



ATLANTIC FLUID TECH HISTORY

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

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**

1979



2008

2009

2010

2011

2012

2013

2014

2015

2016

01/2008:
Atlantic Fluid Tech foundation.



Design, development and sales of hydraulic valves and integrated circuits

02/2011:
AFT and CHS merging.



Development, manufacturing and sales of hydraulic valves and integrated circuits

01/2014:
AFT Co. LTD China foundation



Local sales and technical support

09/2016:
AFT KK Japan foundation.



Local sales and technical support

04/2011:
AFT BV Benelux foundation.



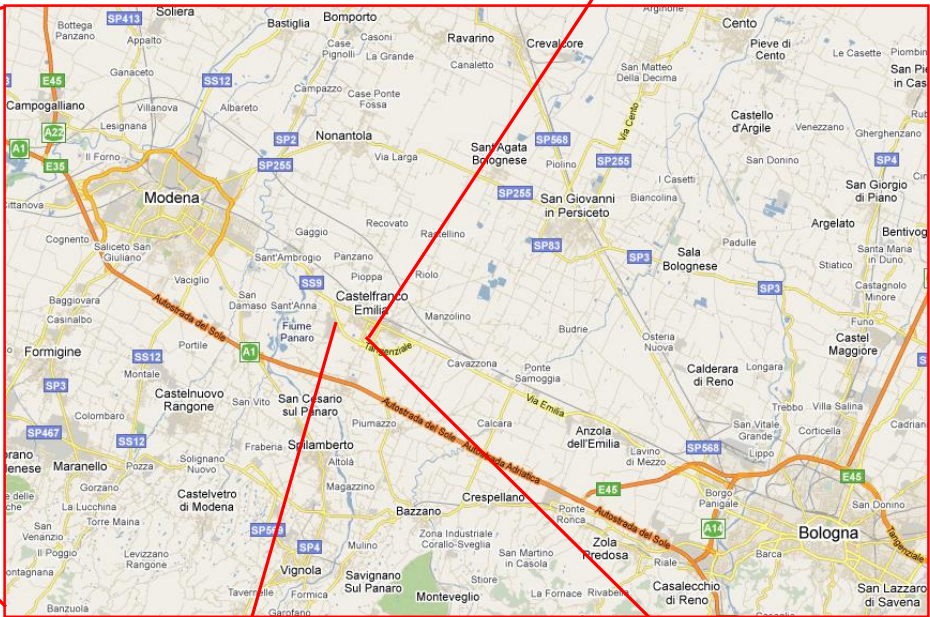
Local sales and technical support

