

COMPANY PROFILE





INDEX

ABOUT US	4
MISSION	5
ATOS GROUP	6
THE SMART ELECTROHYDRAULICS	8
ATOS WORLDWIDE	10
ATOS NUMBERS	11
THE ATOS DIFFERENCE	12
THE ATOS RANGE	20
PROPORTIONAL VALVES	22
AXIS & P/Q CONTROLS	25
ON-OFF VALVES	26
CYLINDERS	29
PUMPS - FILTERS	30
SYSTEMS	31
THE ATOS WAY	32

ABOUT US

Established in 1957 from the concept of Luciano Crespi, in 60 years of experience we have written the history of electrohydraulics

Now we are a Group operating in more than 80 countries, with 9 production sites in Italy, China, USA and India with over 750 professionals who share the same passion for innovation, technology and creativity

We are specialists, 100% dedicated to electrohydraulics, in a constant search of innovative solutions for any application, from the industrial ones with our high-performance axis controls, to the explosion-proof line for hazardous locations and the stainless steel one for corrosive environments and fluids



MISSION

We believe in the value of technology and we are constantly searching for innovation and quality thanks to our people's value



ATOS GROUP

NUMBERS

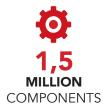
















PRODUCTION SITES



Sesto Calende (VA) - 27.000 m²

Modena - 6.000 m²

Trieste - 3.000 m²

Angera (VA) - 5.000 m²

Invorio (NO) - 11.000 m²

Galliate (NO) - 15.000 m²



Shanghai - 7.000 m²



York (PA) - 5.000 m²



Ahmedabad - 1.000 m²







ATOS GROUP ORGANIZATION

ATOS DIVISIONS

VALVES - proportionals & on/off - SESTO CALENDE, TRIESTE, SHANGHAI, YORK (PA), AHMEDABAD

ELECTRONICS - digital drivers, controllers & transducers - **SESTO CALENDE**

CYLINDERS - cylinders, servocylinders & servoactuators - MODENA

PUMPS - vane & piston - **SESTO CALENDE**

FILTERS - in line, return line, suction - SESTO CALENDE

SYSTEMS - power units & blocks - **ANGERA, SHANGHAI, YORK** (PA), **AHMEDABAD**

ATOS GROUP COMPANIES

ATOS INDUCTION - induction heating systems - **SESTO CALENDE**





ATOS, THE SMART ELECTROHYDRAULICS

Smart Electrohydraulics is the vision that sums up the four values leading our actions: responsibility, excellence, innovation and passion

For Atos, being Smart means courage and determination to define new standards of excellence. A new approach in which each process is analysed and optimized: from design to production, from delivery to after-sales service

Smart Electrohydraulics is our response to market demands for advanced solutions that are easy to install and use



Technology and innovation drive the research into new sustainable and efficient solutions



Atos products are unique in terms ease of use, intelligence and automation, always keeping the highest standards of reliability and safety

SMART PEOPLE

Our people act as a team, motivated to grow and encouraged to propose innovative ideas and improvements in all business fields

SMART PARTNER

Our relationships are transparent, reactive and proactive, in the spirit of collaboration which only a passioned approach can generate

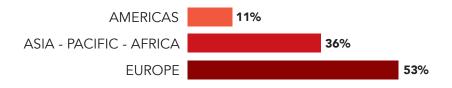


ATOS WORLDWIDE

A sales network with 25 branches, 120 sales professionals and distributors in more than 80 countries, together with great responsiveness and focus on customers. This is how our relationships become real partnerships



