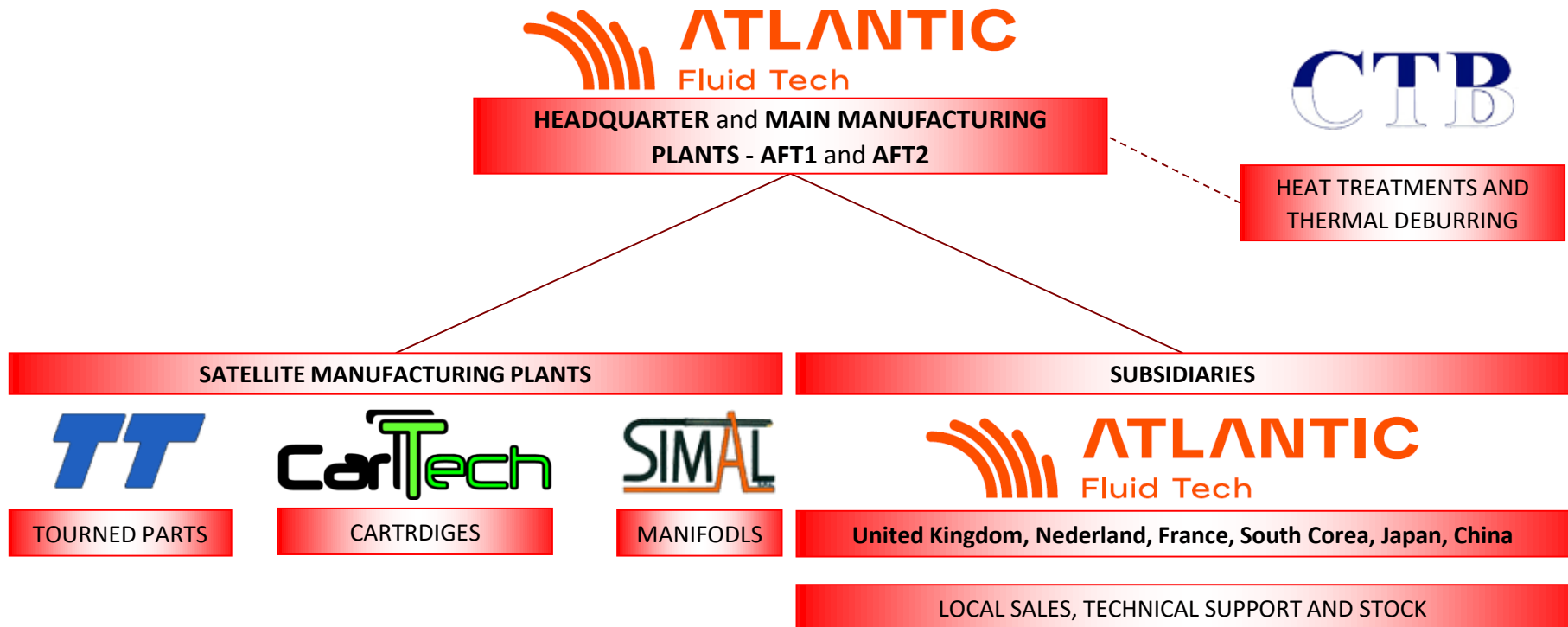
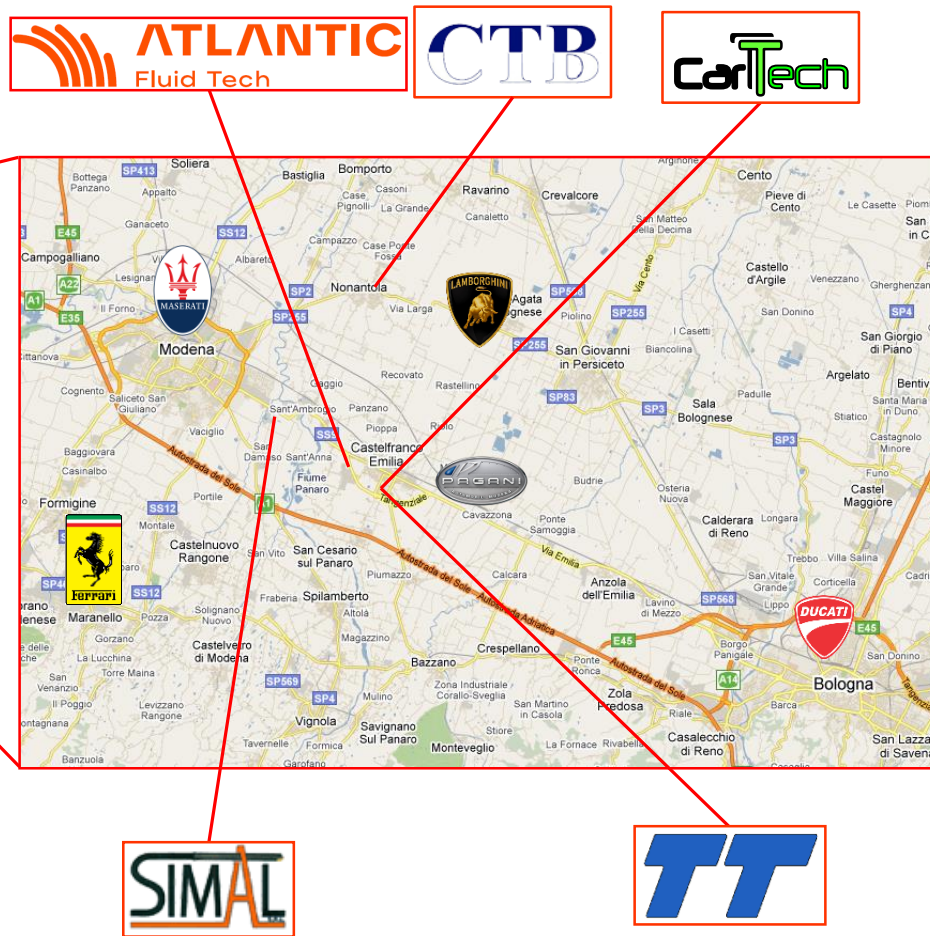
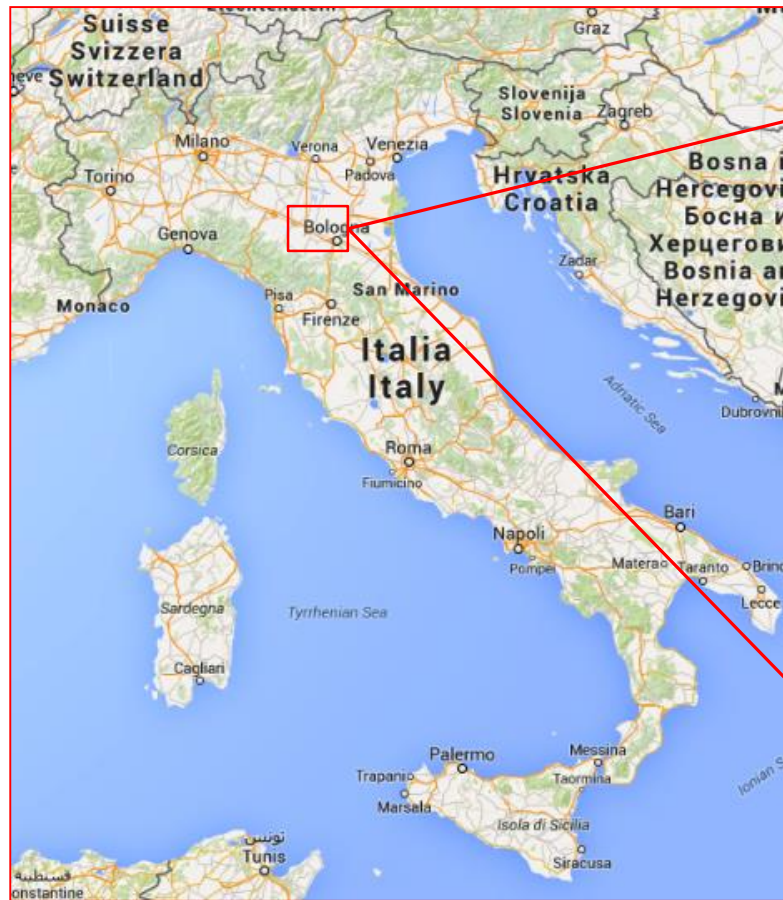


