kgs
- Rapid Prototyping: 5 Grams to 30 Kgs
- Gravity Die Casting: 100 Grams to 3 Kgs

Surface Treatment:

- Heat Treatment Furnaces
- Sand Blasting
- Shot Blasting
- Glass Bead Blasting
- Media Polishing
- Electropolishing
- Electroplating

Rapid Prototyping:

- 3 Nos FDM (Multi material) Printer
- 2 Nos SLA Printer

Machine Shop:

- 2 Nos CNC Turning Machines
- 4 Nos 3 Axis VMC Machines
- 2 Nos 4 Axis VMC Machines (Makino)
- Conventional Lathe, Drill and Milling Machines

Material Grades

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Stainless Steel

- Austenitic : 304, 316, 316L, 321, 1.4301, 1.4404, CF8, CF8M
- Martensitic: 410, 420, 440C
- Duplex & Super duplex: F51, CA6NM
- Precipitation Hardened: 17-4PH, 1.4542, CB7Cu-1

Tool & High-Speed Steels:

- Tool & Wear Resistant: D2, 1.2379, 1.2080, HSS, X155CrVMo12.1, Hardox 400

Aluminium & Light Alloys:

- Casting Alloys: LM6, LM25, 535, A356

Carbon & Low Alloy Steels:

- Carbon Steels: EN8, EN24, EN36, C15, C45, ASTM A48
- Low Alloy Steels: 4140, 4130, 4340, 8620, 20MnCr5, 42CrMo4
- Case Hardening Steels: 16MnCr5, 34CrNiMo6, 38Cr5Ni3Mo1Cu

Special & Magnetic Alloys:

- Alnico, ISO 5832-1, 1.4441, 1.4086, Guronit

Nickel & Cobalt based Superalloys:

- Nickel Based: Inconel 625, Inconel 713C, Hastelloy C-22, Hastelloy X, CW12MW
- Cobalt Based: ASTM F75 (CoCr), Stellite 6
- Ni-Resist: Type 1 Ni-Resist

Copper Based:

- Brass, Bronze & Gunmetal: CZ121, CB766S, C83600, CuAl11Fe6Ni6, CC040A, CuZn37Al1

Certifications

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ISO 9001:2015

TÜVINDIA

Certificate

Management system as per
ISO 9001:2015

The Certification Body TUV INDIA PVT. LTD. hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

TRUSHAPE PRECISION CASTINGS PVT. LTD.
Survey No.160, Bhavnagar- Rajkot Highway,
Village-Shampara, Bhavnagar – 364 060,
Gujarat,
India

operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Manufacture and Supply of Investment Castings for Engineering, Prosthetic and Orthotic Application.

Certificate Registration No. IND 100 26394037
Audit Report No. BAR/AUD/25-26/7713
Valid from 07.02.2026
Valid until 06.02.2029
Initial certification 07.02.2011

Mumbai, 29.01.2026
Certification Body at TUV INDIA PVT. LTD.

To verify the validity of this certificate, please visit https://www.iafcertsearch.org

TUV INDIA PVT. LTD.
801, Raheja Plaza 1, L.B.S Marg,
Ghatkopar (W) Mumbai – 400 086,
India
www.tuv-nord.com/in

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ISO 13485:2016

DNV

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that the management system of
Trushape Precision Castings Pvt. Ltd.
Survey # 160, Bhavnagar – Rajkot Road, Village: Shampara,Bhavnagar - 364060, Gujarat, India

has been found to conform to the Quality Management System standard:
ISO 13485:2016

This certificate is valid for the following scope:
Manufacture, Distribution and Sales of Non sterile Prosthetic & Orthotic Components, Metal Components for Artificial / Prosthetic Limbs

Place and date: Høvik, 21 June 2024

For the issuing office:
DNV Product Assurance AS
Veritasveien 1, 1363 Høvik, Norway

Cecilie Gudesen Torp
Management Representative

ISO 45001:2018

TÜVINDIA

Certificate

Management system as per
ISO 45001:2018

The Certification Body TUV INDIA PVT. LTD. hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

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Survey No.160, Bhavnagar- Rajkot Highway,
Village-Shampara, Bhavnagar – 364 060,
Gujarat,
India

operates a management system in accordance with the requirements of ISO 45001 : 2018 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Manufacture of Investment Castings for Engineering, Prosthetic and Orthotic Applications.

