



HIM TEKNOFORGE LTD.

Gearing For Future >>



Him Teknoforge Ltd. established in 1981, is the flagship Company of HIM Group. Over the past four decades, the Company has come to be known internationally, for its world-class technology, robust quality processes, and core engineering, design and manufacturing capabilities. The Company plays a significant role in the auto-component industry in India catering to Farm Equipment, Automotive, Engineering and Defense sectors.

www.himteknoforge.com



Overview



FOUNDATION AND GROWTH STORY

- 2023** • Technology upgradation by installing Mazak VMC 5-Axis, Burri Gear Grinding, Sealed Quench Furnaces and Automated Ultrasonic Washing Machines
- 2020** • Ventured into Warm Forging by installing CNC Screw Presses of 1000 Ton and 1600 Ton
- 2019** • Set-up new plant for exports in Baroda
- 2018** • Him Teknoforge Ltd. got listed on BSE
- 2016** • Venture Capital funding for technology upgradation
- 2013** • Acquired Gujarat Automotive Gears Ltd. (Listed Company)
- 2011** • Certified for ISO 9001 and IATF 16949:2009
- 2010** • Set-up New Forging plant at Manpura (H.P)
- 2009** • Acquired Gear Manufacturing facility at Pithampur (M.P.)
- 2008** • Got selected as the preferred supplier to Ashok Leyland
- 2001-08** • Undertook Technology up-gradation by installing VMC, CNC Turning center & CNC Hobbing M/c
- 1996** • Established Machining Unit (Gear Division) in Baddi and Forging unit in Pithampur (M.P)
- 1989-94** • Awarded as best supplier from Eicher Tractors
- 1981** • Him Teknoforge Ltd. established, with a forging unit in Baddi (H.P.)



About Us

Him Teknoforge Ltd, is the flagship company of Him Group. Our Mission is to achieve excellence in serving customers through production of forgings and finished components and assemblies for automotive, engineering and agricultural applications

An IATF 16949:2016 accredited company, Him Teknoforge is internationally reputed for its cutting edge technology, established quality processes, and capabilities developed over the years. With customer satisfaction at the foundation of its entire operation, each customer specification is carefully transformed into a cost efficient reality. Every part we create is a representation of our overall dedication to craftsmanship.

Currently, Company operates 6 manufacturing facilities with a production capacity of 40,000 MT of forgings per annum and around 5 million machined components per annum, employing more than 2,000 skilled and experienced personnel.

Group Turnover – Exceeds Euro 60 Million

Him Teknoforge Ltd. strongly believes that our future lies ahead with our astute customers, vendors and partners. By gaining a thorough understanding of their needs, the company envisions becoming a global player.