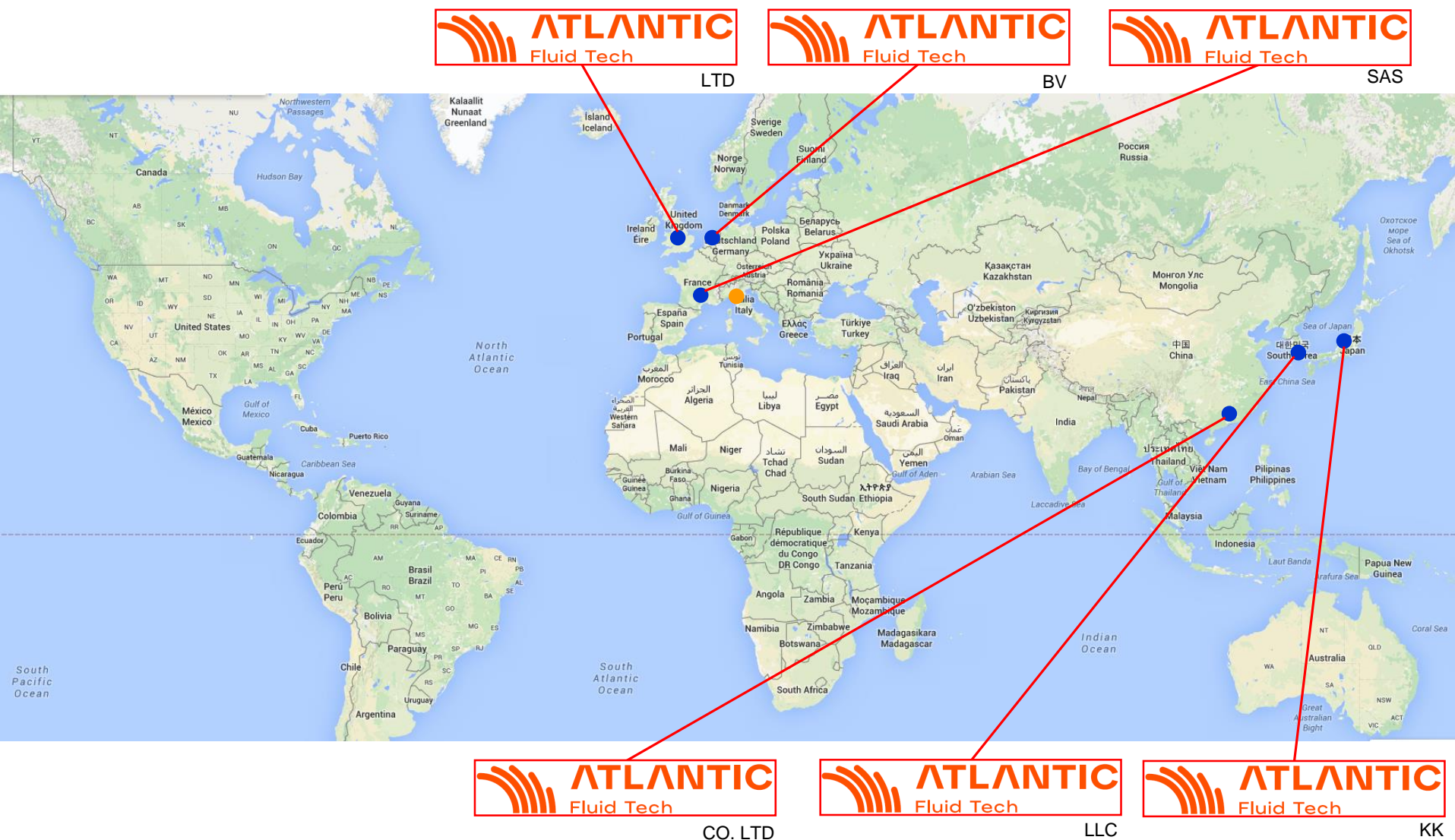


„Innovative & High Performance Hydraulics”





Group of more than 300 people and 5 plants of 4500+2500 sq meters (AFT), 1700 (TT), 1700 (Cartech), 1500 (Simal) and 3500 (CTB)



● Manufacturing Plants (Atlantic Fluid Tech, Cartech, Turning Tech, Simal, CTB)