Certificate Registration No. IND 126 24394895
Audit Report No. G 13179/2023
Valid from 08.03.2024
Valid until 07.03.2027
Initial certification 08.03.2024

Mumbai, 08.03.2024
Certification Body at TUV INDIA PVT. LTD.

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ISO 14001:2015

TÜVINDIA

Certificate

Management system as per
ISO 14001:2015

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TPCL Global Area by Sector

- Medical (24.2%)
- General Engineering (29%)
- Automotive (18.1%)
- Heat Treatment (11%)
- Industrial Sewing & Textile (12%)
- Electrical & Electronics (5.4%)
- Defence (0.3%)
- Other (1%)

Safety-Critical Expertise

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Focus on Manufacturing Process	Investment casting is a specialty at Trushape. We've mastered this process to ensure consistent quality and meet demanding requirements of our customers.
Material Control and Traceability	Certified processes to meet specific quality standards, and the materials used in production are sourced from genuine suppliers
Supplier Management	At Trushape suppliers are qualified based on their capabilities, quality control processes, and past performances. Regular audit controls for suppliers are done, and the quality requirements are clearly communicated
Quality Control and Inspektion	100% Inspection for Critical Components, Statistical Sampling, Updated Operators Training
Continuous Improvement	Detailed documentation of the entire lifecycle of the component are maintained, including design decisions, material certificates, test results, and any non-conformance reports
Comprehensive Verification	Testing of the components under simulated real-world conditions, including extreme loads and environmental stresses

Achievements

- Smallest Casting weighing 3.0 gms. with 12 critical dimensions and ± 0.1 gram accuracy in weight

- Castings weighing 5.4 gms. with ± 0.1 gram accuracy in weight

- Import substitute for complete machined castings for Orthotic and Prosthetic applications for rehabilitation

Our Component Segments

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Automotive & Transportation

Electrical

General Engineering

Hardware

Industrial Textile

Aerospace & Defence

Saddlery

Heat Resistant Steel

Energy

Precision Prototyping

Luxury Decorative Metal Art

Trushape Meditech

Orthopedic & Prosthetic Components – Precision for Human Mobility

- Since our inception in 2010, Trushape Precision Castings has been at the forefront of innovation in orthopedic and prosthetic metal castings. What began as a vision to extend our expertise in precision engineering to the healthcare industry has evolved into a trusted partnership with leading medical device manufacturers across India and beyond.
- At Trushape, we not only manufacture precision-cast components but also carry out complete in-house assembly and testing to ensure consistent quality, performance, and reliability. Each assembly undergoes rigorous inspection and functional testing before delivery, ensuring it meets the strict standards required by the medical and biomechanical sectors.
- We proudly supply our products to NGOs, healthcare institutions, and prosthetic rehabilitation centers both nationally and internationally, supporting initiatives that restore mobility and improve the quality of life for countless individuals in need.

Product Range & Applications

- Prosthetic Joints & Connectors – Precision-cast knees, ankles, and connectors for smooth movement and long-term durability.
- Custom Socket Interfaces – Designed for a perfect anatomical fit, enhancing comfort and usability.
- Orthotic Supports & Braces (KAFOs, AFOs) – Engineered for strength, alignment, and lightweight performance.
- Lightweight, High-Strength Components – Manufactured using premium stainless steel and aluminum alloys for durability without added weight.
- Ergonomic & Aesthetic Designs – Focused on patient comfort, wearability, and visual appeal.
- Orthopedic Implants & Surgical Tools – High-precision castings for hip, knee, and toe implants, orthopedic jigs, and other critical surgical components.

Trushape Equiform

- At Trushape Precision Castings, our saddlery components reflect a perfect blend of traditional craftsmanship and modern engineering. Crafted from premium-grade metal castings, each piece combines strength with elegance—ensuring durability, reliability, and performance in every ride.
- Our journey in precision metal casting began with a vision to bring world-class quality to Indian manufacturing. Over the years, we've refined our techniques and expanded our expertise to cater to the demanding needs of the equestrian industry. Drawing upon decades of metallurgical knowledge and advanced casting technologies, we produce components that withstand the rigors of riding while maintaining impeccable finish and aesthetic appeal.
- From stirrup irons to buckles and fittings, every component is engineered with meticulous attention to detail, reflecting our commitment to excellence and our respect for the heritage of equestrian craftsmanship.

