

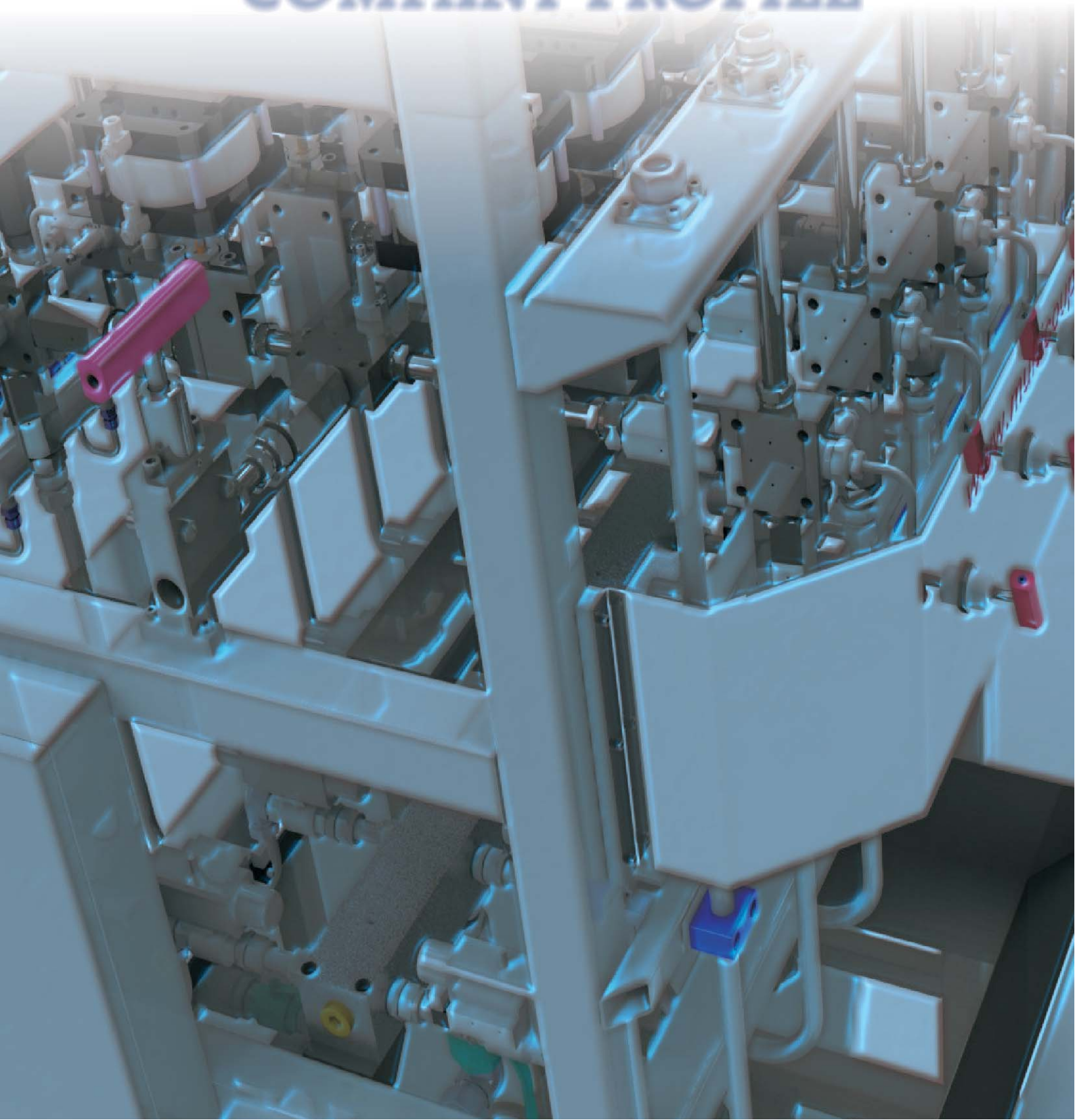


multi-coupling system SRL



↑ PRESSURE ↓

COMPANY PROFILE



MULTI-COUPLING SYSTEM S.r.l. designs and produces hydrodynamic and hydraulic components and systems for the most various industrial fields and for specific applications.