07/1979:
C.H.S. foundation



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

06/2009:
AFT LTD UK foundation



Local sales and technical support

02/2011:
AFT and CHS merging



Development, manufacturing and sales of hydraulic valves and integrated circuits

04/2011:
AFT BV Benelux foundation



Local sales and technical support

01/2008:
Atlantic Fluid Tech foundation



Design, development and sales of hydraulic valves and integrated circuits

07/2010:
Turning Tech foundation



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

02/2013:
AFT SAS France foundation



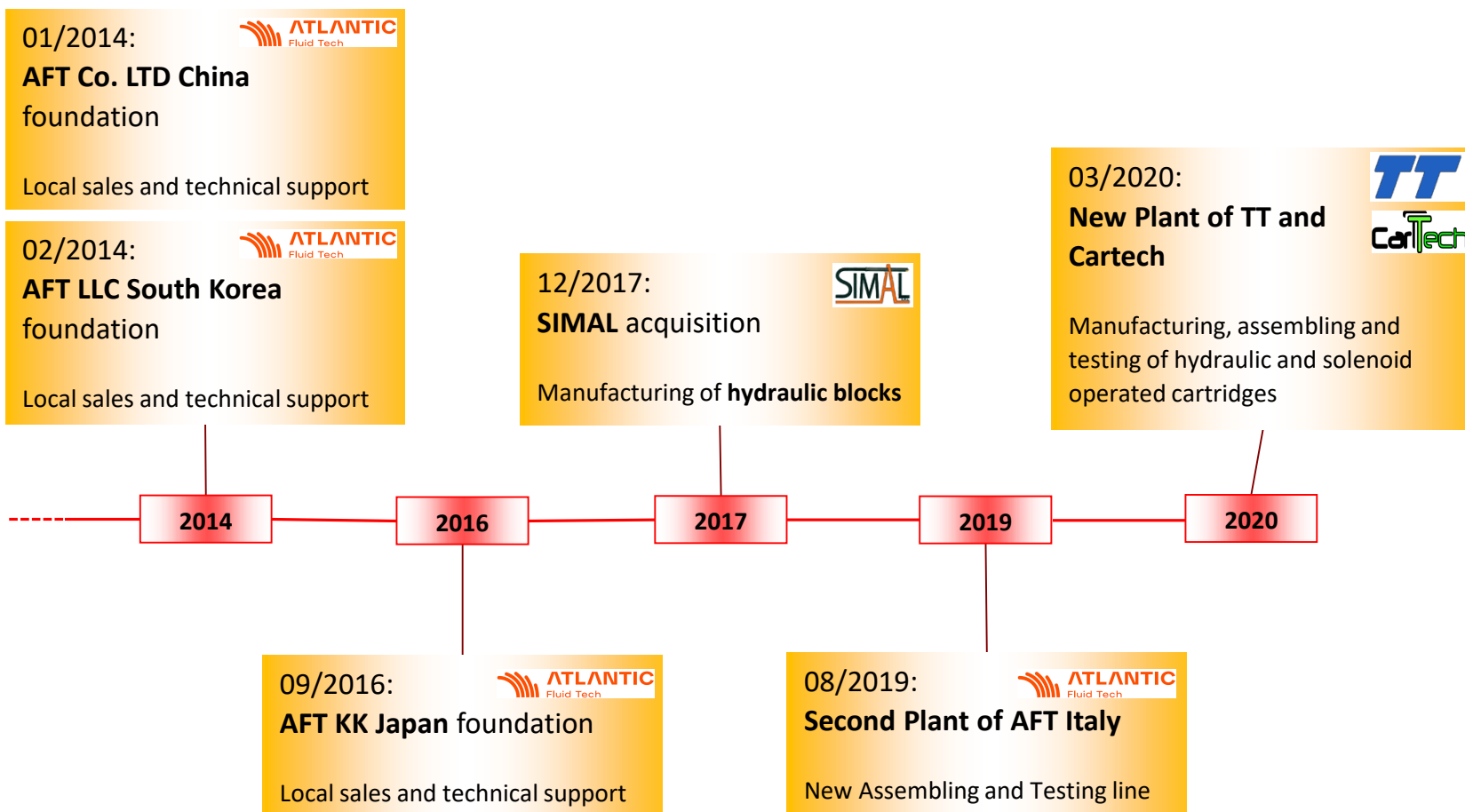
Local sales and technical support

11/2013:
Cartech foundation



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





2009:



Development of **Standard Range of Hydraulic Valves**

2011:



New line of **Compact Directional Valves and Diverters**

2013:



New line of **High Performance Solenoid Operated Cartridges**

05/2015:



ISO 14001:2004
OHSAS 18001:2007
Accreditations

1979

2008

2009

2010

2011

2012

2013

2014

2015

2017

07/2008:



ISO 9001:2008
Accreditation

2010:



New line of **Excavator and Attachment Valves**

2014:



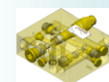
New line of **Fan Drive Solutions**

2017:



New generation of **Excavator Valves**

2014:



