

Buckets, Forks, Arms, Couplers, Brush Cutters, Heavy Duty Fabs and more.

Excavator Attachments

Sit back, relax, and receive topquality parts through rigorous quality management.

Seamless Global Sourcing

Let us handle the production complexities; you focus on success with high-quality results

Contract Manufacturing

10 kgs to 500 Kgs. Quick Couplers, GETs, and more large castings.

Steel & SGI Castings

ABOUT US

Established in 1998, Unique Perfect Productions Pvt Ltd (UPPPL) is the product of a collaborative effort between Unique Power Perfect and Unique Equipments. Originating as an Excavator Buckets Manufacturer in the state of Rajasthan, India, our company has evolved into a specialist in providing a high-quality excavator buckets and attachments through years of invaluable experience.

Unique specializes in customization to ensure the **best fit** on the OEM excavator as well as meeting the customer's requirements. Customers can choose between Heavy Duty and General-Purpose buckets depending on their application requirements. A wide selection of widths and capacities allows them to **maximize productivity and efficiency**. Customers can even select their tooth option based on ground condition or preference.

Today, Unique offers Excavator Attachments, Steel Castings, GETs, Pins and Bushes. Our Unique Pins and Bushes compete with OEM attached counterparts. Additionally, to our Local Customers, we offer services to Excavators and their attachments. By manufacturing every bucket, castings pins, and bushes in-house we maintain strict oversight to ensure the quality and durability for which Unique is known. Our objective is to provide our clients with an "I am assured" experience when we are chosen for the service. Our emphasis on clear communication and follow-through procedures ensures that the client's objective is top priority.

OUR MANUFACTURING PRODUCT RANGE

Excavator Buckets

- Shovel Buckets
- Backhoe Buckets
- Loader Buckets
- LHD Buckets
- Net Buckets
- Reclaimer Buckets
- Rotary Buckets
- Tilt Buckets
- Ripper Teeth and many more

Excavator Attachments

- Pallet Forks
- Log Splitters
- Brush Cutters
- Booms and Arms
- G.E.Ts (Teeth Adapters) and many more

Other Manufacturing

- Pins and Bushes
- Machined Parts
- Steel Castings
- SGI Castings

Heavy Duty Fabs

- Blast Resistant Doors
- Mining Pressure Doors
- Door Board Regulators
- Dumper Bodies

"Quality is not an act.

It is a habit."

-Aristotle

UNIQUE TIMELINE

Supplier To 2000-2007 **Larsen & Toubro Komatsu** Supplier To 2001-2011 **EWAC Alloys Limited (Zupertrod)** Supplier To 2007-2009 **JCB** Supplier To 2009-2011 **Volvo Construction Equipment Focused Towards** 2011 **End Consumer Market** Started Manufacturing 2017 **Excavator Pins and Bushes** Established 2020 **Steel Foundry**

Market Distribution



UNIQUE stands as a versatile and reliable partner for industries involved in:

- ✓ Excavation
- ✓ Mining
- ✓ Defense
- Aerospace
- √ Telecommunication

UNIQUE INFRASTRUCTURE

Total Acreage:

Covering **23 Acres / 1 million sq.ft.**, our expansive facility provides ample space for seamless workflow and future expansion.

Comprising **8 buildings**, our facility boasts a total shed area of **70,000 sq.ft.**, with an in-use area of **300,000 sq.ft.**

Specializations

Complete Specializations and Facilities

- Fabrication
- Machining
- Line Boring
- Thread Rolling
- Welding
 - MIG (GMAW)
 - Stick (SMAW)
 - Special Purpose Machines (SPM)
 - Robot (GMAW)
- Oxy Fuel Cutting
- Plasma Cutting
- Press Brakes

- Shot Blasting
- Sand Blasting
- Grinding
- Induction Hardening
- Quenching
- Tempering
- Powder Coating
- Painting
- Electroplating
 - Hard Chrome
 - Thin Dense Chrome
 - Zinc
 - Nickel

- E-Coat and others
- Electroless Plating
 - High/Low Phosphorous Nickel
 - Black Oxide
 - Phosphate and others
- Hot Dip Galvanizing
- Steel Cold Box CO2 Castings
- Steel Shell Castings
- •SGI Cold Box CO2 Castings
- Complete Quality Testing
- •Missing what you need? Let's connect!













