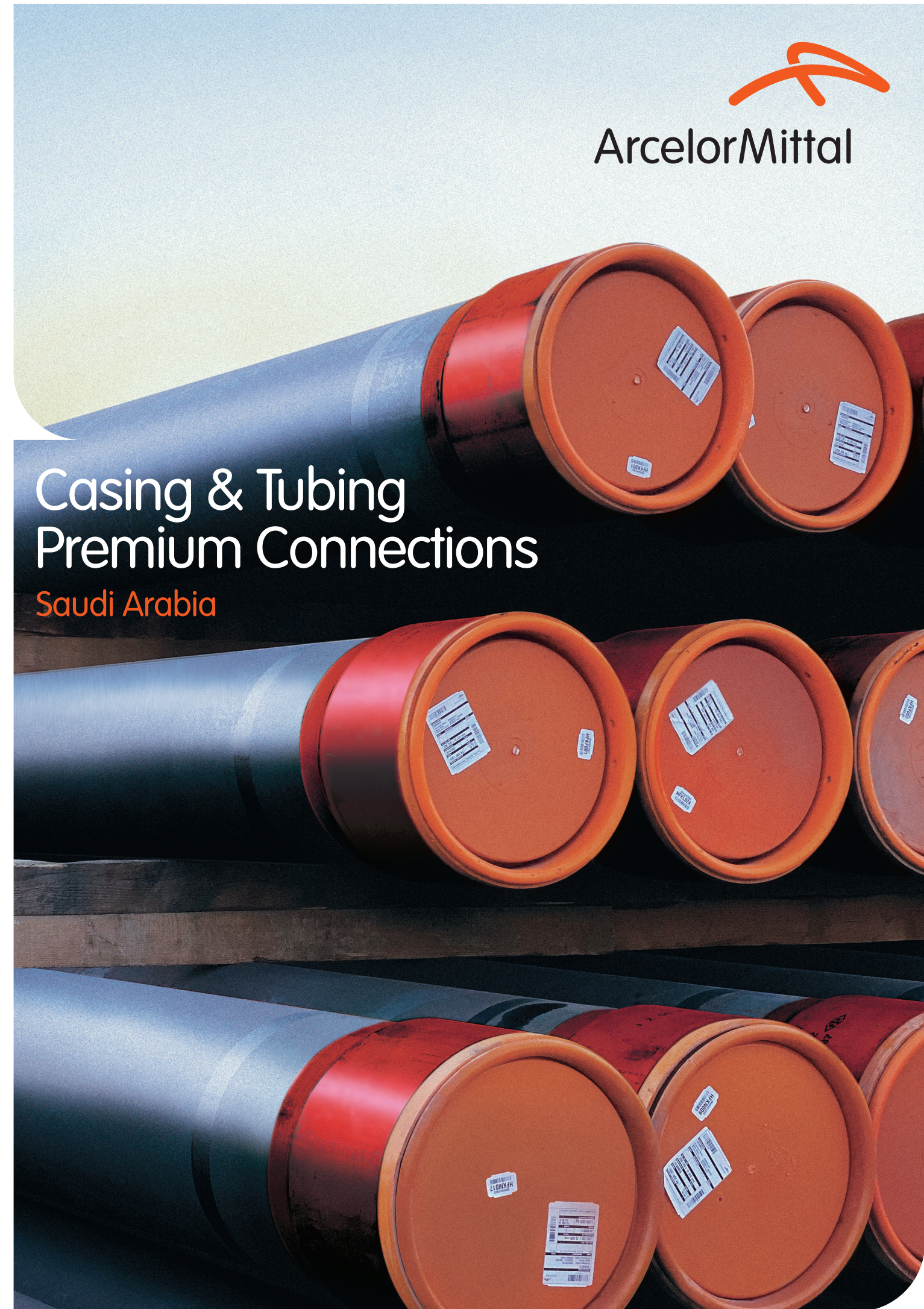




ArcelorMittal

Casing & Tubing Premium Connections

Saudi Arabia





ArcelorMittal is the world's
leading steel and mining
company

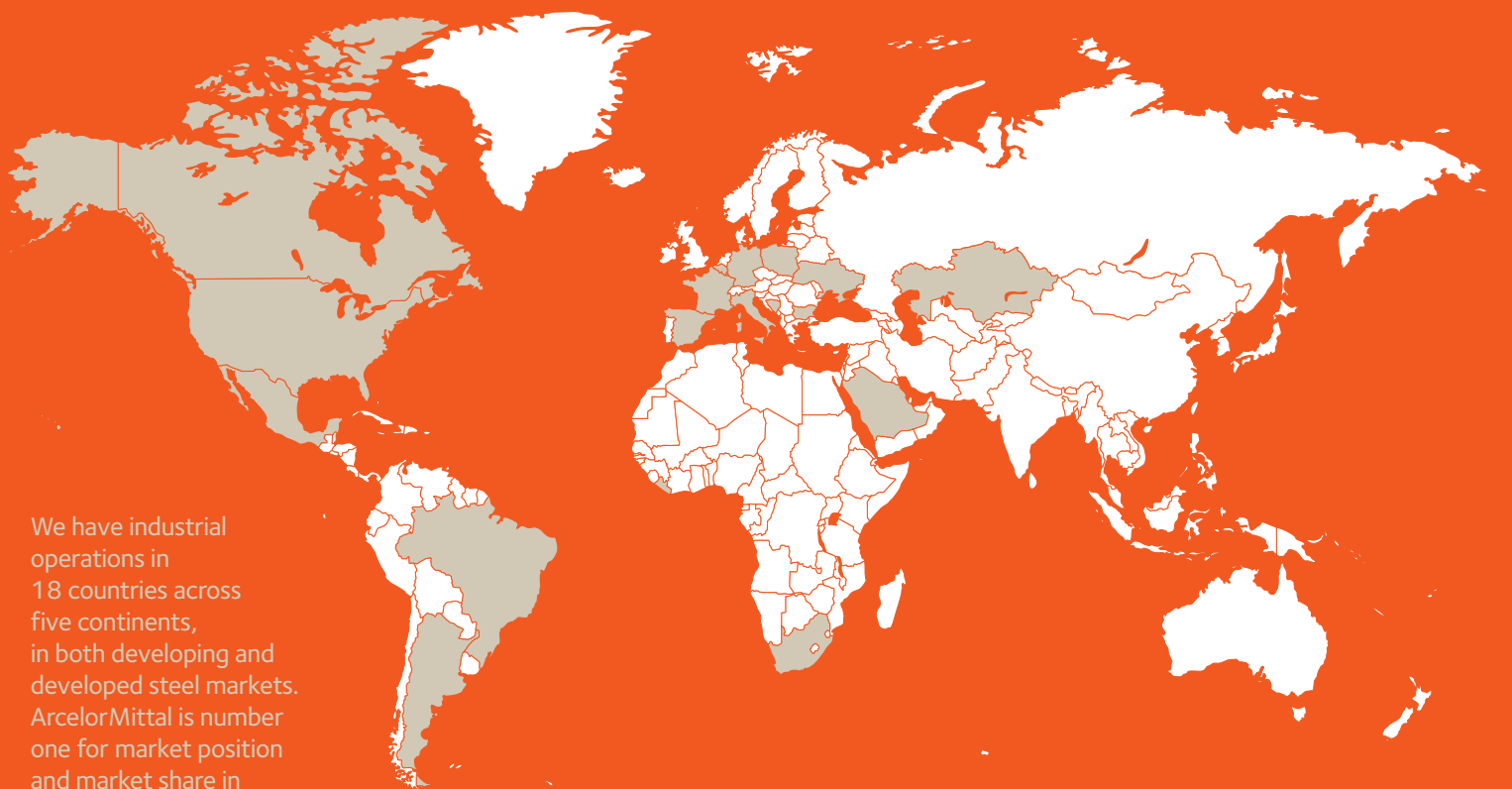
60
countries

209,000
employees
worldwide

118
million tonnes
crude steel annual
production
capacity

Guided by a philosophy to produce safe, sustainable steel, it is the leading supplier of quality steel products in all major markets including automotive, construction, household appliances and packaging.

ArcelorMittal is present in 60 countries and has an industrial footprint in 18 countries.



We have industrial operations in 18 countries across five continents, in both developing and developed steel markets. ArcelorMittal is number one for market position and market share in North and South America, Western Europe and CIS, and Africa.

Global Research & Development

Innovation is the key component of our company's success and growth.

For premium connection development, ArcelorMittal relies on a technical team based in Houston, state of the art facility in Jubail, and the R&D Center in Gent, Belgium (OCAS). A Premium Connection test frame has been installed in that center to perform full scale testing as per the latest industry standards. In order to continuously develop new tubular technologies and discover new trends that can help meet the customer's needs, here is the process followed:

Concept Design

Experienced, dedicated and recognized design engineers introduce new design concepts to challenge new environmental limits faced by our customers worldwide.

