



ATLANTIC

Fluid Tech

Company Profile

Innovative & High
Performance Hydraulics



Our History

Our company was founded in 1979 under the name **CHS** with the aim of manufacturing blocks in aluminium, steel and cast iron, dedicated specifically to the hydraulic market. During the 90's CHS also specialised in the production, assembly and testing of finished valves. In 2011 the new name of **Atlantic Fluid Tech** was assumed after the acquisition of the parent company.



+300

People

Working in our companies

6

Plants

For an overall covered
surface of 15,400 sqm

10%

Investment in Research &
Development each year

To be leader in a fast
developing world

28million

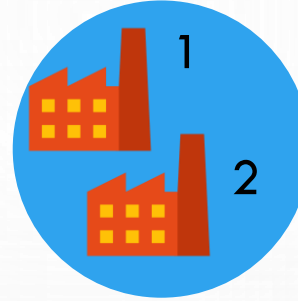
Turnover

Consolidated Group
sales related to Year
2019

Our Group

With 4 sister companies, 2 main manufacturing plants in Italy and 6 subsidiaries in Europe and Asia, AFT is one of the most fully-integrated groups developing and producing 100% Made in Italy hydraulic components.

Headquarter and main
manufacturing plants



CTB

Heat treatments and
thermal deburring Plant

TT

Turned parts



Satellite
manufacturing plants

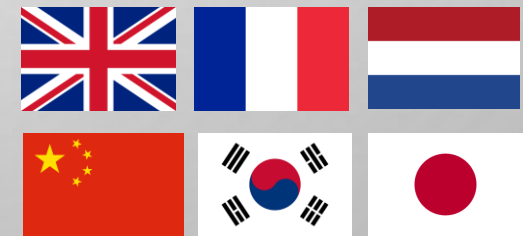
CarTech
Cartridges



Subsidiaries with local
sales, technical
support and stock

SIMAL

Manifolds



C.H.S. Foundation

Manufacturing, assembling and testing of **hydraulic valves and integrated circuits** for third parties hydraulic manufacturers



The Beginning

1979

The Challenge

2008



Atlantic Fluid Tech Foundation

Design, development and sales of hydraulic valves and integrated circuits

AFT LTD UK Foundation

Local sales and technical support



The First Branch

2009

The Expansion

2010



Turning Tech foundation

Manufacturing of hydraulic components, **turning, grinding and lapping**

AFT and C.H.S. merging

Development, manufacturing and sales of hydraulic valves and integrated circuits



AFT BV BENELUX Foundation

Local sales and technical support

The Merge & 2nd Branch

2011

The NewCo & 3rd Branch

2013



Manufacturing, and testing of hydraulic and solenoid operated **cartridges**

AFT FRANCE Foundation

Local sales and technical support

Thursday, August 6, 2020 support 5

WHO WE ARE - MILESTONES IN OUR STORY

AFT Co. LTD China and
AFT LLC South Korea
foundation

Local sales and technical support



The 4th and 5th Branches

2014

The 6th Branch

2016



AFT KK Japan
foundation

Local sales and technical support

SIMAL acquisition

Manufacturing of
hydraulic blocks



The Acquisition

2017

The 2nd Plant

2019



Second Plant
of AFT Italy

New Assembling and
Testing line

New Plant of
TT and Cartech

Development,
manufacturing and sales of
hydraulic valves and
integrated circuits



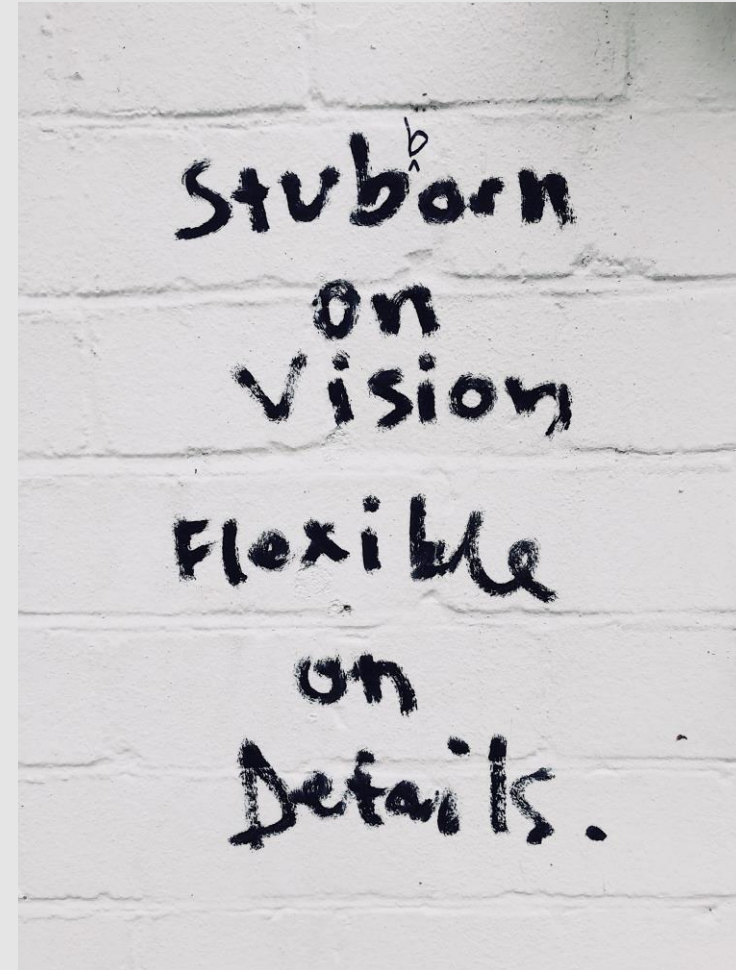
Two more new plants

2020

Our Vision

Our company was founded and has developed with the aim of capitalizing and enhancing its Entrepreneurial Tradition as well as the Technical Heritage and Expertise of its human resources.

This will continue to be our aspiration in the future.



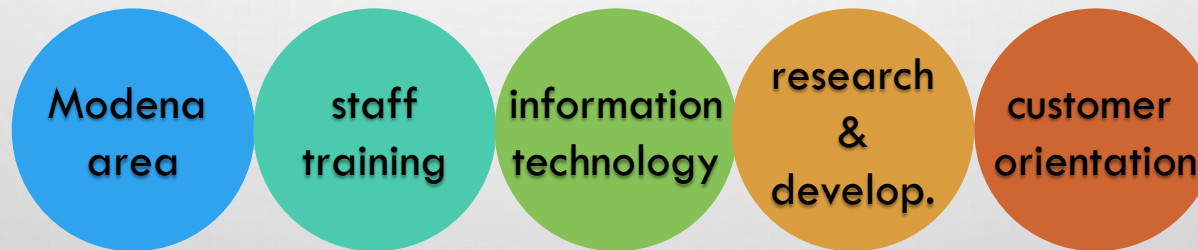
Our strengths

Our land, Modena, is an area of excellence in mechanics and has got a long tradition in the hydraulic industry.

