

OUR RANGE OF APPLICATIONS & PRODUCTS



Machine Tools

Compressed_Air Driven, High Pressure pumps are used_for the following applications

- Roller tensioning
- Hydraulic and Pneumatic Cylinder actuation
- Clamping
- Lube and Coolant spraying
- Machine tool flushing
- Gun Drilling - Machining Centres
- Machine Tool Counterbalance
- Accumulator charging
- Quick Die Change
- Clamping
- Laser cutting

General Engineering

Compressed_Air Driven, High Pressure pumps are used_for the following applications

- Pressure Testing of Valves, Hoses, Pipes, Gauges, Pressure Vessels etc
- Water-Jet Cutting and Blasting
- Autofrettage of High Pressure Components
- Gas Cylinder Filling and Charging
- Pressure Gauge Calibration
- Operating Hydraulic Jacks
- Tyre Curing Presses
- Filter Presses
- Accumulator Charging
- Powering Crimping and Riveting Tools
- Bolt Tensioning
- Wire Forming
- Isostatic Pressing

Automotive

- Mechanical Press Overload Systems in Automotive Body Plants. Quick Die Change.
- Clamping systems
- Testing of Fuel Injectors
- Multiple Gas Refuelling
- Airbag and other Inflation Charging Systems
- Hose and Radiator Pressure Testing
- Air Conditioning Charging and Leak Detection
- Brake System Testing
- Special Gas Recovery and Charging

Power & Energy

- Valve Actuation
- Gas Charging and Recovery Systems for Circuit Breakers
- Boiler and Heat Exchanger Pressure Testing
- Heat Exchanger Tube Swaging systems
- High Pressure Boiler De-scaling
- Live Wire Crimping tools

Fire, Health & Safety

- Charging of Breathing Air & Oxygen cylinders
- Stretch Testing and Re-lifing of Cylinders
- Hydraulic cutting & Rescue Tools
- Oxygen Generation PSA Systems for Remote Field Hospitals.
- Hyperbaric chambers

Petroleum & Energy

- Chemical Injection
- Bolt Tensioning
- Blow Out Preventers
- Wire-Line Lubrication
- Pressure Testing
- Valve Actuation
- Sub Surface Safety Valve Control
- Diesel Engine Air Start Systems
- Gas Assisted Injection Molding
- P.E.T Blow Molding

Airline & Aerospace

- Oxygen Life Support Charging
- Escape Chute Charging
- Aircraft Ejection Seat – Co2 cylinder charging
- Aircraft Jacks
- Charging of Helicopter Pop Up Floats
- Helium Leak Pressure Testing
- Missile Pressure Test Systems
- Fire Protection systems
- Actuation & Pressure Testing of Control systems
- Inflating systems for aircraft tyres
- Accumulator Charging for Flaps, Boundary Layer Controls, Landing Gear etc.

Land - Army

- Charging of Gun Recoil and Suspension systems of Tanks
- Tank Jacking Systems
- Missile Launch Levelling systems
- Armaments Manufacture & Testing
- Nitrogen & Argon Cooling of Thermal Seekers & Infrared Systems for Missiles, Night Sights etc
- Setting of Hydraulic Mine Props
- High pressure Drilling Dust Suppression
- Rock Bursting Tools
- Testing of Roof Support Systems for mining
- Jet Air Flow and mass flow systems for air evacuation in tunnels.