BACKHOE BUCKETS

- ✓ We manufacture a diverse range of backhoe buckets, spanning from 0.12 cubic meters to 8.0 cubic meters, catering to various machine sizes.
- ✓ With an extensive library of over 350 bucket drawings, we fulfill orders based on specific models and sizes.
- ✓ In instances where a required bucket falls outside our existing drawings, our team excels in obtaining precise drawings, even on-site or in mining locations, ensuring a fitment guarantee.
- ✓ Our commitment extends to providing customercustomized buckets with enhanced strength, durability, reduced weight, trenching capabilities, and application-specific designs.
- Choose us for solutions that prioritize reliability, and optimal performance in every backhoe bucket we manufacture.

❖ The design of an excavator backhoe bucket includes a hinged jaw that allows it to scoop and lift materials efficiently. The bucket is attached to the end of the excavator or backhoe arm, and its functionality is essential for tasks such as digging trenches, grading, excavating, and loading materials into trucks.



SHOVEL BUCKETS

- Catering primarily to cement plants and limestone loading operations in India, our shovel buckets are indispensable for heavy-duty material handling.
- ✓ Crafted for machines ranging from 60 tons to 120 tons, our shovel buckets are engineered to excel in challenging environments.
- ✓ In response to industry demands, we are actively developing shovel buckets for renowned models, including Komatsu PC1250, TATA Hitachi EX1200, and BEML 1000, with a track record of repeat orders from satisfied clients.
- ✓ Our shovel buckets have exceptional durability, enveloped in wear and tear protection. Utilizing highgrade materials such as Hardox 400 and Hardox 500, we not only safeguard the base metal but also extend its lifespan.

❖ Key features of an excavator shovel bucket include a curved or concave shape, which aids in efficient digging and scooping of materials. The design typically includes teeth or cutting edges at the front edge of the bucket to facilitate breaking into and lifting various types of surfaces.



LOADER BUCKETS

- Key features of an excavator loader bucket include a wide, shallow design that facilitates efficient loading and lifting of materials. Unlike digging buckets, loader buckets typically have a flatter bottom to enhance the scooping and carrying of loose materials. Additionally, loader buckets often have a larger capacity compared to digging buckets to optimize the loading process.
- ✓ Efficiently load and transport various materials with our loader buckets. The wide, shallow design ensures optimal capacity for diverse applications.
- ✓ Tailored for efficiency, our loader buckets offer customization options, ensuring seamless integration and enhanced performance with your excavator.
- ✓ Catering to construction, agriculture, quarrying, and more, our loader buckets, with capacities for various machine sizes, guarantee reliability across diverse applications.
- ✓ Built for durability, our loader buckets withstand heavy-duty material handling, featuring high-quality materials and precision engineering for extended longevity.



LHD BUCKETS

- ✓ Specialized for underground mines, our Load-Haul-Dump (LHD) buckets are tailored for optimal performance. We manufacture a comprehensive range, including models from Sandvik, Atlas Copco, and ESCO.
- ✓ Notable clients, such as Hindustan Zinc Limited, HCL Khetri, and Hatti Gold Mines, have trusted our LHD buckets for their material handling needs.
- ✓ We've successfully developed shrouds for Sandvik LHDs, established a partnership with ESCO for shroud supply, and customized LHD buckets based on specific client requests.
- ✓ Choose reliability and precision for your underground mining operations with our diverse and proven range of LHD buckets.

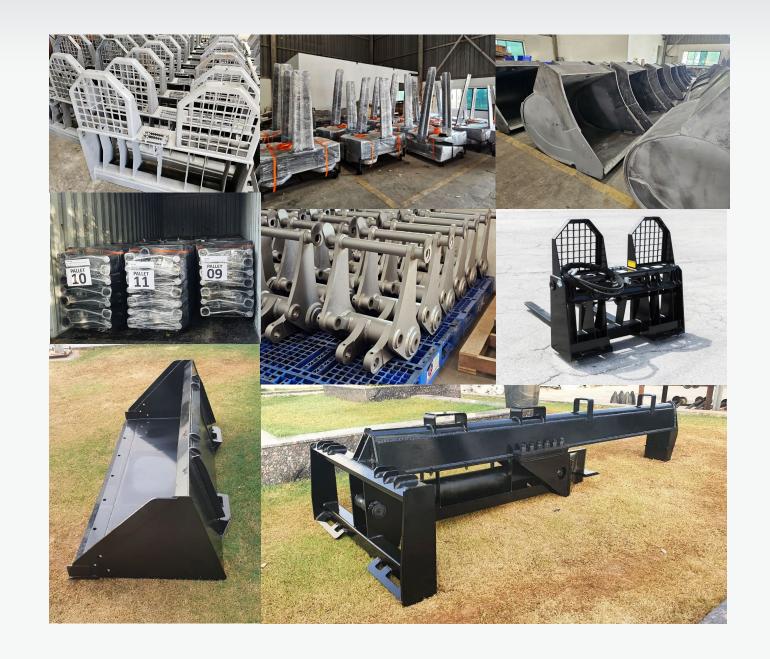


Key features of an LHD excavator bucket include its design for optimal scooping and loading of materials, often with a higher capacity than standard buckets. The bucket is part of the LHD machine's system, which typically includes a front bucket for loading, a hauling mechanism, and a dumping system. LHDs are well-suited for confined spaces in underground mining environments, where efficient and precise material handling is crucial.