That's why we can count on high-qualified local suppliers. Training of our staff is continuous and our advanced level of IT in all company dept's cuts down repetitive work, thus allowing our personnel to focus on more challenging tasks.

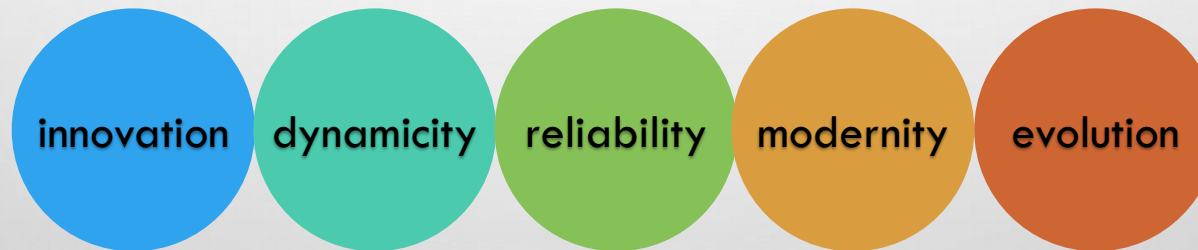
Our co-operation and support to major Engineer Universities and to the University Master in Hydraulics in particular, aim to educate tomorrow's engineers in the field and to enhance our commitment to R&D in products and processes.

Because being innovative and problem-solving is our way to serve our customers.



Our company values

Since ever we pursue the concept of innovation in products development and this makes us one of the most dynamic and reliable manufacturers in the field. The modernization of the internal processes and the application of state-of-the-art concepts of Industry 4.0 have driven the growth of our company and will continue to be part of our strategy in the years to come.



Sustainability

Our commitment in Atlantic Fluid Tech is to our customers, our employees and the environment.

That's why since 2008 the company has started an important Certification process to improve and keep monitored its Management System. In May 2015, we got in particular the ISO 14001:2015 Environmental Management System Certification: a real commitment to reduce environmental impact of its activities and to spread sustainability principles in its organization. Final goal is to develop production processes in a sustainable way, retaining the utmost respect for environmental compatibility.



MANAGEMENT SYSTEM CERTIFICATE

Certificato no./Certificate No.: 61586-2009-AQ-ITA-SINCENT Data prima emissione/Initial date: 14 settembre 2009 Validità/Valid: 14 settembre 2015 - 14 settembre 2018

Si certifica che il sistema di gestione di/This is to certify that the management system of

Atlantic Fluid Tech S.r.l.

Via della Meccanica, 50 - 41018 San Cesario S/P (MO) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione Qualità/
has been found to conform to the Quality Management System standard:

UNI EN ISO 9001:2015 (ISO 9001:2015)

Questa certificazione è valida
per il seguente campo applicativo:

Progettazione, produzione ed assistenza di
valvole e gruppi integrati per
l'oleodinamica. Produzione ed
assemblaggio di componenti e valvole
oleodinamiche su specifica cliente

(Settore EA: 17 - 18)

This certificate is valid
for the following scope:

Design, manufacturing and after-sales
services of oleodynamic valves and integrated
groups. Production and assembly of hydraulic
valves and components based on customer
specification

(EA Sector: 17 - 18)

Luogo e Data/Place and date:
Vimercate, 31 ottobre 2017



Per l'Organismo di Certificazione/
For the Certification Body

Nicola Privato
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione/
Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Italia S.r.l. Via Energy Park, 34, 20073 Vimercate (MB), Italy. Tel: 039 68 99 995, www.dnvgl.it/assurance

MANAGEMENT SYSTEM CERTIFICATE

Certificato no./Certificate No.: 11999-2015-AM-ITA-ACC2000A Data prima emissione/Initial date: 27 maggio 2015 Validità/Valid: 27 maggio 2018 - 27 maggio 2021

Si certifica che il sistema di gestione di/This is to certify that the management system of

ATLANTIC FLUID TECH S.r.l.

Via della Meccanica, 50 - 41018 San Cesario Sul Panaro (MO) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione Ambientale/
Has been found to conform to the Environmental Management System standard:
ISO 14001:2015

Valutato secondo le prescrizioni del Regolamento Tecnico RT-09/
Evaluated according to the requirements of Technical Regulations RT-09

Questa certificazione è valida
per il seguente campo applicativo:

Progettazione, produzione ed assistenza di
valvole e gruppi integrati per
l'oleodinamica. Produzione ed
assemblaggio di componenti e valvole
oleodinamiche su specifica del cliente
Processi di lavorazioni meccaniche,
lavoraggio e assemblaggio
(EA: 17, 18)

This certificate is valid
for the following scope:

Design, manufacturing and after-sales
services of oleodynamic valves and integrated
groups. Production and assembly of hydraulic
valves and components based on customer
specification. Processes: machining, cleaning
and assembling
(EA: 17, 18)

Luogo e Data/Place and date:
Vimercate (MB), 24 aprile 2018



Per l'Organismo di Certificazione/
For the Certification Body
DNV GL - Business Assurance
Via Energy Park, 34 - 20073 Vimercate
(MB) - Italy

Anna Belloni
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione/
Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Italia S.r.l. Via Energy Park, 34 - 20073 Vimercate (MB) - Italy. Tel: 039 68 99 995, www.dnvgl.it

MANAGEMENT SYSTEM CERTIFICATE

Certificato no./Certificate No.: 11999-2015-AM-ITA-ACC2000A Data prima emissione/Initial date: 27 maggio 2015 Validità/Valid: 27 maggio 2018 - 27 maggio 2021

Si certifica che il sistema di gestione di/This is to certify that the management system of

ATLANTIC FLUID TECH S.r.l.

Via della Meccanica, 50 - 41018 San Cesario Sul Panaro (MO) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione della Salute e Sicurezza sul Lavoro/
has been found to conform to the Occupational Health and Safety Management System standard:
OHSAS 18001:2007

Valutato secondo le prescrizioni del Regolamento Tecnico RT-12/
Evaluated according to the requirements of Technical Regulations RT-12

Questa certificazione è valida
per il seguente campo applicativo:

Progettazione, produzione ed assistenza di
valvole e gruppi integrati per
l'oleodinamica. Produzione ed
assemblaggio di componenti e valvole
oleodinamiche su specifica del cliente
Processi di lavorazioni meccaniche,
lavoraggio e assemblaggio
(EA: 17 - 18)

This certificate is valid
for the following scope:

Design, manufacturing and after-sales
services of oleodynamic valves and integrated
groups. Production and assembly of hydraulic
valves and components based on customer
specification. Processes: machining, cleaning
and assembling
(EA: 17 - 18)

Luogo e Data/Place and date:
Vimercate (MB), 18 maggio 2018



Per l'Organismo di Certificazione/
For the Certification Body
DNV GL - Business Assurance
Via Energy Park, 34 - 20073 Vimercate
(MB) - Italy