SALES BY GEOGRAPHIC AREA



ATOS NUMBERS





Ex-proof valves/years 35000



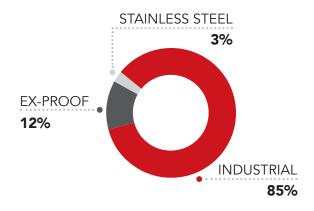
500000 NG6 on-off valves/year



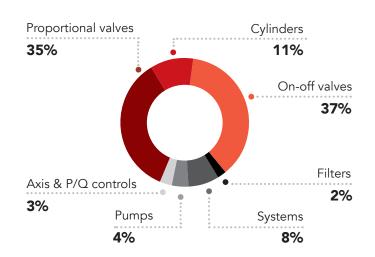




SALES BY PRODUCT LINES



SALES BY PRODUCT CATEGORIES



ATOS WINNING MIX

Atos offers a unique and winning mix with the organization and methods of a multinational combined with the flexibility, responsiveness, service and customer focus, typical of a private company:

- 4 weeks delivery with 3 days ultra-fast channel
- 15% of Atos production tailored according to customer requirements
- exclusive configuration software for simple and guided selection of any product within the range
- pre and after-sales support network, directly supported and coordinated by the Headquarters

TECHNOLOGY

Our focus is innovation, developed through laboratory research, CFD/FEM analysis and simulations of extreme environments

We internally develop all the electro-hydraulic know-how: fluidics, mechanics and electronics, in order to quickly provide solutions for any application

QUALITY

Quality is the company's mission at all levels.

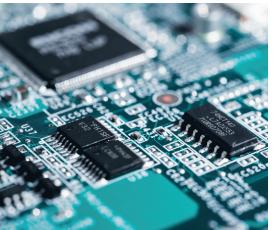
Atos is certified according to the main internation

Atos is certified according to the main international standards, with the application of IATF automotive methods:

- ISO 9001 Quality Management
- ISO 14001 Environmental Management
- ISO 45001 Health & Safety Management

A long list of certifications confirm the quality of Atos









100% DIGITAL ELECTROHYDRAULICS

The Atos proportional range sets new standards for industrial hydraulics









Atos software allows easy access to configurations, advanced diagnostics, alarm history and integrated oscilloscope

Industry 4.0 fieldbus provide real-time access to functional parameters, diagnostics, transducers and feedback



















SMART TUNING

The multiple dynamic configurations allow Atos proportionals to adapt their functional characteristics to any application or specific phase of a work cycle, thus simplifying the system start up

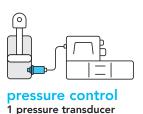
Each dynamic configuration can be easily customized with specific settings

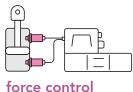


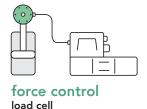


P/Q CONTROLS

Integrate max pressure or force control to the standard flow regulation of proportional valves and pumps



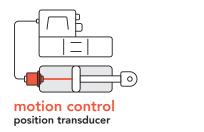


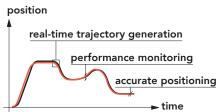


2 pressure transducers

AXIS CONTROLS

Smart proportionals with on-board axis control cards perform position & speed control of any hydraulic actuator, increasing their performance





Available in P/Q executions for max force limiting during the motion cycle

SAFETY ELECTROHYDRAULICS

Proportional and on-off safety valves are designed and developed in compliance with international standards:

- IEC 61508 & ISO 13849
- Machine Directive 2006/42/FC
- PED Directive 2014/68/EU

They are certified by DEKRA or TÜV for functional safety



ECP - ENHANCED CORROSION PROTECTION

The exclusive Atos galvanizing process guarantees excellent surface protection for aggressive environments





SPECIAL FLUIDS

A range of options dedicated to Atos products, permits full compatibility with fire-proof or eco-friendly fluids





LOW TEMPERATURES

Atos components are available in specific executions to make them perform optimally even in cold environments







HAZARDOUS ATMOSPHERES

The Atos Ex-proof line is certified to safely operate in mining or surface environments with potentially explosive mixtures of liquid, gas and dust





EUROPE



INTERNATIONAL



EURASIAN



NORTH AMERICA



CHINA



CHINA



INDIA



JAPAN

Flame-proof proportionals with on-board electronics allow solutions developed for industrial sector to be extended also to hazardous locations

