



Group Five Pipe Saudi Ltd.

 2nd Industrial City Dammam 31492,
Kingdom of Saudi Arabia

 +966-13-8123110
For Sales Dial: 200, 215

 www.g5ps.com

 info@g5ps.com

Pipe Making Manufacturing

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COMPANY PROFILE

Group Five Pipe Saudi is an affiliate of Abdel Hadi Abdullah Al-Qahtani and sons Group Five companies (Tariq Abdel Hadi Al-& Bros.) Group Five Pipe Saudi is one of the leading carbon Steel manufacturers of large diameter spiral welded pipes. Annual capacity of Group Five is now exceeding 650.000 tons making it the largest manufacturer in the Middle East

Vision

"Since its foundation in 2001, Group Five vision was to be the leading manufacturer of large diameter spiral SAW line pipe conforming to various international specification."

Mission

"Group Five Pipe Saudi commits to fostering a community of excellence through strategic leadership and service of the highest quality."



APPLICATIONS



Water
40%



Oil
30%



Gas
20%



Pilling/Casting
10%

Product Scope

Helical Submerged-Arc Welded Pipes (HSAW)



Diameters:

API: 20 inch – 84 inches
Non-API: 20 inch – 120 inches



Plate Thickness:

0.25 inch – 1 inch
(6.35mm – 25.4mm)



Pipe Length:

10m – 24m
(32.8ft – 80ft)

Common Base Material:

API Grade up to X80

Group Five Plant Size

- Total Area: 301,000 M²
- Storage Total Area: 165,000 M² with 5 Production Lines

Capacity and storage

- CS Pipes production = 550,000 annual MT capacity
- Hot Rolled Coils Storage Capacity = 100,000 MT
- CS Pipes Storage Capacity = 2,000 Pipes



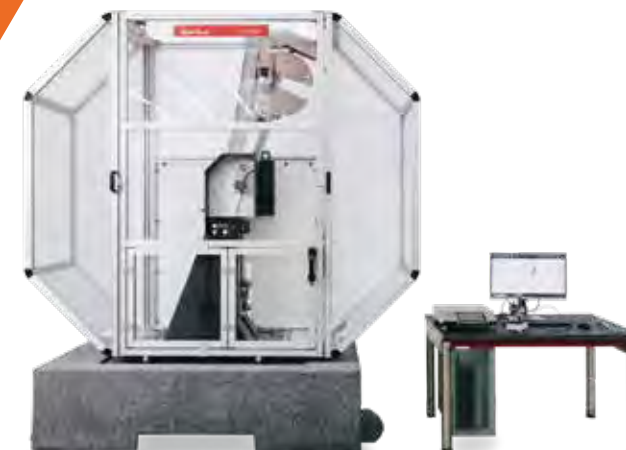
Line #5:

- » Line #5 is the latest installed state - of- art line that was fully commissioned in 2019 and procured from the German company "Schuler" with an investment of more than 430 million Saudi Arabian Riyal.
- » The Line is fully automated, producing with a speed of 10 metres/minute, which results in one pipe produced every 15 minutes.
- » The line is fully covered, air conditioned and can store more than 40 pipes in each station.



Laboratory

- Universal Testing Machine (UTM)
- Charpy Impact Tester
- Drop Weight Tear Testing (DWTT) Machine
- Spectrometer
- Hardness Tester
- Sample Conditioning System
- Microscope
- Sample Preparation Equipment



Quality Management

Pipes manufactured at G5PS facility can be tested to international specifications such as API 5L, ISO, ASTM, AWWA, BS and national Specifications such as Saudi ARAMCO's Requirements (SAMSS) and SWCC Specification for Steel Pipes (M01).

G5PS maintaining a well-established quality management system based on API Q1 and ISO 9001:2015. Pipes manufactured at G5PS facility can be tested to international specifications such as API 5L, ISO, ASTM, ASME, AWWA, BS and national Specifications such as Saudi ARAMCO's Requirements (SAMSS) and SWCC Specification for Steel Pipes (M01).

