

COMPANY PROFILE

Uni-Mech is a leading organization involved in designing, manufacturing and undertaking turnkey projects in Pharma & Chemical Plants & Equipment. To keep ahead with technological developments in Machinery, Uni-Mech has developed our manufacturing activity since 1986.

Uni-Mech offers complete range of Engineering Services, as ours is an integral Engineers entity. We provide consulting services in process Engineering, Design, Simulation, Process Development, Mixing Technology and Trouble shooting.

The superior characteristics of our equipment are fully exploited through excellence in overall equipment designs, fabrication and quality work. We believe in dynamic testing and actual service conditions. Each equipment has been designed and manufactured by us to be more efficient and offer better economy than other products available in the market.



Uni-Mech is backed up with a competent technical team covering :

- Designing
- Planning
- Manufacturing
- Inspection
- Expediting

VISION, MISSION & VALUES



“ OUR VISION IS TO TRANSFORM THOUGHTS IN TO REALITY ”



“ TO ACHIEVE 1000 SATISFIED CLIENTS BY 2025 BY PROVIDING QUALITY PRODUCTS IN PHARMACEUTICAL AND CHEMICAL INDUSTRIES ”



“ DO WHAT WE SPEAK ”
“ QUALITY CONSCIOUSNESS ”

QUALITY

UNI-MECH recognizes the importance of in-factory testing prior to shipment. These are a few of the quality assurance steps we take to ensure your satisfaction. Along with our precision manufacturing equipment, we also use the latest technology, tools and techniques along with Calibrated Testing Equipments to manufacture your equipment to your exact specifications.

PMI – Positive Material Identification :

UNI-MECH implements Positive Material Identifications (PMI) to assure material traceability of components built into our product. Our PMI procedure includes checking the materials as received and also stipulates checks on the shop floor to ensure that the documentation remains intact during the manufacturing process. A customer also can request a final PMI of the Finished Product. We adopt latest Technology, X-Ray Fluorescence (XRF) / Third Party Lab Test by cut Sample, to perform the material Identifications.

Chain Process wise Internal Inspection :

All Process materials have been checked at every stage of processes like Marking, Cutting, V- preparation, Shape Formation, Fabrication, Welding and Testing etc as per Drawing or requirement & prepare the relevant report.

Welding Check Test :

Welding shall be performed by qualified welders using WPS/PQR and consumable and the same shall be checked by Quality Control Department & follows required Tests like DPT / NDT etc.

Dye Penetrate Testing (DPT) :

This test is used for location/identification of surface defects, detection of cracking in welded joints, or of fatigue cracking in stressed materials. The Weld surface of the material is being tested by Standard Procedure of Dye Penetrate Test. First, material is clean by Cleaner materials & then Dye penetrates seeps into any open areas on the material. After the excess penetrate is cleaned from the surface of the sample, a developer is applied. The developer lifts penetrate out of the defect, and the dye stains the developer, creating an outline of the defect or crack.

NDT :

Radiography (X- Rays / Gamma Rays) / U.T. as applicable shall be conducted as per requirement of job specifications / relevant Specifications / Code.

Hydro-Testing :

We use this method of testing a vessel for leaks by filling it with water and applying pressure.

Surface Preparation :

We offer several types of finishes, which meets Client's application requirements:

- Different Grade of Polishing / Buffing
- Painting with Seven Process Cleaning
- As – Welded
- Glass Bead
- Cleaned

CAPABILITIES



Overview

- › Organized Structure
- › Well Equipped Work shop
- › Designed Department
- › Quality Controls
- › ERP Installation
- › ISO Registration
- › DUNS Registration

Production

- › Vessels from 300 to 6000 mm in Diameter
- › Pressure from full vacuum to 100Kg/Cm2
- › Fabrications to 15000+ Kgs
- › Thickness: 5 MM to 40 MM
- › Team of Qualified Welders
- › CNC Cutting Machine
- › TIG Welding
- › MIG Welding
- › Over Head Crane
- › Half pipe and Dimple Jackets
- › High Quality Check

Material Of Construction

- › Carbon Steel
- › Different Grade of Stainless Steel
- › Aluminum
- › High alloys including: Hastelloy, Inconel, Monel, etc.

Design

Design according to :

- › ASME Section VIII Division I
- › API 650
- › TEMA

Design carryout by:

- › AutoCAD 2D
- › Solid Works 3D

Coating / Lining

- › Variable PTFE Coating
- › Galvanizing
- › Variable Rubber Lining
- › Electro-Plating
- › Tile/Brick Lining
- › PVC Coating
- › Graphite Lining
- › Powder Coating
- › FRP Lining
- › Hot/Cold Insulation

Surface Finish

- › Primer Coat
- › Enamel Wet Paint
- › Epoxy Lining
- › Electro Polished Stainless Steel
- › Mechanical Polished Stainless Steel

Specialized Testing

- › Radiography
- › RA Finish
- › Dye Penetrate
- › Hydro Test
- › Ultrasonic
- › PMI (Positive Material Identification)
- › Helium Gas Test

Other Services

- › Documentation Package
- › On-site Inspection Coordination
- › Installation & Commissioning

Custom Fabrication

The workshop is uniquely positioned as both the In house fabrication of Equipment as well as a custom fabrication facility to engineering companies and processing facilities. Quality workmanship is the watchword for our Manufacturing Division, a leading supplier of stainless steel custom fabrication services. Our modern, make-to-order manufacturing facility has an experienced workforce that produces the highest quality stainless steel process equipment.