Finite Element Analysis

Performed in our centers to verify and validate new design concepts, including supporting our customers with our premium connection performance verification against the most complex operative scenarios.

Full Scale Testing and Qualification:

Our technologically advanced center is setup and designed for full scale testing of Premium Connections according to the latest version of ISO 13679 standard and API RP 5C5 protocol. Using our Test Frame we can simulate any required loading conditions requested by our customers for validation of our premium connection performance.

Improvement and Optimization:

Continuous improvement process and tubular product innovation is one of the key elements to keep in pace with the increasingly demanding E&P operations.

1400
researchers

10
R&D Centers

U\$S ~200
million
annual
investment



A state-of-the-art plant in the heart of Saudi Arabia

Located in Jubail, it features the most sophisticated seamless tube-making technology in the world.

ArcelorMittal's Jubail facility is a partnership by ArcelorMittal, the global leader in the integrated steel and mining sector, the Public Investment Fund (PIF), and Al-Tanmiah Industrial and Commercial Investment Company, to serve the energy producing markets of the Middle East, North Africa and beyond.

A full range of solutions

We supply the oil and gas industry with seamless tubes and other products for the industrial and construction markets. As every endeavor is unique, we work closely with project owners and contractors to customize product and service solutions to their specific needs and requirements.

With designed capacity of more than 600,000 tonnes per annum, Jubail's Premium Quality Finishing lines offers a full range of products suited for the upstream, midstream and downstream energy markets. Our goal is to provide the best in class quality, reliability, value and innovation to our local and international customers. With a strong support from technology and research and development, we supply pipes from 4 to 16 inches for OCTG applications, as well as seamless line pipes for onshore and offshore operations, as well as for refineries and fuel storage facilities.

Present in the Middle East

Jubail is a new industrial city founded by the Royal Commission of Jubail and Yanbu in the Eastern Province of the Kingdom of Saudi Arabia. The location -Jubail 2 Industrial City-, is adjacent to major land and sea transportation hubs, ensuring customers an efficient supply chain.

600,000
tonnes designed
capacity

25 km
to nearest port





Meet our Premium Connections family



AM-BLADE
Latest
technology
in the market



AM-HBC
Most reliable
in the oilfield





AM-C7S
Optimal
torsional
strength



AM-TS
Most proven
in the field



AM-BLADE

4 1/2" TO 13 5/8"

- > Latest Premium Connection generation, combined with the highest performance and most stringent Testing Qualification conditions.
- > Patented connection tested under API RP5C5 CAL IV. This is the latest and most severe testing protocol.
- > Product line qualification testing performed on broad size, weight and grade range. Connection incorporates the most advanced casing and tubing technology and has been designed for the most challenging combination of environments and well conditions.



Metal-to-Metal Seal

- > Reverse "ball & socket" seal provides outstanding gas tight seal
- > Engineered seal design provides flexibility to ensure seal integrity during bending
- > Seal geometry provides excellent anti-galling properties
- > Resistant to handling damage

Torque Shoulder

- > Wedge shaped torque shoulder provides seal stability
- > Large shoulder area for high compression resistance
- > Ensures precise make up position control

Thread Profile

- > Run out thread provides maximum pipe body area for tension and compression
- > Hooked threads lock the joint together for maximum tension loads and preventing jump out
- > Steep stab flank angle and torque shoulder provide maximum compression and bending resistance
- > Thread form design provides excellent anti-galling properties

Other features

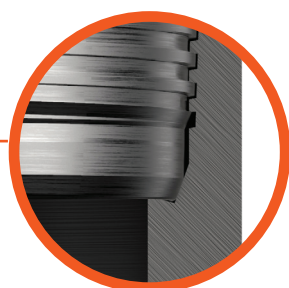
- > Optimized coupling OD for maximum joint strength and downhole clearance
- > Each weight optimized for maximum performance



AM-HBC

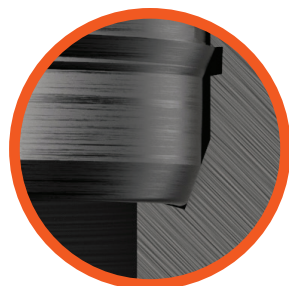
3 1/2" TO 13 3/8"

- > Successfully tested under ISO 13679:2002 CAL-IV and operator test protocols
- > Product line qualification testing performed on broad size, weight and grade range
- > Field proven design
- > Suitable for use in wide range of applications
- > Robust design
- > Easy running



