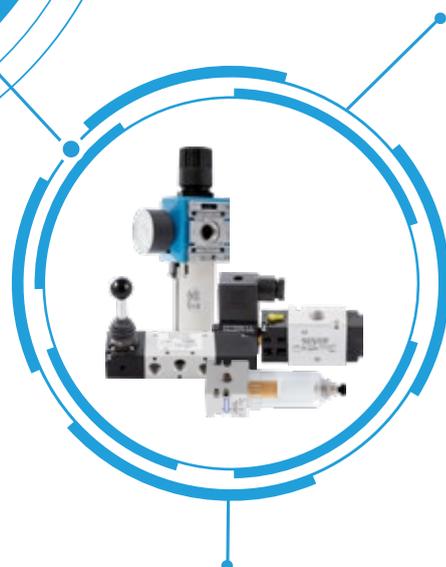
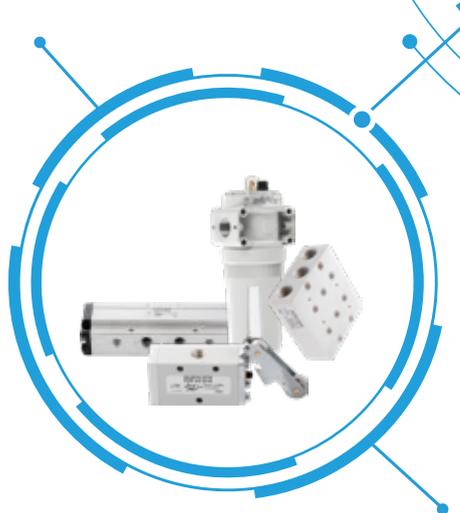


PRODUCT RANGE



Pneumatic systems



Automation



Hydraulic systems

01 ABOUT US

Since 1976, we have been a leading manufacturer of power and control pneumatic systems in Poland. We offer equipment for use in the mechanisation and automation of production processes in various industries. Our long experience combined with the use of new technologies enable us to constantly improve our products. We have an expert staff of engineers, which allows us to prepare and deliver innovative pneumatic and hydraulic components of the highest quality. We are proud to have been working with some of the largest companies in Poland and around the world for more than 46 years, and the customers who have "EXPERIENCED THE QUALITY" we guarantee placed their trust in us, thus pointing the direction we are heading towards.



Transport and railroad industries



Mining and metallurgical industries



Energy, chemical and petrochemical industries



Food industry



Timber and furniture industries



Mechanical engineering and automation



We ensure the highest quality of workmanship through the implementation and use of a Quality Management System conforming to the requirements of ISO 9001:2015

PNEUMATIC CYLINDERS D12 - D320

- compliant with ISO 15552 / VDMA 24562
- mini compliant with ISO 6432
- compact compliant with ISO 21287
- CNOMO
- pressure
- rotary
- swinging
- rodless
- mounting elements



DISTRIBUTION VALVES M5 - G3/4

- electromagnetically operated
- manually operated
- mechanically operated
- pneumatically operated
- cut-off (for various media)

COMPRESSED AIR PREPARATION UNITS G1/4 - G2

- filters
- reducers
- lubricators
- cyclone separators
- air preparation units



PNEUMATIC EQUIPMENT

- connectors (plug-in, twist-on, quick-connect) in various material designs
- ball valves
- throttle-check valves, quick drain valves
- pneumatic fittings
- PU, PA, PE, PVC and other conduits
- pressure gauges

SPECIAL PNEUMATIC CYLINDERS

- linear with travel measurement
- with central trunnion and piston rod cover
- protected and resistant to sodium hydroxide and nitric acid
- with built-in solenoid valve
- made according to customer documentation



03 HYDRAULIC SYSTEMS

HYDRAULIC CYLINDERS

- piston
- plunger
- various connection and mounting configurations
- individual configuration



DISTRIBUTION VALVES

- pressure control
- flow control
- proportional
- manually and electromagnetically operated
- solenoid valves
- plate distributors

SPECIAL HYDRAULIC CYLINDERS

- made according to customer documentation
- creating and re-creating unusual solutions



HYDRAULIC EQUIPMENT

- hoses and conduit ends
- connectors and quick couplings
- ball valves
- threaded fittings

ATEX EQUIPMENT

- pneumatic cylinders and hydraulic cylinders
- valves and solenoid valves
- compressed air preparation units
- fittings



SKILLS

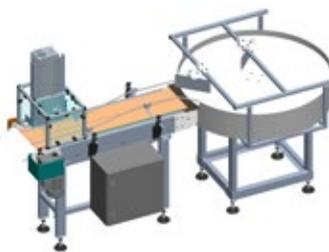
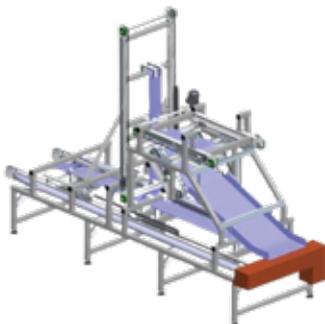
- we design and build industrial automation systems
- we modify and modernise existing installations and control systems
- we program PLC and HMI automation systems



CAPABILITIES

We focus on comprehensive customer service in the field of automation. A wide range of our products and partnerships with reputable component manufacturers enable us to build control systems strictly matching the requirements of our customers.