New line of **Gravity Lowering LHV for Telehandlers and Aerial Platforms**



COMPANY PROFILE

- 4500 sq.m facility
- 150 employees
- 15 CNC machines

ENGINEERING, MANUFACTURING AND SALES OF HYDRAULIC VALVES

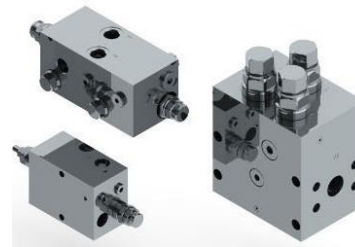
PILOT OPERATED CHECK VALVES



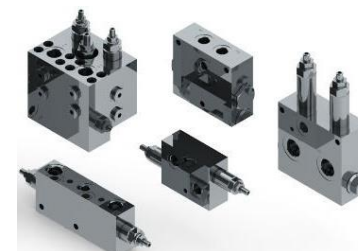
OVERCENTRE VALVES



REGENERATIVE VALVES



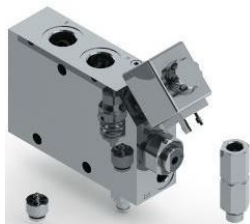
VALVES FOR HYDRAULIC MOTORS



CHECK METERING VALVES FOR EXCAVATORS



VALVES FOR ATTACHMENTS



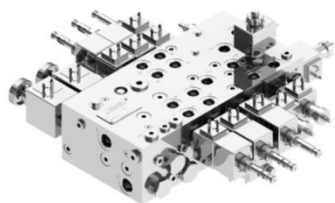
FLOW CONTROL AND FLOW DIVIDER VALVES



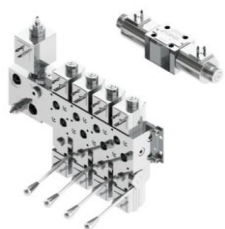
DIVERTER VALVES



CUSTOMIZED INTEGRATED CIRCUITS



COMPACT DIRECTIONAL VALVES AND CETOP



- 1700 sq.m facility
- 25 employees
- 5 test benches

ASSEMBLING AND TESTING OF CARTRIDGE TYPE VALVES

RELIEF VALVES
CARTRIDGE



PRESSURE REDUCING
VALVES - CARTRIDGE



CHECK VALVES
CARTRIDGE



PILOT OPERATED CHECK
VALVES - CARTRIDGE



OVERCENTRE VALVES
CARTRIDGE



FLOW CONTROL AND FLOW
DIVIDER VALVES
CARTRIDGE



SOLENOID OPERATED
VALVES - CARTRIDGE



PROPORTIONAL VALVES
CARTRIDGE



- 1700 sq.m facility
- 21 employees
- 8 CNC machines

TURNING, GRINDING AND LAPPING OF INTERNAL PARTS

PISTONS



SEATS



CARTRIDGES' BODIES



TURNED PARTS IN
GENERAL



LAPPING

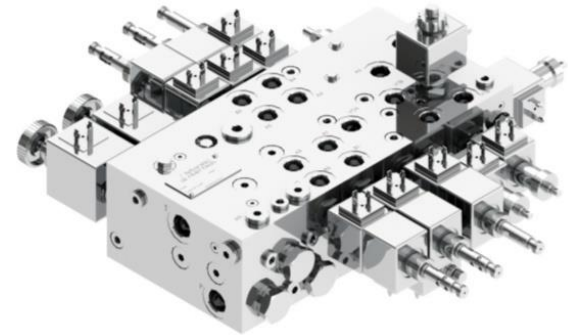
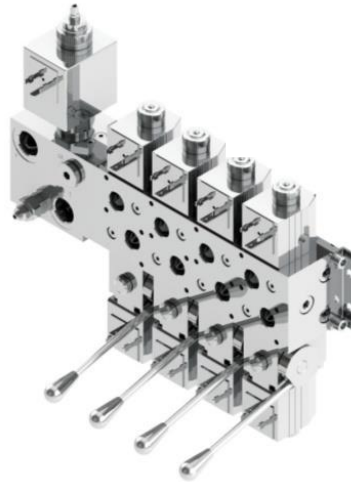
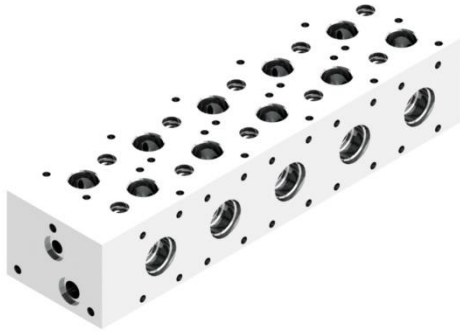