The Company was originally located in Legnano, near Milan, but the constant increase in production levels, required the movement to larger premises, first in Canegrate and now in Villa Cortese, still near Milan, in Northern Italy.

MULTI-COUPLING SYSTEM, established in 1992, takes advantage of the experience accrued with high-pressure and very-high pressure equipment (5000 Bars and above). It designs, produces and sells power supply and distribution units, test benches, quality control equipment, components for submarine applications, devices, piping and fittings in accordance with National Standards or Customer's specifications.

Manufacturing of custom-built units is made within the Company departments, with the capability of machining stainless-steel plates, sections and stock shapes or special materials.

The Factory shops are provided with up-to-date equipment and machinery. Production processes are constantly improved and the final quality meets the most demanding requirements of both small and large industries.

In year 2002, MULTI-COUPLING SYSTEM Co. developed a new line of products for high pressure applications. These products are identified with the specific "HIGH PRESSURE" designation.

Top performance and reliability of products, together with the well known flexibility of the Company as a problem-solver, make MULTI-COUPLING SYSTEM Co. a really dependable partner for its Customers.

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- **HIGH PRESSURE NEEDLE VALVES**
- **HIGH PRESSURE CHECK VALVES**
- **HIGH PRESSURE TUBE AND FITTINGS**
- **HIGH PRESSURE HOSES**

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- **AIR DRIVEN HIGH PRESSURE LIQUID PUMPS**
- **HIGH PRESSURE SPINDLE PUMPS**
- **HIGH PRESSURE LIQUID POWER PACKS**
- **PORTABLE CALIBRATION UNIT**

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- **AIR DRIVEN HIGH PRESSURE GAS BOOSTERS**
- **HIGH PRESSURE GAS POWER PACKS**
- **DIAPHRAGM COMPRESSORS**

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- **CUSTOM-BUILT AUTOMATIC HIGH PRESSURE POWER AND CONTROL UNITS**
- **HYDRAULIC GAS PUMPING UNITS**
- **CUSTOM-BUILT MANUAL HIGH PRESSURE POWER AND CONTROL UNITS**

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- **HIGH CYCLE FATIGUE TEST BENCH**
- **PRODUCTION LEAK DETECTION TEST BENCH**
- **HIGH PRESSURE CONTROL PANEL**

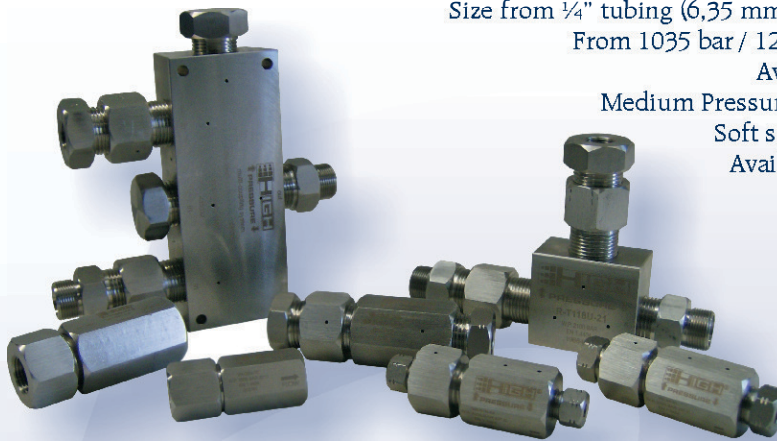
HIGH PRESSURE NEEDLE VALVES

Size from ¼" tubing (6,35 mm OD)
to 1" tubing (25,4 mm OD)
From 1035 bar / 12,500 psi
to 7000 bar / 100,000 psi
Available with female NPT, Medium Pressure and
High Pressure connections
NPT valves are available for in-line mounting
Panel mounting standard
Suitable for liquids and gases
Large orifices at rated pressures
Smooth operation under pressure thank to internal bearing
All valves can be actuated by normally closed/opened
actuator or double acting actuator



