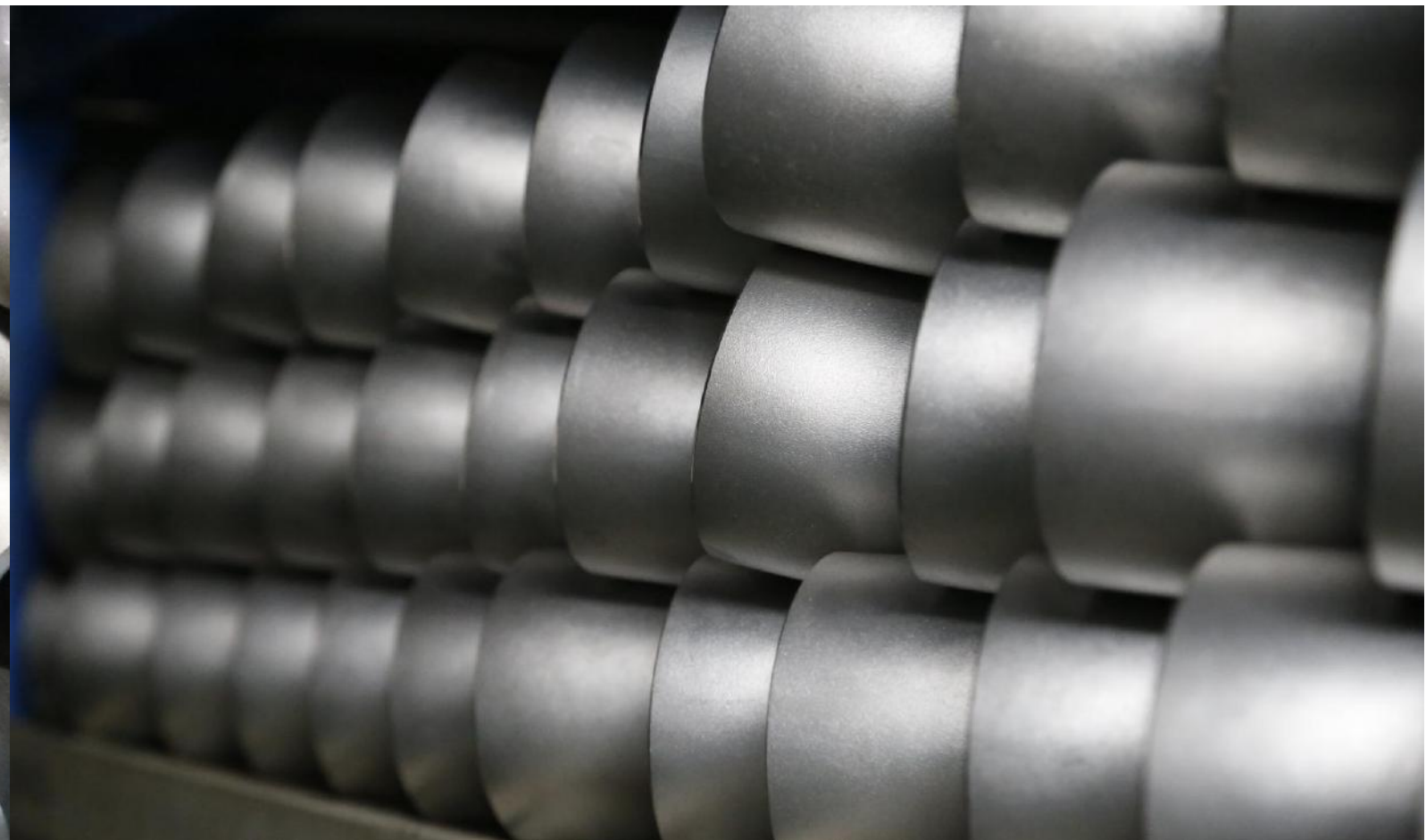




**GLEN FLANGE** *limited*  
FOCUS ON MARINE INDUSTRY

# YOUR EXCELLENT PARTNER



**QUALITY + SPEED + PRICE +**



# PRODUCT RANGE



## Standard Fittings

Type of product	Dimensions	Steels	Execution
Elbows	Up to 120"	All grades	Seamless and welded(cold formed, hot formed and by mandrel)
Equal and reducing tees	Up to 120"	All grades	Seamless and welded(cold formed and hot formed)
Concentric and eccentric reducers	Up to 120"	All grades	Seamless and welded(cold formed and hot formed)
Caps	Up to 120"	All grades	Seamless(cold formed and hot formed)