Anna Belloni
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione/
Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Italia S.r.l. Via Energy Park, 34 - 20073 Vimercate (MB) - Italy. Tel: 039 68 99 995, www.dnvgl.it

Our Quality Certifications

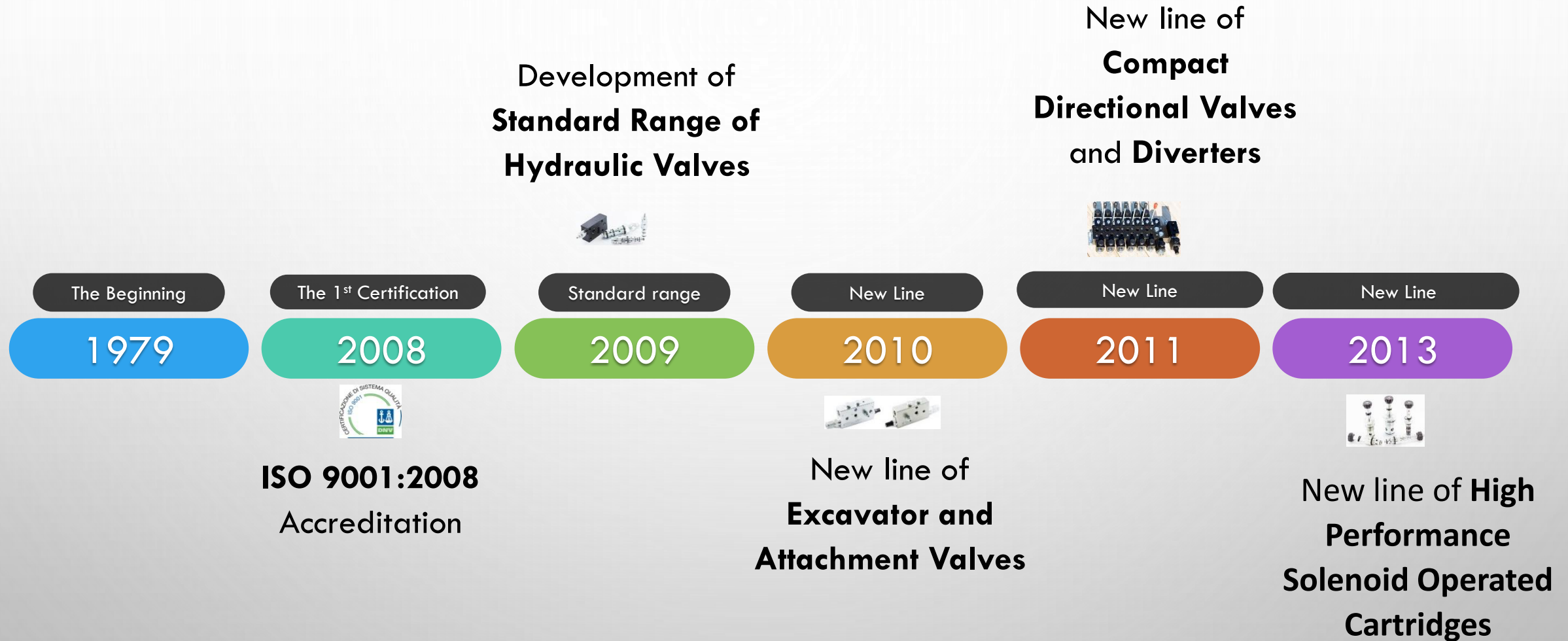
ISO 9001:2015
Achieved in Sept. 2009

ISO 14001:2015
Achieved in May 2015

ISO 45001:2018 (formerly BS OHSAS¹¹
18001:2007) Achieved in May 2015

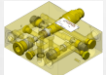


WHAT WE DO – TECHNICAL MILESTONES



WHAT WE DO – TECHNICAL MILESTONES

New line of **Fan Drive Solutions and Gravity Lowering LHV for Telehandlers**



New Line

2014

New Certifications

2015



ISO 14001:2004
OHSAS 18001:2007
Accreditations

New generation of **Excavator Valves**



New Line

2017

New line of **Gravity Lowering LHV for Aerial Work Platforms**

New Line & Prize

2019

“Innovation in components for operational dynamics” Award for AFT Gravity Lowering Valve

Certification Upgrade

2020



ISO 45001:2018
(Upgrade of previous OHSAS 18001:2007)

Thursday, August 6, 2020

14

20

Engineers and CAD designers

To constantly assist our
customers in a problem-
solving approach

9

3D CAD Design Stations

With Solid Works and a
integrated PDM system
connected to ERP system

+6,700

New projects

Developed by our
engineering dept. in
11 years, 650 of which
only in 2019

16

European Patents

Developed and
registered in 9 years



Engineering

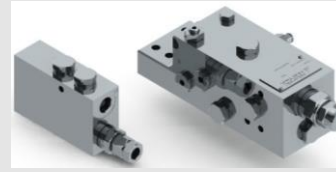
Innovative methods and processes allow a
high performance index in engineering:

- MTTF / MTTFd / β_{10} method (since 2011)
- a dedicated software (Minitab) to calculate
product reliability (since 2012)
- a CRM software for new products
development to respect timing and targets
(since 2015)
- 1 workstation with CFD simulation system
- 1 workstation with FEM simulation system

In AFT plants

Engineering, manufacturing and sales of hydraulic valves

- in an overall surface of 4500 sqm
- equipped with 15 CNC machines
- with 150 employees



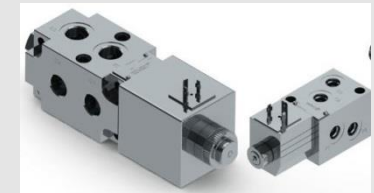
Check metering valves for excavators



Valves for attachments



Flow control and flow divider valves



Diverter valves



Pilot operated check valves



Overcentre valves



Regenerative valves



Valves for hydraulic motors

In Cartech plant

Assembling and testing of cartridge type valves

- in an overall surface of 1700 sqm
- equipped with 5 test benches
- with 25 employees



Overcentre valves cartridge



Flow control and flow divider valves cartridge



Solenoid operated valves cartridge



Proportional valves cartridge



Check valves cartridge



Pilot operated check valves - cartridge



Relief valves cartridge



Pressure reducing valves - cartridge

In TT plant

Turning, grinding and lapping of internal parts

- in an overall surface of 1700 sqm
- equipped with 8 CNC machines
- with 21 employees



Lapping



Grinding



Pistons



Seats



Cartridge's bodies

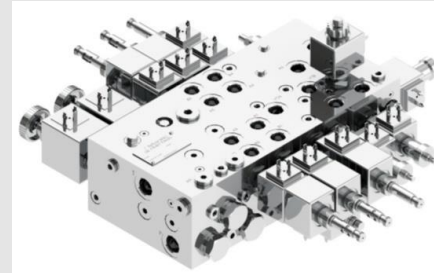
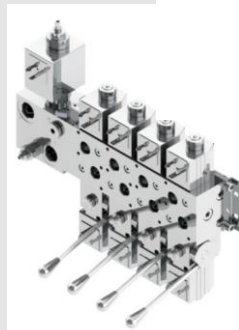