HIGH PRESSURE CHECK VALVES

Size from ¼" tubing (6,35 mm OD) to 1" tubing (25,4 mm OD)
From 1035 bar / 12,500 psi to 7000 bar / 100,000 psi
Available with male or female NPT,
Medium Pressure and High Pressure connections
Soft seating up to 4200 bar / 60,000 psi
Available in manifold up to 5 outputs
Full stainless steel construction,
suitable for liquids and gases
Direct and in-line installation



HIGH PRESSURE TUBE AND FITTINGS

Tube size from ¼" (6,35mm OD) to 1" (25,4mm OD)
High quality stainless steel Aisi 316L/ EN 1.4404 up to 4200 bar /60,000 psi
Wide range of connections: BSP,NPT, Medium Pressure, High Pressure connections
High Pressure connections available in metric version too
Wide range of adapters and fittings
always in stock
Special stainless steel
over 4200 bar / 60,000 psi
Suitable for liquids and gases
All tubings made of cold drawn
stainless steel



HIGH PRESSURE HOSES

Working pressure up to 3000 bar / 43,500 psi
Low volumetric expansion
Small outside diameter
Low weight
Suitable for liquids, gases and chemicals
Optional test Certificate,
hose guard and safety stop devices
High quality inside and outside
surface finish



AIR DRIVEN HIGH PRESSURE LIQUID PUMPS

Working pressure up to 4500 bar / 65,000 psi
Hydraulic driven over 4200 bar / 60,000 psi on request
Long working life of the air driven and high pressure seals
Low noise at elevate cycle rate
Very simple maintenance
Designed for critical and fatigue works
Suitable for a wide range of fluids



HIGH PRESSURE LIQUID POWER PACKS

Pressure range up to 4500 bar / 65,000 psi
Flow up to 50 L/min
Suitable for water, oil and a wide range of chemicals
Provided with pneumatic pump
Low noise at elevate cycle rate
Stainless steel panel
Direct water supply or with integral tank
Configuration on customer's request



HIGH PRESSURE SPINDLE PUMPS

Working pressure up to 4500 bar / 65,000 psi
Accurate pressure control
All wetted parts in special high resistance steel
Suitable for water, oil and a wide range of chemicals

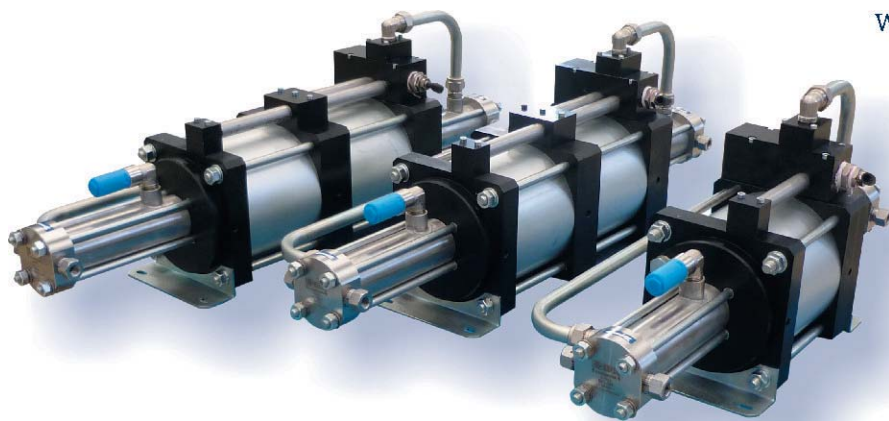


PORTABLE CALIBRATION UNITS

Working pressure up to 4500 bar / 65,000 psi
Low weight
Water tank included
Ideal for quick and accurate gauge calibration
Master gauge with calibration certificate available on request