MANUFACTURING

- ✓ Explore seamless contract manufacturing services covering the entire spectrum of excavator and skid steer attachments. From concept to completion, we bring your ideas to life with precision engineering, ensuring a comprehensive and hassle-free manufacturing process.
- ✓ Our manufacturing goes beyond production it's a partnership to create attachments like brush cutters, pallet forks, and more, uniquely branded to reflect your identity.
- ✓ Join forces with our in-house experts in a collaborative innovation hub.
- ✓ Beyond manufacturing, we work hand-in-hand with you to enhance attachment designs and optimize functionalities of every product.
- ✓ Experience our manufacturing with a commitment to timely delivery and unwavering quality.



BLOCK HANDLING BUCKETS

NET/SKELETON BUCKETS





CLAMSHELL BUCKETS



RIPPER TOOTH



RECLAIMER BUCKETS

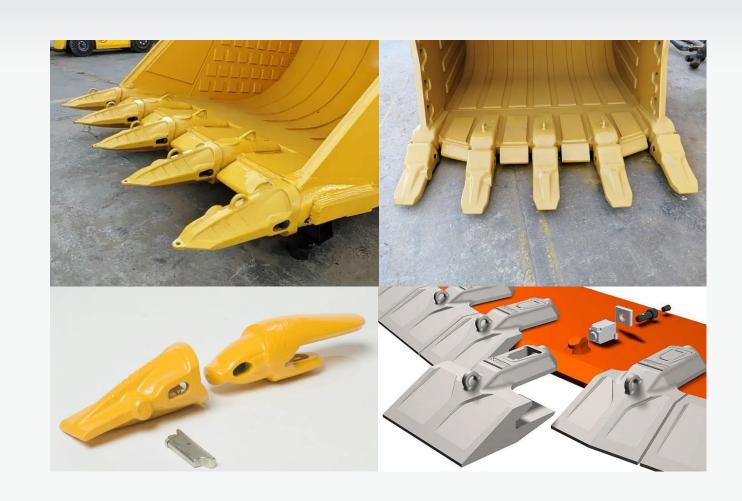


TILT LOADER BUCKETS



Ground Engaging Tools (G.E.T.)

- Ground Engaging Tools are adapters, teeth, lock pins, washers, side cutters, heel shrouds and center shrouds.
- ✓ We usually manufacture/cast Excavator GETs from 2 Kg to 165 Kg. (Hardness 32 – 65 HRC as per requirement)
- We provide these tools with high quality assurance.
- ✓ We provide Ground Engaging Tools for
 - ✓ SANDVIK
 - ✓ KOMATSU
 - ✓ TATA HITACHI
 - ✓ CAT
 - ✓ KOBELCO
 - ✓ VOLVO
 - ✓ DOOSAN
 - ✓ HYUNDAI
 - ✓ JCB
 - ✓ SANY



PINS & BUSHES

- Since 2017, we are manufacturing pins and bushes with the focus on quality and durability.
- To get the reliable performance, we have all facilities in-house for each and every process.
- We take pride in our achievement of producing pins with diameters of up to 220mm.



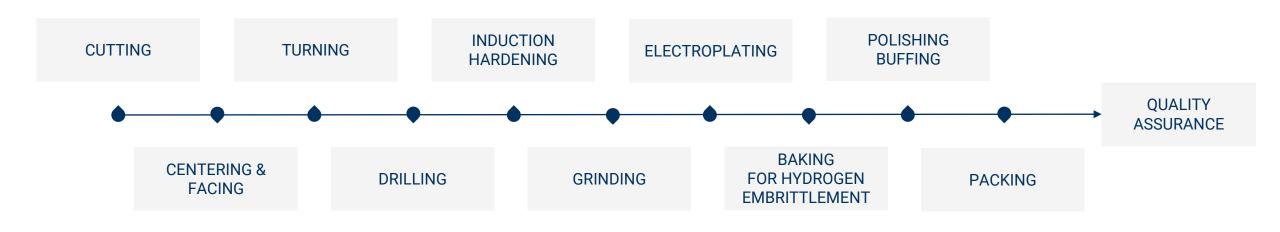
- Our pins and bushes adhere to the OEM standards, ensuring that our products meet and even exceed the quality and specifications set by industry leaders.
- We provide Hard Chrome Plating and TDC Plating for smooth, hard and wear resistant surface.
- Complete kits (pins and bushes) of excavator machines are available.

