



AB&S

AVVTO





# Our City



Turin

# History

Our story began over 50 years ago, in Turin, in a small shop, opened as a result of the experience gained in the automotive spare parts sector.

Thanks to the expansionist vision of the brothers Pier Carlo and Paolo Caldera and their intuitions to create a commercial and dedicated approach, AB&S AVVITO has grown over the years, becoming a national and international leader in the fastener supply sector.

Our unified values, synonymous with collaboration and expertise, are the basis of every decision taken and solution created, to overcome increasingly difficult challenges, pursuing the goal of a better and more sustainable world.



**Our headquarters in Strada del Francese, 93 - TORINO**

# Timeline

- 1969 The brothers Pier Carlo and Paolo Caldera open a small shop in Turin. ABC s.n.c. is born, specialized in the supply of screws and bolts to wholesalers and hardware stores.
- 1970 The company move to C.so San Maurizio 71, Turin and take the name of A&C, in 1972 the warehouse is build in Borgo d'Ale (VC) which is use until 1978, then it move to Turin in Strada del Francese, 93.
- 1986 Growth is unstoppable and they begin to serve the large automotive, household appliance, electrical industries, structuring themselves in the management of large packages of screws and small parts.
- 1990 The company name is integrated with "Avvito Service" to highlight the company's vocation for a Quality service tailored to the customer.
- The Quality Control laboratory is born with highly qualified personnel and obtains the Quality System certification according to ISO 9001.

- 2004 The OIL & GAS sector becomes the reference market, leading the company to specialize and become experts in the reference standards of the sector (ASTM, ASME, etc.).
- 2017 AB&S AVVITO is born, from the merger of the experience of outsourcing AB&S production for the Oil & Gas sector, and Avvito Service for the marketing of quality bolts.
- 2025 Our commitment remains constant and the enthusiasm does not wane in the challenges of every day, we have been making history for more than 56 years and we will continue to give the best to our present and future Customers.

To be continued....



# Why AB&S Avvito

AB&S AVVITO stands out from other companies thanks to the attention it pays to guaranteeing the quality of the products it produces in outsourcing and markets.

AB&S AVVITO has become a point of reference in the fasteners and bolts sector, this means guaranteeing its customers compliance with the highest international reference standards.



*The highest Quality is  
always certified!*



# Services

## **UNLIMITED PRODUCTION CAPACITY**

Thanks to the collaboration with over 200 highly specialized production units in their sector, we can offer the supply of plain or treated material, standard or special according to the customers' drawings, with a very wide range.



## **WAREHOUSE STOCKS**

AB&S AVVITO manages a warehouse of authorized stock of codes on behalf of the Customer, to cover needs from 4 to 12 months, to achieve scale savings on production costs and available materials without burdening the Customer's financial costs.



## **SINGLE SUPPLIER**

We are proud to be able to become your only suppliers so that we can facilitate your management, grouping a wide range of products in a single supply to offer savings on purchase management.



# Products

After many years of experience in the supply of fasteners to manufacturing industries in different sectors (automotive, household appliances, lighting, etc.), we have specialized in the supply of bolting material specific to the OIL & GAS sector.



# Products

Thanks to our numerous partners, selected over the years from among the largest and most reliable manufacturers in our sectors, we are able to cover an unlimited range of products. All our supplies are characterized by a high level of quality: all batches are carefully checked in the internal laboratory to ensure compliance.



Our strategy is based on:

1. On the supply of high Quality products and with an accurate Customer service, totally customized.
2. On the possibility of building up authorized stocks in the warehouse, which the Customer can collect according to consumption.



# Product Range

Currently, the range of products we deal with includes both unified parts according to UNI and DIN standards (replaced by the most recent EN-ISO), and bolts and linkage according to ASME/ANSI and ASTM standards and metric, UNC/UNF, whitworth thread and, in addition, parts made to customers' drawings or specifications, in each of the different sectors.

## GENERAL PURPOSE BOLTS

High strength screws:

1. Hex Head
2. Hexagonal/hexalobular socket cylindrical head
3. Studs
4. Hexagonal/hexalobular socket countersunk head
5. Hexagonal/hexalobular socket domed head



### Hex nuts:

- normal
- blind
- self locking
- welding
- castel nut

### Washers:

- flat
- curvy
- wavy
- spring ring
- Serrated
- Safety Plates

### Retaining rings:

- for shafts
- for holes
- Radial

### Metal screws

Self-tapping screws

Self-Forming screws

Self-drilling screws

Cylindrical, conical, threaded solid pins

Spring, spiral, slotted pins

Rounded, straight, keys

Lifting eyebolts and accessories

O-Rings



# Quality

The Quality Management System of our company is ISO 9001:2015 certified with extension to the PED directive.