EXAMPLE PROJECTS



COMPRESSORS WITH ACCESSORIES

- Compressed air production units are only part of the investment. The electricity needed to run the compressor costs a lot more. Therefore, it is important for a reciprocating compressor to be energy efficient. The equipment we offer provides long life and quiet operation at an affordable price.
- Oil-free screw compressors are designed for industries where air purity is a priority. They are particularly helpful in sectors such as the medical and food industries, where the gas coming out of the compressor must be free of even the smallest oil particles. Oil, which is used both to lubricate the various parts of the compressor and as a heat transfer medium, can contaminate air. Oil-free compressors are a modern solution for areas where air quality is particularly important.
- A compressor dryer is an important component of a compressed air system, used to remove moisture from the air to improve efficiency and reduce unwanted substances. Our offer includes two types of dryers: based on refrigeration and adsorption. Refrigeration dryers act like chillers and are designed for indoor use where the temperature does not fall below 12°C, allowing them to achieve the fourth class of air quality. Adsorption dryers, on the other hand, are designed for use at higher pressures and flows in order to achieve the first class of air quality.
- We install cyclone separators at the compressor outlet to increase the efficiency of the air purification system. Thanks to the centrifugal motion of the air, heavy water vapour particles and contaminants are rejected on the separator wall. This manages to remove some 72% of the water contained in the compressed air.



COMPRESSED AIR SYSTEMS

- The era when compressed air systems were designed and built the same for every customer is over. Nowadays, it is important to design and build installations specifically tailored to the needs of a specific technology. They will provide air that meets the required parameters (pressure, quantity, quality) at the lowest possible cost. An energy efficient system will contribute to significant savings and lower production costs.
- When preparing a quote, it is important to conduct a site visit, meet with the customer and the general contractor. When it comes to upgrading or expanding, we suggest conducting an audit of the current system to identify key requirements.
- To enjoy a well-made compressed air system, it is important to avoid making mistakes. It is difficult to blame the users for the mistakes of the designers, so we propose the use of modern aluminium installation systems in order to eliminate deficiencies and install condensate drain valve.

ELECTROPLATING SERVICES

Hard chrome plating

- tank dimensions: 600 x 400 x 1500 mm
- max. element weight: 125 kg

Soft anodising of aluminium

- tank dimensions: 600 x 400 x 800 mm
- max. element weight: 25 kg

Hard anodising of aluminium

- surface up to 60 microns
- tank dimensions: 600 x 400 x 800 mm
- max. element weight: 25 kg

Zinc plating (hanging)

- tank dimensions: 600 x 400 x 800 mm
- max. element weight: 25 kg

Zinc electroplating (rolling)

- max. barrel load: 25 kg

Black oxidation of steel

- tank dimensions: 600 x 400 x 800 mm
- max. element weight: 125 kg

MACHINING

Lathe machining parameters

- max. \varnothing of passage over the bed: 760 mm
- max. \varnothing of passage over the support: 290 mm
- max. turning length: 3000 mm
- max. hexagon of machined bar: S46
- max. square of machined bar: 48 mm
- max. diameter of machined bar: \varnothing 65 mm
- process operations:
planning, longitudinal turning, cutting,
longitudinal and transverse hole machining,
longitudinal and transverse milling, polygon
turning

Milling processing parameters

- max. dimensions of the workpiece:
1000 x 500 x 300 mm
- process operations
- machining of surfaces: milling
- machining of holes: drilling, reaming, milling,
boring
- thread machining: bending, threading, milling

FOUNDRY

Foundry services offer

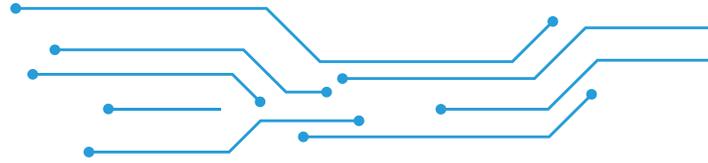
- die castings weighing from 0.45 to 42 kg, gravity assisted in die moulds of aluminium alloys
- we have a graphite crucible furnace for alloy melting, type CM-10/30B
- we have our own die casting machines with
- the ability to adapt to die moulds provided by the customers. Aluminium refining is carried out as part of the process.





Market presence

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