



Company Profile



Location



KOLHAPUR

- The plant is located in the south of Maharashtra, the most industrialized state of India, It is on the highway connecting Mumbai to Bangalore and destined to become a major industrial center in the very near future.
- The MIDC area, where UTP is located, is a newly developed industrial area with good facilities of roads, power supply and utility services.
- In Kolhapur there are several educational institutes developing global talents and skills required for engineering industry which would provide fresh forces to be introduced in the undercarriage production.
- Good supplier base

Distance from :

Pune -	225 km
Mumbai-	380 km
Bangalore-	610 km

Pune Office:

404A, P.T. Gera Center,
Bund Garden/ Dhole Patil Road,
Pune – 411001 - India
Tel. +91 20 30201666
Fax: +91 20 30201668

Registered Office and Works

Plot No. D4-D4/1, Five Star Industrial Estate,
Kagal, Kolhapur- 416236 – India

Tel: +91 231 2685 300

Fax +91 231 2685 333

email: info@utpindia.com

www.utpindia.com



About us

- Undercarriage and Tractor Parts Pvt. Ltd. is a company incorporated in India in August 2006 with the objective to manufacture undercarriage for crawler tractors.
- The increasing production costs in whole Europe and the promising development of Asian markets drove the Italian promoters of UTP to join forces and experience to set up a new production facility in a developing country, far off the negative influence of the over evaluated Euro
- UTP is ready to offer an innovative, reliable and economical solution to any undercarriage need. Whether for the original equipment manufacturers (OEM) or the aftermarket, for an excavator, for a bulldozer or a mining crusher
- UTP can offer you the right product to your specific requirement.
- UTP is the only company in India where all processes are carried out under one roof including die design, die manufacturing, forging, heat treatment, machining, assembly and painting. which will built the trust and confidence of our customer.
- The use of high quality material and carefully planned production processes ensure that UTP's products are unrivalled in terms of wear resistance and durability. Long life and maximum reliability translate into maximum performance and low operating costs.



The reliable partner
you can count on

Products

Main supply to OEM's



Track Group Assembly

Superior engineering, innovative technology, comprehensive know how and state-of-the-art manufacturing guarantee the total quality of the products and services offered to our customers. Custom made solutions and project engineering support is available upon request. Our team of engineers can help choose or design the most effective and efficient solution to any customer's specific undercarriage need.

Phase I - Products developed

- Link assembly
- Track group assembly

Phase II - Products under development

- Top and bottom rollers
- Idlers
- Sprockets and segments



Link Assembly

Facility- Land & Building



- Land - 56,000 SQ.M / 600,000 SQ. FEET
- Building - 9,300 SQ.M / 100,000 SQ. FEET
- Office and Guest house – 1,000 SQ. M / 10,750 SQ. FEET
- Land available for future development- 20,000 SQ.M / 215,000 SQ. FEET
- Connected load – 4000 KW
- Main factory building and utilities are completed

Facility- Die Shop

- CAD / CAM facility for die design and manufacturing
- 3D modeling facility
- Here we design, manufacture and validate new dies
- Design of trimming die is our unique competence. Finishing of nut seat, shoe face and rail face surface is done at trimming operation. No further machining is required.
- In-house die maintenance facilities.

Machines

- Vertical machining center – Haas VM3
- Vertical machining center – Haas VF2
- Turning center – Haas TL2
- Turning center – Haas SL30
- Die shink EDP- Big Electronica Expert -2
- Die shink EDP- Small
- Milling machine
- Surface grinding machine
- Lathe machine
- Drilling machine
- Die maintenance facility



Turning center – Haas TL2



EDP Die shink

Facility - Forge Shop

- State of art forging line of 2500 Ton press (Modified, having capacity comparable to a 4000 Ton press) is installed. Provision for 2nd line of 1600 Ton press is made.
- The combined output of both lines will be 20,000 Ton/ year
- Finishing of Nut seat, Shoe face and Rail face surface is done at trimming operation. This is the unique feature of UTP forging. There is no additional machining required.
- Billet temperature is controlled and non conforming billets are automatically segregated.

Bar Cutting

- Semi automatic band sawing – 2 Nos
- Bar shearing

Forging line No.1

- Induction heating
- Hot rolling
- Pre-forging press – 630 MT
- Forging press – 2500 MT
- Trimming press – 400 MT

Forging line No. 2

- Provision is made for 2nd forging line of 1600 Ton.