Farm Equipment



Automotive



Agri-Implements



Defense Sector

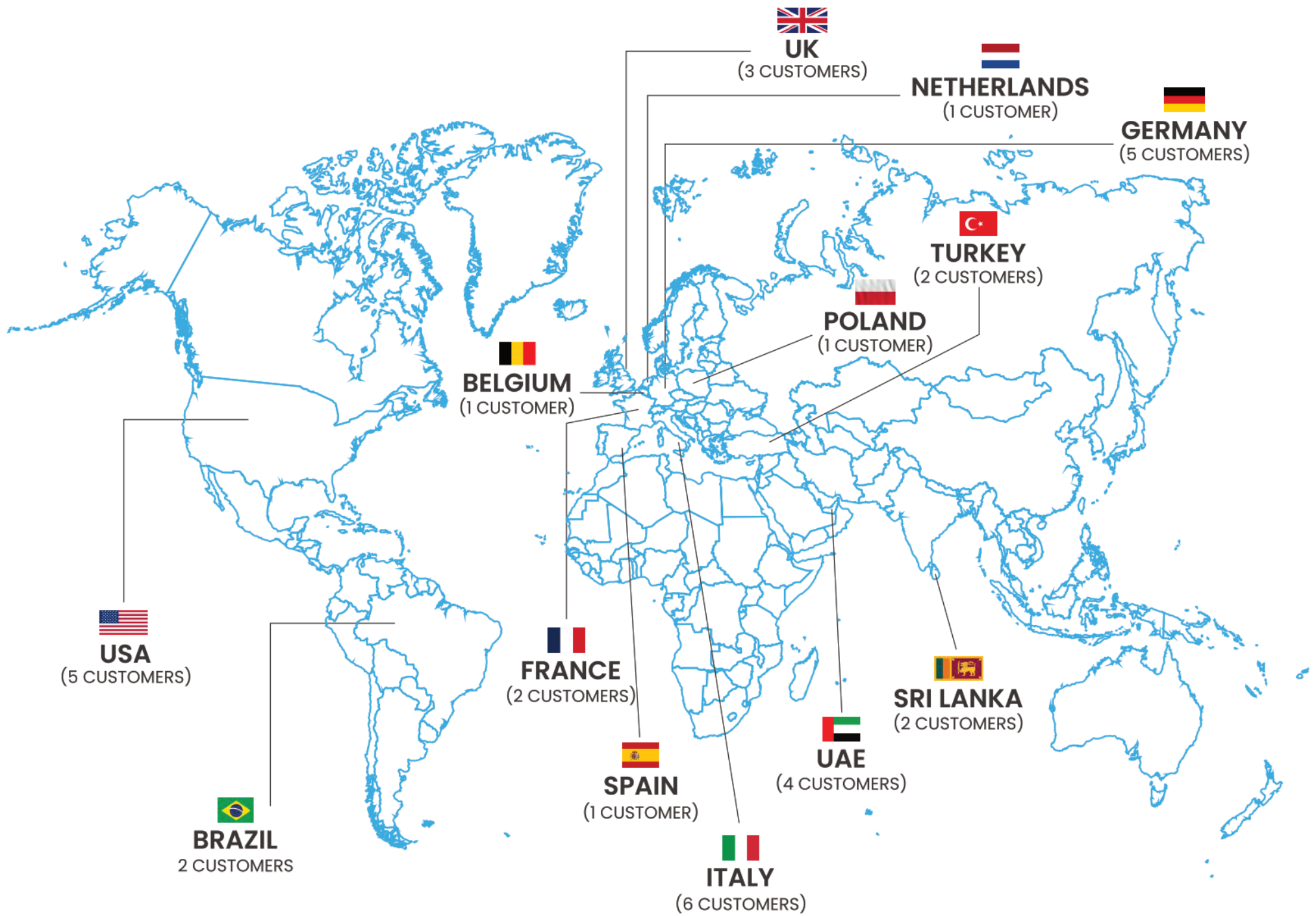


Construction





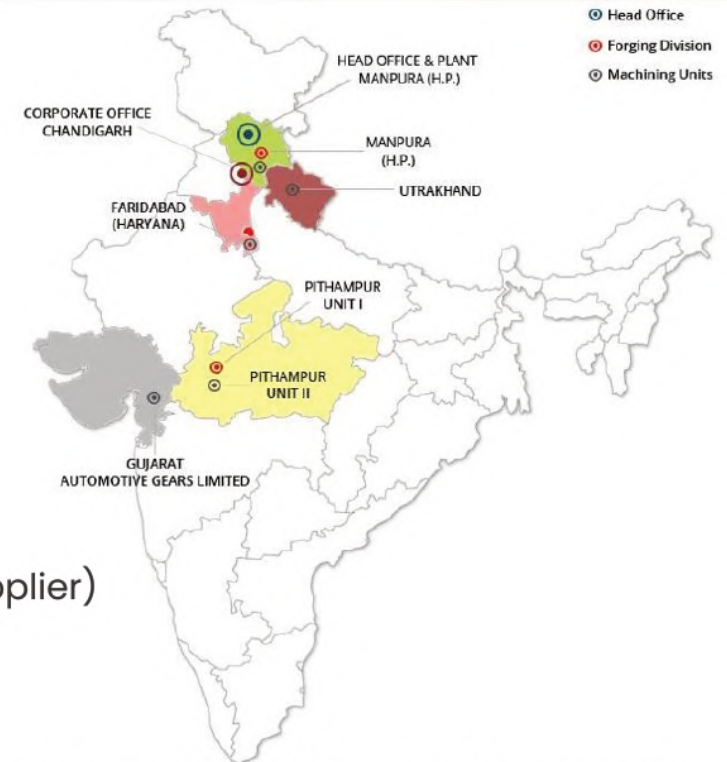
Our Export Footprint





Manufacturing Facilities

- FORGING DIVISION I – BADDI (H.P)
- MACHINING UNIT GD – BADDI (H.P)
- MACHINING UNIT II – BADDI (H.P.)
- MACHINING UNIT IV – BADDI (H.P.)
- FORGING DIVISION II – PITHAMPUR (M.P.)
- MACHINING UNIT III – PITHAMPUR (M.P)
- GUJARAT AUTOMOTIVE GEARS – VADODARA, GUJARAT
- MACHINING UNIT V – JIT SUPPLY TO ASHOK LEYLAND
– PANTNAGAR, UTTRAKHAND
- MACHINING UNIT @ FBD – GS PRECISION PVT. LTD. (Dedicated supplier)