02/2014:
AFT LLC South Korea foundation



Local sales and technical support

COMPANIES LOCATION MANUFACTURING PLANTS



COMPANIES LOCATION SUBSIDIARY COMPANIES EUROPE



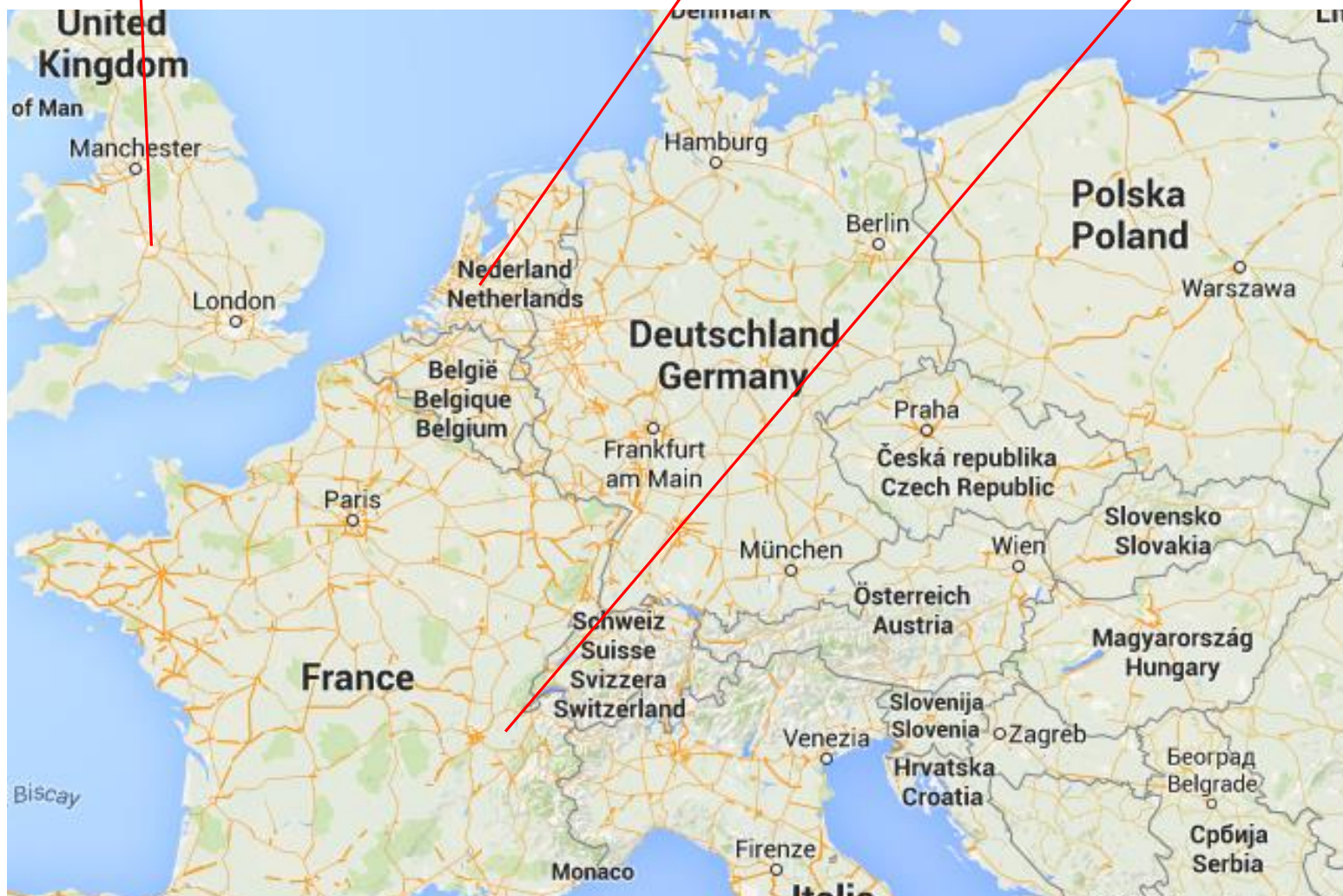
LTD



BV



SAS



COMPANIES LOCATION SUBSIDIARY COMPANIES ASIA



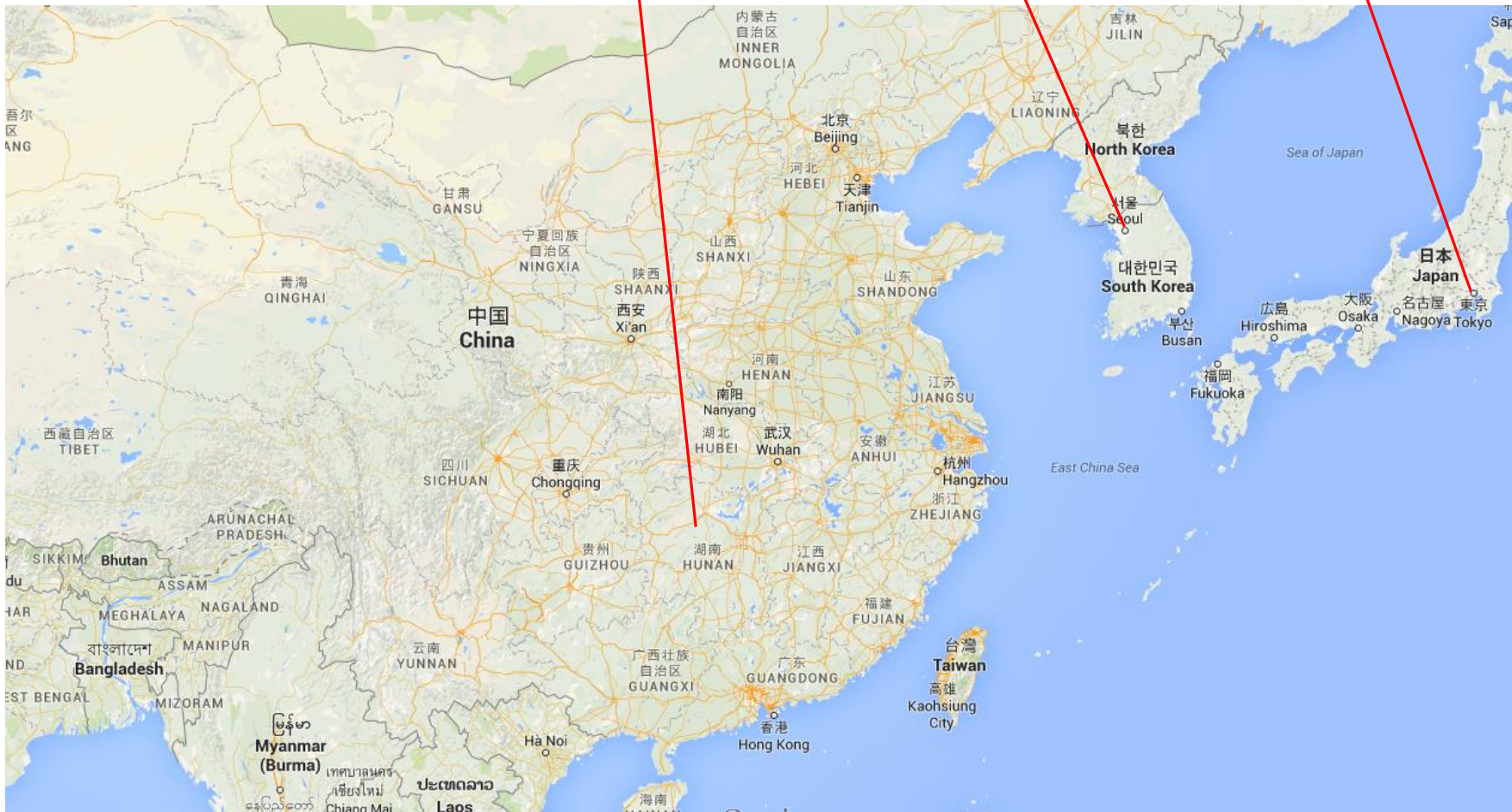
CO. LTD

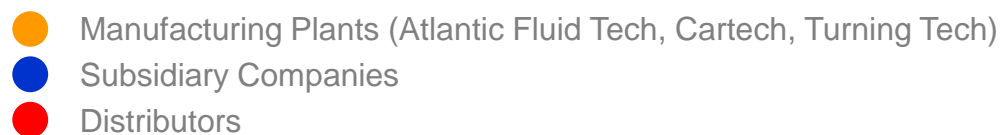


LLC



KK





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

2016

07/2008:



ISO 9001:2008
Accreditation

2010:



New line of **Excavator and Attachment Valves**

2014:



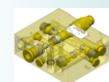
New line of **Fan Drive Solutions**

2016:



New generation of **Excavator Valves**

2014:



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

RELIEF VALVES

CarTech

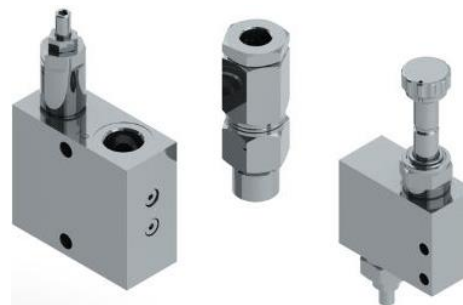


PRESSURE REDUCING
VALVES

CarTech



SEQUENCE VALVES



CHECK VALVES

CarTech



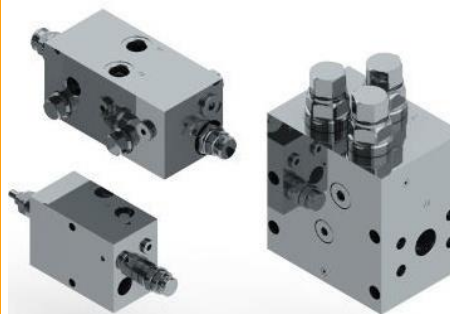
PILOT OPERATED CHECK
VALVES



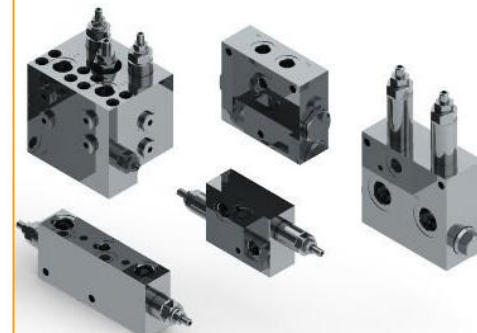
OVERCENTRE VALVES



REGENERATIVE VALVES

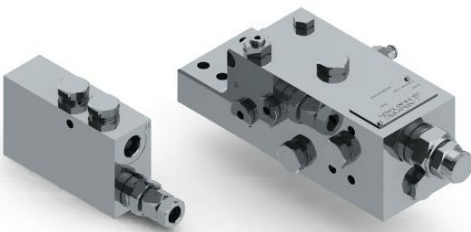


VALVES FOR HYDRAULIC
MOTORS

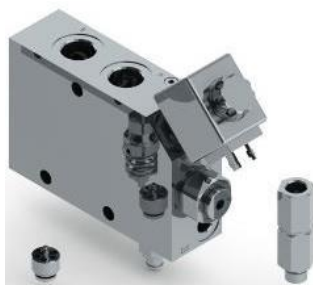


PRODUCT LINES

CHECK METERING VALVES
FOR EXCAVATORS



VALVES FOR ATTACHMENTS



FLOW CONTROL AND FLOW
DIVIDER VALVES

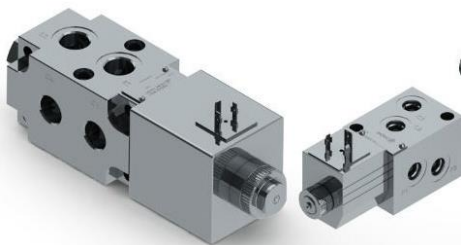


SOLENOID OPERATED
CARTRIDGES

CarTech



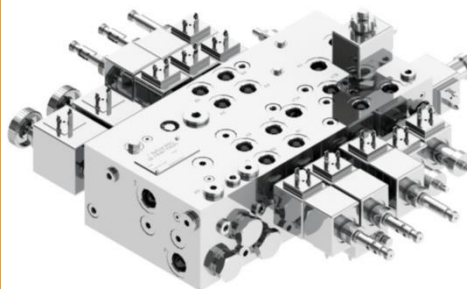
DIVERTER VALVES



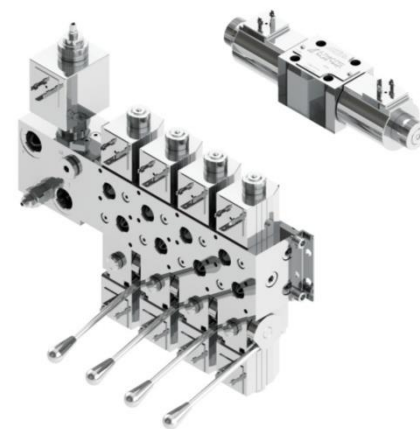
PROPORTIONAL VALVES



CUSTOMIZED INTEGRATED
CIRCUITS



COMPACT DIRECTIONAL
VALVES AND CETOP



TOURNING, GRINDING AND LAPPING OF INTERNAL PARTS

PISTONS



SEATS



CARTRIDGES' BODIES



TURNTD PARTS IN
GENERAL



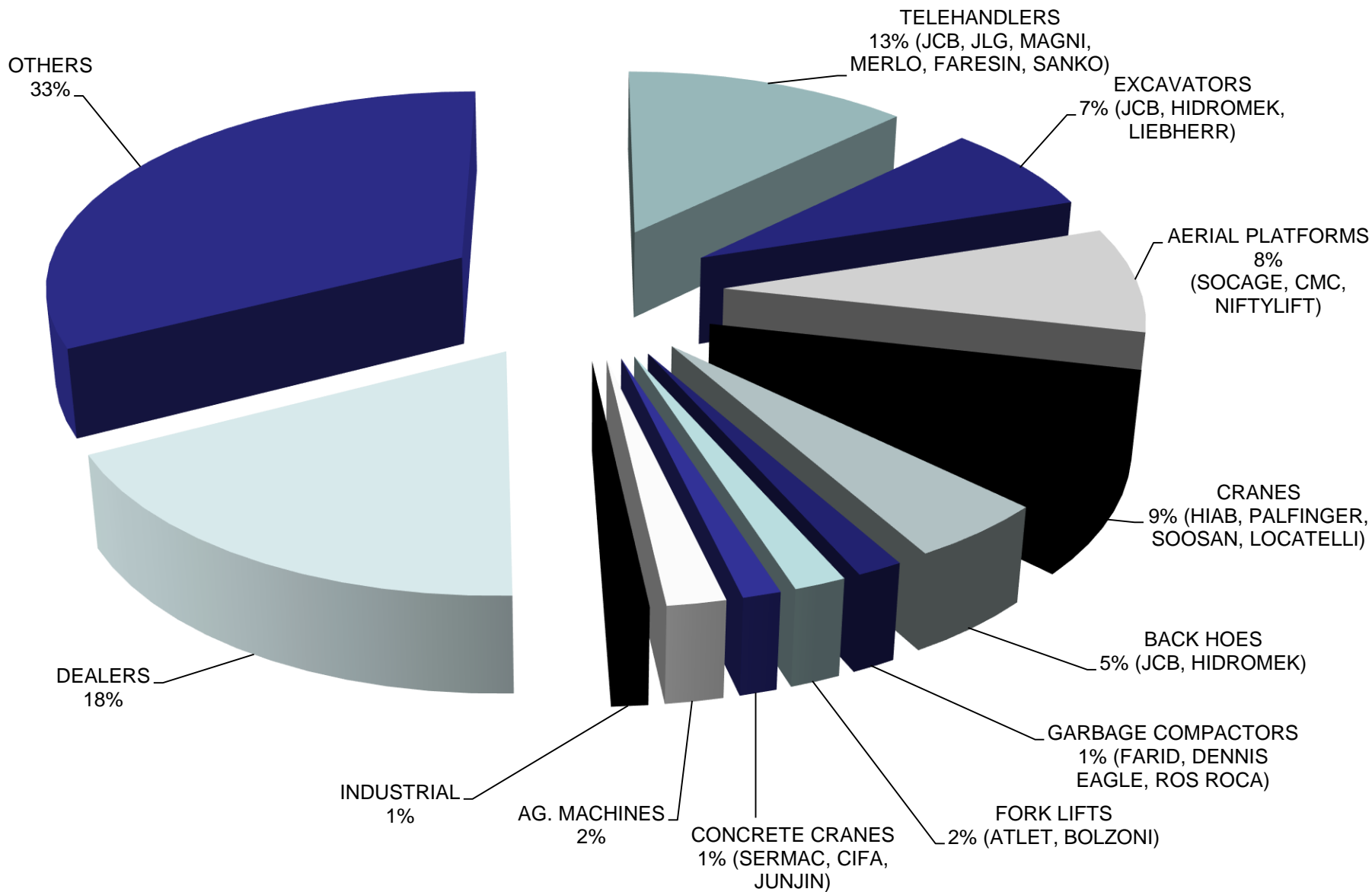
LAPPING



GRINDING



TURNOVER BY MARKET SEGMENTS YEAR 2017



MAIN FIELDS OF APPLICATION