Forging Press Line – 2500 MT

Facility - Heat Treatment

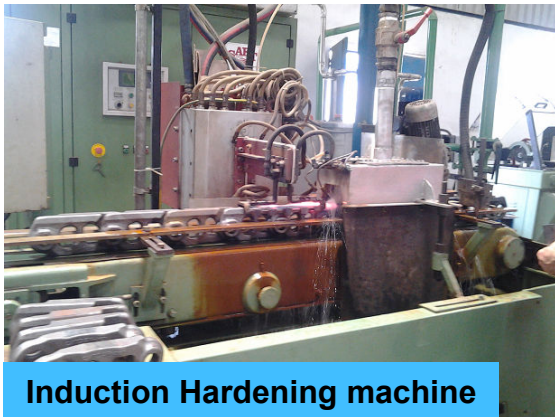
- Heat treatment is one of the critical process of manufacturing of undercarriage parts.
- PLC controlled gas fired continuous hardening and tempering furnace is installed. To guarantee the high quality of the heat treatment standards, all the process parameters are monitored online with computer based systems
- Capacity of hardening & tempering is 1500 Kg/ Hr.
- Induction hardening and stress relieving facility is in place
- UTP has also developed supplier for heat treatment.

Machines and Equipments

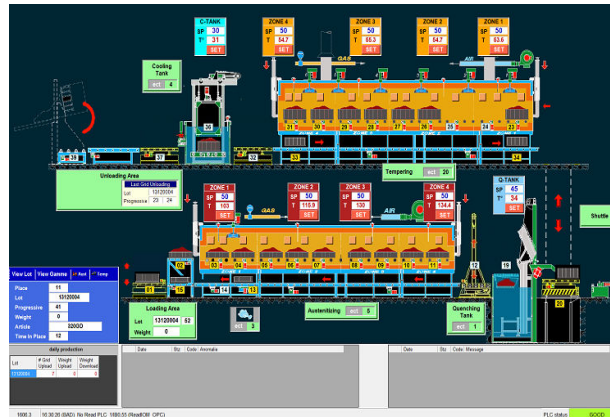
- Continuous Hardening and Tempering furnace – 1 No
- Shot blasting machine - 1 No
- Induction hardening – 1 No
- Stress relieving furnace – 4 Nos



Hardening and Tempering furnace



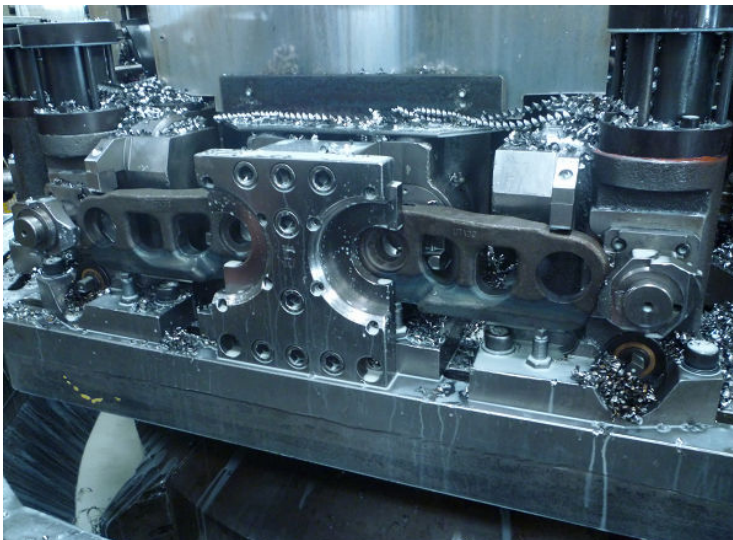
Induction Hardening machine



Facility - Machining



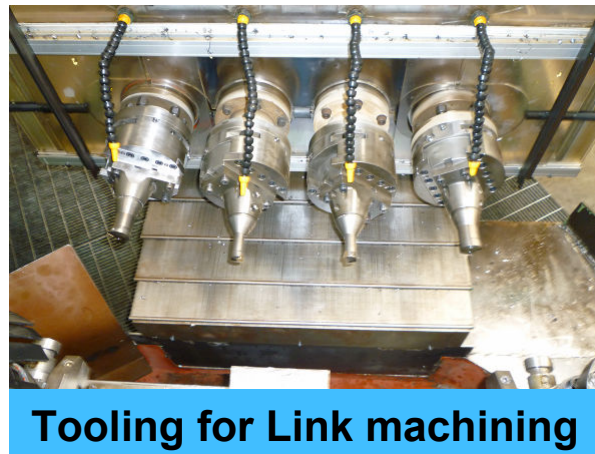
Drilling & boring - Link machining



Fixture for Link machining

Machines & Equipment

- Boring & drilling machines for link machining – 3 in operation and 1 in refurbishing condition.
- These machines are controlled through the PLC program.
- Machines are having 6 station rotary tables. At each station RH & LH links are machined simultaneously.
- Full finished machining of link is completed in single set up. (Pin bore, Counter bore, Bushing Bore and Bolt Holes etc.)