Business Activities

- **Forgings:** HTL is a manufacturer of quality forgings for gears, shafts, axles, crown wheels, pinions, couplings, sleeves, levers, linkages, for tractors and automobiles. Forgings are the thrust area of the company and HTL has created strong back-up infrastructure like designing and engineering including state of the art testing facilities for these products. HTL produces over 500 different parts and makes its forgings by using multiple cavity dies. The parts are forged in both carbon and alloy steel and can range in weight from just 0.5 Kg. to 60 Kg. Brand new 1,000 ton and 1,600 ton forging presses have been installed to upgrade technology and enhance capability.
- **Machined Components:** As part of its forward integration process, the company diversified into finishing and machining operations and is an established player in gears, axles, shafts, non gears etc. and it has started supplying assemblies & sub assemblies to OEM's. The company is an OE supplier to many large manufacturers in Automobiles, Construction equipment manufacturers, Agri Machinery manufacturers (like Tractors, Combines, Rotavators etc), Railways, Defence & International Markets of Western Europe and North America.

Forging Infrastructure





Material Testing Facilities

- Steel – Carbon and Alloy (Special grade)
- Standards – DIN / ANSI / EN / ASTM / JIS
- Spectroscope (make Amtek Germany) & Portable Spectro
- Universal testing machine (capacity 600 KN)
- Rockwell hardness machine
- Microscope (make Gippon INC)
- Impact testing machine (energy range 0 – 300 Joules)
- Complete in – house facilities for raw material testing in fully equipped metallurgical laboratory
- Micro hardness tester, Spectrometer, Portable Spectrometer, Jominy testing with mechanical and chemical analysis of steel



New Development & Reverse Engineering

- State-of-the-art 3D Laser Scanner
- Portable 8-way arm 3D Scanner
- Integrated Faro CMM
- Integrated Geo-Magic Modelling Software
- Included with Control NX Quality Software
- State-of-the-Art 3-Axis DMG Mori VMC for critical tool development within 6-8 microns



Forging Capability

- The Company is manufacturing around 2500 MT/month of quality forgings, gears and non gears and has a capacity of approx. 3500 MT/month
- The range of non-gear items includes levers and linkages, propeller shaft components, con rods, Axles, shafts, crown wheel & pinions, repair kits and S-Cam Shaft for various auto/non-auto applications.
- Forging process includes closed die, upset and drop forging to produce small metal component parts for OEM's.
- We have the necessary equipment to finish, machine, and heat treat forged parts according to needs of our customers.
- Our Quality Assurance department has the necessary equipment to perform all standard testing.

Weight Range

- **0.50 kgs – 60 kgs** items covering Gears, Non-Gears, Levers and Linkages, Axles Shafts, Crown Wheels, Bull Gears, Pinions, Spiders, Flanges, Forks etc.
- **Upsetters** – Weight Range about 35 Kg. Gripping 75mm, Flange dia 275 mm



Steel Yard & Blank Cutting

- Billet Shearing Machines (Make Ficcep)
- Band Saw Machines (Make Indotech & PETRA)
- Band Saw Machines (Make SPM)
- State-of-the-art ITL Make Circular Saw



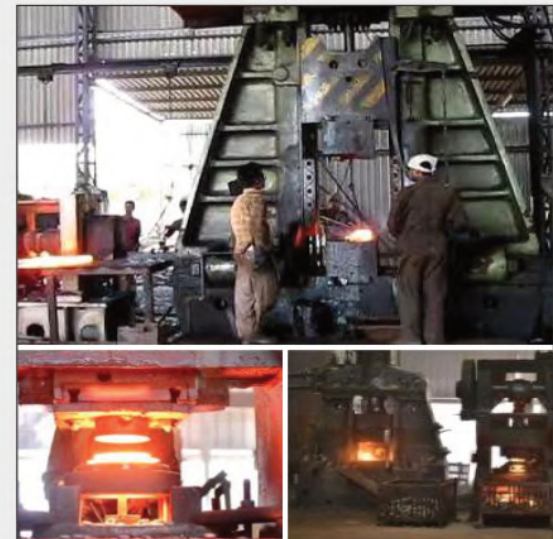


CNC Press Shop

- Two Electronic CNC Driven Screw Presses
- EPC 1600 Ton
- EPC 1000 Ton
- Hydraulic CNC Press 1000 ton
- Cold Coining Press

Forging Hammers

- Six Belt drop Hammers – 0.75 tons to 3 tons
- Six Pneumatic Hammers – 1 tons, 2.5 ton, 3 ton
- One Hydraulic Hammer – 6 ton