GRINDING



- 1500 sq.m facility
- 20 employees
- 4 CNC machines

MANUFACTURING OF HYDRAULIC MANIFOLDS

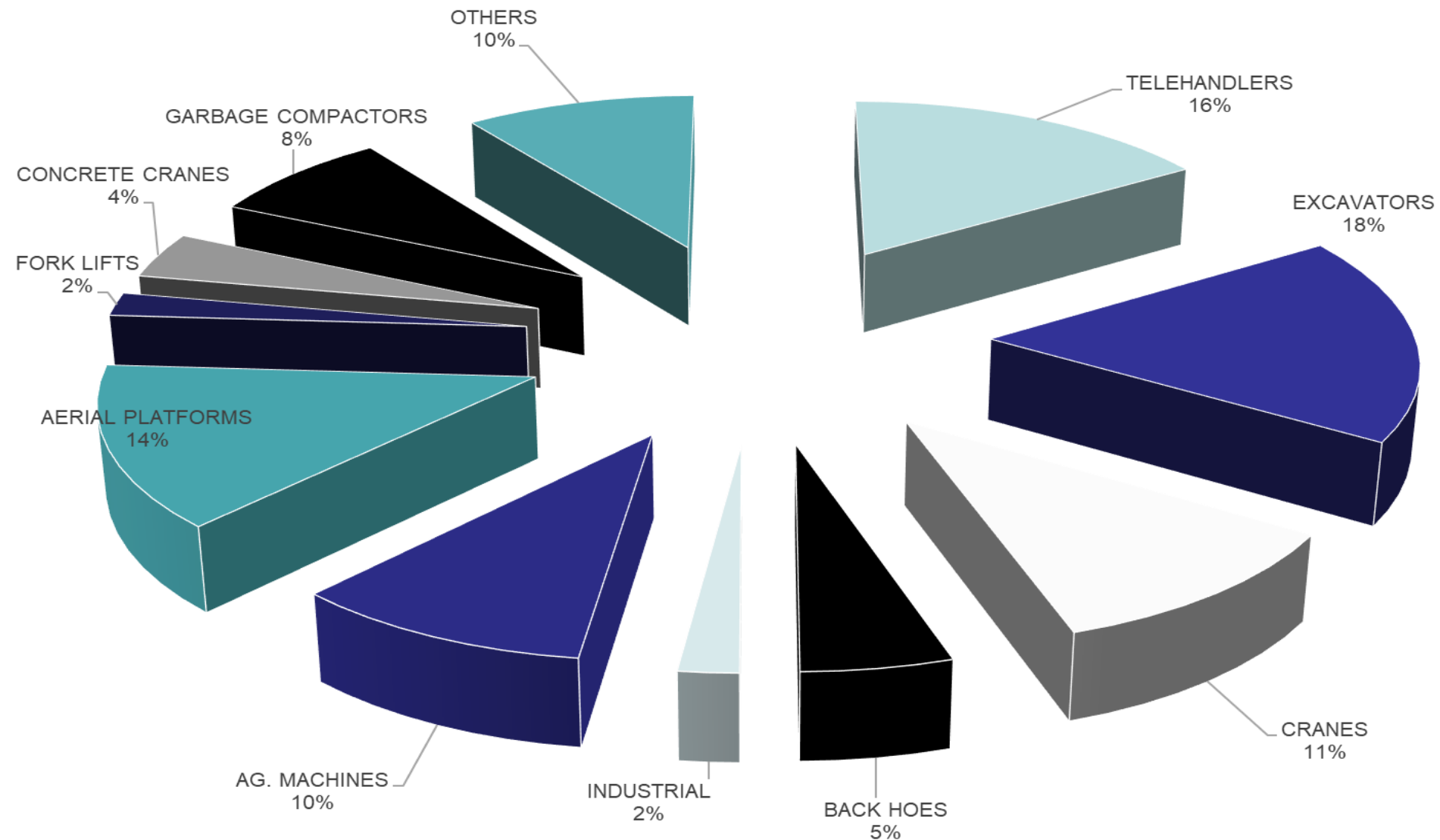


- 3500 sq.m facility
- 80 employees

HARDENING HEAT TREATMENTS AND THERMAL DEBURRING

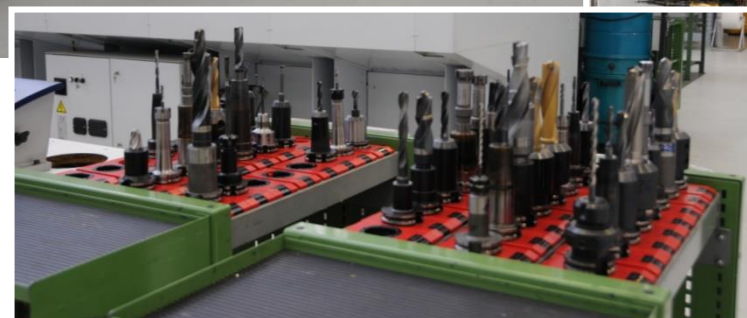


TURNOVER BY MARKET SEGMENTS - YEAR 2019









WE MACHINE:

- ALUMINIUM
- STEEL (NORMAL AND WELDABLE)
- CAST IRON



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

-14 horizontal CNC machines
-92 pallets

Centralized recycling system for drilling water-glicol liquids





Washing machine



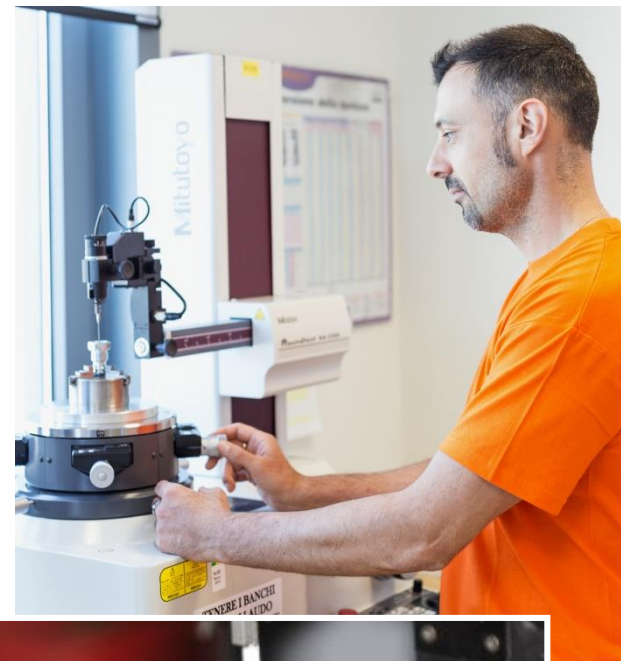
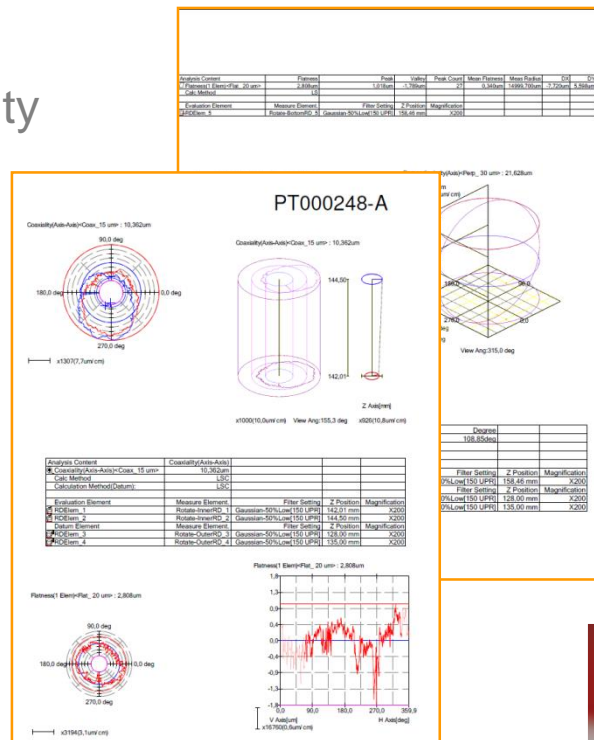
Thermal deburring



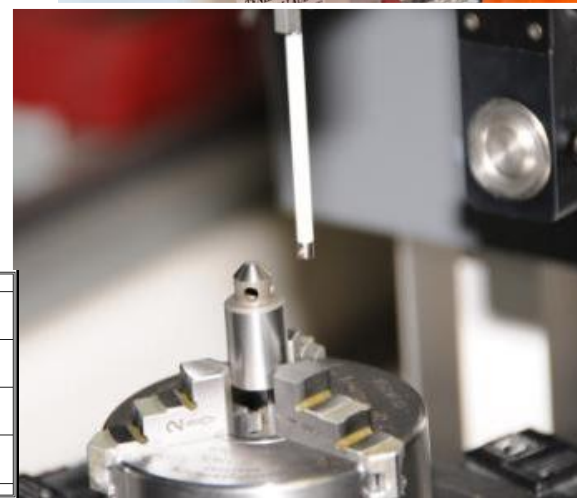
Manual deburring



Machine to control roundness and concentricity (0,1 microns precision)

