

# STAINLESS STEEL PIPES AND TUBES





## Chairman's Message



Dear Business Partner

As the Hidayath Group approaches its 45th anniversary, we are proud of our dynamic growth in the architectural, industrial and service industry. To achieve this growth, HIDAYATH has capitalized on select opportunities including strategic expansion, several discrete acquisitions and exciting forays into new geographic markets.

Our ambitions are to provide total solutions in stainless steel and allied metals across different industries and services. As part of our ongoing effort to further our presence across the globe, we are tirelessly developing solutions by offering expertise in design and support it with continuous life-cycle services.

Commitment to training our personnel, along with continuously upgrading and modernizing our equipment and methods cements further our relationship with our diverse clientele.

Going forward, as a business partner, our commitment is that HIDAYATH Group of Companies will continue to strengthen its position as the premier solution provider in the existing markets and beyond.

We look forward to continuing to serve all your stainless steel and allied metal needs.

Sincerely,

**Hidayathulla Abbas**  
Chairman Hidayath Group





## Group Profile

Founded by Hidayathullah Abbas in 1976, Hidayath Group has emerged as a global enterprise providing world-class stainless steel and allied metal products and solutions to the Architectural and Industrial sectors.

Headquartered in Dubai, UAE, the Group operates in more than twenty countries across five continents, with a mission to achieve global leadership as the complete solution provider in stainless steel and allied metals.

Manufacturing, Material Supplies and Services form the core of Hidayath Group's business that commenced in Abu Dhabi four decades ago and today enjoys an enviable customer base in Architectural and Industrial sectors across all emerging markets worldwide.

Our pragmatic growth is an attribute to our able leadership and a dedicated workforce that understands and complies with the group initiatives and underlined objectives.

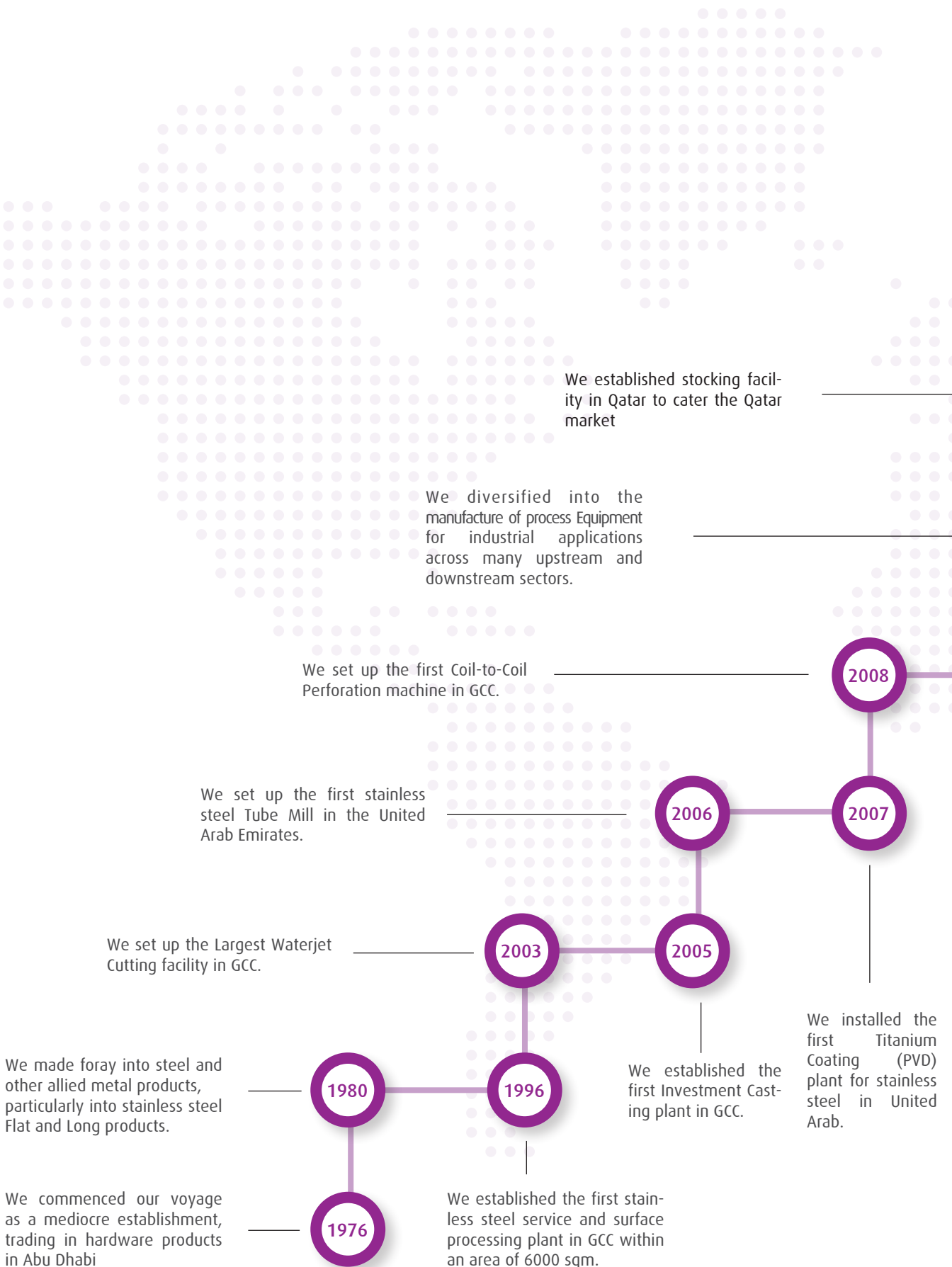
Going forward, the group continues to invest in training its personnel, technologically advanced machinery, strategic acquisitions and well-planned forays into new markets.