Forging Upsetter

- Four Upsetters
- Make – National (American) 6" , 4"
- Make – Smeral (Russian) 5" , 3"
- Max diameter upsetting upto 275 mm
- Maximum bar diameter forging up to 80 mm



Induction Heating

- Keeping Environment, safety & productivity in mind all forging equipment is run only thru Induction Heaters and no oil-fired furnace
- Induction Heaters for forging – 16 no's
- Induction heater from 150 KW – 1200 KW
- Accept & Reject System on key Equipment's
- 5 station & 3 station induction heating coils
- Make Induction & Mega thermal & Electrothermal



Heat Treatment Shop

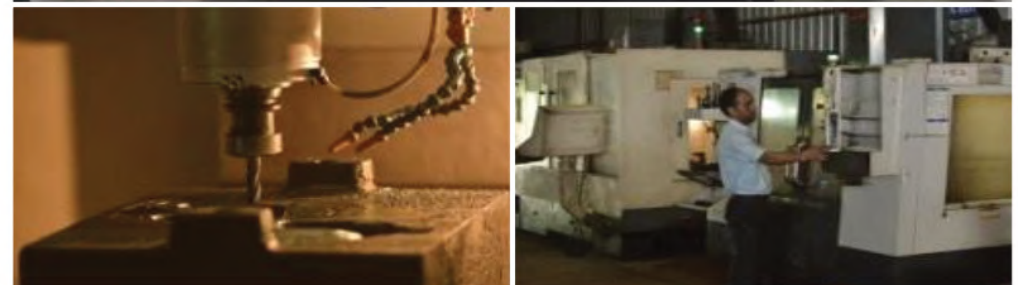
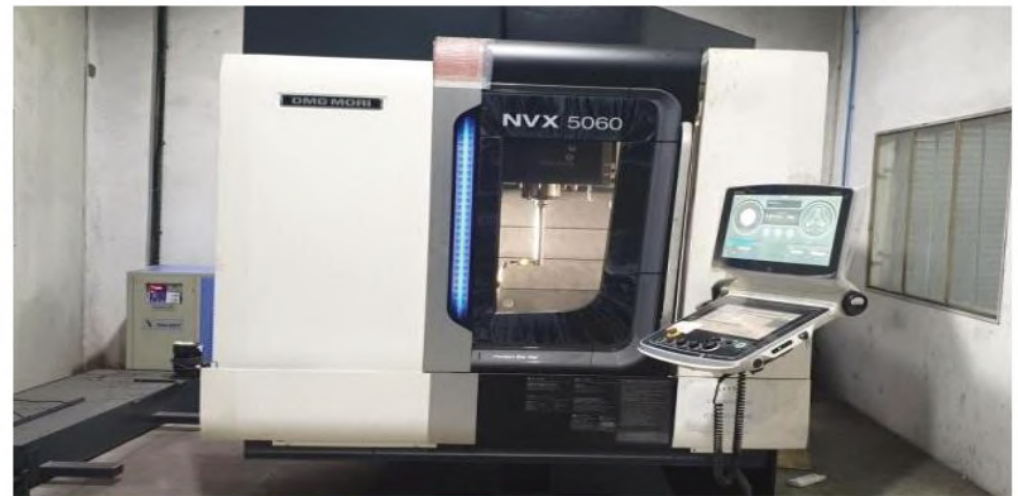
Through our in-house heat treatment capabilities, we are able to enhance the total control over manufacture of quality forgings which includes:

- Oil & Gas fired Normalizing & Hardening and Tempering
- ISO - Thermal Annealing
- Stress Relieving
- Crack Detection



Tool Room

- In house production of forging tools and dies
- VMC – DMG MORI
- Make Hartfort
- Make Haas VF-2
- Universal boring machine (make Toss)
- Heavy Duty Turning Center
- Turning Center – Plano Planner
- Milling machine (Make WMW)
- Heavy Duty Cincinnati Milling Machine



MACHINING INFRASTRUCTURE





Machining Production Facilities

The Machine Shop is fully equipped for blank turning of forgings with CNC machines and for the manufacture of Finished Gears, Axles and Shafts.

A separate shop is set-up for production of Non-Gear components – steering levers and linkages, Track chain assembly, Bell crank assembly, PTO assembly, Gear box assembly, Differential cage assembly, Yoke, Drop arm, Spindle Arm, Sector shaft – having a number of milling and drilling machines.

In house tool room facility for making all types of Jigs, fixtures, and tool dressing like re-sharpening of Broaches, Hob cutters, and Shaper Cutters. There is a fully computerized design and drawing section to provide support to manufacturing.