UNIQUE PINS & BUSHES



PROCESSES

PINS & BUSHES





ELECTROPLATING SOLUTIONS

Hard Chrome Plating



- Hard Chrome Plating is the most used electroplating solution for high wear resistance and durability.
- Hardness of the Hard Chrome Plating is 50-62 HRC.
- Its thickness is from 0.02 mm to 0.130 mm.
- Its surface finish is 0.4 0.6 μm Ra.
- Hard Chrome Finish is Shiny and Bright.

Thin Dense Chrome Plating



- Thin Dense Chrome Plating is the state-of-the-art technology in electroplating for wear and corrosion resistance. We are the first company in India to offer TDC Plating. TDC Plating is generally used in aerospace and military. Liebherr USA introduced this technology to us.
- Hardness of the Hard Chrome Plating is 70-74 HRC.
- Its thickness is from 0.005 mm to 0.015 mm.
- Its surface finish is 0.09 0.18 μm Ra.
- · Hard Chrome Finish is Satin or Matte.

Fabrication | Kitting

- ✓ We can provide you with kitted and assembled components boosting your efficiency and productivity of your entire production line.
- Kitting helps in reducing maintenance and labor costs.
- ✓ We have every facility in-house for your fabrication requirements which ensure Reliable Quality.



Fabrication | Kitting

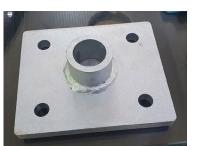






















In-House Facilities

- Press Brake Machine 1 NO
- CNC Turning Machine 2 NO
- VMC Machine 4 NO
- All Geared Lathe Machine 3 NOS (3 m, 2m x 2)
- Heavy Radial Machine 100mm 2 NO
- Heavy Power Press 3 NO
- Double Cylinder Power Press 2 NO
- Horizontal Power Press Link Machine 1 NO
- Radial Drill Machine 3 NOS
- Horizontal Deep Hole Drill Machine 1 NO
- Line Boring Machine 2 NOS (100 mm and 80 mm)
- Inverter Based 600A MIG Welding Machine 25 NOS
- TIG Machine 1 NO
- Teromatec Wire Feeder 2 NOS
- Hand Grinder 25 NOS
- Cylindrical Grinder 2 NO (2 m and 1 m)
- Centerless Grinder 1 NO
- Gas Cutter 15 NOS
- Pug Cutter 3 NOS
- Profile Cutter 2 NOS
- Plasma/Oxy Cutting Machine 2 NO
- EOT Crane 5 Ton x 2, 10 Ton and 20 Ton

- Mobile Crane 2 NOS
- Bandsaw Machine 2 NOS
- Centre and Facing Machine 1 NO
- Induction Hardening Machine 1 NO (up to 240 mm diameters)
- Chemical Plant (Hard Chrome, Thin Dense Chrome, Zinc plating, Electroless Nickel Plating, Manganese Coating, Phosphate Coating)
- Hot Dip Galvanizing Plant
- Rotary Compressor 3 NOS
- Screw Compressor 2 NOS
- Muffle Furnace 1 NO
- Rectifier 600A 2 NOS
- CNC Rolling 4 wheel- 1 NO
- Forklift 2 NO
- Sand and Shot Blasting 2 NOS (Manual Gun 1 No and Automatic plant – 1)
- Quenching furnace 1 NO
- Tempering Furnace 1 NO
- Hanging Grinder 2 NOS
- Sand Mixture 3 NOS
- Pneumatic Rammer 2 NOS
- Sand Crusher 1 NO
- Induction Furnace 3 NOS (500 Kg x 2,1000 Kg)

UNIQUE CASTINGS

- Our foundry has advanced equipment, experienced engineers, and skilled workers, all of these make us a reliable manufacturer in steel and iron castings.
- Combined with CAE simulation software, our experienced engineers can work together with our pattern shop to manufacture the suitable pattern tooling to make sure great molds are achieved and accurate products are casted regarding dimensionality and visuality aspect.
- Sand molding, melting, knockout, melting, pouring, heat treatment (Normalize, Quench, Temper), and gauging processes all will be conducted according to our procedure to make sure the final products can meet the required standard of our customer.
- Our foundry has all the necessary inspection/testing equipment to secure high-quality castings are dispatched to our customers. The inspection & testing we can conduct includes mechanical tensile strength testing, impact Charpy test, hardness test, NDT test (UT, MPI, DP).

