Turned parts in general

In Simal plant

Manufacturing of hydraulic manifolds

- in an overall surface of 1500 sqm
- equipped with 4 CNC machines
- with 20 employees

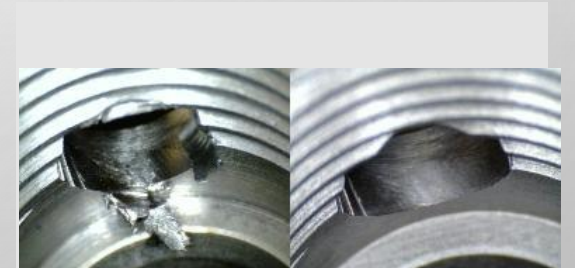


Lapping

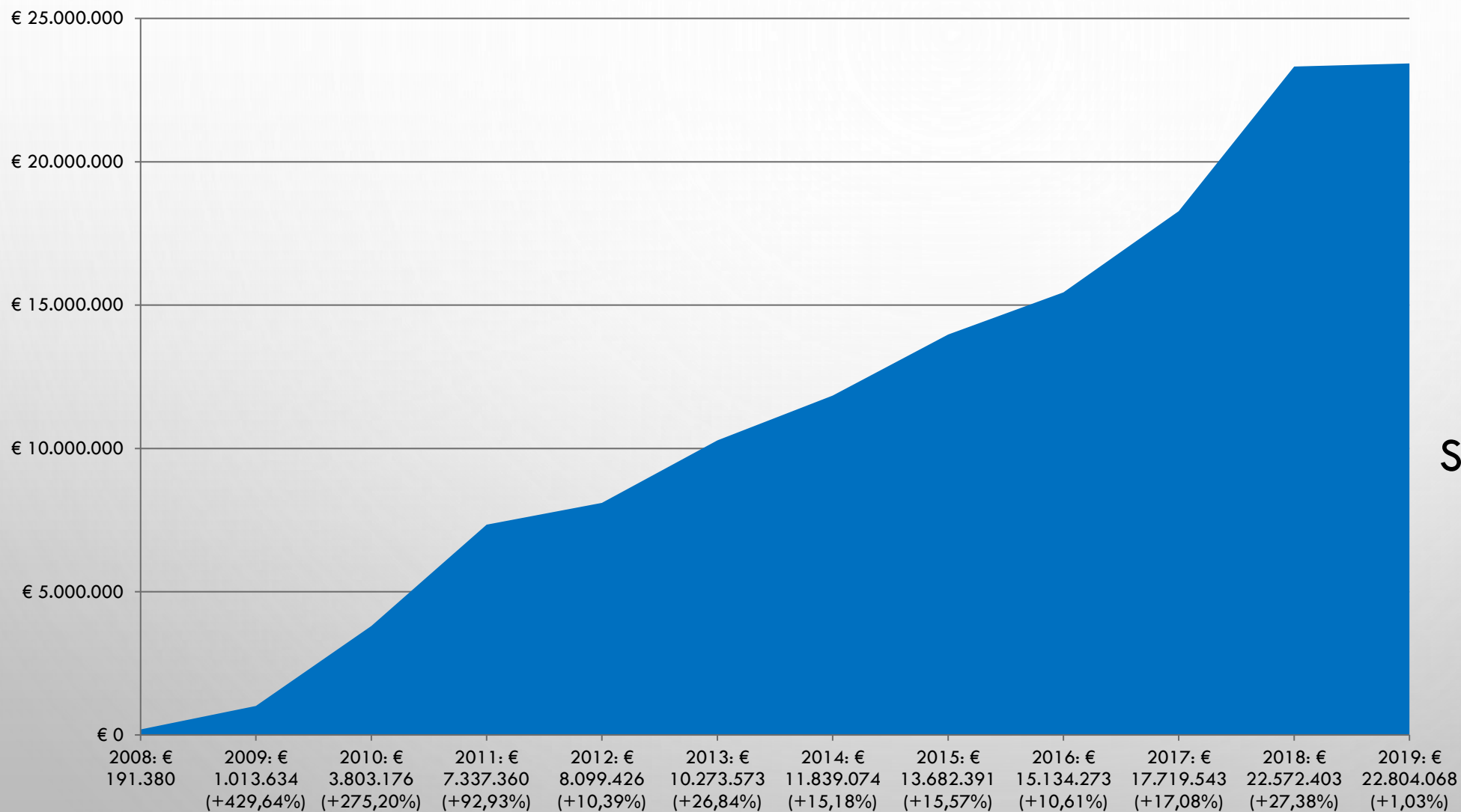
In CTB plant

Hardening heat treatments and thermal deburring

- in an overall surface of 3500 sqm
- with 80 employees

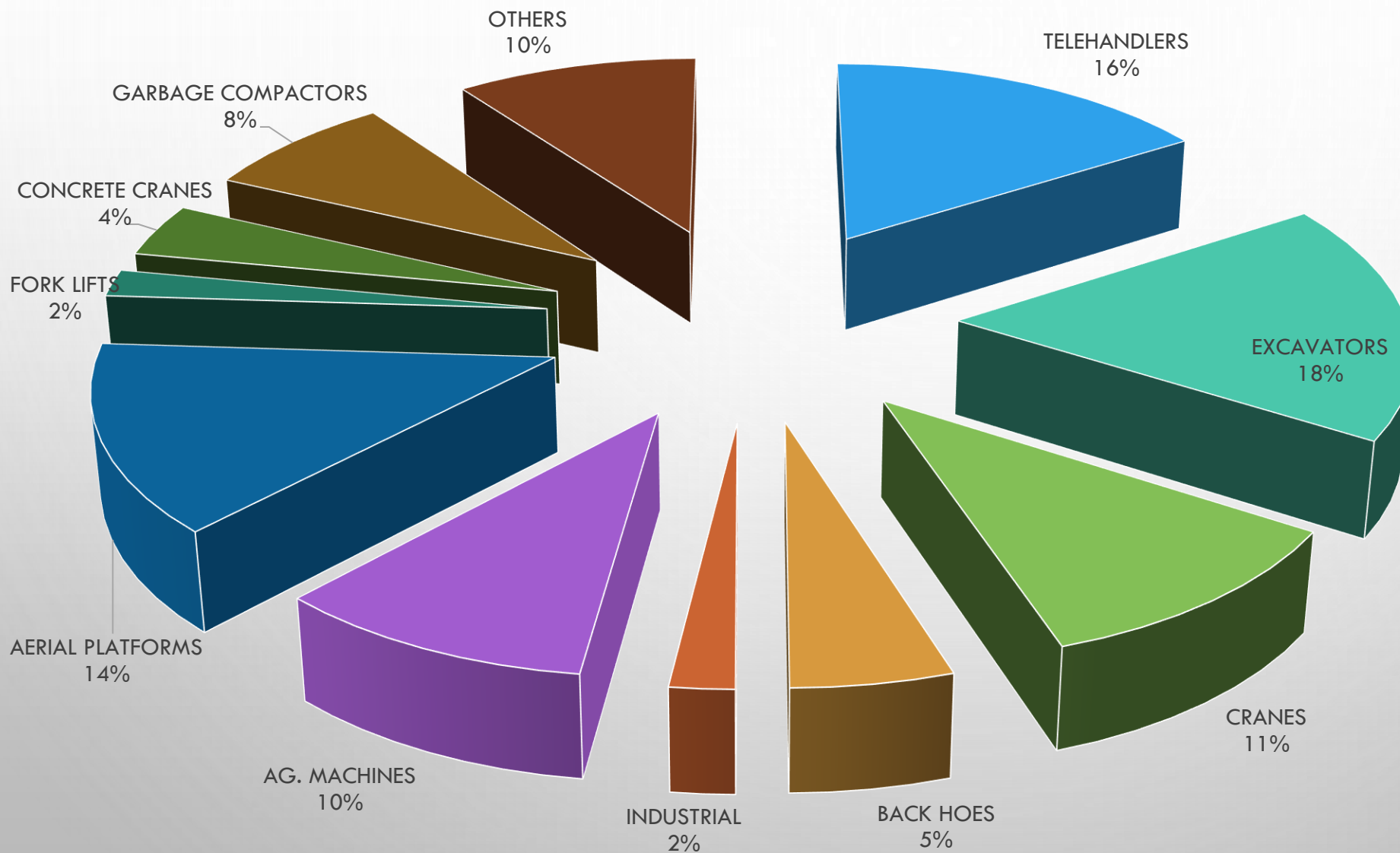


HOW WE HAVE DEVELOPED



AFT Sales
Since 2008 to date

HOW WE HAVE DEVELOPED



AFT Sales

By market segments
Year 2019

CNC machines

In our manufacturing plants we work:

- Aluminium
- Steel (normal and weldable)