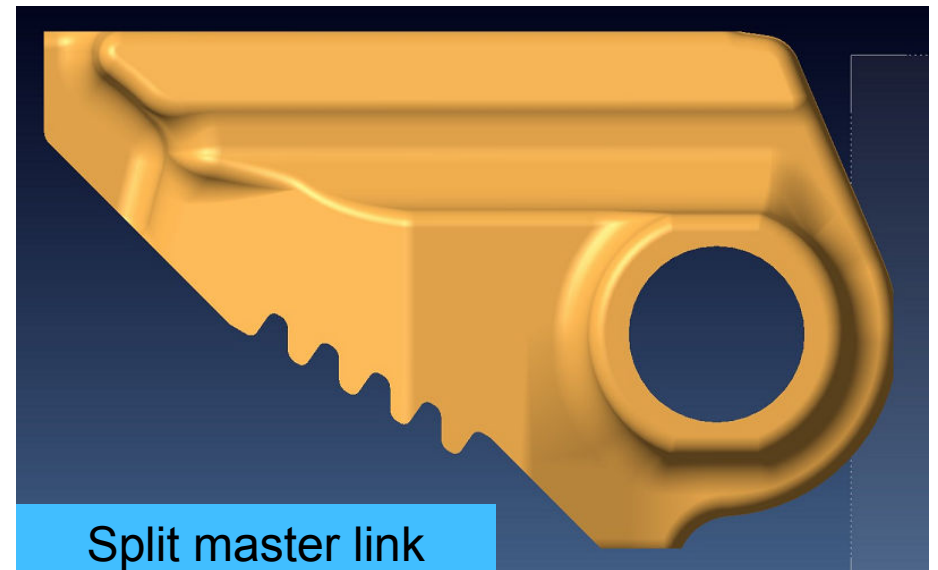
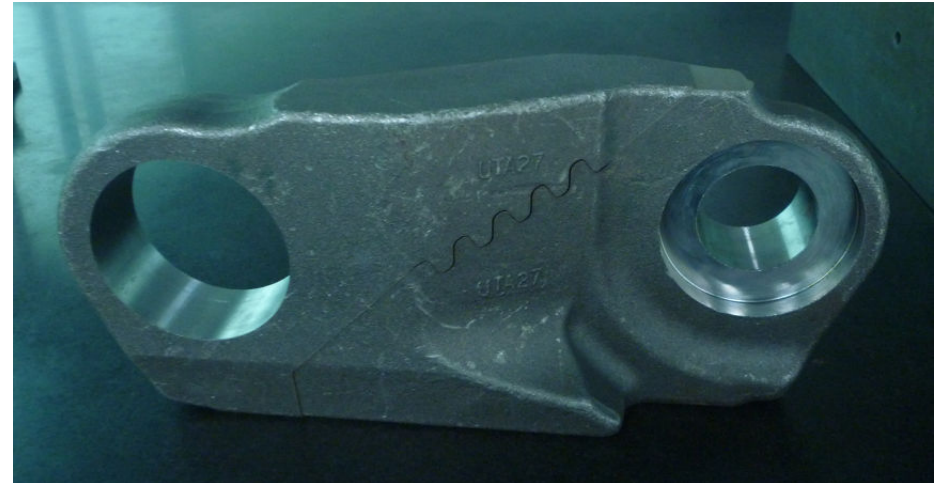


Tooling for Link machining

Facility – Split Master Link - machining



EDM wire cut machines for split master link machining



Split master link

Machines & Equipment

- Master link monoblock machining
- EDM wire cut machines for single or multi-teeth Split Master Link machining – 12 Nos

Facility - Assembly



Assembly machines & equipments

- PLC controlled track group assembly line (SALT chain)
- Assembly line for Link assembly – 2 nos
- PLC controlled torque machine – 2 Nos
- Grease injection unit
- Oil filling facility
- Coiling unit
- Jib crane
- EOT crane



Facility - Painting & Packing



Paint booth



Link assembly packed on pallet with PET strap

Painting process

- Dipping and air drying

Equipment

- Paint booth
- Under slung crane - 4 nos
- Painting Tanks
- Pneumatic Strapping machine

Packing process

- Packing to be done as per customer's requirement.
- Link assembly / track group can be dispatched with or without pallet.

Facility – Quality Control



Quality Control Facility Room

- Each and every process of manufacturing is monitored.
- Measurement of product and process characteristics is done and record is maintained as per frequency defined in the control plan.
- System for incoming material control is established.