Thanks to our fully equipped and state-of-the-art internal laboratory, all incoming batches are checked by highly specialized personnel, so that our supplies always maintain the highest quality standard.

The electronic instrumentation present in the laboratory, together with all the accompanying equipment (e.g. Go/ No Go Ring/Plug gauges) and specific software allow us to perform:

- DIMENSIONAL CHECKS
- DESTRUCTIVE TESTING (TENSILE TEST)
- HARDNESS
- QUANTOMETRIC ANALYSIS (COMPLETE CHEMICAL ANALYSIS - PMI TESTS)
- NON-DESTRUCTIVE TESTING - VISUAL TESTING



**SPECTRO MAX**



**SPECTRO MAX**



**OMAG**

# Quality

On request, we have the possibility to issue the following Quality documents:

- CERTIFICATE OF CONFORMITY EN 10204.2.1
- NON-SPECIFIC TEST REPORT EN 10204.2.2
- SPECIFIC TEST REPORT EN 10204.3.1
- DIMENSIONAL CERTIFICATES
- 100% HARDNESS REPORT, ETC.
- ISSUANCE WITH A THIRD PARTY OF THE EN 10204.3.2 CERTIFICATE



**FISCHER X-RAY**



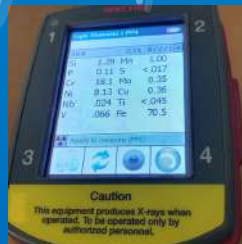
**METROCOM**



# Equipment



**FISCERSCOPE**



**portable FISCERSCOPE**



**Hot-dip galvanizing thickness control**



**Galvanic coatings thickness control**



**SPECTRO MAX**  
**Chemical composition control**



**METROCOM**  
**Tensile test**

# Certifications



Current issue date: 28 November 2024  
Expiry date: 27 November 2027  
Certificate identity number: 336527310

Original approval(s):  
ISO 9001 - 28 November 2018

## Certificate of Approval

This is to certify that the Management System of:

**AB&S - AVVITO S.R.L**

Strada del Francese 93, 10156 Torino TO, Italy

has been approved by LRQA to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 00017681

The scope of this approval is applicable to:

Production (internal and in out-sourcing) and distribution of bolting material, rods, stud-bolts, screws, nuts and fasteners standard and special, according to Customer's drawing too, manufactured in steel, carbon steels, stainless steels and superalloys, for oil & gas, petrochemical, drilling sector, energy, off-shore and base industry.

Marta Escudero

Regional Director, Europe  
Issued by: LRQA Limited



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Issued by: LRQA Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom



# Warehouse



# Warehouse



# Petrochemical



# Oil & Gas

## HEX HEAD SCREWS:

- Metric: Fully threaded
- Inch: Normal/Heavy Series

## HEX SOCKET HEAD SCREWS:

- metric/inch

Cold-formed version up to M20/D. 7/8"  
- over hot forged up to M100/4"

## Main materials:

ASTM A193 GR. B7/B7M/B8 AND B8M CL.1/CL.2  
ASTM A320 GR. L7/L7M/B8 AND B8M CL.1/CL.2  
ASTM A193 GR. B7/B7M - ASTM A320 GR.  
L7/L7M TO M24/D. 1"

## FULLY THREADED TIE RODS (STUD BOLTS):

- 1.Metric: UNI 6610
- 2.Inch: ANSI B16.5

RAW MATERIAL AVAILABLE AT THE PRODUCTION  
UNIT UP TO M100/D. 4"  
POSSIBILITY OF SUPPLY UP TO D. 150 mm/6"

# Oil & Gas

Other grades available on request:

ASTM A193 GR. B16/B8/B8M CL.1/CL.2

B8A/B8MA/B8R/B8RA

ASTM A320 GR. B8/B8M CL.1/CL.2 B8A/B8MA /L43

ASTM A453 GR.660

SUPERALLOYS/EXOTIC SUPERALLOYS

HEX NUTS NORMAL SERIES /  
HEAVY DUTY - METRIC / INCH

Main materials:

ASTM A194 GR.2H/GR.2HM/GR.4/GR.7/GR.7M

FROM M6 TO M52 AND FROM 1/4"-20UNC TO

2"-8UN

ASTM A194 GR.8/8M TO M33/2"

POSSIBILITY OF OBTAINING GRADES: A194

GR.8A/8MA

FOUNDATION TIE RODS - U BOLT

DOUBLE ENDS STUDS - STUDS

THREADED RODS LENGTH. 1 TO 4 METERS



# Screws B7/L7

The standard ASTM A193 and A320 include alloy carbon steels and stainless steels for bolting in high or low temperature applications and high pressures and/or special applications. Fasteners manufactured according to these standards are intended to be used for pressure vessels, valves.