- Cast iron



State-of-the-art storage and control equipment





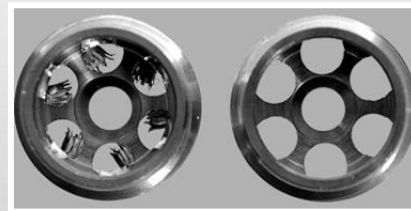
Washing Machine



Thermal Deburring



Manual Deburring





Centralized recycling system for drilling water-glycol liquids



IoT connected CNC Machines (AFT Engineered – Arduino Powered) declare parts and quantities autonomously
Operator has self-check instruments right on the machine



Mori Seiki and Kiwa multi-pallet horizontal machine

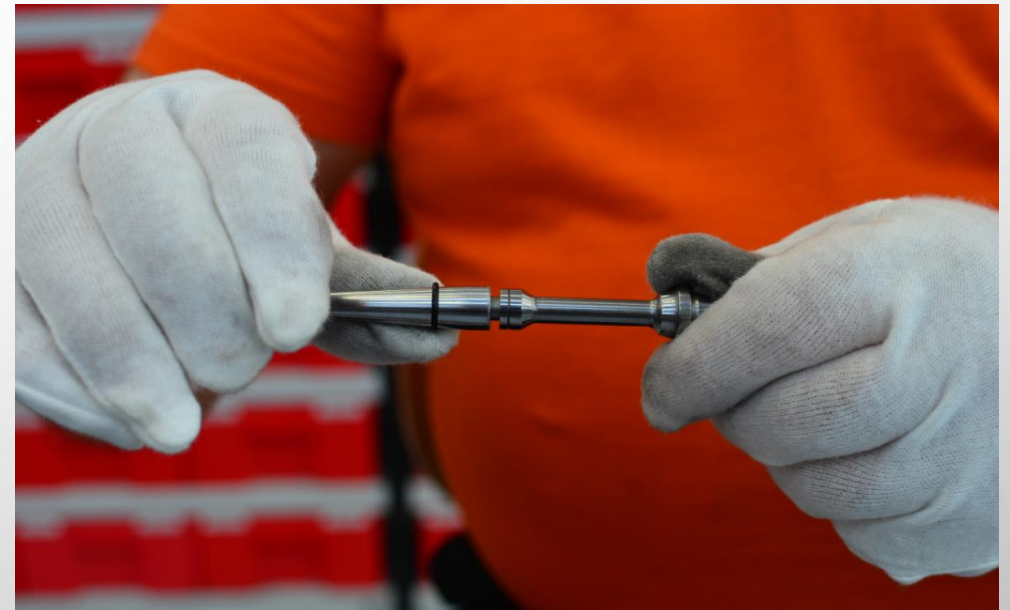
-15 horizontal CNC machines²⁶
-92 pallets

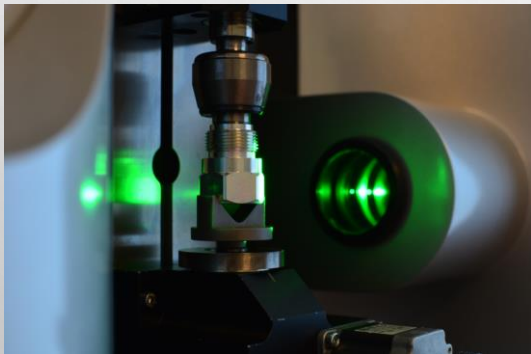
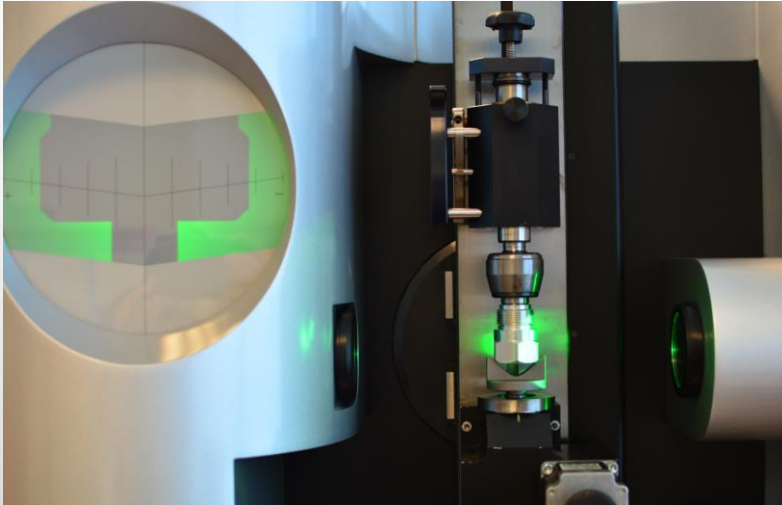