Intrinsically safe valves provide the highest protection level in environments with very high risk of explosion - up to Zone 0

EXTREME ENVIRONMENTS

The stainless steel line provides the highest resistance to low temperatures, corrosive environments and fluids













Stainless steel components can be supplied with Ex-proof certifications to operate in hazardous environments

THE ATOS RANGE

PRODUCT LINES

The Atos range is represented by 3 product lines and 7 categories to provide easy access to the wide and ever-evolving product portfolio



INDUSTRIAL

High performance hydraulics meet advanced digital technology



SECTORS:

- Manufacturing
- Defense
- Wind
- Construction
- Agriculture
- Transportation



EX-PROOF

Engineered for safe operation in hazardous environments



SECTORS:

- Oil & gas
- Mining
- Energy



STAINLESS STEEL

The highest resistance to corrosive environments and fluids



SECTORS:

- Marine
- Chemical
- Food

THE ATOS RANGE

PRODUCT CATEGORIES

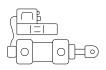


PROPORTIONAL VALVES





A unique range, from simple valves without transducers to servoproportionals



AXIS & P/Q CONTROLS





Servosystems with digital axis cards for position, speed and force control of any hydraulic actuator











A full range of reliable components to satisfy the most demanding applications

CYLINDERS

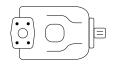








ISO executions with rugged design, engineered for high speeds, low friction and extended operative life



PUMPS





Fixed or variable displacement, for high pressure applications with low noise and long service life



FILTERS



Equipped with high efficiency microfiber elements for optimal fluid cleanliness



SYSTEMS





Power units and hydraulic blocks tailored for any hydraulic application, environment and working condition

PROPORTIONAL VALVES





SERVOPROPORTIONAL DIRECTIONALS

For high precision motion controls.

Zero overlap executions with LVDT transducers

4/4, 4/3 way • ISO sizes 06 ÷ 35

Qmax 3.500 l/min • Pmax 350 bar

HIGH PERFORMANCE DIRECTIONALS

Positive overlap executions with LVDT transducers for high dynamic directional and speed controls

