

## Hi-Tech's Product Range

### Laboratory Pilot Plants & High Pressure Reactor Systems

- **Bench Top Reactors for Catalyst Testing** : Micro level / Lab level / Pilot Level. (1 cc to 500 cc capacity)
- **Micro Gas Reactors** : Liquid Micro Reactors / Grid Micro Reactors / Micro level / Lab level
- **Corrosion Research Equipments** : Corrosion autoclaves, 25 ml upto 8 liter / Fixed and batch coupon holders / Rotating disc apparatus / Sample cutting machines / Electron microscope / Coupon grinding machines
- **High Pressure Fixed Bed Reactor Systems** : Fixed bed Micro Reactor / VLE Setup/ Vapor Phase Reactor / Bio-diesel Reactor / Mini Reactor Systems / Hydrotreaters / Hydrocrackers / Reformers / GTL systems / FT Unit / Vapor Phase Reactor / Pressure Swing Adsorption Systems / Bench Top Reactor Systems
- **Stirred Reactors** : Laboratory Autoclaves/ CSTR's/ Batch Reactors/ Solvent Screening System/ Pressure Vessels / Corrosion Autoclaves: 25 ml to 4 liter (custom designed upto 100 liter), Press: 400 bar, Temp.: 510 °C, Gas/Liquid, Gas/Liquid/ Solid, Gas/ Liquid/Solid/ Vapor, Gas/Gas, Liquid/Liquid, Catalyst Basket, Material of Construction: SS 316 / HC276 / Glass / Inconel / Titanium / Teflon Lined
- **Academic Products** : Technical Training Kits, Engineering Educational Systems & Pilot Plants

### Laboratory Instrumentation

- **High Temperature Heating Tapes** : Length 2 ft to 16 ft, Temp:1400 °F, for 1/8" to 2" OD metal surface
- **Pressure Regulators (forward & back pressure)**: 4 bar/16 bar/200 bar, Regulator for CO<sub>2</sub>/NH<sub>3</sub>/O<sub>2</sub> gas
- **Mass Flow Controllers**: Pressure range 0.5 bar to 400 bar, Flow Rangeability 1: 50 ratio, all gases.
- **Pressure Gages & Pressure Transmitters**: Ranges: 1 bar to 400 bar, vacuum gages: upto 760 mm hg
- **Thermocouples**: Type 'K', from 1/32" OD to ¼" OD in all lengths, PT 100, J type & connectors
- **Control Instrumentation**: Programmable Temperature Controllers, RPM Indicators, SCR regulators, power controllers etc.
- **Liquid Metering Pumps**: Pressure 750/1500/2500/6000 psig, Flow (ml/min): 0.002-2.5 / 0.003-5.0 / 0.02- 40 / 0.04 – 80.0 / 0.01-9.90 / 0.1-39.9 with PC interface & RS 232 communication.
- **Laboratory Tubular Split Furnaces** : Single zone to Five zone & temp 900 °C / 1200 °C, ¼" ID to 2" ID
- **Valves, Fittings & Tubing** : Swagelok, Parker & Autoclave range in stock. 1/16" to 1" size, SS316
- **Circulators & Cryostat** : -70 °C to 30 °C / - 40 °C to 100 °C / -15 °C to 100 °C / 0 °C to 200 °C
- **Tubular Reactor Tubes** : 5cc to 500 cc, SS316 / HC276 / Inconel, Pressure 50 bar / 100 bar / 400 bar, Temp: upto 900 °C, available in all lengths & diameters along with high pressure metal to metal seal, thermowell ¼" or 1/8"
- **Special Valves** : Multiport Stream Selection Valve, Sampling Valve, 2/3 way Ball Valve 260 °C /300 bar
- **Chromatography Products** : GS MSD, GC Columns/Accessories, HPLC Pumps, HPLC Gradient Systems
- **Process Analyzer** : Surface Area Analyzers for Powders / Particle Size Analyzers / Automatic Distillation Analyzer - D86 Automation & Services

### Automation & Services

- **Control Panel & Automation**: From bench top to floor mounted, manually operated to fully PC interfaced using GE Fanuc's Ixix Intelletuion SCADA.

### Services

- Service Contracts for Repair, Refurbishment & Retrofitting of all types Laboratory Reactors
- System Design and Engineering Support
- Manufacturing, Sales & Service Support
- Maintenance & Training Contract Management
- Spares & Inventory Management
- Control System Engineering
- Electrical Assembly and Installation
- Stocking & Logistic Support
- Project Management and Consulting
- Exclusive business tie up with worldwide reputed manufacturers for various products

### Foreign Representation & Distributorship

- Autoclave Engineers ([www.autoclaveengineers.com](http://www.autoclaveengineers.com)) - Stirred Reactors, Pressure Vessels, BTRS & VFT
- Dr.-Ing. Ritter Apparatebau GmbH & Co KG. ([www.ritter.de](http://www.ritter.de)) Ritter Germany - Wet & dry gas test meters
- [REDACTED]
- Eldex USA ([www.eldex.com](http://www.eldex.com)) – HPLC Pumps, Reciprocating pumps, Column Heaters, Fraction Collector
- Laballiance ([www.laballiance.com](http://www.laballiance.com)) – Analytical HPLC Systems, HPLC Pumps, CO<sub>2</sub> Pumps etc.