*Availability*

viti B7/L7



# Materials and Grades

## **Carbon steel, alloyed and non-alloyed**

- UNI EN ISO 898-1 : CL. 4.8 – 8.8 – 10.9 – 12.9
- UNI EN ISO 898-2: CL.8/CL.10
- UNI EN ISO 898-3: 22H/45H
- STEEL 100HV/200HV/300HV – C67 – C72
- ASTM/ASME SA 193 GR. B7/B7M/B16
- ASTM/ASME SA 320 GR. L7/L7M/L43
- ASTM/ASTM SA 194 GR. 2H/2HM/4/7/7M
- EN 10269: 1.7225 - 1.7218 - 1.7709 - 1.1191
- UNI EN 10083-3: 39NiCrMo3
- UNI EN 10025-2: S235 – S275 – S355

## **Austenitic stainless steels**

- AISI 304/304L/AISI 316/316L
- UNI EN ISO 3506 GR. A2/A4 CL. 50/70/80
- ASTM/ASME SA 193 – 320 GR.B8/B8M CL. 1/CL.2/B8A/B8MA
- ASTM/ASME SA 194 GR.8/8A/8M/8MA
- UNS S30400 – UNS S31600
- ASTM A193 GR. B8T (AISI 321) – ASTM A194 GR.8T
- ASTM A193 GR. B8R – XM19 – UNS S20910 Nitronic 50

## **Martensitic stainless steels**

- AISI 410 – X12Cr13
- AISI 420 – X30Cr13

# Materials and Grades

## Precipitation hardening stainless steels

- UNS S17400 – 17.4 Ph

## Duplex and superduplex stainless steels

- F51 – UNS S31803 – 1.4462
- F53 – UNS S32750 – 1.4410
- F55 – UNS S32760 – 1.4501

## Stainless steels for high temperature

- ASTM A453 GR.660 CL. A / B / C / D (ALLOY 286)
- EN 10269 1.4980
- ASTM A437 GR.B4B

## Nickel alloys and exotic materials - extra UE

- ASTM F467/F468
- UNS N10276 (e.g. HASTELLOY® C276)
- UNS N04400 (e.g. MONEL® 400)
- UNS N05500 (e.g. MONEL® 500)
- UNS N06625 (e.g. INCONEL® 625)
- UNS N08020 (e.g. NICKELVAC® 23)
- ASTM B637 UNS N07718 (e.g. INCONEL® 718)

## Copper alloys

- BRASS OT58 / OT63

## Titanium alloys

- ASTM F467 /F468
- UNS R50400 TI Gr.2 Ti Gr. 5

# Treatments and Coatings

## HEAT TREATMENTS

- Quenching and tempering
- Stress relieving
- Solution treatment
- Age Hardening

## SURFACE HARDENING TREATMENTS

- Cementation
- Nitriding (salt/ionic plasma baths)

## PROTECTIVE COATINGS

- Electrolytics: galvanic zinc plating, nickel plating, zinc nickel plating, chrome plating, silver plating
- Hot-dip galvanizing, burnishing, Zn/Mg phosphating
- Electroless nickel plating: Niploy® /Cheniflon®
- Zinc flakes
- PTFE, Xylan ®
- Self-locking and sealing applications (e.g. Precote®)



**PTFE red Xylan**



**PTFE blue Xylan**



**PTFE blue Xylan**



**PTFE orange Xylan**



**Hot-dip galvanizing**



**Silvering**



**PTFE yellow Xylan**

# Exotic Materials

**INCONEL<sup>®</sup>, NIMONIC<sup>®</sup>, HASTELLOY<sup>®</sup>, MONEL<sup>®</sup>**

Superalloys are nickel and chromium-based materials designed by state-of-the-art steel mills since the 1940s, with the aim of replacing standard materials in applications where temperature, pressure and corrosion make environments particularly difficult, thanks to their ability to withstand extreme conditions.



1969-2025







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