Manufacturing Capability

- Gear Max Diameter- 450 mm Module 1M to 10M Accuracy Level – DIN 6
- Axle Max Length – 1500 mm
- CNC Deep Drilling Machine – Dia 4 mm to 60 mm & length upto 1000 mm
- Castings upto 1 meter
- Plates upto 1.2 meter

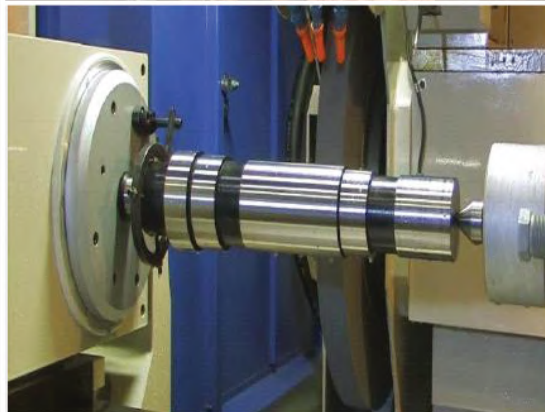
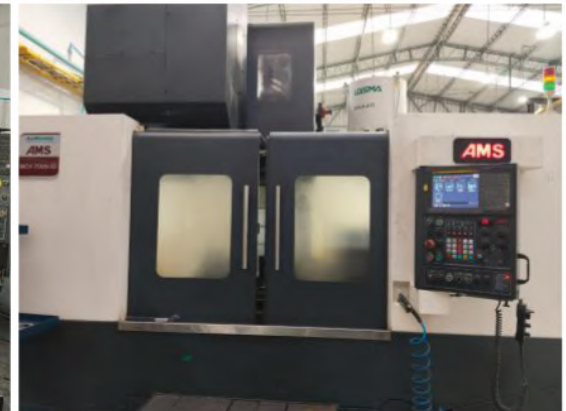
Plant & Machinery Details

- 200 CNC Turning Centers – upto 1.5 m in length and 400 dia
- Copy Turning
- Facing and centering
- Broaching
- Hobbing – Conventional & CNC
- Gear Shapers & Shavers (Conventional & CNC)
- Induction hardening – Conventional & CNC (Medium & High frequency for Bull Gear, Axles, Shafts and Non-Gear components)
- Eleven Gas Carburizing & Sealed Quench Furnace (1200 kg each G.Wt)
- Hardening & Tempering
- Grinding – Internal & External (Conventional & CNC – upto DIN 6 quality)
- SPM's
- HMCs & VMCs, Surface Broaching, Automatic plasma welding
- CNC Deep Drilling Machine – Dia 4 mm to 60 mm & length upto 1000 mm
- In – house re-sharpening of broach, hob and shaving cutters
- Shot Blasting and Shot Peening Machine



CNC Machining Line

- 200 CNC Turning Centers - upto 1.5 m in length and 450 mm dia
- Multiple Centering & Facing Machines
- Make - Daewoo, Ace, Marshall, Z-Mat, LMW, BFW VTL, Mazak



CNC Grinding Line

- Conventional ID Machine
- Conventional OD Machine
- CNC ID Machine
- CNC OD Machine
- Centerless Grinding Machines
- All With in-process gauging system



HMC/VMC Machining Line

- Twenty HMCs
- Forty VMCs
- Make – Brother, Taal, BFW, Goindi, ACE Micromatic, Mazak



CNC Hobbing & Teeth Cutting

- Multiple Broaching Machines
- Thirty Five Conventional Hobbing Machines
- Forty CNC Hobbing Machines
- Twenty Gear Shaping Machines
- Forty Gear Shaving Machines
- Twenty Rounding Machines



Heat Treatment Facilities

- Eleven Induction hardening – Conventional & CNC (Medium & High frequency for Bull Gear, Axles, Shafts and Non-Gear components)
- Eight Gas Carburizing Furnace
- Seven Sealed Quench Furnace – 1200 kg each Gross Weight
- Hardening & Tempering Furnace



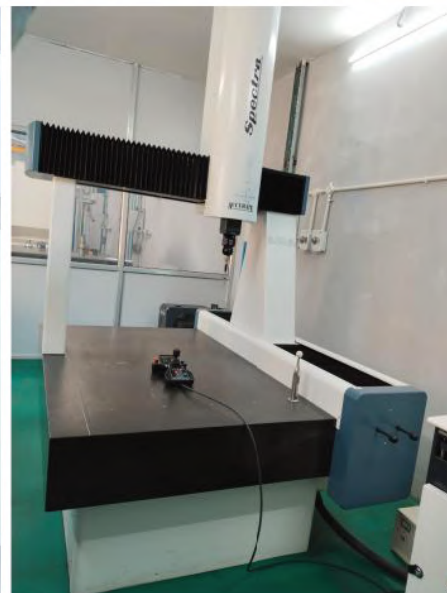
Dedicated Cell for Brake Cam Shaft

- Dedicated CNC Machines and Manpower for Manufacturing Brake Cam Shaft
- Focus on cell manufacturing