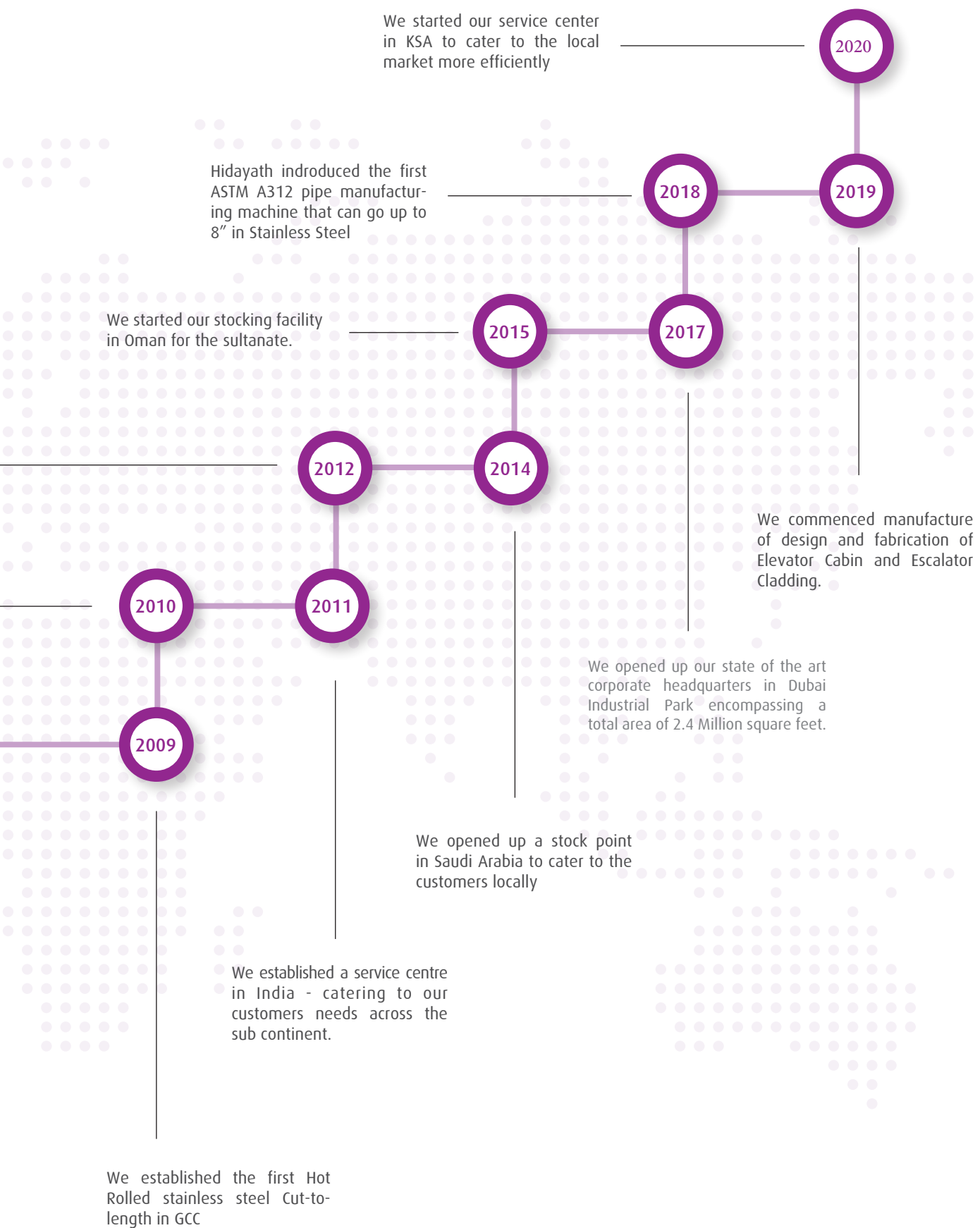
Our Architectural line of business primarily focuses on manufacturing and supplies of world-class architectural products and solutions in stainless steel and other allied metals. We pride ourselves in being pioneers in the manufacturer of stainless Handrail Equipment and Glass Fittings under our brand name **H-Fit** and also produce custom Bathroom Equipment and Accessories under the brand name **H-bath**, apart from being one of the largest manufacturers of ornamental Pipes, Tubes & Fittings for architectural applications. We also produce Gratings, Channels, Bollards, Tac Tiles (Long & Round), Metal Doors & Flag Posts in Stainless Steel and associated metals.