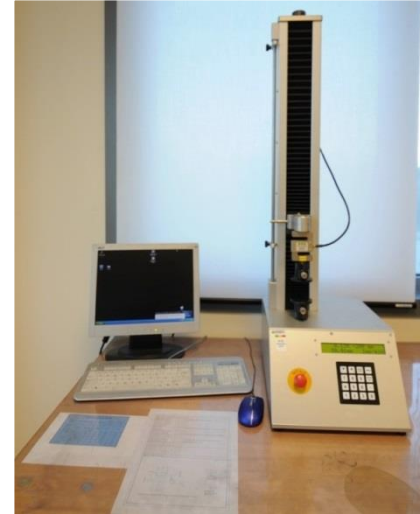


Id.	Descrizione	LTS	LTs	Media	Range	Grafico	Range	Nomin...	Max	MinUnità
L01	Lunghezza	97.200	96.800	97.020	0.035			97.000	97.836	97.001mm
L02	Lunghezza	61.500	61.400	61.411	0.040			61.500	61.427	61.387mm
L03	Lunghezza	3.100	2.900	3.027	0.104			3.000	3.033	3.019mm
L04	Lunghezza	11.100	10.900	10.980	0.023			11.000	10.991	10.968mm
L05	Lunghezza	4.700	4.600	4.633	0.066			4.700	4.602	4.545mm
L06	Lunghezza	33.100	32.900	32.983	0.099			33.000	32.968	32.928mm
L07	Lunghezza	34.800	34.600	34.692	0.053			34.700	34.723	34.670mm
L08	Lunghezza	3.700	3.500	3.616	0.102			3.500	3.622	3.611mm
M01	2° Medio	25.200	25.000	25.075	0.100			25.400	25.285	24.975mm
M02	2° Min	27.900	27.840	27.899	0.018			27.900	27.909	27.891mm
M03	3° Min	30.470	30.400	30.436	0.015			30.500	30.444	30.428mm
M04	3° Medio	32.500	32.300	32.400	0.100			32.600	32.351	32.250mm
M05	2° Medio	44.900	44.500	44.653	0.102			44.700	44.658	44.646mm
M06	Interpiano Max	42.600	42.200	42.362	0.021			42.000	42.372	42.351mm
M07	2° Medio	38.200	37.800	37.984	0.015			38.000	37.979	37.976mm
A01	Meta angolo	44.700	44.200	44.444	0.100			44.700	45.148	44.777mm
A02	Meta angolo	30.000	29.800	29.946	1.025			30.000	30.249	29.224Gradi





Microscope
and
endoscope



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



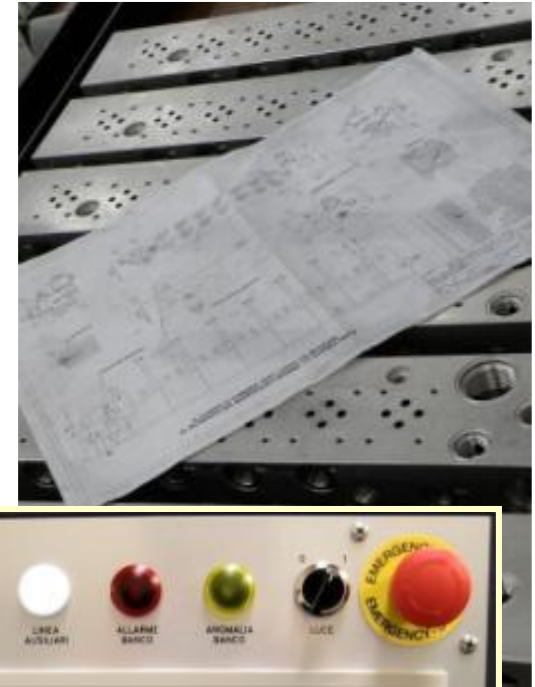
Machine to
check
cavities of the
manifolds