Material Sourcing:

Great emphasis is placed on raw material quality specifications and requirements. Through rigorous controls on vendor evaluation/selection system, purchasing process and material acceptance process, we ensure that the right material is sourced from the most appropriate vendor. pipes are manufactured, inspected and tested using state of the art equipment.



Non-Destructive Testing Facility:

- A. Ultrasonic Testing (UT) Units:
Online Automatic UT Unit: To ensure that the weld seam of the pipe being produced and the base plate is flawless.
- B. Manual UT Unit: To further examine the size and nature of defects in the weld metal or pipe body by utilizing portable unit.
- C. Offline Automatic UT Unit: Special supplementary tests required by some clients
- D. Radiographic Inspection Units:
 - 1. Radiographic Inspection: X-rays are utilized to assess the size and nature of defects using digital and conventional radiography technique.
 - 2. Pipe End Inspection: X-rays are used to capture the image of the pipe end welds digitally or on radiographic film.
- E. Visual Inspection Setups:
 - 1. In Process Visual Inspection (HRC): To inspect the HRC being fed into pipe mill for pipe manufacturing.
 - 2. In Process Visual Inspection (Pipes): To inspect surface defects and verify physical dimensions.
- F. Final Inspection: To verify if the product meets all the requirements and decide its final status.
- G. Hydrostatic Pressure Testing Unit:
To verify strength and ensure durability of the pipes.
- H. Residual Magnetism Measurement Equipment:
To ensure residual magnetism is within acceptable limits in order to facilitate joint welding of pipes at site.
- I. Hardness Testing:
Portable hardness tester is utilized to verify the hardness of hard spots identified on pipe.

Destructive Testing Facility:

- A. Universal Testing Machine:
- B. Tensile Testing: To check the yield strength, tensile strength and elongation in the material.
- C. Guided Bend Testing: To ensure proper fusion of weldment and parent metal.
- D. Impact Testing Machine:
To test the fracture toughness of the pipe body, weld and heat affected zone (HAZ).
- E. Chemical Testing Machine:
To verify the chemical composition of the metal.
- F. Hardness Testing Machine:
To check hardness of the material.
- G. DWTT Testing Machine:
To determine material characteristics such as brittle fracture resistance arrest.