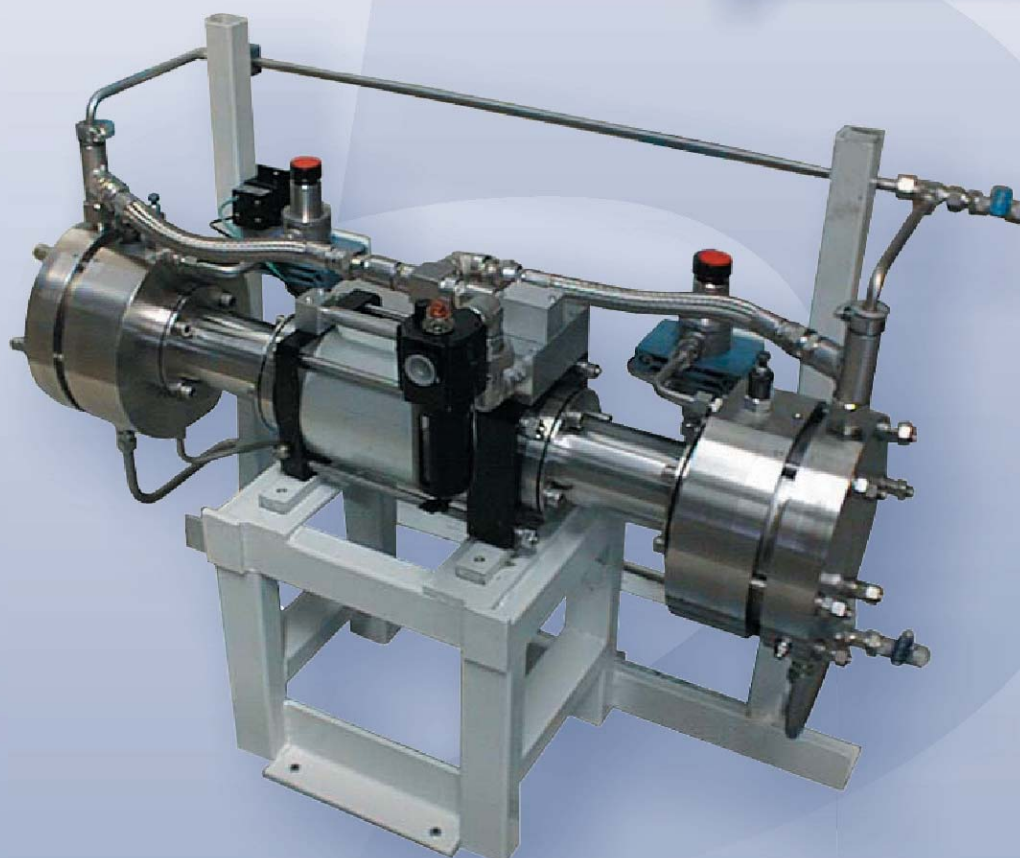
AIR DRIVEN HIGH PRESSURE GAS BOOSTERS



Working pressure up to 1500 bar / 22,000 psi
Single, double or two stages acting
Low noise at elevate cycle rate
Easy maintenance
Good reliability under severe conditions
Options: hydraulic control
Suitable for transfer and pressurization
of a wide range of gases, for example:
nitrogen, helium, argon and breathing air

HIGH PRESSURE GAS POWER PACKS

Working range up to 1500 bar
Up to 4 uses
Suitable for transfer and pressurization
of a wide range of gases, for example:
nitrogen, helium, argon and breathing air
Equipped with pneumatic booster
Low noise at elevate cycle rate
Stainless steel panel
Configuration on customer's request



DIAPHRAGM COMPRESSORS

Working pressure up to 50 bar
High purity compression
High flow
Air driven
Special sealing for
hydrogen applications



CUSTOM-BUILT AUTOMATIC HIGH PRESSURE POWER AND CONTROL UNIT

Hydraulic Pressure range up to 4200 bar/60.000 psi

Gas pressure range up to 1500 bar/22.000 psi

Custom solution for hydro testing, hose testing, hydraulic operation, wellhead and BOP test, gas testing, gas filling and transfer, gas injection.

Provided with air driven pumps or gas booster

Provided with PLC for visualization and control.