## Special Fittings

Type of product	Dimensions	Steels	Execution
Reducing elbows	Up to 60"	All grades	Seamless and welded
Special radius bends (3D)	Up to 56"	All grades	Seamless and welded segmentable
Special radius bends(2.5D 3D 4D 5D 7D 10D 18D)	Up to 60"	All grades	Seamless and welded(hot induction and cold formed)
Barred tees	Up to 120"	All grades	Seamless and welded
Special flow tees	Up to 120"	All grades	Seamless and welded
Equal and reducing crosses	Up to 120"	All grades	Seamless and welded
Equal and reducing laterals	Up to 120"	All grades	Seamless and welded

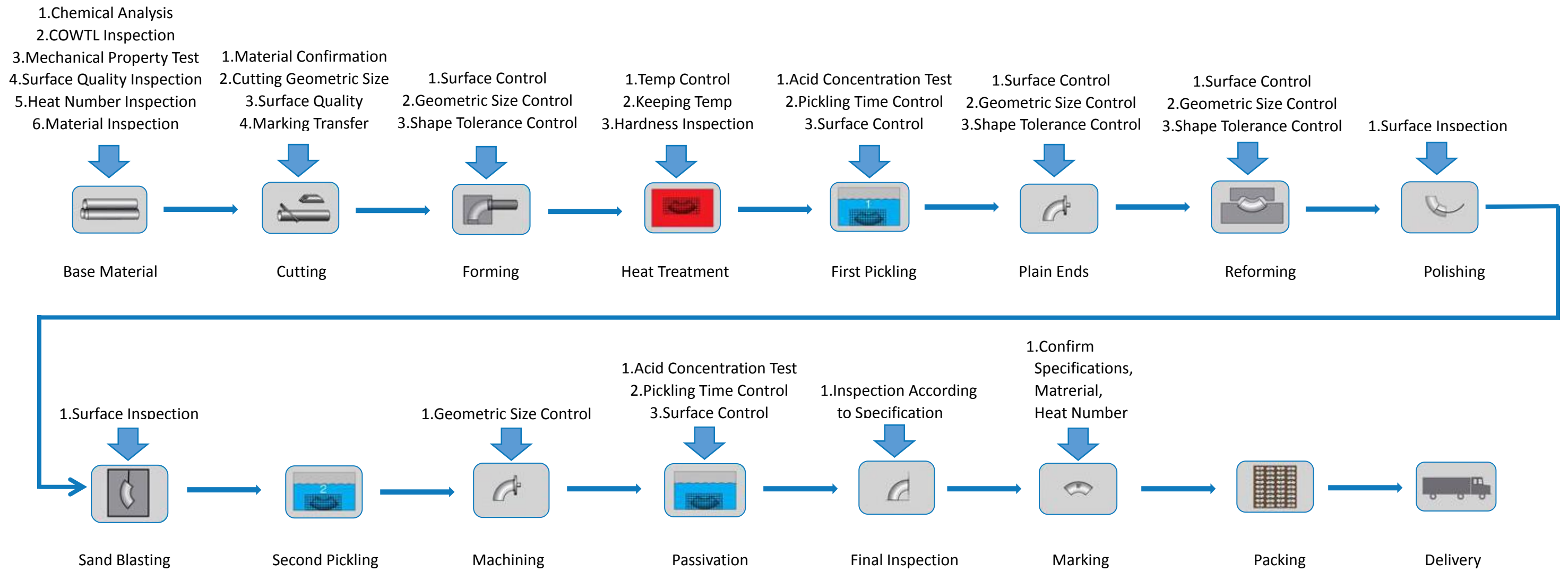


Special products as per Client's drawing



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# Materials used and related International Standards