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



All torques are applied with certified
dynamometric wrenches



Computer assisted hydraulic testing rigs

All products are **100% hydraulically tested**

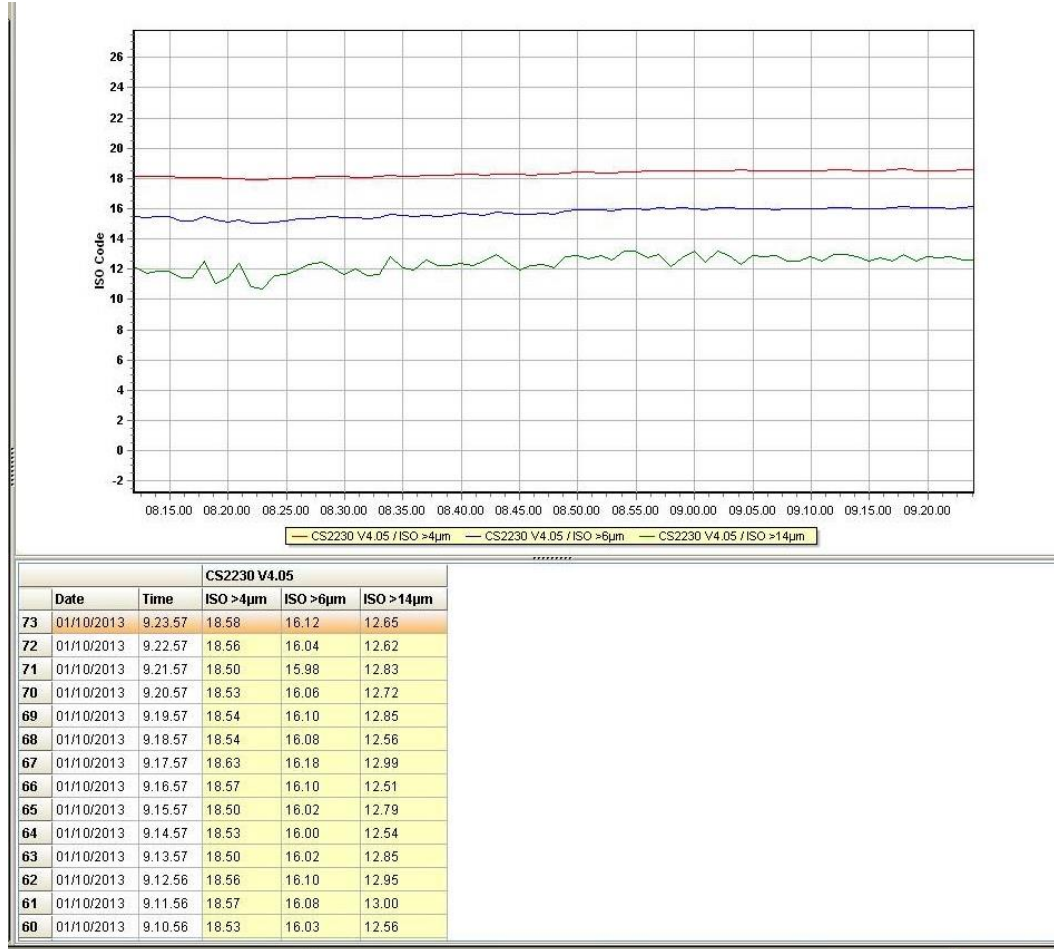




Leakage test with pneumatic equipment



Real time contamination monitoring

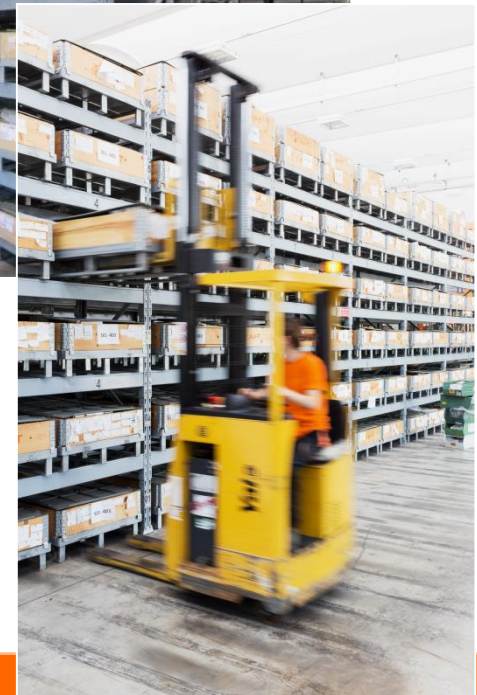


Centralized hydraulic circuit
for all test benches

Vertical automatic storage
system for components and
cartridges



Shelf storage system for
manifolds and finished valves



ISO 9001:2015: Achieved in July 2008

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No.: 61586-2009-AQ-ITA-SINCEST 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)

L'audit è stato eseguito sotto la supervisione di/
The audit has been performed under the supervision of

Gianpaolo Quatraro
Lead Auditor

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 Venezia 14, 20121 Milano (MI) - Italy Tel. 02 98 99 905 - www.dnvgl.it/assurance

ISO 14000:2004: Achieved in May 2015



DNV BUSINESS ASSURANCE MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. 178996-2015-AE-ITA-ACCREDIA

Si attesta che / This is to certify that

ATLANTIC FLUID TECH S.r.l.

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

è conforme ai requisiti della norma per i sistemi di gestione:
has been found to conform to the management system standard:

UNI EN ISO 14001:2004 (ISO 14001:2004)

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:
This Certificate is valid for the following product or service ranges:

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

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

L'audit è stato eseguito sotto la supervisione di/
The audit has been performed under the supervision of

Gianpaolo Quatraro
Lead Auditor

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 Venezia 14, 20121 Milano (MI) - Italy Tel. 02 98 99 905 - www.dnvgl.it/assurance

BS OHSAS 18001:2007: Achieved in May 2015



DNV BUSINESS ASSURANCE MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. 178994-2015-AHSO-ITA-ACCREDIA

Si attesta che / This is to certify that

ATLANTIC FLUID TECH S.r.l.

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

è conforme ai requisiti della norma per i sistemi di gestione:
has been found to conform to the management system standard:

BS OHSAS (Occupational Health and Safety Assessment Series) 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:
This Certificate is valid for the following product or service ranges:

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)

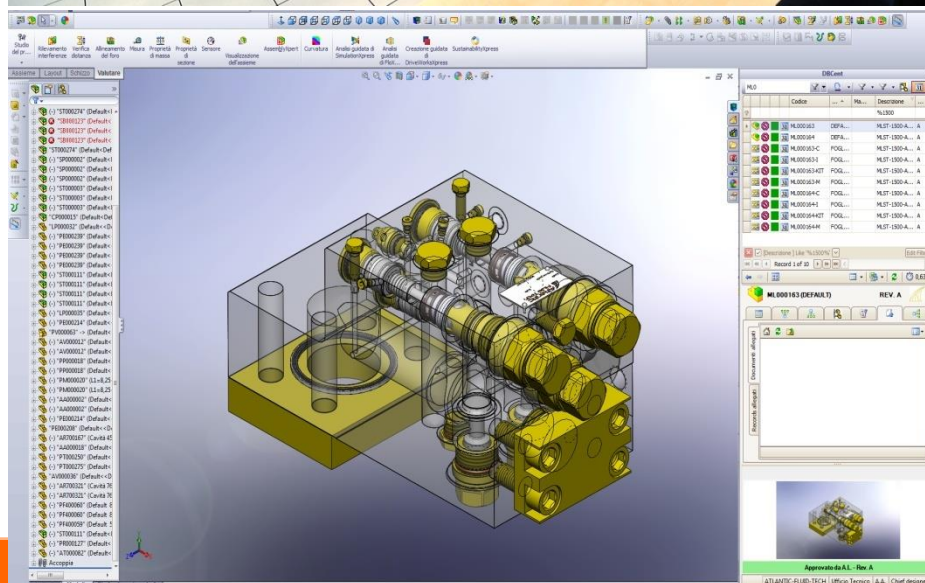
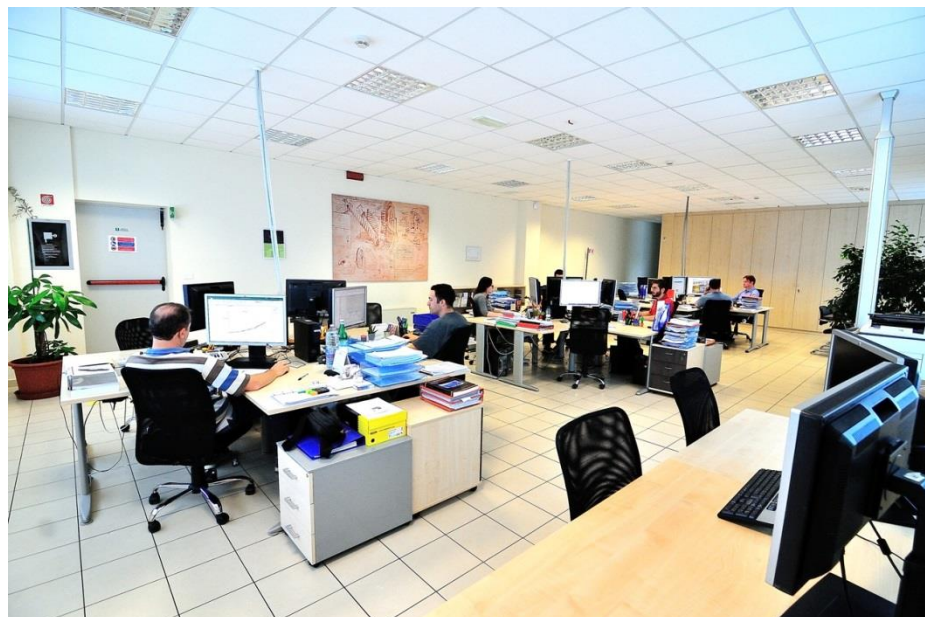
Design, manufacturing and after-sales services of oleodynamic valves and integrated groups. Production and assembly of hydraulic valves and components based on customer specification (Sector EA: 17 - 18)