We procure, stock and supply large inventories in stainless steel finished and semi-finished long, Flat and Tubular products for architectural applications in addition to a wide array of surface treatment essentials.

- In Longs, we supply Angles, U-Channels, Round, Square and Flat Bars.
- In Flats, we supply Sheets, Plates and Coils.
- In Tubulars, we supply Pipes, Tubes with Groove and Fittings.
- In Surface Treatment chemicals, we supply cleaning essentials and Abrasives.

# Group History & Milestones









# Stainless Steel Pipes & Tubes

## Overview

Hidayath Group has emerged as a global enterprise providing world-class stainless steel and allied metal products and solutions to the Architectural and Industrial sectors. Headquartered in Dubai, UAE, the group serves in more than twenty countries across five continents, with a mission to achieve global leadership as the complete solution provider in stainless steel and allied metals.

The **Tubes and Pipes** division at HIDEYATH is one of the industry's largest manufacturers and suppliers of stainless steel tubes, pipes and pipe fitting in Grade 304 and 316. In fact, we maintain the largest and most diversified inventory of ornamental and industrial stainless steel tubing, including round, square, rectangular tubing, oval and grooves.

Our state-of-the-art in-house production and polishing facility allows custom cut and finishes stainless steel pipes and tubing to match the customer needs and desired specifications.

We are a professionally managed company and ISO 9001:2008 certified. Our state of the art manufacturing facility is located in Dubai Industrial Park, Dubai, UAE with strategic access to seaport and airport thus enabling us to have better connectivity to any destination across the globe for faster & smoother deliveries.