Brushing

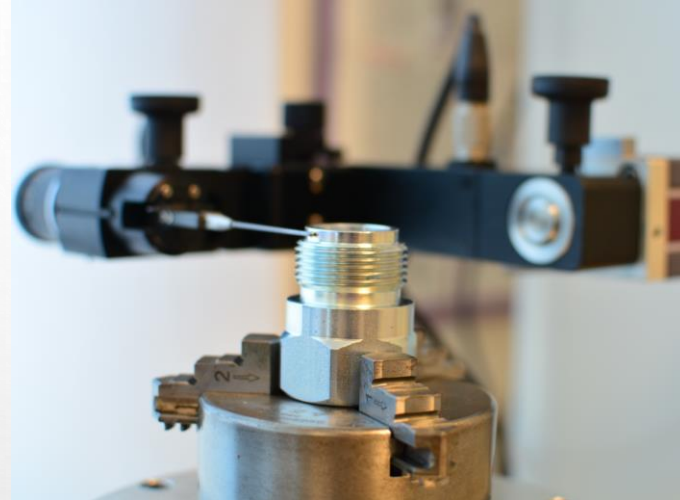


O-ring pre-fitting





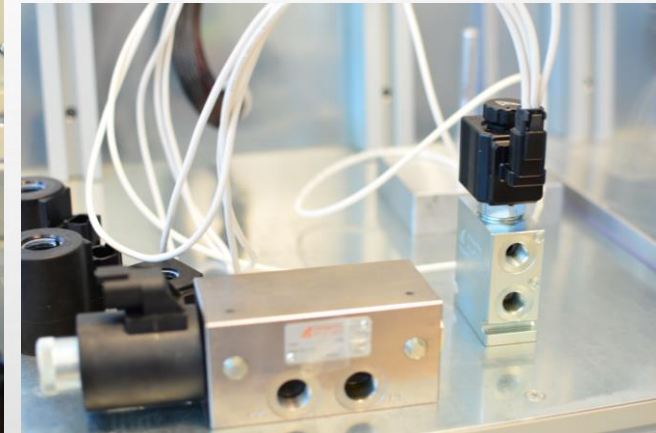
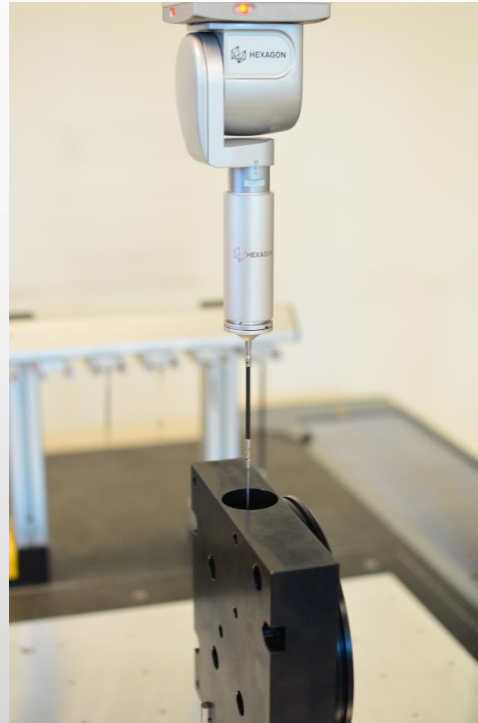
Metrological Lab and
Quality Control



Machine to control roundness
and concentricity (0.1 microns
precision)