Sea - Navy

- Charging Of Oxygen Life Support Cylinders
- Charging of Nitrox, Oxygen, Nitrogen and other Diving equipment.
- Charging systems for Hyperbaric Chambers
- Charging of Gun Recoil systems and suspensions.
- Gun Turret Levelling
- Engine Bolt Tensioning
- Propeller Shaft extraction
- Gear Box Splitting
- Boiler Testing
- Pressure testing of pipelines on submarines and submerged pipelines.
- Underwater high pressure robotics

Laboratory & Research

- Liquid Co2 Chromatography
- Supercritical Extraction
- Homogenizing
- Geological Testing

Electronics & Computer

- Wafer / Chip Washing
- Chip Dicing and Sawing
- Gas Purging

Mining & Tunnelling

- Setting of Hydraulic Mine Props
- Drilling Dust Suppression
- Rock Bursting Tools
- Testing of Roof Support Systems
- Tunnel Shield Operation

Heavy Equipment & Earth Moving

- Hub Pulling – Bearing Removal
- Bolt Tensioning
- Wheel Lubrication
- Air filling in large tyres
- Air Conditioning Testing and CFC Recovery

Plastics

- Injection of Blowing Agent
- Air Sleeves – Plastic Printing

ATU Machines Pvt Ltd, located in New Delhi, is associated with five of the largest OEMs of high pressure hydro-pneumatic equipment. ATU has sterling experience in designing and manufacturing indigenously engineered high pressure hydro-pneumatic systems using electric or air driven liquid pumps and gas boosters, for Oil & Gas, Aerospace, Defence, Automotive as well as general industry in India. We have proven experience in designing and producing chemical injection packages, hydrostatic test equipment, high pressure gas charging and gas injection systems as well as computer controlled, fully automated control panels.

ATU Machines prides itself in offering custom solutions to myriad customer requirement in practically every industry in India.

ATU is a young, enthusiastic and energetic company which lays the greatest emphasis on quality, customer satisfaction and timely delivery. We provide double warranties and product support through the life time of the equipment supplied by us.

Advance Technology, Unique Machines

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Advance Technology, Unique Machines

FAMILY OF COMPRESSED AIR DRIVEN OR ELECTRICALLY DRIVEN HIGH PRESSURE HYDRAULIC AND PNEUMATIC PUMPS AND GAS BOOSTERS FOR DIVERSE APPLICATIONS.



LARGE SELECTION OF MEDIUM & HIGH PRESSURE VALVES, FITTINGS & PIPING ACCESSORIES UP TO 150,000 PSI (10,000 bar) FROM ALL FAMOUS FOREIGN OEMS

Electrical Motor & Petrol Engine Driven Power Packs – High Delivery Type

LARGE FAMILY OF FULLY AUTOMATED VALVE TEST RIGS
Relief, Globe, Butterfly, Gate, Universal Valves with vertical & horizontal clamping methods



Containerized Relief Valve Testing Workshop

Relief Valve Test Unit With Clamping

Super Pressure Test Rig With Clamping

Hydrostatic Test Rig with swing arm and double sided pressurisation

Simple Hydrostatic Test Rig With Vertical Clamping

Simple Hydrostatic Test Rig with Horizontal Clamping

Fully Automated Valve Test Rig with Data Logging

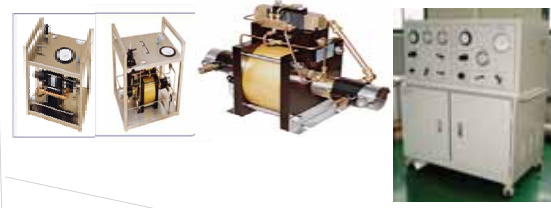
FAMILY OF TEST RIGS FOR PROOF, BURST OR LEAK TESTING OF HOSES AND OTHER PIPING ACCESSORIES (Static Or Dynamic Impulse Testing)



FAMILY OF SPECIAL PURPOSE HIGH PRESSURE HYDRAULIC CONTROL PANELS & HOSE REEL



Family Of Compressed Air Operated Special Purpose High Pressure Hydraulic Power Packs.



Stretch Test Rigs for Certification & Re-Lifting of High Pressure Vessels & Cylinders



TRUCK MOUNTED HIGH PRESSURE SYSTEMS
MOBILE NITROGEN GENERATOR & GAS CHARGING SYSTEMS



Custom Made Gas Boosting Systems