Quality Assurance

- CMM (make Carl Zeiss 555)
- Roughness tester SJ – 410 (make Mitutoyo)
- Contractor CV – 3100 (make Mitutoyo)
- Gear lead & profile tester (make Maag & Klingelberg)
- Rolling tester (make Carl Zeiss) Metallurgical microscope with image analyzer..
- CNC CMM machine
- Mitutoyo contour measuring machine
- Lead and profile testers
- Gear rolling testers & Surface Finish Tester





Introduction of New Plant in Gujarat (100% Exports) FY 2018-19

- New Plant with 60,000 Sq.ft Factory Shed.
- International Standards
- State-of-the-art 15,000 Sq.ft. Warehouse
- Enhanced production capacity with advanced technology to suit export requirement
- Quality System ISO 9001:2015 Certified
- Catering to Internationally recognised private labels
- Fully equipped design, development and testing laboratory



State-of-the-art Warehouse





Quality Certifications

- ISO 9001:2015 – Him Teknoforge Ltd Machining Unit IV
- ISO 9001:2015 – Globe Precision Industries(P) LTD (Baddi)
- ISO 9001:2015 – Gujarat Automotive Gears
- ISO 9001:2015 – Him Teknoforge Ltd Unit II – Pithampur
- IATF 16949:2016 – Him Teknoforge Ltd (Gear Division)
- IATF 16949:2016 – Him Teknoforge Ltd (Forging Division I)
- IATF 16949:2016 – Him Teknoforge Ltd (Forging Division II)
- IATF 16949:2016 – Globe Precision Industries (P) LTD (Rudhrapur)

Certificates are available on the website

<http://www.himteknoforge.com/quality.html>

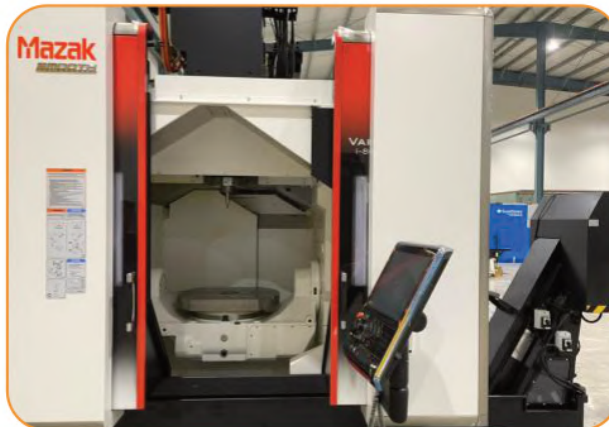


New Investments

- IOT Connectivity Implementation ongoing
- VMC 4-Axis – Mazak
- Single Flank Gear Grinding Machine
- CNC Turning and Hobbing for Long Shafts upto 1800 mm
- CNC Turning Cells with Auto Gauging
- Gear Skiving Machine
- CNC Screw Presses – 1000 Ton, 1600 Ton and 3150 Ton
- Ring Rolling Machine



Gear Skiving Machine



VMC 4 Axis – MAZAK



Gear Grinding Machines



Product Catalogue



Visit *our website for detailed Product Catalogue*



Machined Components



Forging Components



Export Related Products

Railway Components



Electric Axle Components



Shafts



Differential Covers and Axle Shafts



Housing Cover



All of these components are being exported to OEMs in Europe. Further, new products with gear grinding are also being developed for our export customers.