HYDRAULIC GAS PUMPING UNIT

Pressure range up to 800 bar

Suitable for transfer and pressurization of a wide range of gases, for example:

nitrogen, helium, argon and breathing air

Provided with hydraulic booster

Provided with PLC for pressure test visualization



CUSTOM-BUILT MANUAL HIGH PRESSURE POWER AND CONTROL UNIT

Hydraulic Pressure range up to 4200 bar/60.000 psi

Gas pressure range up to 1500 bar/22.000 psi

Suitable for valve ,Wellhead and BOP test,

hydraulic operation, gas testing,

gas filling and transfer, gas injection.

Provided with air driven pump or gas booster



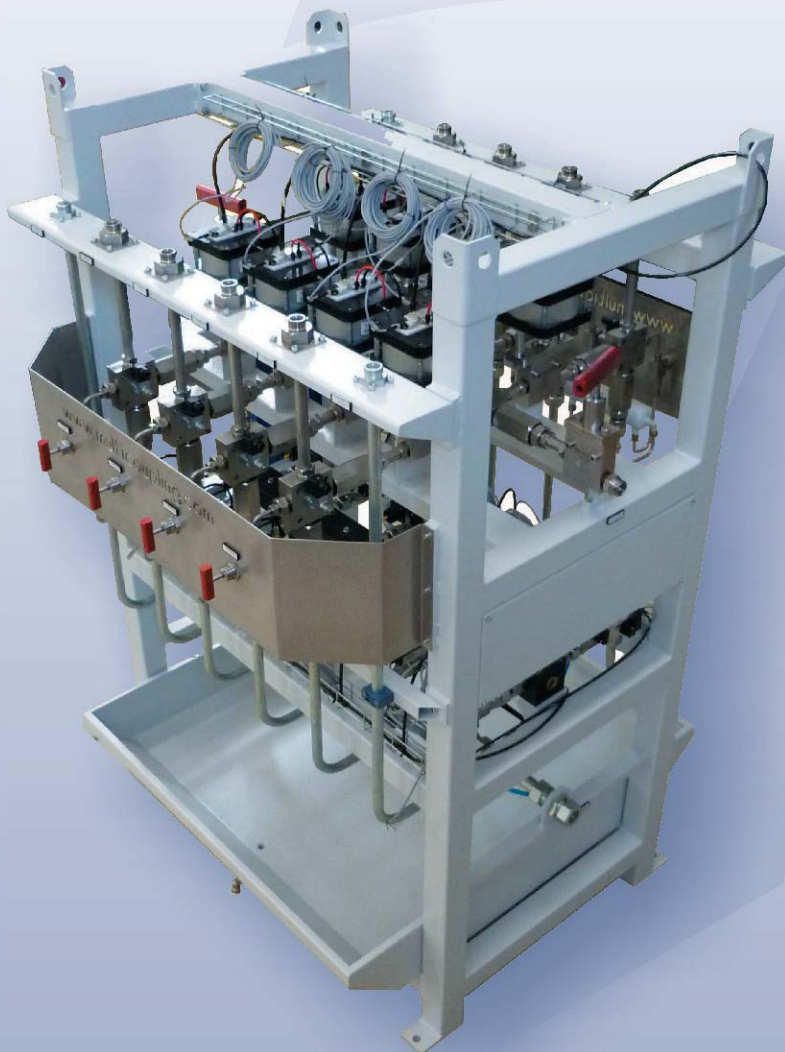
HIGH CYCLE FATIGUE TEST BENCH

Pressure range up to 4000 bar/58.000 psi
Temperature range up to 300°C
Working fluid special oil
Temperature, pressure and cycles number settable for each station
Test in automatic



PRODUCTION LEAK DETECTION TEST BENCH

Pressure range up to 1500 bar/22.000 psi
Working fluid nitrogen/helium
Multi symmetric test stations
Test in automatic



HIGH PRESSURE CONTROL PANEL

Manual or automatic with high pressure air actuated valves
Tube size from 1/4" to 1"
Configuration on customer's request
Suitable for liquid and gas



WE KNOW WHAT YOU NEED



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<http://www.highpressure.it>