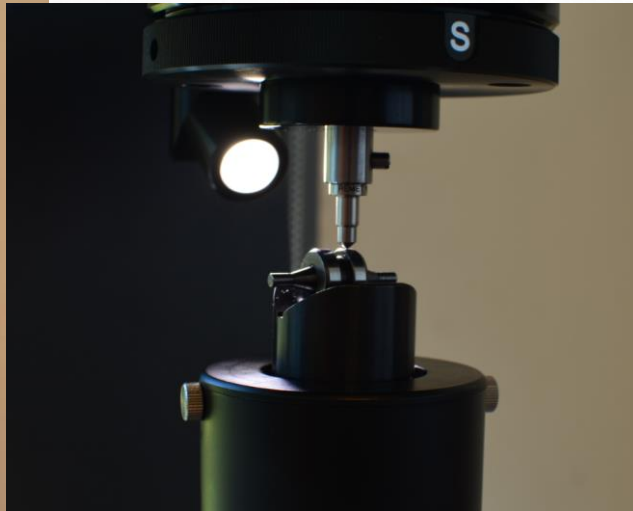


Coordinate Measuring Machine

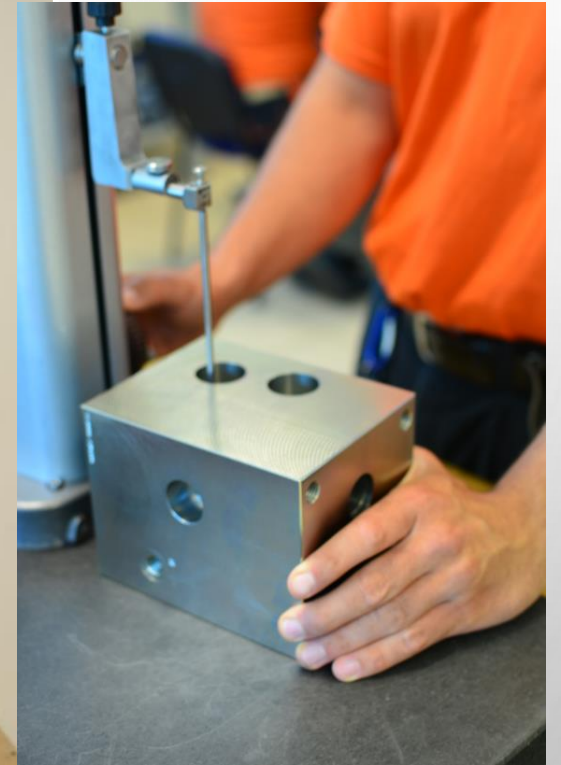


Surge Test

Metrological Lab and
Quality Control



- Hardness
Control Machine



- Machine to check
cavities of the manifolds



- Microscope and endoscope



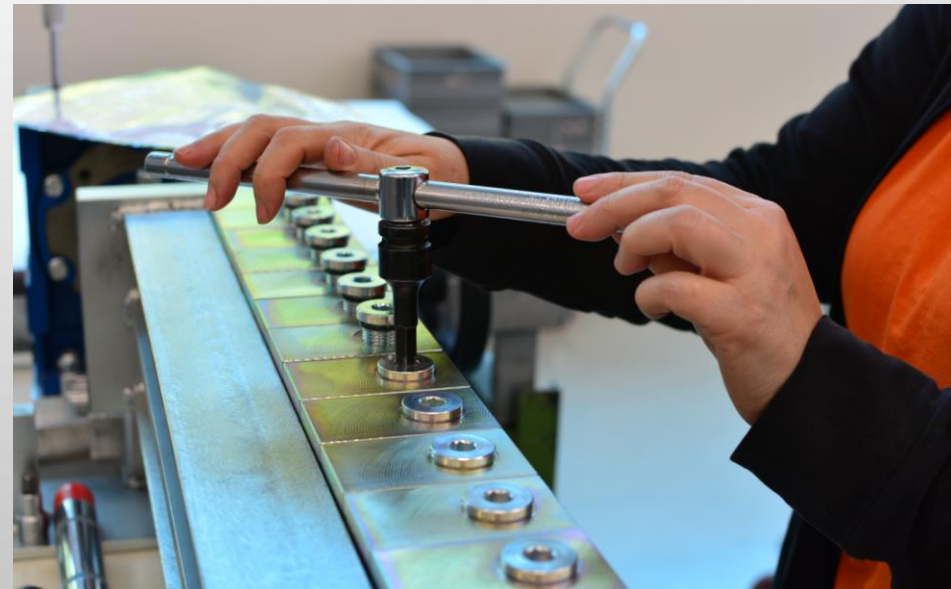
Dynamometric press, to control
springs and solenoid valves
pulling/pushing force

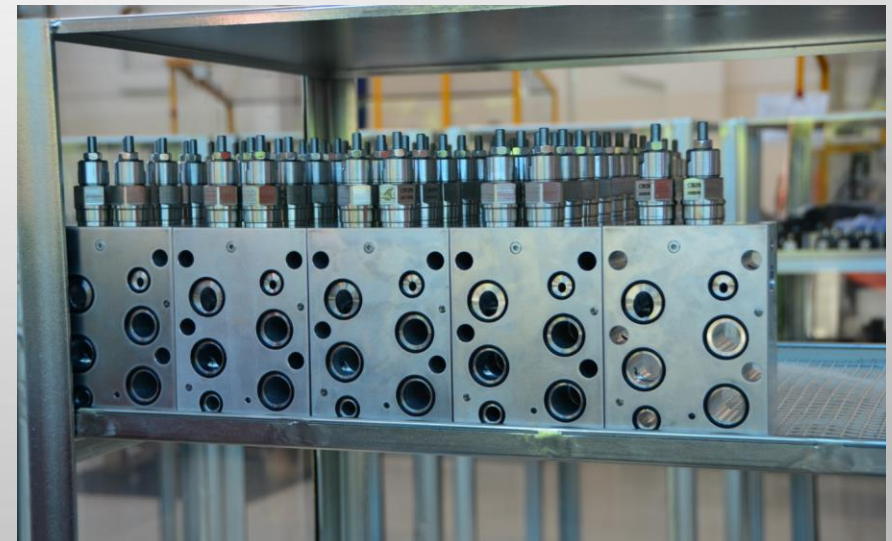
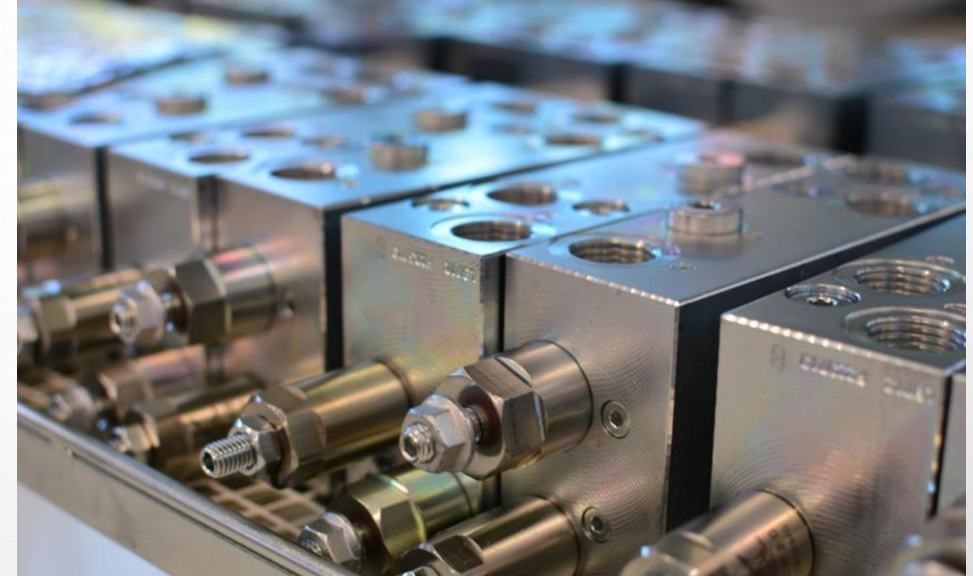


Machine to control sharpness and
profile of the drilling tools and to fix
them on the tool holder

Assembly Area

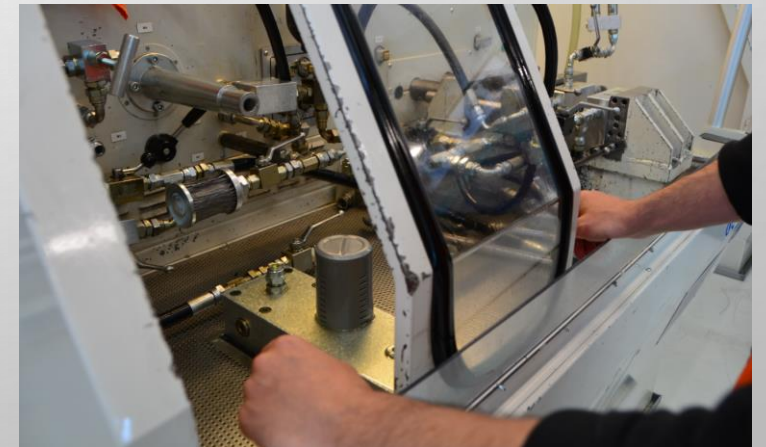
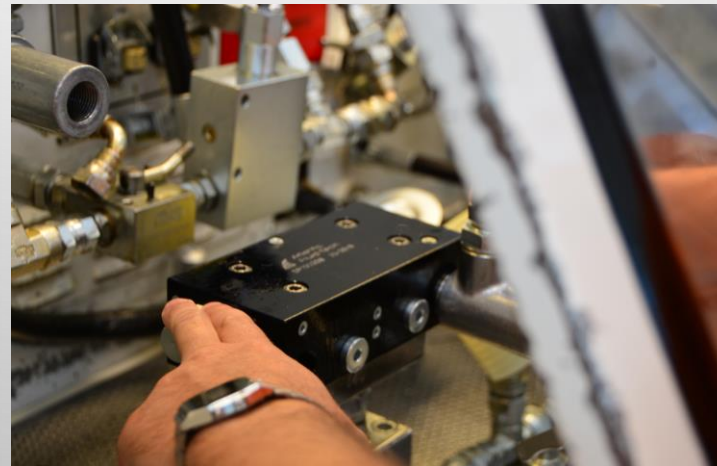
All torques are applied with certified dynamometric wrenches