MAIN FIELDS OF APPLICATION



MAIN CUSTOMERS (DIRECT OR THROUGH DISTRIBUTORS)

AERIAL PLATFORMS



EXCAVATORS, BACK-HOES & LOADERS



TELEHANDLERS



CRANES



MAIN CUSTOMERS (DIRECT OR THROUGH DISTRIBUTORS)

GARBAGE COMPACTORS



DENNIS EAGLE LTD
DESIGNED WITH YOU IN MIND



FORK LIFTS & ATTACHMENTS



AGRICULTURAL MACHINES



AT & RT CRANES



MAIN CUSTOMERS (DIRECT OR THROUGH DISTRIBUTORS)

HOOK LIFT LOADERS



DRILLING MACHINES



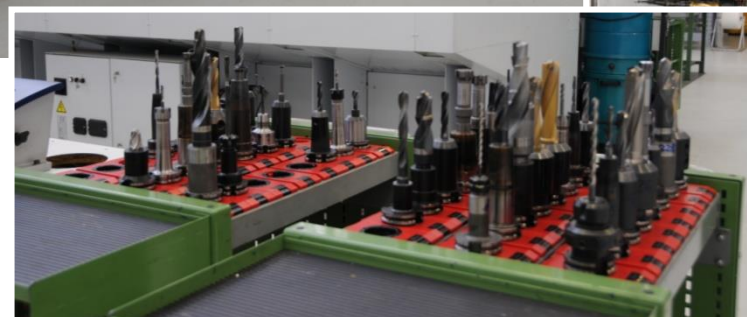
CONCRETE PUMP CRANES



SCRAP LOADERS



PRODUCTION PLANT CNC MACHINES



WE MACHINE:

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

PRODUCTION PLANT CNC MACHINES



Mori Seiki multi-pallet
horizontal machine

11 horizontal CNC
machines



Daewoo multi-pallet
vertical machine

5 vertical CNC machines

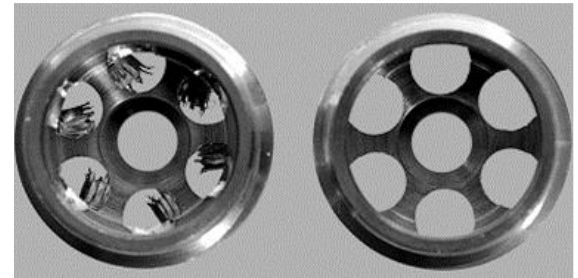


Centralized recycling
system for drilling water-
glycol liquids

PRODUCTION PLANT DEBURRING AND WASHING



Washing machine



Thermal deburring



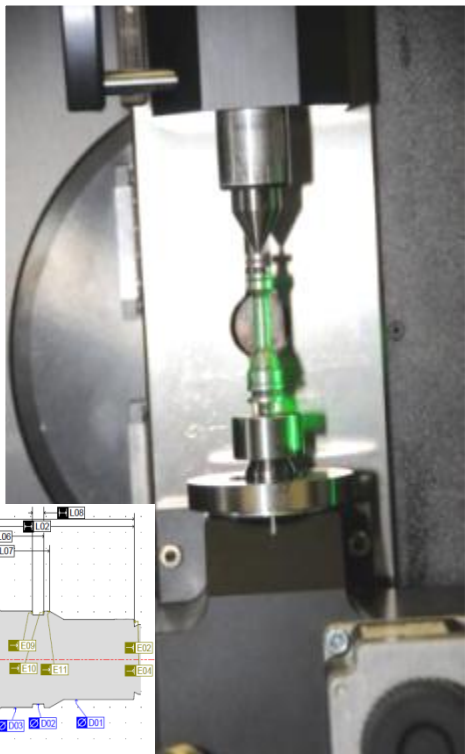
Manual deburring



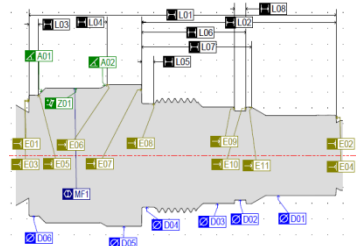
PRODUCTION PLANT METROLOGICAL LAB AND QUALITY CONTROL