Patternmaking

✓ We have machine shop and woodworking shop for all types of patterns.

Types

- Loose
- Split
- Shell
- Sweep
- Match plates

Material

- Tool Steel
- Aluminium
- SGI
- Wood
- Fiber
- Styrofoam

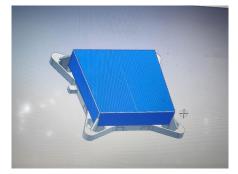




















Molding (Sand and Shell)

- We have different molding capabilities as per suitable production efficiency of the casted product.
- ✓ CO2 Sodium Silicate Molding
- ✓ No-Bake molds
- ✓ Green Sand Molding
- ✓ Shell Molding
- Our Capability range is from 1 Kg to 700 Kg castings.















Melting, Pouring and Knockout

- We provide castings in Ductile Iron, Grey Iron, Cast Iron and Carbon Steel Grades.
- Experienced engineers and skilled workers are available to provide defect free high-quality castings.















Shot Blasting

- ✓ Automatic Shot Blasting
- ✓ Manual Shot Blasting
- ✓ Manual Sand Blasting







Heat Treatment

- ✓ Annealing
- ✓ Normalizing
- ✓ Quenching
- ✓ Tempering
- ✓ Induction Hardening





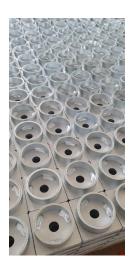




Post-Processing

- We have complete electroplating solution in-house which ensures our customer with high quality protective coatings on the parts as required.
 - ✓ Zinc Plating
 - ✓ Nickel Plating
 - ✓ Electroless Nickel Plating
 - ✓ Manganese Coating
 - ✓ Phosphate Coating

- ✓ Hard Chrome Plating
- ✓ Thin Dense Chrome Plating
- ✓ Blackening
- ✓ Hot Dip Galvanizing
- ✓ E-Coating











Quality and Inspection

- Our Company is ISO 9001:2015 certified.
- All the measuring instruments are available for complete quality assurance of the product meeting customer requirements.

• We can implement customer-specific process flows in our production streamline to satisfy their needs of quality and control.



✓ PFMEA

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✓ Inspection Report

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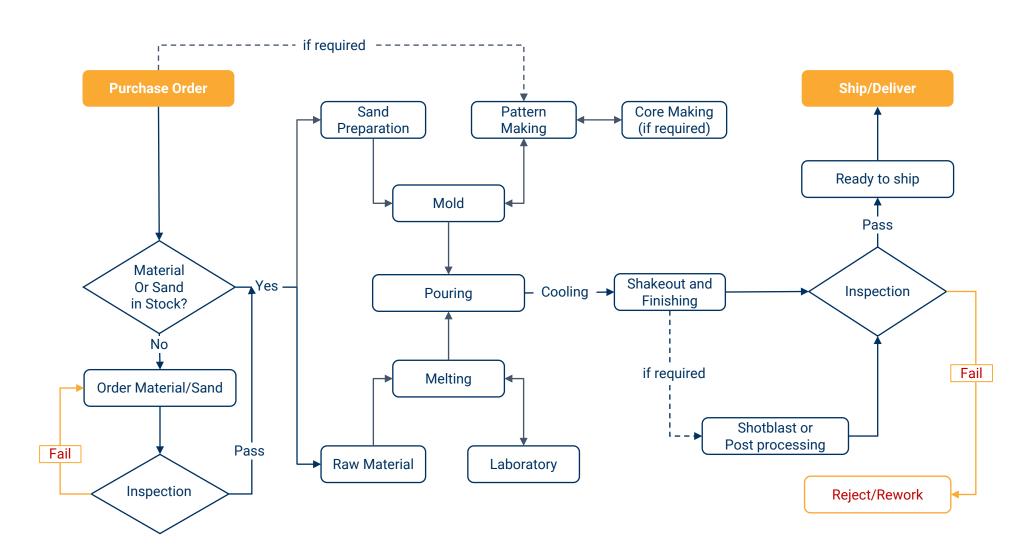








Process Flow



DUMPER BODIES









MINING VENTILATION DOORS





THANK YOU