4/3, 4/2 way • ISO sizes 06 ÷ 35 Qmax 3.500 l/min • Pmax 350 bar



SERVOCARTRIDGES

High flow for highest dynamic control. With 2 LVDT transducers

3 way • sizes 25 ÷ 80

Qmax 5.000 l/min • Pmax 420 bar

HIGH PERFORMANCE CARTRIDGES

High flow speed controls with ultra-fast response time. With 2 LVDT transducers

2 way • ISO sizes 16 ÷ 125 Qmax 22.000 l/min • Pmax 420 bar



DIRECTIONALS

Full range of proportionals without LVDT transducers

4/3, 4/2 way • ISO sizes 06 ÷ 32

Qmax 1.500 l/min • Pmax 350 bar

FLOW CONTROLS

Pressure compensated speed controls. With or without LVDT transducers

2, 3 way • ISO sizes 06 ÷ 10

Qmax 90 l/min • Pmax 210 bar

PROPORTIONAL VALVES



HIGH PERFORMANCE PRESSURE RELIEF

With pressure transducer for best accuracy and repeatability

2 way • ISO sizes 06 ÷ 32 Qmax 600 l/min • Pmax 350 bar



With pressure transducer for best accuracy and repeatability

2, 3 way • ISO sizes 06 ÷ 20 Qmax 300 l/min • Pmax 350 bar



PRESSURE RELIEF

Without pressure transducer

2 way • ISO sizes 06 ÷ 32 Qmax 600 l/min • Pmax 350 bar

PRESSURE REDUCING

Without pressure transducer

2, 3 way • ISO sizes 06 ÷ 20 Qmax 300 l/min • Pmax 350 bar



PRESSURE RELIEF CARTRIDGES

High flow with compact block design. With or without pressure transducer

2 way • **ISO sizes** 16 ÷ 80 Qmax 4.500 l/min • Pmax 350 bar

PRESSURE REDUCING CARTRIDGES

High flow with compact block design. With or without pressure transducer

2 way • ISO sizes 16 ÷ 40 Qmax 800 l/min • Pmax 350 bar

PROPORTIONAL VALVES





SAFETY PROPORTIONALS

Directional valves integrating safety functions. IEC 61508 & ISO 13849 certified



EMERGENCY HAND LEVERS

Auxiliary manual override to operate the valve in case of emergency



DIN-RAIL ELECTRONIC DRIVERS

For directional, flow and pressure valves.

Off-board executions suitable for electrical cabinet installation in case of aggressive environments, excessive temperatures and vibrations



Muz-

AXIS & P/Q CONTROLS



AXIS CONTROLS

Servoproportional directional valves with on-board digital axis card

● 4/4, 4/3 way • ISO sizes 06 ÷ 35 Qmax 3.500 l/min • Pmax 350 bar

SERVOACTUATORS

Smart and compact units that integrate servocylinder and axis control valve to fully manage the motion cycle



P/Q CONTROLS

Force or pressure controls for servoproportional and high performance directionals

4/4, 4/3 way • ISO sizes 06 ÷ 35 Qmax 3.500 l/min • Pmax 350 bar

3 way • sizes 25 ÷ 80 Qmax 5.000 l/min • Pmax 420 bar



P/Q AXIAL PISTON PUMPS

High dynamics & accurate P/Q electronic control with power limiting

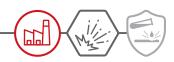
Pumps displacement 29 ÷ 140 cm³/rev Pmax 350 bar



DIN-RAIL AXIS CARDS

Off-board executions suitable for electrical cabinet installation. With or without valve drivers and P/Q control

ON-OFF VALVES





DIRECT SOLENOID DIRECTIONALS

DIN, AMP, Deutsch or lead wire connections. Low leakage and/or low power 8/15 W executions

● 4/3, 4/2, 3/2 way • ISO sizes 06 ÷ 10

Omax 150 l/min • Pmax 350/420 bar



PILOTED SOLENOID DIRECTIONALS

DIN, AMP, Deutsch or lead wire connections

4/3, 4/2, 3/2 way • ISO sizes 10 ÷ 32

Qmax 1.000 l/min • Pmax 350 bar



LEAK FREE

Directional solenoid valves with zero leakage

2, 3 way • sizes up to 1"5/16

Qmax 300 l/min • Pmax 350 bar



MECHANICAL, HYDRAULIC, PNEUMATIC

Mechanical, hydraulic or pneumatic operated

4/3, 4/2, 3/2 way • ISO sizes 06 ÷ 32

Qmax 1.000 l/min • **Pmax** 350 bar



ON-OFF VALVES



SAFETY DIRECTIONALS

With inductive sensors to monitor the spool position in compliance with Machine Directive 2006/42/EC

4/3, 4/2, 3/2 way • ISO sizes 06 ÷ 25 Qmax 700 l/min • Pmax 350 bar



PRESSURE RELIEF

Subplate, screw-in and in-line executions

2 way • sizes up to ISO 32 Qmax 600 l/min • Pmax 350 bar

PRESSURE REDUCING

2 way • ISO sizes 06 ÷ 32 Qmax 400 l/min • Pmax 350 bar

SEQUENCE & UNLOADING

2 way • **ISO** sizes 06 ÷ 32 Qmax 600 l/min • Pmax 350 bar



PRESSURE EQUIPMENT DIRECTIVE

Pressure relief valves PED certified. Subplate, screw-in and in-line executions

2 way • sizes up to ISO 32 Qmax 600 l/min • Pmax 420 bar



INTRINSICALLY SAFE

The electronic barrier limits the power to 2 W

Directional solenoid valves

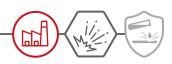
4/3, 4/2, 3/2 way • ISO sizes 06 ÷ 25 Qmax 700 l/min • Pmax 350 bar