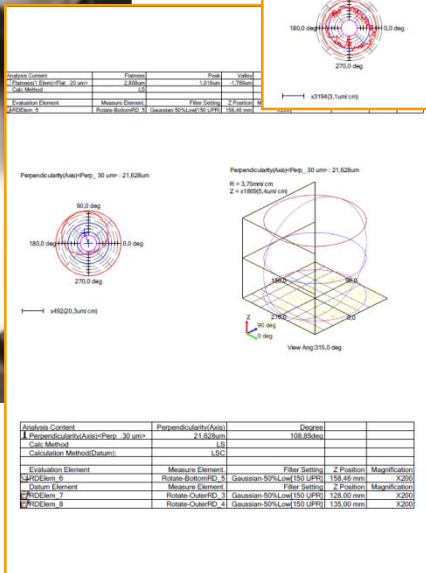
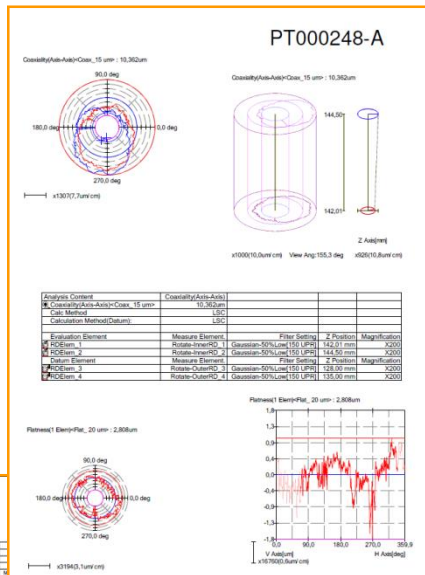
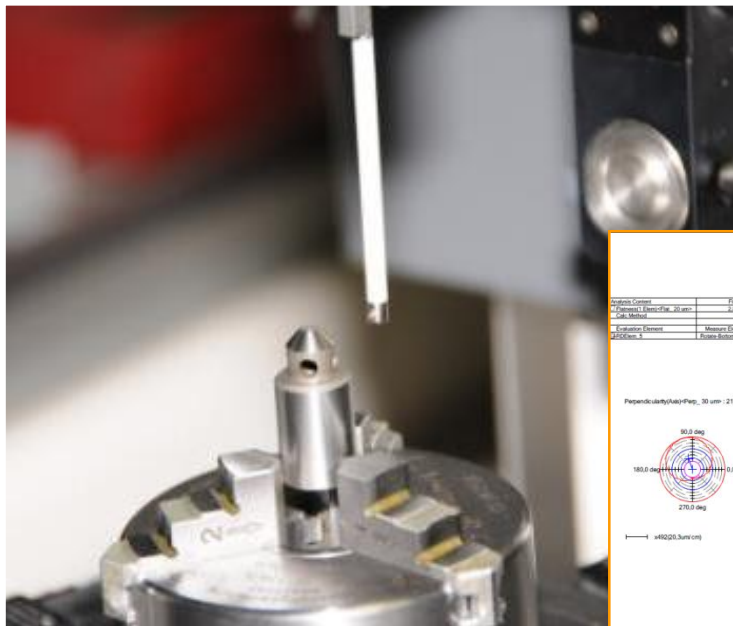
Machine for fast control of
turned parts (3 microns
precision)



C. Et...	Descrizione	LTS	LTI	Media	Range	Grafico Range	Nomin...	Max	Min	Unità
+	L01 Lunghezza	97.200	96.800	97.020	0.035		97.000	97.038	97.001	mm
+	L02 Lunghezza	61.500	61.400	61.411	0.040		61.500	61.427	61.387	mm
+	L03 Lunghezza	3.100	2.900	3.027	0.014		3.000	3.033	3.019	mm
+	L04 Lunghezza	11.100	10.900	10.980	0.023		11.000	10.981	10.968	mm
+	L05 Lunghezza	4.300	4.000	3.780	0.060		4.000	3.802	3.746	mm
+	L06 Lunghezza	33.100	32.900	32.983	0.009		33.000	32.988	32.979	mm
+	L07 Lunghezza	34.800	34.600	34.692	0.053		34.700	34.723	34.670	mm
+	L08 Lunghezza	3.700	3.500	3.618	0.012		3.500	3.622	3.610	mm
+	D01 Ø Medio	25.400	25.200	25.278	0.015		25.400	25.285	25.270	mm
+	D02 Ø Min	27.900	27.848	27.899	0.018		27.900	27.909	27.891	mm
+	D03 Ø Min	30.470	30.440	30.436	0.015		30.500	30.444	30.429	mm
+	D04 Ø Medio	32.600	32.500	32.582	0.016		32.600	32.581	32.575	mm
+	D05 Ø Medio	44.900	44.500	44.653	0.012		44.700	44.858	44.646	mm
+	MF1 Interpiano Max	42.600	42.200	42.382	0.021		42.400	42.372	42.351	mm
+	D06 Ø Medio	38.200	37.800	37.984	0.015		38.000	37.993	37.978	mm
+	A01 Metà angolo	48.000	42.000	44.980	0.371		45.000	45.148	44.777	Gradi
+	A02 Metà angolo	32.000	28.000	29.946	1.025		30.000	30.249	29.224	Gradi