Testing Area

**All products are 100%
hydraulically tested**
Hydraulic testing rigs are
computer-assisted



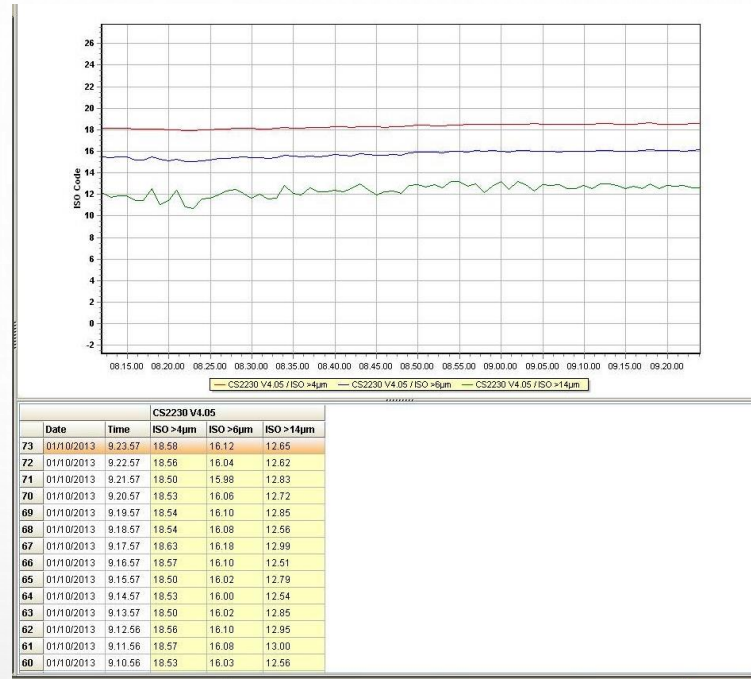
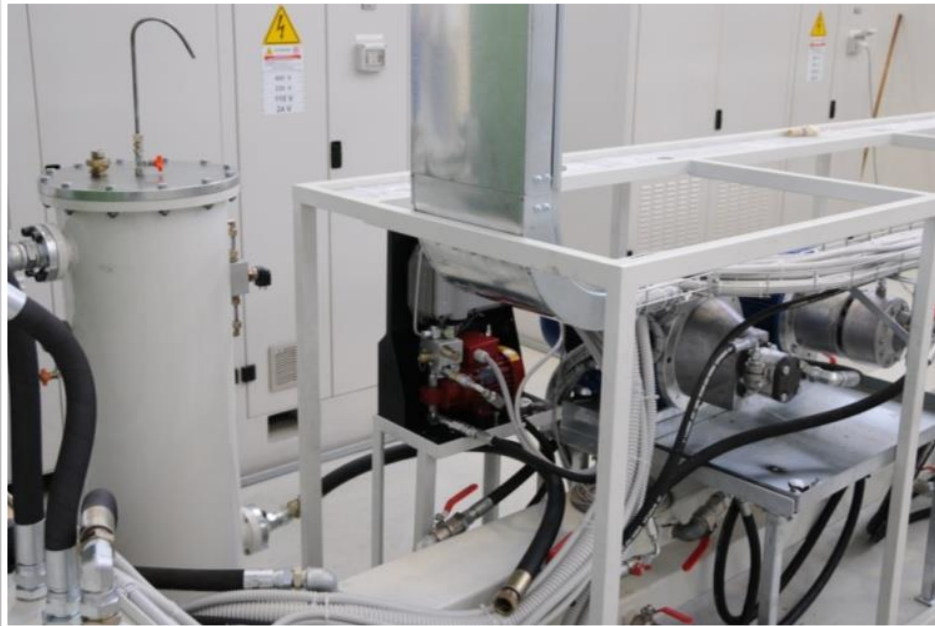
Testing Area

Leakage tests are carried out also with pneumatic equipment



Testing Area

- Real time contamination monitoring
- Centralized hydraulic circuit for all test benches



Research & Development

Top-performance functional test bench permanently connected to data acquisition software: 700 l/min with top power motor



Research & Development

- Test bench with 600 l/min/700 bar
- Portable data acquisition equipment for field tests



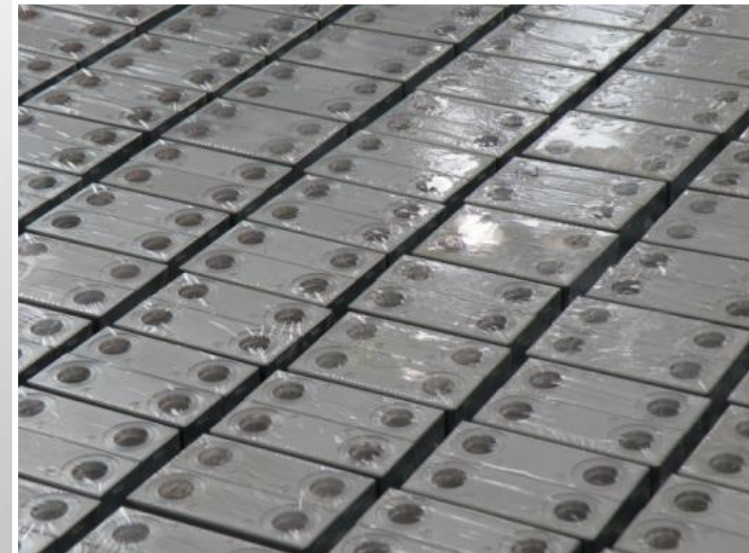
Research & Development

- Endurance test equipment 700 bar
- Burst test equipment 1850 bar



Storage

Vertical automatic storage system for components and cartridges



Storage

Shelf storage system for manifolds and finished valves



Main applications



Main applications



Main applications



WHO WE SERVE (DIRECTLY OR THROUGH DISTRIBUTORS)

AERIAL PLATFORMS



EXCAVATORS



MINI EXCAVATORS



TELEHANDLERS



WHO WE SERVE (DIRECTLY OR THROUGH DISTRIBUTORS)

GARBAGE DISPOSAL AND SANITATION



FORK LIFTS AND ATTACHMENTS



AGRICULTURAL MACHINES



AT & RT CRANES



WHO WE SERVE (DIRECTLY OR THROUGH DISTRIBUTORS)

HOOK LIFT LOADERS



DRILLING MACHINES



CONCRETE PUMP CRANES



SCRAP LOADERS



WHO WE SERVE (DIRECTLY OR THROUGH DISTRIBUTORS)

BACK-HOES, SKID STEERS



Mecalac



MULTI ONE

AIRPORT MACHINES



LORRY CRANES



CRAWLER CRANES



WHO WE SERVE (DIRECTLY OR THROUGH DISTRIBUTORS)

SWEEPERS



SALT SPREADERS





ATLANTIC

Fluid Tech

Thank you
for your attention

Follow us on   
Atlantich Fluid Tech

