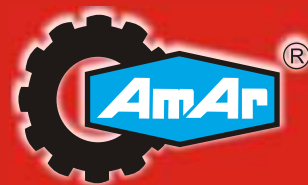


Autoclaves

High Pressure Systems



Pressure Reactor Specialist™

Your Research Partner



Our Profile

Experience

The company was founded in 1974 by Mr. Naresh Shah (Managing Director & Chairman) after completing B.Tech. Mechanical from IIT Mumbai & Masters of Science from University of Michigan, United States. He was later joined in 1998 by his son Mr. Vishal Shah who graduated with a bachelors' degree in Mechanical Engineering from V.J.T.I Mumbai. Ever since 1974, Amar has built its foundation on a strong technical team with a blend of vast experience & technological / commercial understanding.

The Journey

The beginning journey was with general fabrication of large pressure reactors, vessels, heat exchangers etc. Today, we specialize in high pressure autoclaves / reactors / systems, magnetic drive coupling & flow reactors. Our vision is to provide import substitutes in India & new technologies globally, while maintaining quality & costs. Through high pressure systems Amar can offer customized turnkey solution for virtually all applications from high pressure chemical reactors, corrosion testing, supercritical fluid extraction system etc for chemical, pharmaceutical, oil & gas, defence, educational & chemical research purposes.

Certifications

We are a ISO 9001 – 2008, CE – PED, ASME U, U2 certified company offering products with Explosion proof (Ex), ATEX, UL, CSA, CRN certified systems on request.

Facilities

We have complete in-house setup well-equipped to design, manufacture & test all the products & components with latest gauges, measuring instruments & machines including:

- CNC turning centre
- Vertical machining centre (VMC)
- Conventional lathes
- Plasma cutting machine
- Overhead EOT cranes
- Buffing / polishing / cleaning equipment
- Laser marking
- Cutting machines
- Calibration instruments
- Drilling machines
- Welding machines
- Grinding machines
- PMI machine
- Packaging machines etc.

Team

We are a team of around 125 people with qualified staff, skilled workers including a core team of 30 highly skilled & experienced professional engineers, required to produce the desired quality with accuracy & precision as per international quality standards & design codes.

Vision

- To provide import substitutes in India & new technologies globally, while maintaining quality & costs
- To become a leading global player in manufacturing & supply of all our products
- To continuously upgrade the quality of our products and always offer the latest & the best
- To build products that are technically complete, physically reliable, economically competent & ergonomically superior

Mission

- To develop technically complex, challenging, customised turnkey solutions
- At Amar, we strongly follow Hon. Indian Prime Minister Narendra Modi's campaign of MAKE IN INDIA

Global Footprints

Pioneers & largest manufacturer of high pressure reactor, magnetic drive couplings & continuous flow reactor in India year after year for over 40 yrs with around 75% market share in India and substantial share globally. Over 5000 successful installations world over with more than 1000 delighted customers. Exports to more than 50 countries worldwide with presence of local distributors & 5 distributors in different parts of India for local support.

Product Range

- High Pressure Autoclaves
- High Throughput Catalyst Screening
- Automated Parallel Autoclaves
- Gas Induction Reactors
- Glass Autoclaves
- Non Stirred Pressure Vessels
- HPHT Corrosion Testing
- Supercritical Fluid Extraction
- Reaction Calorimeters
- Gas Hydrate System
- Acid Digestion Bombs
- Shaker Hydrogenator
- Pilot Plants
- CSTR
- Fixed Bed Tubular Reactors
- Continuous Flow Micro Reactors
- Photo Chemical Flow Reactors
- Magnetic Couplings / Stirrers
- Heating & Cooling Circulators
- Lab Agitated Nutsche Filters



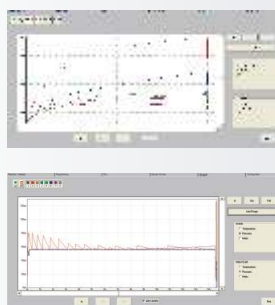
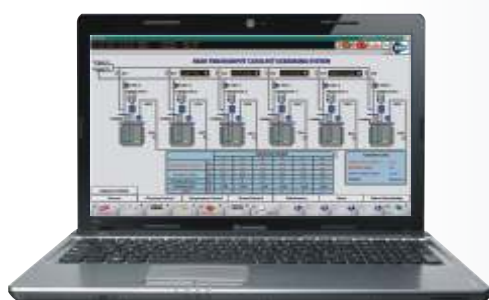
Certifications & Approvals

- An ISO-9001-2008 certified company.
- All our pressure vessel designs are as per **ASME** codes-section VIII Div 1 / Div 2.
- Our welders are qualified as per **ASME** section IX codes for welded pressure vessels.
- **PED, U/U2 Stamp, CRN for Canada, ASA 1210 for Australia & DOSH for Malaysia** certified systems.
- CE, UL / CSA certified systems offered on request.
- Explosion proof / flame proof systems with Class 1 Div. 2, ATEX Zone I Ex electrical & mechanical certified system for hazardous area.
- DQ, IQ, PQ, OQ documentation can be given on special request.