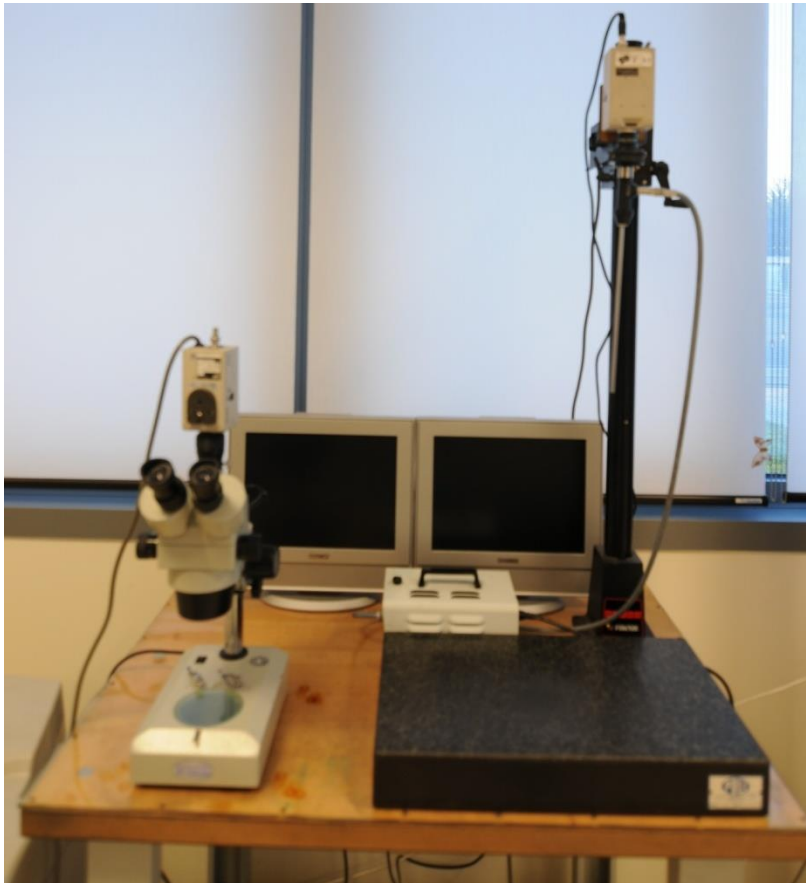


Machine to control roundness and concentricity (0,1 microns precision)