Export Related Products

Hydraulic and Steering Axles Components

Housing Covers



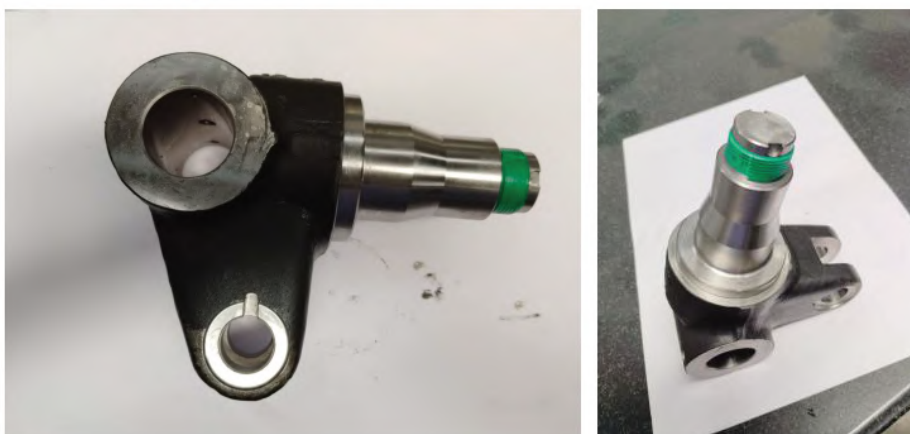
Body Axles



Front Axle Housings



Steering Knuckles



Company is in process of developing Numerous machined castings and Machined cartridges for export customers , specifically targeting OEMs operating in material handling equipment, Heavy commercial vehicles and Agri-Machinery Segment.



Export Related Products

King Pin Repair Kits



Camshaft Repair Kits



- Exporting to Aftermarket players of Europe & USA
- Kits available for DAF, Man, Scania, Mercedes, IVECO, Volvo, Meritor, Mack Trucks, SAF, BPW, DANA, Meritor - 100% from Export Facility
- Constantly Developing new products for European and American Application

Track Chain Assembly For Indian Defense

One of the three manufacturers in India supplying Track Chain Assembly for BMP-2 armored core vehicle, since 2003

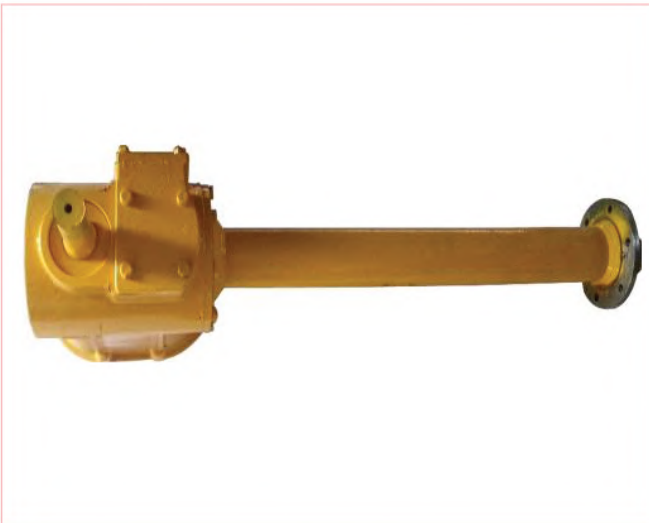




Products for Agri-Implements

Gearbox for Rotavator

Producing different variants in 5', 6', 7', & 9' Includes – 2 bevel gears, 4 spur gears and 2 shafts



Bevel Gear Assembly and Spider Kit

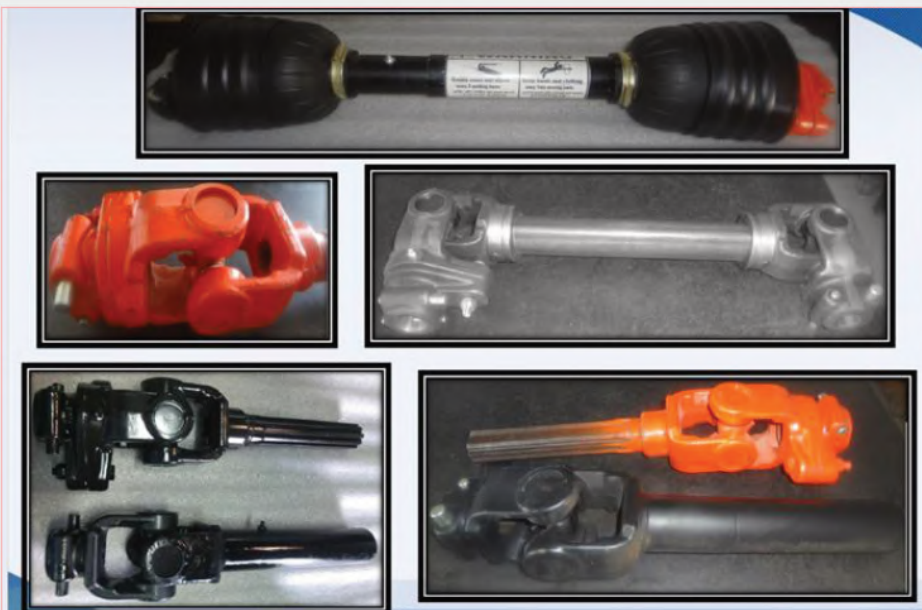
The company has developed the Bevel gear Assembly through warm forging route, installing state-of-the-art CNC Forging presses for manufacturing superior technology Forged Bevel gears

Manufacturing for various Commercial Vehicles & Agricultural machinery segment (Tractors, Combines, Rotavators etc.)