Leak free solenoid valves

2, 3 way • ISO size 06

Qmax 12 l/min • Pmax 350 bar

ON-OFF VALVES











HIGH FLOW CARTRIDGES

Directional, pressure, flow & check controls

② way • ISO sizes 16 ÷ 100 Qmax 9.000 l/min • Pmax 420 bar

SAFETY CARTRIDGES

With functional covers integrating inductive sensor to monitor poppet position

2 way • ISO sizes 16 ÷ 100 Qmax 7.500 l/min • Pmax 420 bar

CHECK

Screw-in, subplate, in-line executions

2 way • sizes up to ISO 32

Omax 500 I/min • Pmax 350 bar

FLOW

Pressure compensated valves

2 way • ISO size 06

Qmax 24 l/min • Pmax 250 bar

Throttle valves

2 way • sizes G 3/8 ÷ G 1 1/4

Qmax 250 l/min • Pmax 400 bar

PRESSURE SWITCHES

Mechanical or electronic

MODULARS

Directional, flow, check, pressure relief, reducing, compensator and sequence controls



CYLINDERS



SQUARE HEADS

With tie-rods

ISO 6020-2 • bore Ø 25 ÷ 200 mm

Max speed 4 m/s • Pmax 250 bar

With counterflanges

ISO 6020-2/3 • bore Ø 63 ÷ 400 mm

Max speed 4 m/s • Pmax 250 bar



ROUND HEADS

With counterflanges

ISO 6020-1 • bore Ø 40 ÷ 200 mm Max speed 4 m/s • Pmax 250 bar

With counterflanges

ISO 6022 • bore Ø 50 ÷ 320 mm Max speed 4 m/s • Pmax 320 bar



SERVOCYLINDERS

Low friction with built-in position transducers. Safety executions integrate IEC 61508 certified transducers and/or rod locking systems



SPECIAL CYLINDERS

For demanding applications and harsh environments.

On request: ceramic rod treatments, Geomet coatings or stainless steel executions

PUMPS







VANES

Fixed displacements 10 ÷ 150 cm³/rev

Pmax 210/300 bar

RADIAL PISTONS

Fixed displacements 2 ÷ 25 cm³/rev

Pmax 350/500 bar

AXIAL PISTONS

Pressure, flow, load sensing, constant power or P/Q controls

Variable displacements 29 ÷ 140 cm³/rev Pmax 350 bar

MULTIPLE

Modular assembly with fixed or variable displacement pumps for flexible hydraulic power management

FILTERS





IN LINE

Filtration ratings F03 ÷ F10

Qmax 340 l/min • Pmax 420 bar

RETURN LINE

Filtration ratings F10 ÷ F25

Qmax 550 l/min • Pmax 10 bar

SUCTION

Filtration ratings W125

Qmax 450 l/min

SYSTEMS





POWER UNITS

For industry, Oil&Gas, energy and marine sectors. Engineered for 24/7 operation, remote control and energy saving

Certified according to PED or Machine Directive, conform to CE regulations

Stainless steel executions for operations in aggressive environments or with water-based fluids.

Certified by ABS, BV, DNV GL, RMRS, RINA, CCS, DEKRA, TÜV



BLOCKS

Standard or special executions with CE, PED or safety certifications. Cast iron, stainless steel, carbon steel or aluminium alloy



MODULAR GROUPS

Modular compositions obtained by assembling ISO standard components

THE ATOS WAY

SOLUTION PROVIDER

Strong electrohydraulic experience makes Atos the ideal partner for the selection of innovative systems aimed at improving the machinery performance, also meeting special requirements