PRODUCTION PLANT METROLOGICAL LAB AND QUALITY CONTROL

Microscope and endoscope,
connected to the computer to
take pictures

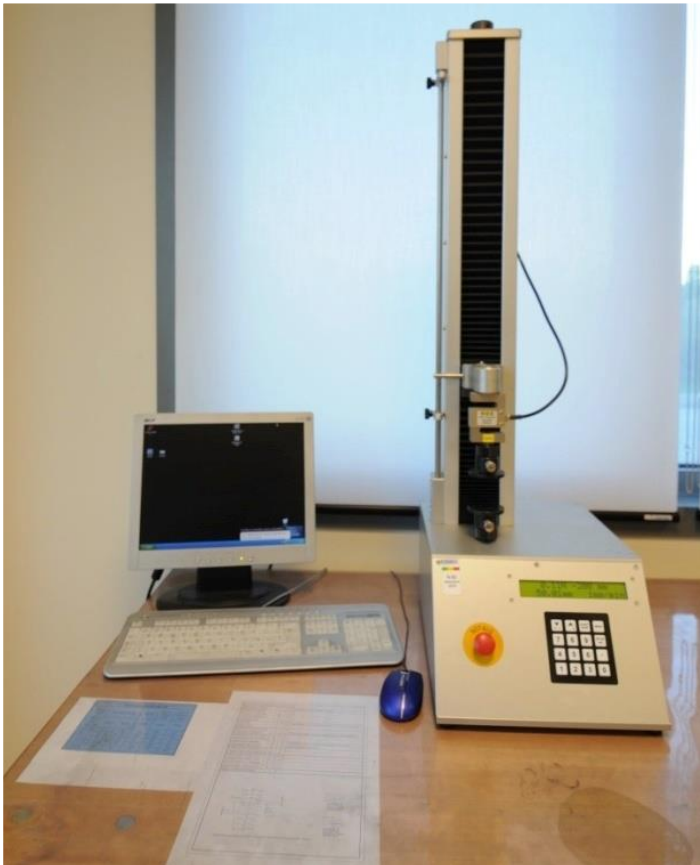


Machine to control precision
of the internal diameters of
the manifolds

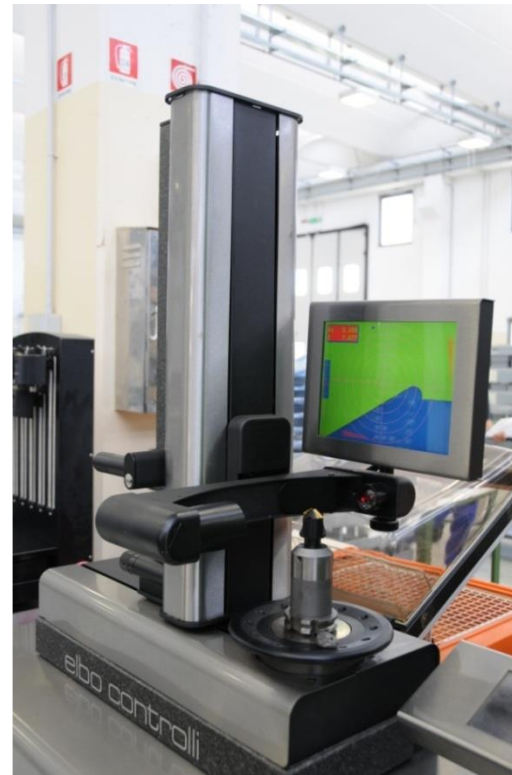


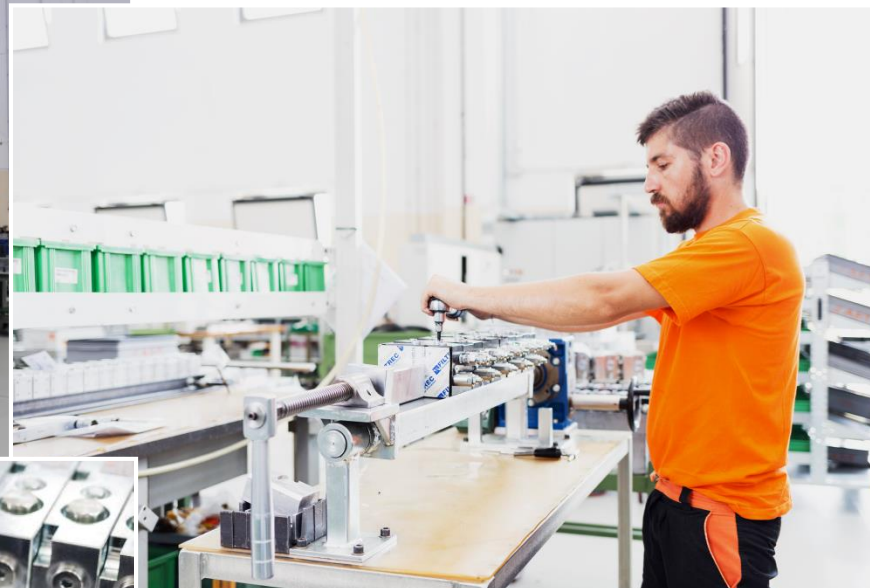
PRODUCTION PLANT METROLOGICAL LAB AND QUALITY CONTROL

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

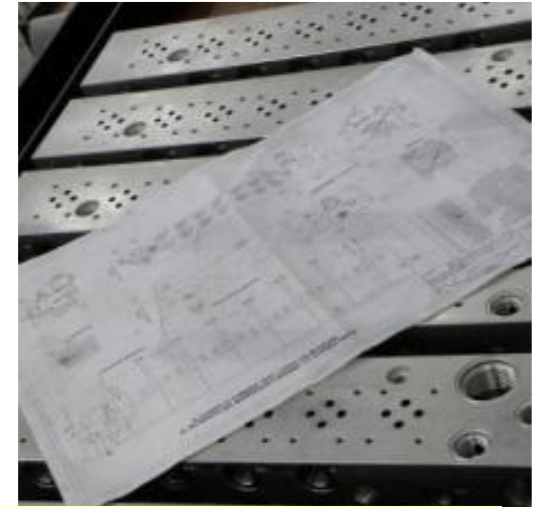


Machine to control sharpness and profile of the drilling tools and to fix them on the tool holder





All torques are applied with certified
dynamometric wrenches

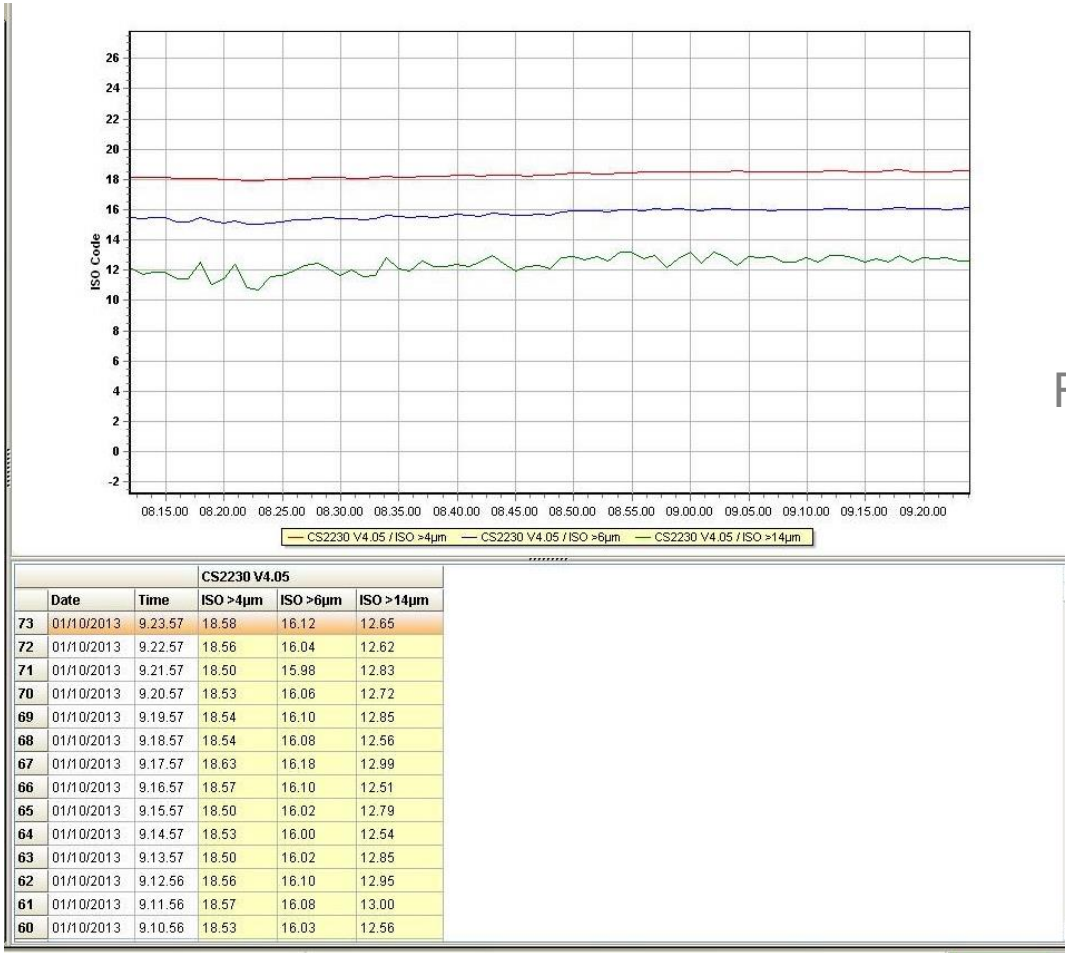


Computer assisted hydraulic testing rigs

All products are **100% hydraulically tested**



Leakage test with pneumatic equipment



Real time contamination monitoring



Centralized hydraulic circuit
for all test benches

PRODUCTION PLANT STORAGE

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.: 61586-2008-ITA-218-218CERT 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 Vimercate (MB), Italy Tel. 039 68 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 ed 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)