# Products

## Stainless Steel

### A312

Pipe Size	Outside Diameter	Sch. 5	Sch 10	Sch. 40	Sch 80
Inch/ mm	Inch/ mm	Inch/ mm	Inch/ mm	Inch/ mm	Inch/ mm
1/2 / 12.7	0.84 / 21.34	0.065 / 1.65	0.083 / 2.11	0.109 / 2.77	0.147 / 3.73
3/4 / 19.01	1.05 / 26.67	0.065 / 1.65	0.083 / 2.11	0.113 / 2.87	0.154 / 3.91
1 / 25.4	1.315 / 33.4	0.065 / 1.65	0.109 / 2.77	0.133 / 3.38	0.179 / 4.55
1 1/4 / 31.8	1.66 / 42.2	0.065 / 1.65	0.11 / 2.77	0.14 / 3.56	0.191 / 4.85
1 1/2 / 38.1	1.9 / 48.26	0.065 / 1.65	0.109 / 2.77	0.145 / 3.68	0.2 / 5.08
2 / 50.8	2.375 / 60.33	0.065 / 1.65	0.109 / 2.77	0.154 / 3.91	0.218 / 5.53
2 1/2 / 63.5	2.875 / 73.03	0.083 / 2.11	0.12 / 3.05	0.203 / 5.16	0.276 / 7.01
3 / 76.2	3.5 / 88.9	0.083 / 2.11	0.12 / 3.05	0.216 / 5.49	0.3 / 7.62
3 1/2 / 88.9	4 / 101.6	0.083 / 2.11	0.12 / 3.05	0.226 / 5.74	0.318 / 8.08
4 / 101.6	4.5 / 114.3	0.083 / 2.11	0.12 / 3.05	0.237 / 6.02	0.337 / 8.56
5 / 127.0	5.563 / 141.3	0.109 / 2.77	0.134 / 3.40	0.258 / 6.55	0.375 / 9.52
6 / 152.4	6.625 / 168.28	0.109 / 2.77	0.134 / 3.40	0.28 / 7.11	0.432 / 10.98
8 / 203.2	8.625 / 219.08	0.109 / 2.77	0.148 / 3.76	0.322 / 8.18	0.5 / 12.70

#### TITLE

Seamless and Welded Austenitic Steel Pipe for high temperature and general corrosive duties.

#### METHOD OF MANUFACTURE

Seamless or automatic welding with no filler metal. Pipe may be hot or cold finished.

#### TOLERANCES

##### Nominal Pipe Size

1/8" to 1 1/2", Inclusive  
 Over 1 1/2" to 4", Inclusive  
 Over 4" to 8", Inclusive  
 Over 8" to 18", Inclusive  
 Over 18" to 26", Inclusive  
 Over 26" to 30", Inclusive

Over

0.40  
 0.80  
 1.60  
 2.40  
 3.20  
 4.80

##### Permissible variations in Outside Diameter

Under

0.80  
 0.80  
 0.80  
 0.80  
 0.80  
 0.80

Minimum wall thickness not more than 12.5% under Nominal Wall.

#### HEAT TREATMENT

All grades will be supplied in the heat treated condition.

#### TESTS

1. Tensile Tests (a) Tensile Strength (b) Yield Strength (c) Elongation.
2. Flattening Test
3. Hydrostatic Test
4. Grain Size (S32615, 309H, 309Hcb, 310, 310Hcb, 321H).



# Products

## Stainless Steel A554

### (A) Round Profile

Finish - 2B, Brush (#400), Satin, #600 (Standard Polish), #800 (Super Mirror)

Length - 6 m (Standard), 3m. Custom length available on request.

Size (Dia) mm	Thickness (mm)								
	1*	1.2	1.5	1.65	2	2.5	3	3.5	4
12.7	●	●	●	●					
15.87	●	●	●	●					
16.0	●	●	●	●					
19.05	●	●	●	●	●				
21.34	●	●	●	●	●				
25.0	●	●	●	●	●				
25.4	●	●	●	●	●	●			
31.8	●	●	●	●	●	●			
33.4		●	●	●	●	●	●	●	
38.1		●	●	●	●	●	●	●	
42.2		●	●	●	●	●	●	●	
48.3		●	●	●	●	●	●	●	●
50.8		●	●	●	●	●	●	●	●
60.3			●	●	●	●	●	●	●
63.5			●	●	●	●	●	●	●
73.05			●	●	●	●	●	●	●
76.2			●	●	●	●	●	●	●
88.9			●	●	●	●	●	●	●
101.6			●	●	●	●	●	●	●
114.3					●	●	●	●	●

\*Customized

### (B) Rectangular Profile

Finish - 2B, Brush (#400), Satin, #600 (Standard Polish), #800 (Super Mirror)

Length - 6 m (Standard), 3m. Custom length available on request.