SERVICE CENTERS



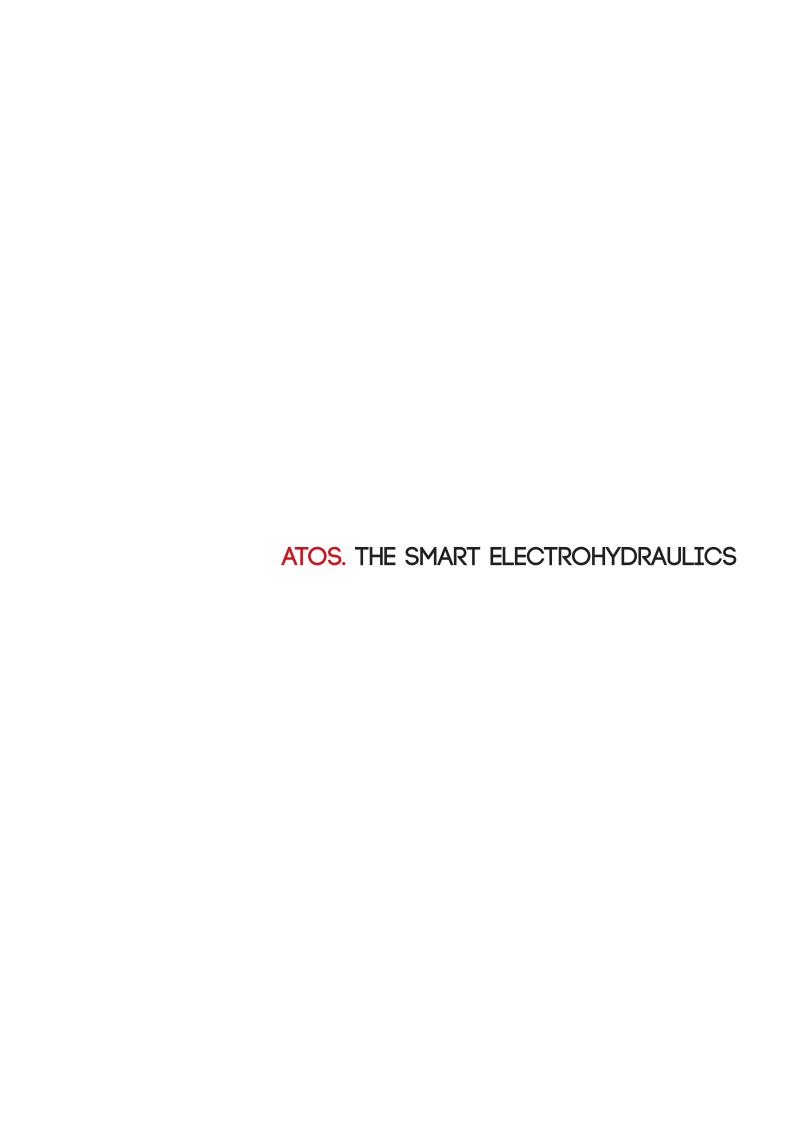
Thanks to the worldwide network of official service centers, Atos provides high-level after-sales technical support. The highly qualified staff is trained to provide overhaul and repair services on the whole product range, using only original spare parts covered by warranty

SEMINARS & TRAININGS

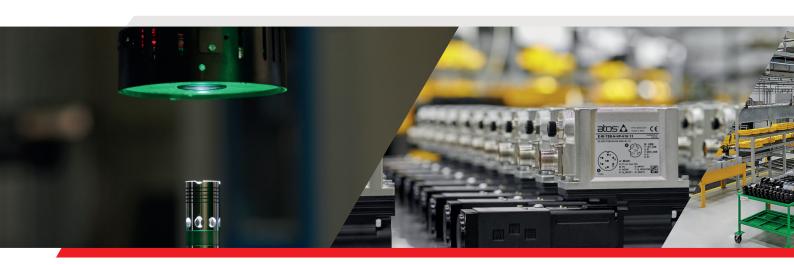
Atos provides continuous technical training for internal personnel and customers through specific seminars covering the latest developments in electrohydraulics











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