Data Prima Emissione/Initial Certification Date: **2015-05-27**

Il Certificato è valido fino al: / This Certificate is valid until: **2018-05-27**

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 Vimercate (MB), Italy Tel. 039 68 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)

Data Prima Emissione/Initial Certification Date: **2015-05-22**

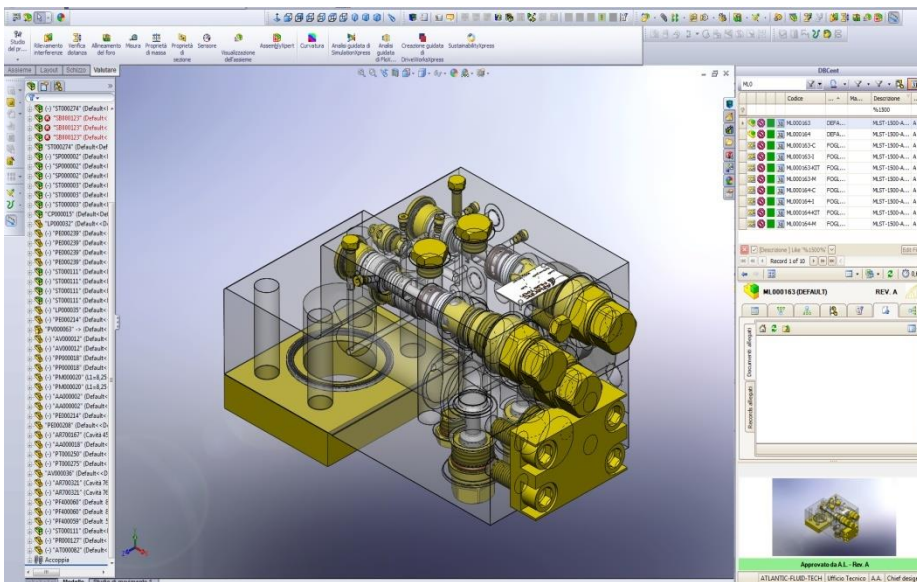
Il Certificato è valido fino al: / This Certificate is valid until: **2018-05-22**

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 Vimercate (MB), Italy Tel. 039 68 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

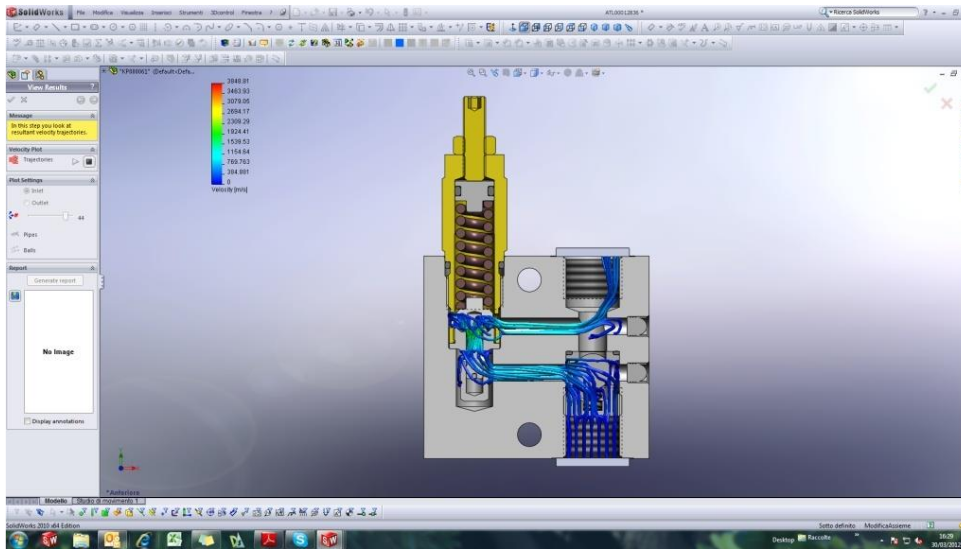
2015: **473** new projects developed

2016: **514** new projects developed

2017: **429** new projects developed

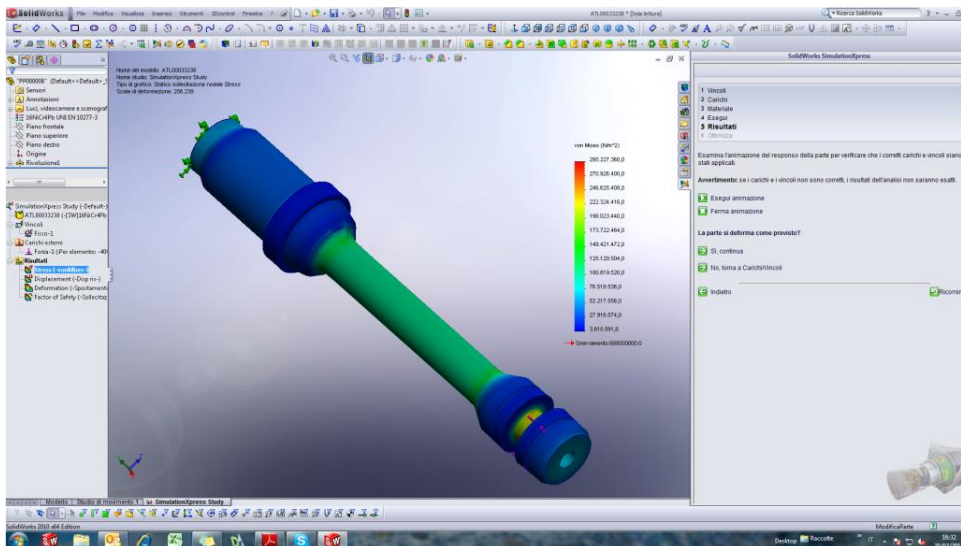
MTTF / MTTFd / β_{10} : Method implemented in July 2011 / Dedicated software (Minitab) for calculation of product reliability in place since January 2012

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



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”