## CARBON AND ALLOY STEEL FOR ROOM, MODERATE AND ELEVATED TEMPERATURES

- ASTM/ASME A234: WPB - WPC - WP1 - WP11 - WP12 - WP5 - WP22 - WP9 - WP91
- EN 10216-2: P195GH - P235GH - P265GH - 20MnNb6 - 16Mo3 - 8MoB5-4 - 14MoV63 10CrMo5-5 13CrMo4-5 - 10CrMo9-10 - 15NiCuMoNb5-6-4 - X11CrMo5 - X11CrMo9-1 - X10CrMoVNb9-1
- X10CrMoVNb9-1 - X10CrWMoVNb9-2 - X20CrMoV11-1 (Former BS-DIN-AFNOR equipment grades)
- EN 10253-1 EN 10253-2
- RCC-M: C12 - CL3 - NC grades P265GH - P280GH - P295GH - P355NH - TU42C - AE250B1 (Other grades can be supplied upon request)

## STAINLESS STEEL

- ASTM/ASME A/SA 403: WP304 - WP304L - WP304H - WP304LN - WP304N - WP316 - WP316L WP316H - WP316LN - WP316N - WP317 - WP316L - WP32
- WP321H - WP347 - WP347H - WPS31254
- RCC-M: CL1 - CL2 - CL3 - grades Z2CND17.12 - Z2CN18.10 - Z2CND18.12N (Other grades can be supplied upon request)
- ASTM A774: TP304L - TP316L - TP317L - TP321 - TP347
- Equivalent grades of EN 10253-3 EN10253-4(Former AFNOR-DIN-BS equivalent grades)

## COPPER ALLOY

- Copper-nickel ASTM/ASME B/SB 466: UNS C70600 (CuNi 90/10) - UNS C71500 (CuNi 70/30)

## HIGH YIELS STEEL FOR PIPELINE AND OFFSHORE

- ASTM A860/MSS-SP75: WPHY 42 - WPHY 46 - WPHY 52 - WPHY 60 - WPHY 65 - WPHY 70 grades WPHY 80 only as per MSS-SP75
- EN10208-2: L245NB - L290NB - L360NB - L415NB - L360QB - L415QB - L50QB - L485QB L555QB - L360MB - L415MB - L450MB - L485MB
- API 5L X42 - X46 - X52 - X60 - X65 - X70

## CARBON AND ALLOY STEEL FOR LOW TEMPERATURE SERVICE

- ASTM/ASME A/SA 420 WPL6 - WPL3

## FERRTIC/AUSTENITIC STAINLESS STEEL

- ASTM/ASME A/SA 815: UNS 31803 (duplex) - UNS 32750 (superduplex) - UNS 32760 (superduplex) UNS 32550 (superduplex) and equivalent

## NICKEL ALLOY

- ASTM/ASME B/SB 366: UNS N04400 - UNS N06600 - UNS N06625 - UNS N08020 UNS N08800 - UNS N08811 - UNS N08825 - UNS N10276

## TITANIUM ALLOY

- ASTM/ASME B/SB363: WPT2 - WPT12

# Manufacturing Standards

- ASME B16.9 - ADME B16.25 - MSS-SP75 - MSS-SP43
- DIN 2605 - 2606 - 2615 - 2616 - 2617 - BS 1640 - GOST 17374 - 17375 - 17376 - 17377 - 17378 17379 - 17380

# Design Codes

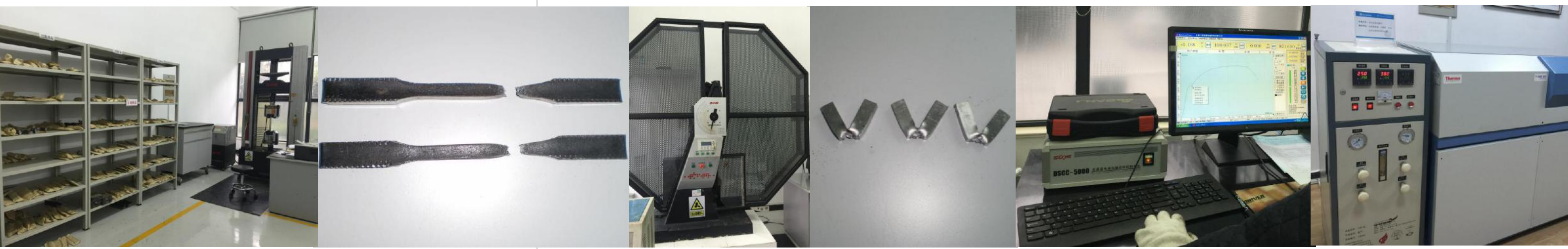
- ASME B31.1 - ASME B31.3 - ASME B31.4 - ASME B31.8
- EN13445 - 13480 - 12952 (Former BS PD 5500 - Swedish Ordinance AFS 1994:39)
- DIN 2413 - TRD301
- AD 2000 Merkblatt B2 - B3 - B9
- Stoomwezen Rules for Pressure Vessels