Size (Dia) mm	Thickness (mm)								
	1*	1.2	1.5	1.65	2	2.5	3.0	3.5	4.0
20 x 10	■	■							
30 x 15	■	■	■						
40 x 20	■	■	■	■	■				
50 x 25		■	■	■	■				
60 x 30		■	■	■	■	■			
80 x 40			■	■	■	■	■		
100 x 50			■	■	■	■	■		
25.40 x 50.80			■	■	■				
50.80 x 101.60			■	■	■	■	■		

\*Customized



# Products

## (C) Square Profile


Finish - 2B, Brush (#400), Satin, #600 (Standard Polish), #800 (Super Mirror)  
Length - 6 m (Standard), 3m. Custom length available on request.

Size (Dia) mm	Thickness (mm)								
	1*	1.2	1.5	1.65	2	2.5	3	3.5	4
10 x 10	■	■							
15 x 15	■	■	■						
20 x 20	■	■	■	■	■				
25 x 25		■	■	■	■				
30 x 30		■	■	■	■				
38.1 x 38.1		■	■	■	■				
40 x 40		■	■	■	■	■	■		
50 x 50		■	■	■	■	■	■	■	■
60 x 60			■	■	■	■	■	■	■
70 x 70			■	■	■	■	■		
80 x 80			■	■	■	■	■	■	■
12.70 x 12.70	■	■	■						
15.87 x 15.87	■	■	■						
19.05 x 19.05	■	■	■	■	■				
31.80 x 31.80		■	■	■	■				
50.80 x 50.80			■	■	■	■	■		
63.50 x 63.50			■	■	■	■	■		
76.20 x 76.20			■	■	■	■	■		
101.60 x 101.60			■	■	■	■	■		

## (E) Profile Tubes

\*Customized

Finish - 2B, Brush (#400), Satin, #600 (Standard Polish), #800 (Super Mirror)  
Length - 6 m (Standard), 3m. Custom length available on request.

AS	SDSD			
		1.5	1.65	2
2"- 3" Groove		▼	▼	▼
76x38 Oval		▼	▼	▼
86x58 Oval Groove		▼	▼	▼
2" D Shape				

### TITLE

Welded ferritic and Austenitic Steel Tubing for mechanical applications, where appearance, mechanical properties or corrosion resistance is required.

### GRADES

MT. 301, 302, 304, 304L, 305, 309S, 309S-Cb, 310S, 316, 316L, 317, 321, 330, 347, 429, 430, 430 Ti.

### METHOD OF MANUFACTURE

Tubes shall be made from flat rolled steel by an automatic welding process without filler metal.

Tubes can be supplied in any of the following conditions:

- as welded, welded and annealed, cold reduced and annealed, inside weld bead not removed,
- inside weld bead controlled, inside weld bead removed.

### TOLERANCES

DIAMETER, WALL \* AND OVALITY TOLERANCES (All Conditions Except Tubing with Bead Removed)