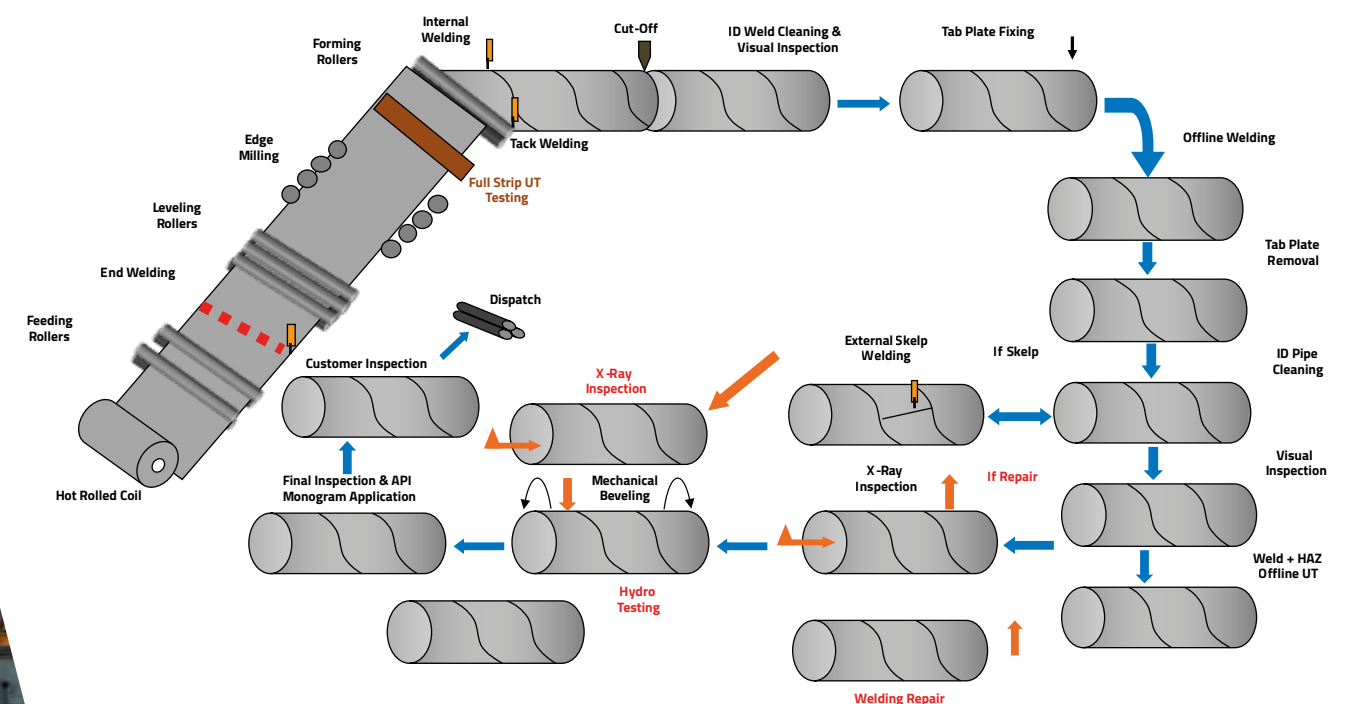


Health, Safety & Environment

Our leadership actively integrates safety into our business strategies, processes, and performance measures to build a strong safety culture. Integrated with our company-wide rollout of an operational excellence framework is a safety management system that empowers organizations to identify and mitigate risks to improve safety performance.

This top-down/bottom-up approach to mitigating safety risks creates a work culture that places a premium on ensuring employees have the training, equipment, and protocols they need to complete tasks safely.

Process Flow Diagram



Certification & Approvals

- ▶ API Monogram License.
- ▶ EN ISO 9001:2015 Certification.
- ▶ SAUDI ARAMCO Approval.
- ▶ SWCC Approval.
- ▶ TRANSCO Approval.
- ▶ NWC Approval.
- ▶ NEOM Approval.
- ▶ SAIPEM Approval.
- ▶ KOC Approval.
- ▶ ADWEA Approval.

Group Five Projects History Major Clients (by Production):



مجموعة شركات عبد الهادي عبدالله القحطاني وأولاده
Abdel Hadi Abdullah Al-Qahtani & Sons Group of Companies
طارق القحطاني وإخوانه
Tariq Al-Qahtani & Bros.



Al-Qahtani Pipe Coating Industries		Abdel Hadi Abdullah Al-Qahtani & Sons	
Group Five Pipe Saudi Ltd.		Al Qahtani Vehicle & Machinery Co.	
Earadat Transport Co. Transportation and Custom Clearance		Al-Jazirah Water Treatment Chemicals	
Abdul Hadi Al-Qahtani Travel Bureau		Al-Qahtani Nails & Galvanized Wire Factory	
Southern Gas Company		Pipelines Flow Chemicals (L.L.C)	
Al-Jazirah Water Company		Pipe & Wells Operation & Maintenance Services Co.	
Al-Hijaz Water Company		Abdel Hadi Abdullah Al-Qahtani & Sons Co. Security Systems Division	
Arabian Commercial Services Co. Ltd.		Abdel Hadi Abdullah Al-Qahtani & Sons Co. Security Guarding Services Division	
Shams Aljazira Schools "for Boys"		Riyadh Polypropylene Woven Sacks Co.	
Al Qahtani Riyal		Abdel Hadi Abdullah J. Al-Qahtani & Sons Farms	
Al-Qahtani PCK Pipe Company		Izar Insurance Brokerage Company	

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