Monitoring & measuring equipments

- Coordinate Measuring Machine (CMM)
- Digital Height Gauge
- Magnetic Particle Inspection (MPI)
- Hardness Testing – BHN
- Hardness Testing – HRC
- Universal Hardness Testing (HRC, BHN, HV)
- Surface Roughness Tester
- Coating Thickness Gauge
- Microscope with Image Analyzer
- Jominy Test Equipment



Coordinate Measuring Machine - CMM

Facility – Quality Control



Metallurgy Lab

Metallurgy Lab.- equipments

- Microscope with image analyzer
- Hot mounting press
- Polishing machine
- Jominy test equipment
- Universal hardness testing - Rockwell, Vickers and Brinell

New addition - Planned

- Spectro analysis



Microscope with image analyzer

Facility – Quality Control



**Universal hardness testing -
Rockwell, Vickers & Brinell**



Jominy testing machine

Quality Management System

- The production decentralization from Italy to India did not affect the high quality level reached in so many years of improvements.
- All the guidelines and specifications adopted in the Italian production have been transferred and eventually implemented in the Indian project.
- UTP believes that quality is built at the source. So, we have established the system of Advanced Product Quality Planning (APQP). As a part of APQP, we have implemented the
 - Process flow chart
 - Failure Mode and Effect Analysis (FMEA)
 - Control plans
 - Quality plans for incoming material
 - Standard Work Instruction Sheet (SWIS)
 - Measurement System Analysis (MSA)
 - Statistical Process Control (SPC)
- Documents are displayed at each workplace
- **UTP has obtained the certificate for QMS ISO9001 & EMS ISO 14001**



Process validation



- Validation of all manufacturing processes is completed.
- Product and process characteristics are established.

Manufacturing Process Layout



Die Shop



Forge Press



Hardening and Tempering

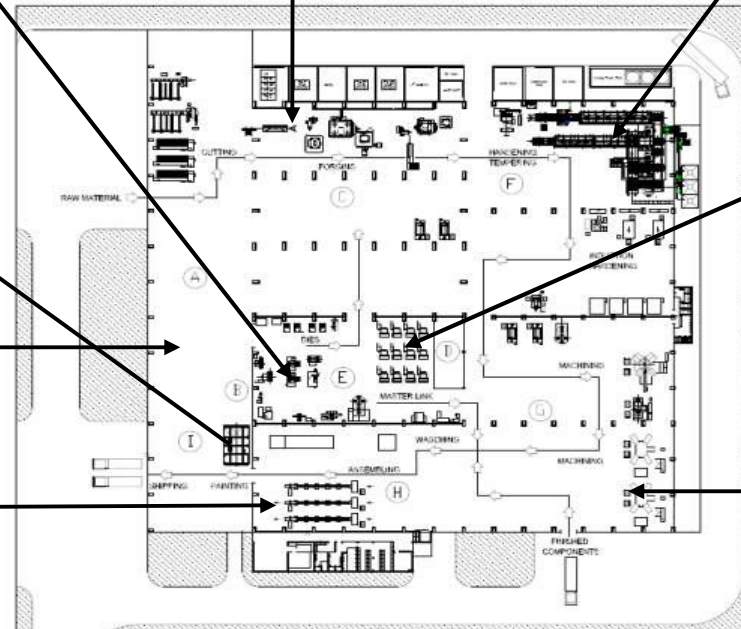


Painting

Raw material and finished inventory store



Assembly



Building layout and flow



Master Links EDM



Link Machining Center



Suppliers

- At UTP, the Sourcing Management System plays a determining role in ensuring that the company's objectives, especially those regarding customer satisfaction, are achieved.
- UTP's Sourcing Management is making concerted efforts to sustain the competitive edge at a global level whilst at the same time guaranteeing quality.
- UTP's Sourcing Management selects, evaluates and manages its suppliers not only according to objective needs, quality, price, competitiveness and service criteria, but also by virtue of their ability to maintain a relationship based on reciprocal loyalty, transparency and cooperation.
- Suppliers are our business partners

Current Suppliers

Steel -	Daye Special Steel Co. Ltd., China Kalyani Steel, India – Riva, Italy
Pins & Bushes -	IMG, Italy
Shoes -	Liaoan, China – Duferdofin, Italy
Nuts and Bolts -	Sundram Fasteners Ltd., India & China Varvit, Italy
Seals -	Anhui Zongding, China Ellegi, Italy
Paint -	Inver/Valsnar Italy & India

First UTP Product rolled out



First Link Assembly



First Track Group Assembly

- First Link Assembly and Track Group ready at UTP in March 2012



Thank You

UNDERCARRIAGE AND TRACTOR PARTS PVT. LTD

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MIDC Kagal,
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