Product Range & Applications

- Buckles and Clasps – For secure and reliable fastening of straps and harnesses.
- Stirrups – Providing rider support, balance, and safety during every ride.
- Bits – Enabling effective control and communication between horse and rider.
- Spurs – Delivering precise rider cues for refined performance.
- Saddle Trees – Forming the core structure that ensures proper fit and comfort.
- Decorative Hardware – Adding visual appeal and elegance to premium saddlery products.

Our Growth in Equipment & Facilities:

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2019

Wax Department – 4.5 tons production

Melting Department – 50 kg & 100 kg furnaces

Quality Control – Conventional measuring equipment

Materials Lab – Bruker Tasqman Spectro

Machining Dept. – 2 CNC, 1 VMC

Heat Treatment – 150 kg & 20 kg furnaces

2025

Wax Department – 10 tons production

Melting Department – 50, 100 & 300 kg induction furnaces

Quality Control – Zeiss CMM, Keyence VMM, Trimos height gauge + conventional

Materials Lab – Spectromaxx analyser + Bruker Tasqman

Machining Dept. – 2 CNC, 3 VMC

Heat Treatment – 400 kg, 150 kg, 20 kg, 10 kg furnaces

New Additions: R&D & Design Manager, Lost Foam / Shell Moulding / No Bake Sand Casting (Up to 100 kg, reduced cost)

Value We Deliver to Our Customers

Capability / Department	Customer Advantage
Wax Department – 10 tons production volume	Allows us to produce large quantities with shorter lead times
Melting Department – 50 kg, 100 kg, 300 kg induction melting furnaces	Allows us to produce samples in large quantities
QC Department – Zeiss Duramax CMM, Keyence VMM, Trimos Height Gauge and Conventional Equipment	Better quality, more precision, and dimensional accuracy
Materials Laboratory – Spectromaxx Metal Analyser and Bruker Tasqman Spectro	Minimal probability of error and highest accuracy in metal composition detection
Machining Department – 2 CNC and 3 VMC	Improved ability to perform complex machining operations with shorter lead time
Heat Treatment – 400 kg, 150 kg, 20 kg, 10 kg furnaces	Enables us to perform large quantities of treatments, reducing costs
New R&D and Engineering Manager appointed	Better understanding of customer requirements and ability to take on more complex projects
Lost Foam Casting – components up to 120 kg with cost efficiency	Higher production availability with reduced end-customer costs

Our Core Values

Value	Description	Explanation	Impact
Dedication to Knowledge	Tailored solutions through deep expertise	The company is committed to continuously learning and applying deep expertise to offer personalized solutions that meet each client's unique needs.	Customized services or products that strengthen client relationships and show a deep understanding of their challenges.
Trusted Experts	High precision and quality for our customers	Focus on delivering high-quality outcomes with precision. The company is reliable and trusted to provide top-tier service or products.	Builds trust with clients, leading to long-term loyalty and credibility in the marketplace.
Innovative & Agile	Continuous improvement in everything we do	The organization prioritizes innovation and constant improvement. It adapts quickly to changes in the market and implements new technologies or processes as needed.	Keeps the company competitive, responsive to changes, and forward-thinking, ensuring its relevance in a rapidly evolving industry.
Supplier Relationships	Long-term, reliable partnerships	Values strong, transparent, and mutually beneficial relationships with suppliers, emphasizing trust and collaboration.	Ensures reliable supply chains, better quality, and favorable pricing, benefiting both the company and its customers.
Collaborative & Inclusive	Power of people and teams worldwide	Encourages collaboration and inclusion across teams, departments, and geographies, valuing diverse perspectives and expertise.	Fosters creativity, problem-solving, and a more engaged workforce, enhancing customer satisfaction and business success.
Integrity	We do what we say we will do	The company operates with honesty, transparency, and accountability, ensuring that commitments are always followed through.	Builds long-term trust with clients, employees, and partners, laying the foundation for lasting business relationships.

Social Responsibilties

Workplace safety:

Hazard assessment, continuous equipment maintenance, ongoing training

Health protection and occupational safety, respect for human rights and protection of employees against discrimination is to utmost importance to us

Sustainable Practices:

Power generation road map through Solar and Hydrogen.

Corporate Social Responsibility (Activities)

Parenting for Peace Workshop

CSR Activity: Donations to Various Charitable funds

Corporate Social Responsibility Activities

Industry-Academia Collaboration |
Digital Manufacturing Visit at Trushape

Blood Donation Camps

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Contribution to Environment

- Green vegetation Plantation : 2500 square meters
- 35 Mango trees and other fruit trees along with organic vegetables are grown around the factory vicinity. Fruits from which are then distributed among our employees.

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