L'audit è stato eseguito sotto la supervisione di/
The audit has been performed under the supervision of

Gianpaolo Quatraro
Lead Auditor

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione.
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DNV GL Business Assurance Italia s.r.l. Via Venezia 14, 20121 Milano (MI) - Italy Tel. 02 98 99 905 - www.dnvgl.it/assurance



9 design stations equipped with **3D cad** (Solid Works) with integrated PDM system connected to ERP system;

2008: **101** new projects developed

2009: **408** new projects developed

2010: **512** new projects developed

2011: **754** new projects developed

2012: **726** new projects developed

2013: **769** new projects developed

2014: **582** new projects developed

2015: **473** new projects developed

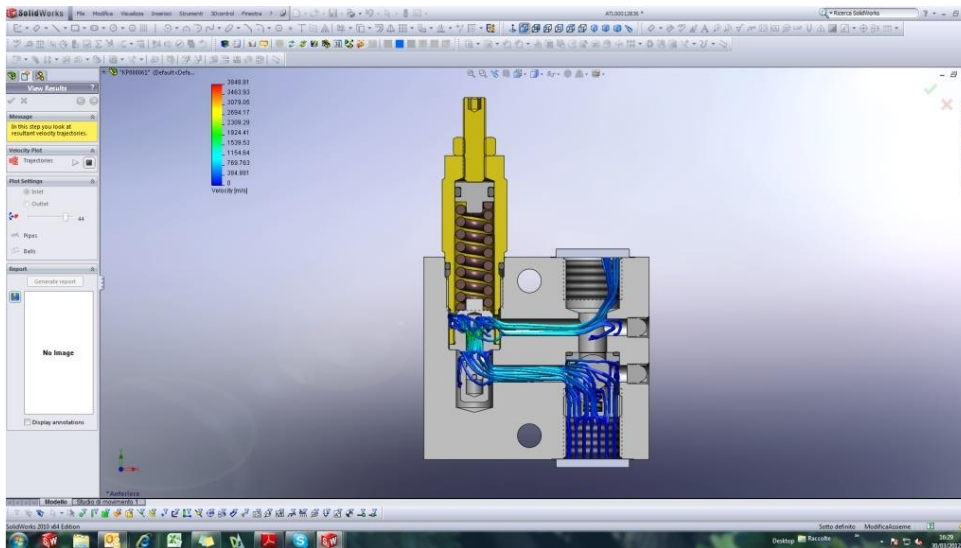
2016: **514** new projects developed

2017: **429** new projects developed

2018: **429** new projects developed

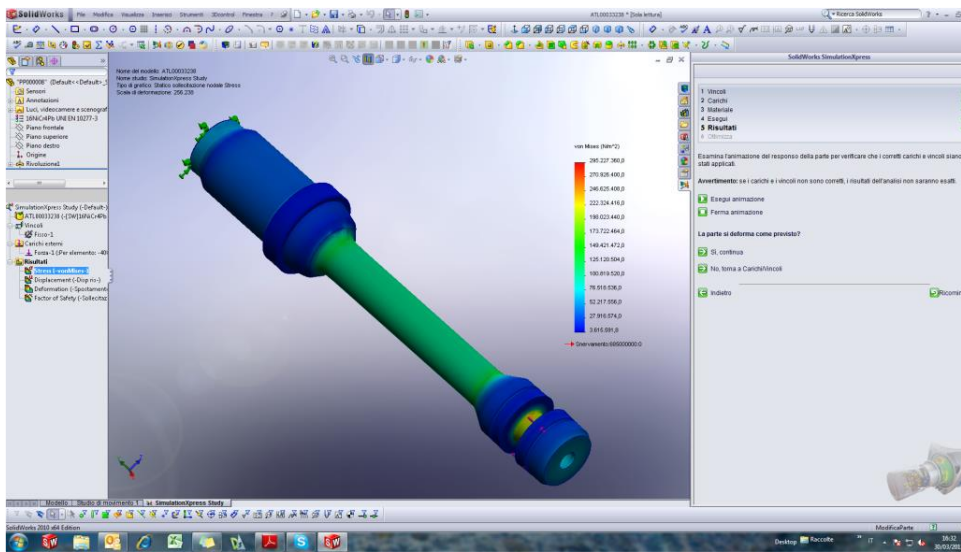
MTTF / MTTFd / β_{10} : Method implemented in July 2011 / Dedicated software (Minitab) for calculation of product reliability in place since January 2012

CRM: new products development process under control with precise time schedules since 2015 through dedicated software



1 workstation equipped with **CFD** simulation system;

1 workstation equipped with **FEM** simulation system



2010: 1 European patent
2011: 3 European patents
2012: 2 European patents
2013: 2 European patents
2014: 1 European patent
2016: 2 European patents
2017: 1 European patent
2018: 3 European patents
2019: 1 European patent



Improved functional test bench permanently connected to data acquisition software:
300 l/min / 550 bar



Endurance test equipment
700 bar



Portable data acquisition equipment, for field tests



Burst test equipment 1850 bar



**THANK YOU
FOR
YOUR ATTENTION**

„Innovative & High Performance Hydraulics”