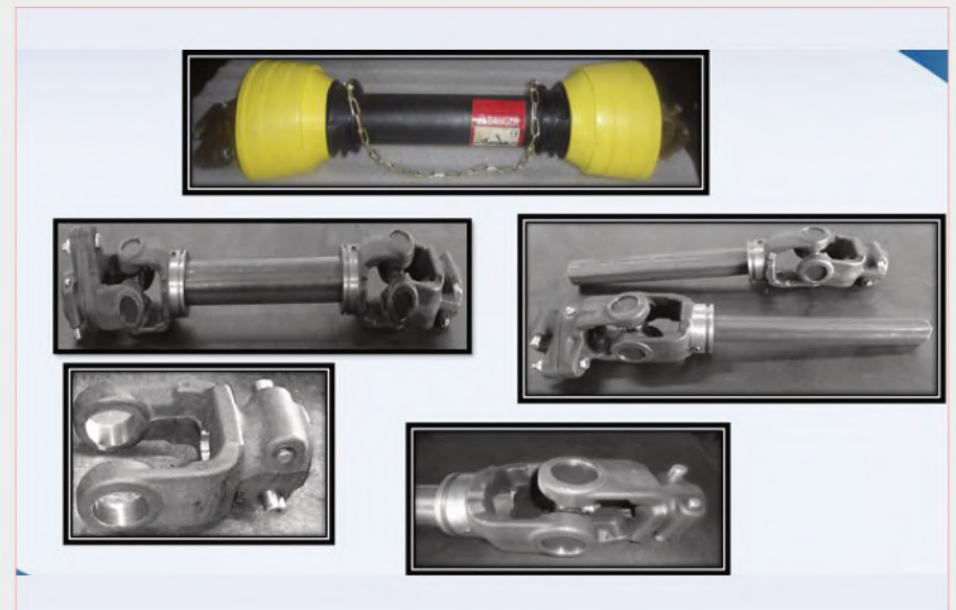


PTO Assembly

PTO Assembly Application – Connecting agricultural implements to tractor transmission



with Spline Shaft



With Triangle Pipe

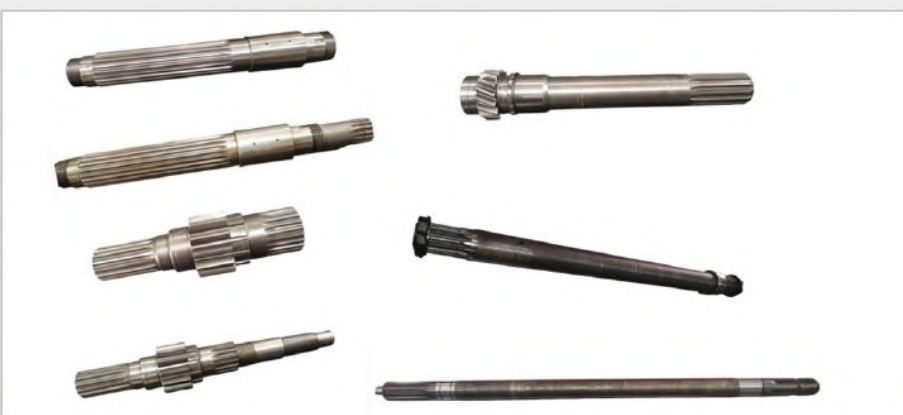


Transmission, Engine and Pump Gears



Manufacturing for OEMs - Commercial Vehicles & Agri-machinery

Shafts for Indian OEMs



Manufacturing for OEMs -
Automotive/Tractor/Commercial vehicle

Weight range from 8 Kg -40 Kg,

Length upto 1500 mm

Non-Gear Components for Commercial Vehicles



HIM TEKNOFORGE LTD.



Steering Levers

Manufacturing various types of steering levers, tie rod assemblies and track rod levers for Ashok Leyland. Also, single source supplier for multiple components.



Crown Wheel Pinion



BC Lever Assembly



Differential Cage Assembly, Couplings and Flanges

Supplying to Commercial Vehicle OEMs and Auto-Component manufacturers



Material Handling and Propeller Shaft Components



Components for Material Handling Equipment for Exports



Propeller Shaft Components for Indian OEMs



Looking forward to working together

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