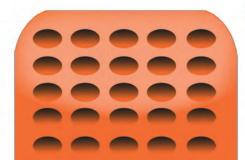


# TECTUBI RACCORDI S.p.A.



# TURNED, BORED & HONED PIPES PERFORMANCE

Our production for the market of large-size and heavy walled machined pipes





**Tectubi Raccordi** is a well-known and well-established leading Italian manufacturer of buttwelding fittings and renowned worldwide industrial brand in special products for energy production and transmission systems: petrochemical plants, LNG plants, Oil&Gas pipelines, chemical refineries, fertiliser plants, thermal power and offshore, with an in-house unit fully dedicated to the nuclear sector.

**Tectubi Raccordi** complies with the most stringent Client requirements and all relevant international specifications and standards. More than 90% of the Company's production is exported worldwide, confirming and reinforcing its long-established international reputation.

The Company is part of **Allied Group**, which manages the whole process (raw material procurement, project management, manufacturing, stock, distribution, delivery and related services) in the production and worldwide distribution of all types of buttwelding fittings, heavy walled pipes included.

### A strategic choice

In the **turned**, **bored & honed pipes** sector, **Tectubi Raccordi** has listened to the requirements of its clients in developing a precise strategic choice. It has built a solid partnership with the most accredited Italian suppliers of specific raw materials for specific applications, thereby guaranteeing a very select supply chain (e.g. Aso Group, Cena Interpipes, F.T.M. Foratura Tornitura Meccanica) whilst rigorously keeping the fundamental stages of heat treatments, non-destructive testing and final quality certification within its own manufacturing process.

This has created greater advantages for the market and for the most demanding clients, who get the best out of each manufacturing phase and benefit from a precise sales policy:

- high quality raw material
- · guaranteed final quality supplied directly by Tectubi Raccordi
- the capacity to supply clients with the quantity requested, even the smallest of orders
- prompt replies to enquiries about dimensions and specific tolerances, and about chemical, physical, mechanical and metallurgical characteristics
- design of the best technological solution for each application
- transparent supply chain fit for commercial relationships based on trust
  This mode of working has led to excellent market results and is also the best interpretation of the **Allied Group** philosophy.

# **TURNED, BORED & HONED PIPES**



## **DESCRIPTION**

The production process starts with a full round forged bar, which is cored using a steel core recovery process according to state-of-the-art production technologies (e.g. EAF+AOD for stainless steels, VOD for all steel grades, VAR/ESR for special applications) and steelmaking procedures (e.g. clean steel).

State-of-the-art heat treatment furnaces are used. Coupled with brand new batch and bell furnaces (up to 14 meters in length), special water tanks have been designed in-house to ensure the highest cooling rates during quenching even for large-size and heavy walled machined pipes. This production process, which is quite unique in its industrial sector, allows **Tectubi Raccordi** to obtain the most stringent and repeatable product characteristics (mechanical and metallurgical) on all of the bored pipe dimensions, up to 12 meters in length.

The resulting pipe can be turned and bored to the final required size. Meanwhile, the core can also be drilled to obtain a smaller size, which in turn can be bored again. This procedure can be repeated until the core can no longer be bored and turned. Final quality inspection (e.g. PT, UT, MT) and control (including certification and destructive tests), marking, packing, and shipping complete the manufacturing sequence, in strict compliance with HSE regulations (e.g. ISO:14001, OHSAS:18001) and main international standards.

### **MATERIALS**

Alloy steel (e.g. grades: P91, P92)

Stainless steel (e.g. grades: TP304H, TP316LN,

TP321H, TP347H, TP316L)

Duplex and Superduplex steel (e.g. UNS: S31803,

S32205, S32750, S32760)

Nickel alloy (e.g. UNS: N04400, N06625, N08800, N08825)



Material chemical composition, mechanical properties and metallurgical features are in accordance with the most used international standards (e.g. ASTM/ASME, EN, DIN, GOST) and Client specifications.

# PRODUCTION RANGE

Maximum Outer Diameter (OD)

1600 mm (larger sizes can be made upon request)

**Maximum Internal Diameter (ID)** 

**Maximum Wall Thickness (WT)** 

1200 mm

to be agreed with the Client



## **ADVANTAGES**

Possibility to produce medium and large sizes

Very close tollerance on OD/ID/WT	
OD	+/- 1 mm
ID	+/- 1 mm for standard not honed products
ID	H7 or H8 for honed pipes
WT	-0+1 mm or in any case within the tolerances on the difference between OD-ID
Roughness (Ra)	min >= 0.2 Micron

Possibility to produce different sizes from the original full bar

# APPLICATIONS FIELD

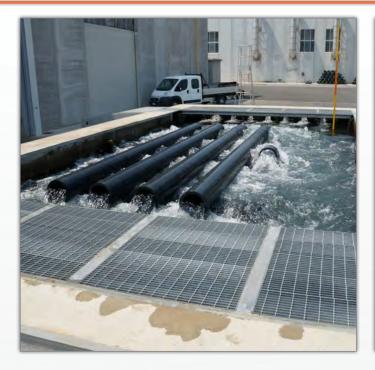
Power generation including nuclear Oil&Gas Offshore & Subsea **Petrochemicals** 





### **Head Office and Administration**

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Machinery and production process





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#### **Plants**

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Via G. Galilei, 1 - 29015 Castel San Giovanni (Piacenza) - Italy
Via Ancona, 27 - 29010 Calendasco (Piacenza) - Italy



### **Head Office & Administration**

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### Warehouse

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Tectubi Raccordi SpA. and Allied International SRL are part of Allied International Group



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