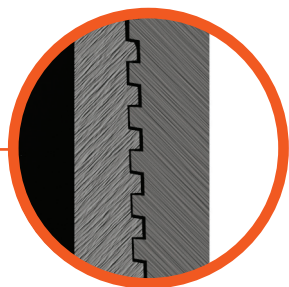
Metal-to-Metal Seal

- > Conical seal provides high performing gas tight seal
- > Seal geometry provides excellent anti-galling properties



Torque Shoulder

- > Negative angle torque shoulder to enhance sealing
- > Ensures precise make up position control
- > Provides compression resistance in combination with the threads



Thread profile

- > Run out thread provides maximum pipe body area for tension and compression
- > Hooked threads lock the joint together for maximum tension loads and preventing jump out
- > Steep stab flank angle and torque shoulder provide compression and bending resistance
- > Thread form design provides excellent anti-galling properties

Other features

- > Optimized coupling OD for maximum joint strength and downhole clearance
- > High compression option

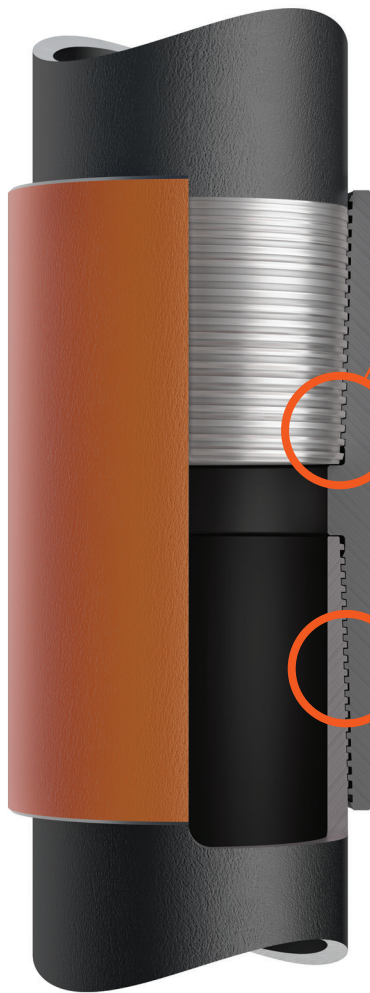


AM-C7S

4 1/2" TO 13 3/8"

- > Based on API Buttruss design
- > Coupling torque shoulder for increased torsional strength
- > Designed for any application for API Buttruss where greater torsional strength is required
- > AM-C7S Couplings may be assembled with standard BTC pin*
- > AM-C7S Pins may be assembled with standard BTC coupling
- > BTC based thread design for easier operations
- > Same ease of running as API BTC

*Torsional strength may be reduced during using the standard BTC pin



Torque Shoulder

- > Provides enhanced torsional strength
- > Allows controlled make up position for lower stresses
- > Make up connections to specified torque values
- > Better compression resistance than API BTC
- > High yield torque value

Thread profile

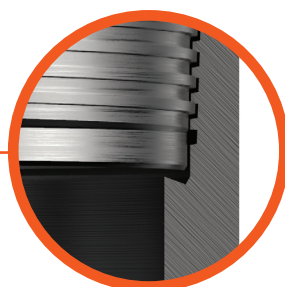
- > Standard API BTC thread form on both pin and coupling
- > BTC thread seal
- > Pressure and tension performance properties are same as BTC



AM-TS

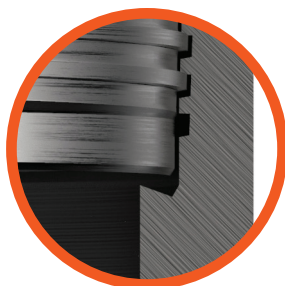
4 1/2" to 9 5/8"

- > Extensive field usage
- > Metal-to-Metal seal
- > Smooth bore for better fluid flow
- > Modified BTC thread form
- > Gap between the box root and the pin crest for the excess of thread compound



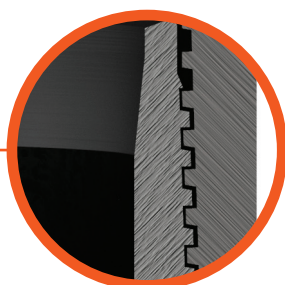
Metal-to-Metal Seal

- > Galling resistant seal
- > Better sealability than API connections
- > Suitable for higher temperatures than API connections



Torque Shoulder

- > Enhances the sealing
- > Enhanced compression resistance
- > Provides positive stop during make up



Thread profile

- > Modified buttress thread profile reduces galling
- > Additional thread clearance allows for excess thread compound





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