Fully Automated High Through-put Catalyst Screening

- Faster screening of catalysts by running all autoclaves in similar conditions
- Volumes: 50 ml - 750 ml, 4 or 6 nos. parallel autoclaves
- Pressures upto 350 bar & temperatures upto 500 °C
- Material: SS 316, Hastelloy B/C, Monel, Inconel, Titanium, Tantalum etc.
- Fully automated process without human intervention with manual mode for emergency/ malfunction/ bypass
- SCADA software with suitable laptop for remote set points, control & recording of temperature, pressure, speed control, H₂ gas flow rates, total H₂ consumed with batch reports & online / history graphs
- Highly advanced programming & recipe management for leak test, N₂ / H₂ flushing, temperature profiling, speed control, H₂ purging, pressure control with H₂ gas uptake, heating, cooling, vent etc.
- Safety alarm & suitable interlocks for high & low temperature / pressure along with suitable safety rupture discs
- Highly advanced & compact for fitting in fume hood
- Complete SS construction
- For multiple autoclave specifications & enquiry refer page 12 - 14



Eco Catalyst Screening

Salient Features:

- Eco-cat 6 - 25: 6 parallel reactors of 25ml volume each with common bottom stirring, heating & lid
- Eco-cat 7 - 25: 7 parallel reactors of 25 ml volume each with common bottom stirring, heating & independent lid
- Eco-cat 24 - 10: 24 parallel reactors of 10 ml volume each with common bottom stirring, heating & lid
- Design pressure of 100 bar at 200°C
- Maximum stirring speed 1000 RPM
- Material: SS 316, Hastelloy C, Inconel, Monel, Titanium & Tantalum etc.
- Very compact & economical system
- Ideal for high through-put catalyst screening
- Optional glass/ PTFE liner



Eco-cat 6 - 25

Eco-cat 7 - 25

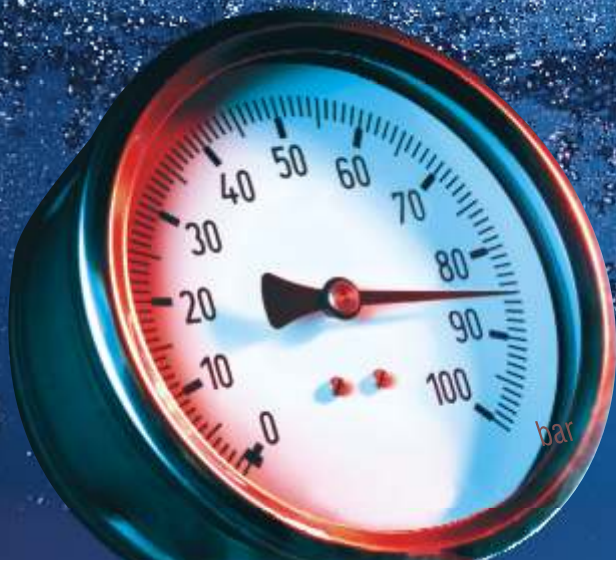
Some of our valued customers



Some of our valued customers



At Amar **PRESSURE** and **FLOW** is our religion



WORLDWIDE PRESENCE

Exports to over 50 countries worldwide with distributors for sales & service in following countries

- Australia
- Colombia
- Germany
- Mexico
- Portugal
- Slovakia
- Thailand
- Azerbaijan
- Czech Republic
- Iran
- Netherlands
- Russia
- South Africa
- Turkey
- Brazil
- Egypt
- Israel
- Peru
- Romania
- South Korea
- UK
- Cambodia
- Estonia
- Italy
- Phillippines
- Saudi Arabia
- Spain
- USA
- China
- France
- Malaysia
- Poland
- Singapore
- Taiwan
- Vietnam

Sales & service support available from following places in India

- Ahmedabad
- Bangalore
- Hyderabad
- Kolkatta
- Mumbai
- New Delhi



AMAR EQUIPMENTS PVT. LTD.

Since 1974.

6, Parmar Industrial Estate, Bail Bazaar, Kale Marg, Kurla (W), Mumbai - 400 070. India.

Tel: +91-22- 6225 5000 • Website: www.amarequip.com • E-mail: sales@amarequip.com / export@amarequip.com



- High Pressure Autoclaves • Multiple Reactor Systems • Gas Induction Reactors • Ex-Proof & Automated Pilot Plants • Glass Autoclaves
- Super Critical Fluid Extraction • HPHT Corrosion Testing • Magnetic Drive Couplings & Agitators • Lab ANF

- Metal Micro Rectors • Glass Flow Reactors • Photochemical Reactors • Packed Bed Tubular Reactors
- Continuous Stirred Tank Reactors • Heating Cooling Circulators