Raw Material

Test Equipment

# Quality Control From Raw Material



Production Equipment



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# Magnetic Particle Inspection



# DYE Penetrant Inspection



# Hardness Test



# RT Test and Report





# Fitting Process



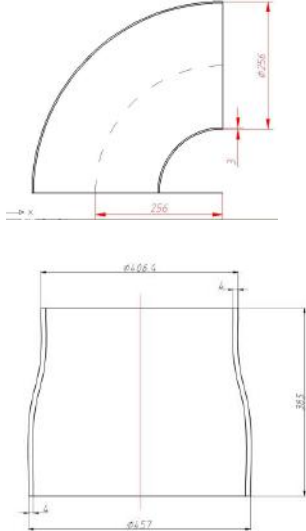
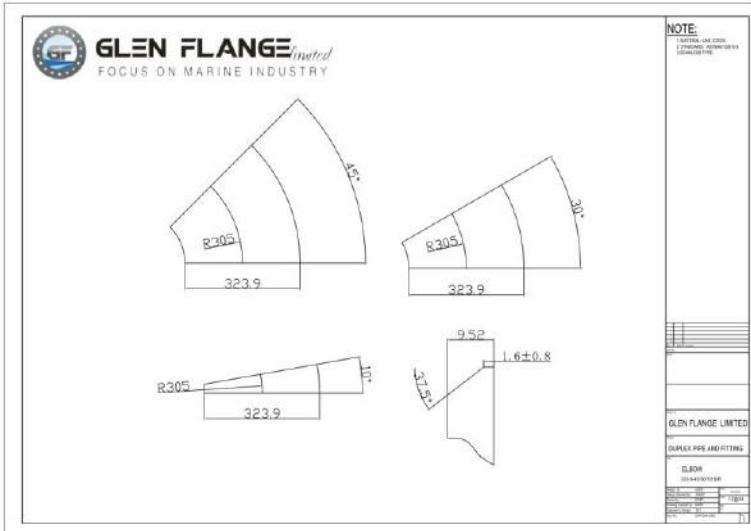
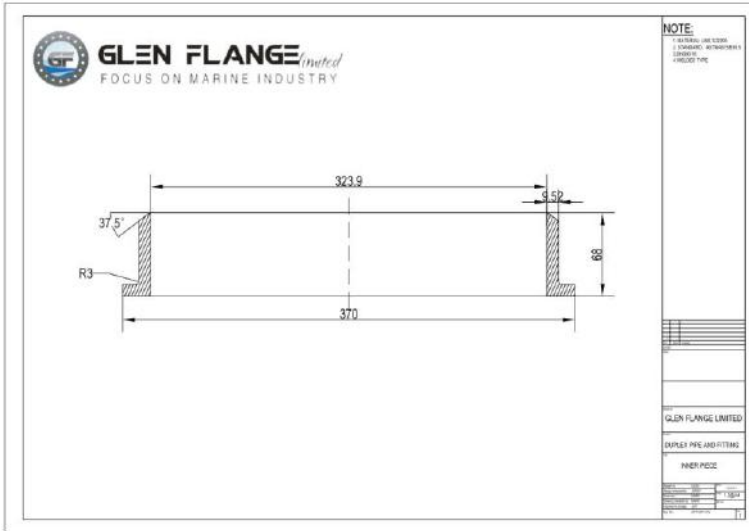
Welding

Heat Treatment

Sand Blasting

Pickling

# Qualification Certification



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## Dimension Inspection



## Marking, Packing & Transport



Marking

Packing and Delivery



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