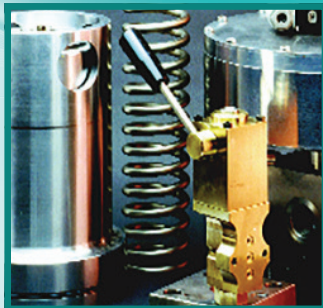
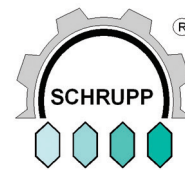


# HL HYDRAULIC / PRODUCT LINE CARD

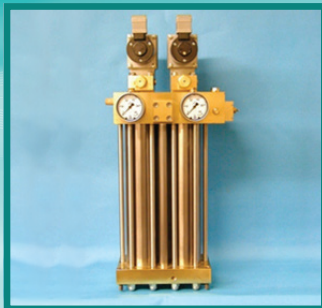


## SCHRUPP WATER HYDRAULIC / DESCALING CONTROL VALVES & SYSTEMS

Schrupp high pressure water hydraulic control valves are available with pressures to 800 bar, sizes ½ inch through 10 inch, designed in accordance with DIN 24342 international dimensions.

Schrupp water hydraulic valves are used in high pressure water hydraulic and descaling systems for steel industry bar mills, beam mills, tube & pipe mills, plate mills, and hot strip mills.

Schrupp valves are used in offshore and subsea hydraulic systems, in the mining industry, and anywhere that water hydraulics can be applied.

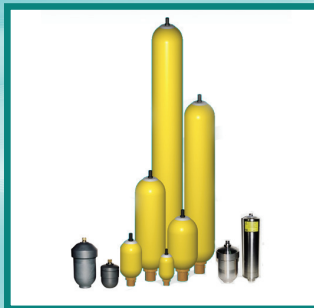


## SCHRUPP HIGH PRESSURE PNEUMATIC VALVES & SYSTEMS

Schrupp high pressure pneumatic control valves and systems are used in the electrical power industry for pneumatically driven high voltage switch gear, for high pressure breathing air in diving and rescue systems, and for laboratories and industrial processes with a need for continuous high quality in the compressed air supply.

The Schrupp program includes complete high pressure pneumatic systems and complete high pressure compressor stations.

Schrupp high pressure pneumatic components and systems are available with pressures up to 350 bar and dew points below -50°C can be realized.



## SCHRUPP ACCUMULATORS

GPM Controls, LLC manufactures the Schrupp product range of bladder, piston, and diaphragm type accumulators as well as a complete range of accumulator accessories, auxiliary gas bottles, safety shut off valves, charging and gauging assemblies, brackets and clamps, etc.

The Schrupp bladder accumulator product range includes bottom and top repairable designs with standard pressure ratings of 3000/4000 and 5000/6000 psi.

Schrupp also provides a complete program of diaphragm type accumulators, pulsation dampeners, suction stabilizers both available in a variety of standard and special materials including steel, stainless steel, and HSTPVC and with standard nitrile or special diaphragm materials as well.



## BOLENZ & SCHAEFER PISTON ACCUMULATORS

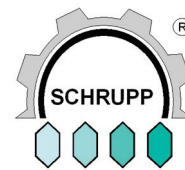
Bolenz & Schaefer manufactures a complete range of piston type accumulators specifically designed according to our customer's application demands.

Bolenz & Schaefer piston type accumulators are available in sizes from 1 liter to 400 gallons capacity and standard pressure ranges of 3,200 and 5,100 psi with higher pressures available upon request.

Bolenz & Schaefer piston accumulators are applied in the marine, industrial, steel, offshore, subsea, construction, electrical (switchgear), die-casting, and press industries plus many more.

Bolenz & Schaefer offers a full range of piston accumulator accessories and complete piston accumulator stations.

# HL HYDRAULIC / PRODUCT LINE CARD



## HAMMELMANN RECIPROCATING PLUNGER PUMPS

Hammelmann manufactures a complete range of reciprocating plunger pumps with power ratings to 1,000 horsepower. These high pressure pumps are built to operate at the continuous maximum duty stated in the performance parameters of each individual pump, and are available in triplex and quintuplex design.

They are mounted vertically to use minimal space and provide optimum alignment of plungers, sleeves, and valves. Cylinders are hermetically sealed via a "bellows" that does not see high pressure.

Internal gear reduction allows them to be close-coupled directly to the electrical motor or other drive element. A standard forged stainless steel high pressure fluid end is designed so that there is no stress reversal which can cause fatigue cracks.



## HYDROTECHNIK MINIMESS TEST POINTS / MEASUREMENT SYSTEMS

Hydrotechnik is the manufacturer and only supplier of the original Minimesstest point, which provide leak free performance for liquids or gases.

They supply a complete range of fluid measuring equipment including:

- pressure transducers / sensors;
- pressure switches;
- flow rate sensors (meters);
- volume rate flow sensors;
- gear flow sensors;
- turbine flow sensors;
- oval gear flow sensors;
- load valves;
- position sensors;
- force sensors;
- torque sensors;
- vibration sensors;
- hand held read out meters;
- and all necessary accessories and auxiliary equipment.

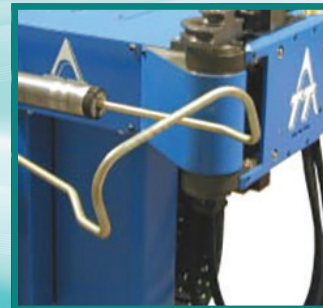


## SAUER RECIPROCATING COMPRESSORS & COMPRESSOR STATIONS

Sauer Compressors USA Inc. specializes in the manufacture of high-pressure air and gas compressors (HPAC) for industrial, offshore and naval applications.

The Sauer product range includes:

- 2-stage air-cooled medium-pressure compressors up to 20 HP and 600 psi
- 3-stage air-cooled medium-pressure compressors up to 80 HP and 600 psi
- 3- and 4-stage air-cooled high-pressure compressors up to 35 HP and 6000 psi
- 3- and 4-stage air-cooled high-pressure compressors up to 65 HP and 5000 psi
- 2-stage water-cooled medium-pressure compressors up to 100 HP and 450 psi
- 4-stage water-cooled high-pressure compressors up to 75 HP and 5000 psi



## TRACTO-TECHNIK TUBE & PIPE BENDING MACHINES

Tracto-Technik provides innovative machine technology & intelligent software solutions for efficient tube & pipe fabrication. The "Tube Fabricating Technology" division develops and produces bending and fabricating machines for tubes & pipes as well as system and software solutions for the piping industry.

The product range includes:

- CNC Tube Bending Machines
- Tube Measuring Systems
- 1-axis-controlled & semi-automatic Tube Bending Machines
- System Solution for Automated Fabrication of Template Pipes
- Bending & Assembling Machines for Hydraulic Tubing
- Software Solutions for Piping
- Ram Bending Machines