# Products

## OD Size, in. (mm)

## Wall Thickness

## OD.±

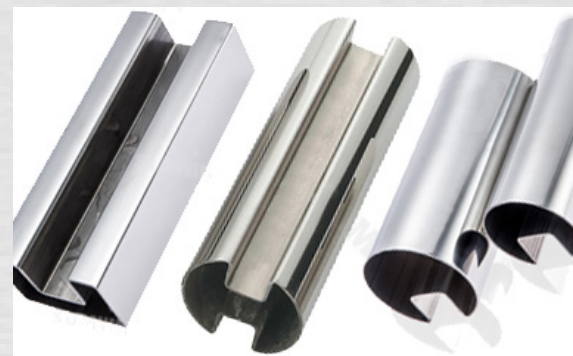
	Wall Thickness		OD.±	
	in.	mm	in	mm
Under 1/2 (12.7)	0.020 to 0.049	0.51 to 1.24	0.004	0.10
1/2 to 1 (12.7 to 25.4)	0.020 to 0.065	0.51 to 1.65	0.004	0.10
1/2 to 1 (12.7 to 25.4)	over 0.065 to 0.134	over 1.65 to 3.40	0.005	0.13
Over 1 to 1 1/2 (25.4 to 38.1), inc	0.025 to 0.065	0.64 to 1.65	0.010	0.25
Over 1 to 1 1/2 (25.4 to 38.1), inc	over 0.065 to 0.134	over 1.65 to 3.40	0.008	0.20
Over 1 to 2 (38.1 to 50.8), inc	0.025 to 0.049	0.64 to 1.24	0.010	0.25
Over 1 to 2 (38.1 to 50.8), inc	over 0.049 to 0.083	over 1.24 to 2.11	0.010	0.25
Over 1 to 2 (38.1 to 50.8), inc	over 0.083 to 0.149	over 2.11 to 3.78	0.011	0.28
Over 2 to 2 1/2 (50.8 to 63.5), inc	0.032 to 0.065	0.81 to 1.65	0.012	0.30
Over 2 to 2 1/2 (50.8 to 63.5), inc	over 0.065 to 0.109	over 1.65 to 2.77	0.012	0.30
Over 2 to 2 1/2 (50.8 to 63.5), inc	over 0.109 to 0.105	over 2.77 to 4.19	0.013	0.33
Over 2 1/2 to 3 1/2 (63.5 to 88.9), inc	0.032 to 0.165	0.81 to 4.19	0.014	0.36
Over 2 1/2 to 3 1/2 (63.5 to 88.9), inc	over 0.165	over 4.19	0.014	0.36
Over 3 1/2 to 5 (88.9 to 127.0), inc	0.035 to 0.165	0.89 to 4.19	0.020	0.50
Over 3 1/2 to 5 (88.9 to 127.0), inc	over 0.165	over 4.19	0.020	0.50

0.00125in./in. or mm/mm of circumference

\*Wall Tolerance is ±10 percent of nominal wall thickness.

### TESTS

Supplementary Tests specified by customer



# Certification





## Quality Policy

Hidayath Group strives hard for full customer satisfaction by providing good quality products/services, which represent good values for money at the most economical cost.

Hidayath Group is committed to produce the highest quality product, related services and anticipate that it's products, would become world-class and the first choice for consumer by monitoring and improving quality management system processes, products, services and training, developing by motivating personnel.

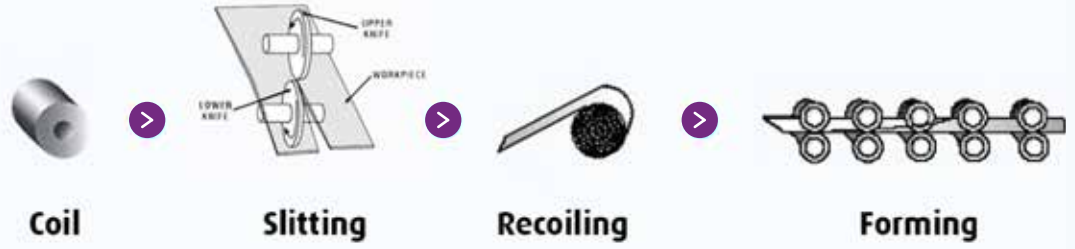
The management's objective is to achieve the following:

- To improve the quality of products
- Enhance the customer satisfactions
- To solidify the company's identity with customer
- To improve employee's well being
- To improve profitability and company value
- Enhance risk base thinking everywhere in our organization
- Communicate the Quality Policy to all the employees, suppliers, customers & other interested parties.

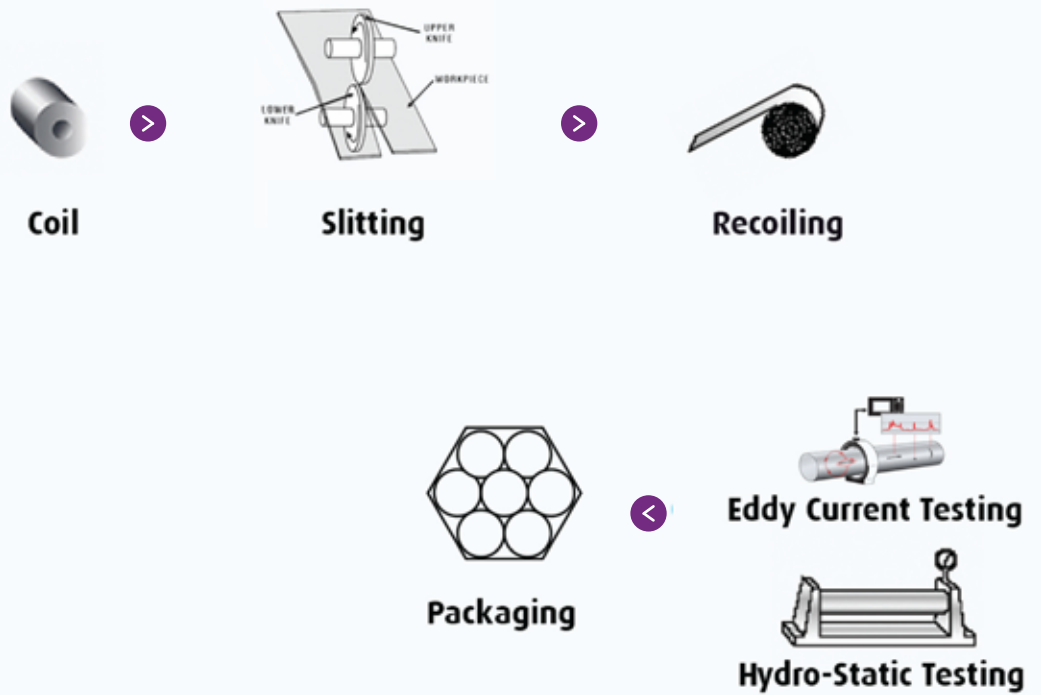
Hidayath Group is committed to review the Quality Policy & Objectives, periodically, to ensure its continuing suitability. We are also committed to comply with customer and regulatory requirements and continually improve the effectiveness of the Quality Management system.

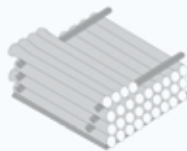
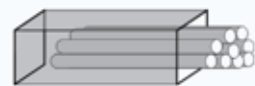
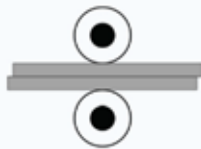
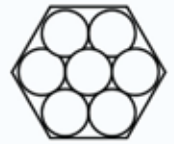
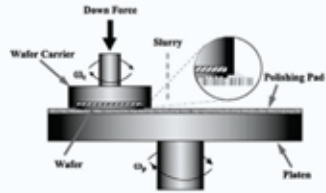
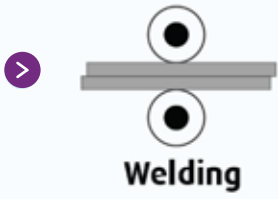
# Stainless Steel Pipe & Tube Manufacturing Process

A554



A312

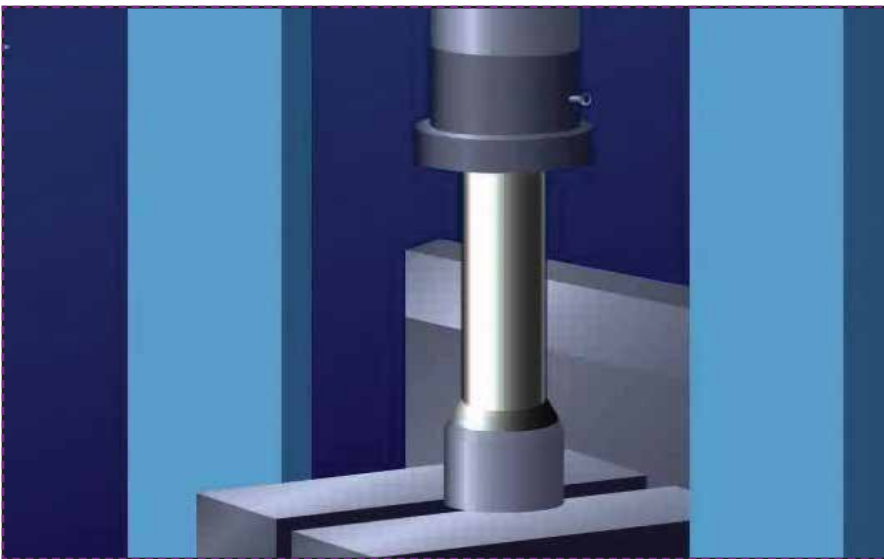






### Hydro-static Testing

Hydrotesting of pipes, pipelines and vessels is performed to expose defective materials that have missed prior detection, ensure that any remaining defects are insignificant enough to allow operation at design pressures, expose possible leaks and serve as a final validation of the integrity of the constructed system. ASME B31.3 requires this testing to ensure tightness and strength.



### Flaring Testing

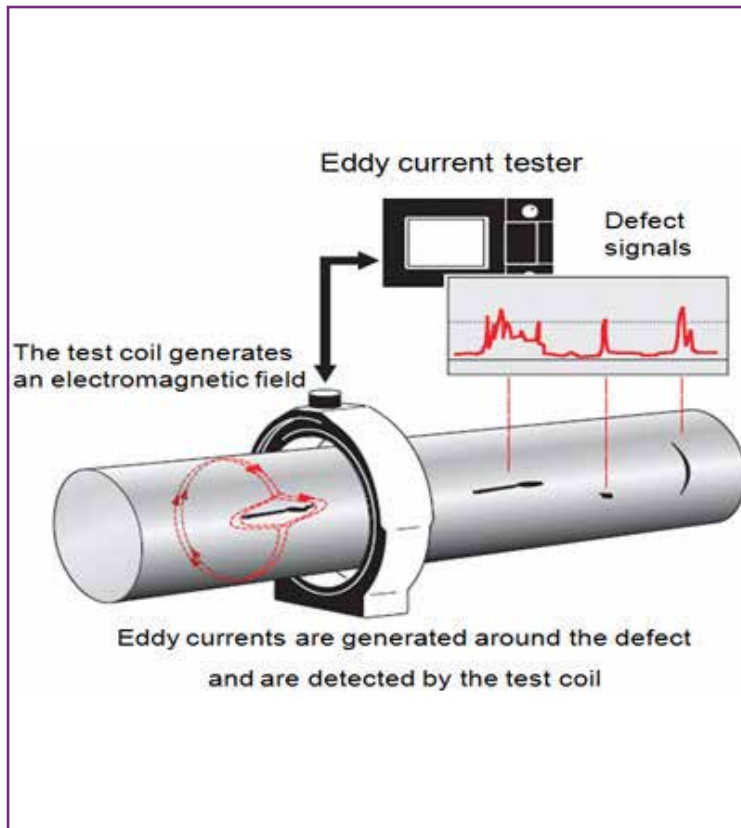
Flaring test is that either end of a sample is inserted by a tapered mandrel with  $60^\circ$  angle at speed of 20-50mm/min. Till the end's outside diameter is expanded to the original 115%. The sample without cracks is qualified.



### Universal Testing

The UTM is a versatile and valuable piece of testing equipment that can evaluate materials properties such as tensile strength, elasticity, compression, yield strength, elastic and plastic deformation, bend compression, and strain hardening.

At Hidayath the tubes and pipes are tested in every aspect to provide better to our customers.



### Eddy Current Testing

Eddy current (EC) testing is a non contact method for the inspection of metallic parts. Eddy currents are fields of alternating magnetic current that are created when an alternating electric current is passed through one or more coils in a probe assembly. When the probe is linked with the part under inspection, the alternating magnetic field induces eddy currents in the test part. Discontinuities or property variations in the test part change the flow of the eddy current and are detected by the probe in order to make material thickness measurements or to detect defects such as cracks and corrosion



### Spectrometer

Rather than relying on Material Test Reports (MTR) –which do not provide 100% certainty – a handheld XRF alloy analyzer allows our inspectors to make instant checks that the alloy is the proper material and it provides final verification of the alloys prior to shipment to our customers who require this procedure.

Many of our customers are now requiring complete Positive Material Identification (PMI), especially of their critical manufactured components. Our handheld XRF analyzer provides the analysis required, and the data storage and report generation capabilities to fulfill this need.





