

cimtas | PIPE
FITTING
SPOOL

INTEGRATED PIPING SOLUTIONS





PIPE, FITTING, SPOOL WORKS

 Over 200 Major Projects	 Over 200,000 Tons Fabricated	 In Over 40 Countries	 Over 40,000 Tons/Year Fabrication Capacity	 Over 160,000 Tons/Year Manufacturing Capacity	 Over 50 Customers
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CIMTAS PIPE FABRICATION AND TRADING LTD. CO.

CIMTAS PIPE, founded in 2002, is a market leading company together with its pioneering industry approach **Integrated Piping Solutions (IPS)**, provides engineering, procurement, manufacturing, welded fabrication, machining and painting services of LSAW (Longitudinally Submerged Arc Welded) pipes, fittings and pipe spools for the power, process, OEM piping systems, pressurized equipment, modules and skids to Oil, Gas & Chemicals, Power including Nuclear, Water, Mining & Metal industries with a global vision to be the “best in class”.

STRENGTHS

- Focus on safety
- Preferred partner
- Excellence in services
- World class quality
- On time delivery
- Shortest cycle times
- Lean production approach
- State of the art facilities
- Proximity to 4 International Deep Sea Ports (within 2 kms)

INTEGRATED PIPING SOLUTIONS (IPS)

LSAW Pipes, Fittings and Pipe Spools Fabrication @Single Location

LSAW Pipe Works is a state of the art LEED Gold certified facility which manufactures a wide range of longitudinally submerged arc welded carbon, stainless and alloy steel pipes under a one-way seamless flow.

Fitting Works manufactures butt weld fittings, induction bends, flanges, laterals and branch connections.

Spool Works focuses on engineering, procurement, fabrication of prefabricated carbon, alloy and stainless steel pipe spools, pressurized equipment, modules & skids for the process, OEM and power piping systems including nuclear.

www.cimtaspipe.com



OUR MISSION

To deliver **high quality** engineering, procurement, welded fabrication, assembly and installation services, **safely, on time** and at the **least total cost** of each customer.

OUR VISION

To be the **best-in-class** and **preferred** partner for the engineered and **integrated** solutions of the demanding construction projects.

OUR VALUES

- Safety, competency, development & leadership of our **employees**
- Satisfaction of our **customers** through operational excellence & flexibility
- Effective use of advanced **technology & information**
- Identification and roll-out of **best practices & lessons learned**
- Being **innovative** in everything we do & willingness to **change**
- Being ethically, environmentally & socially **responsible**

BUSINESS LINES



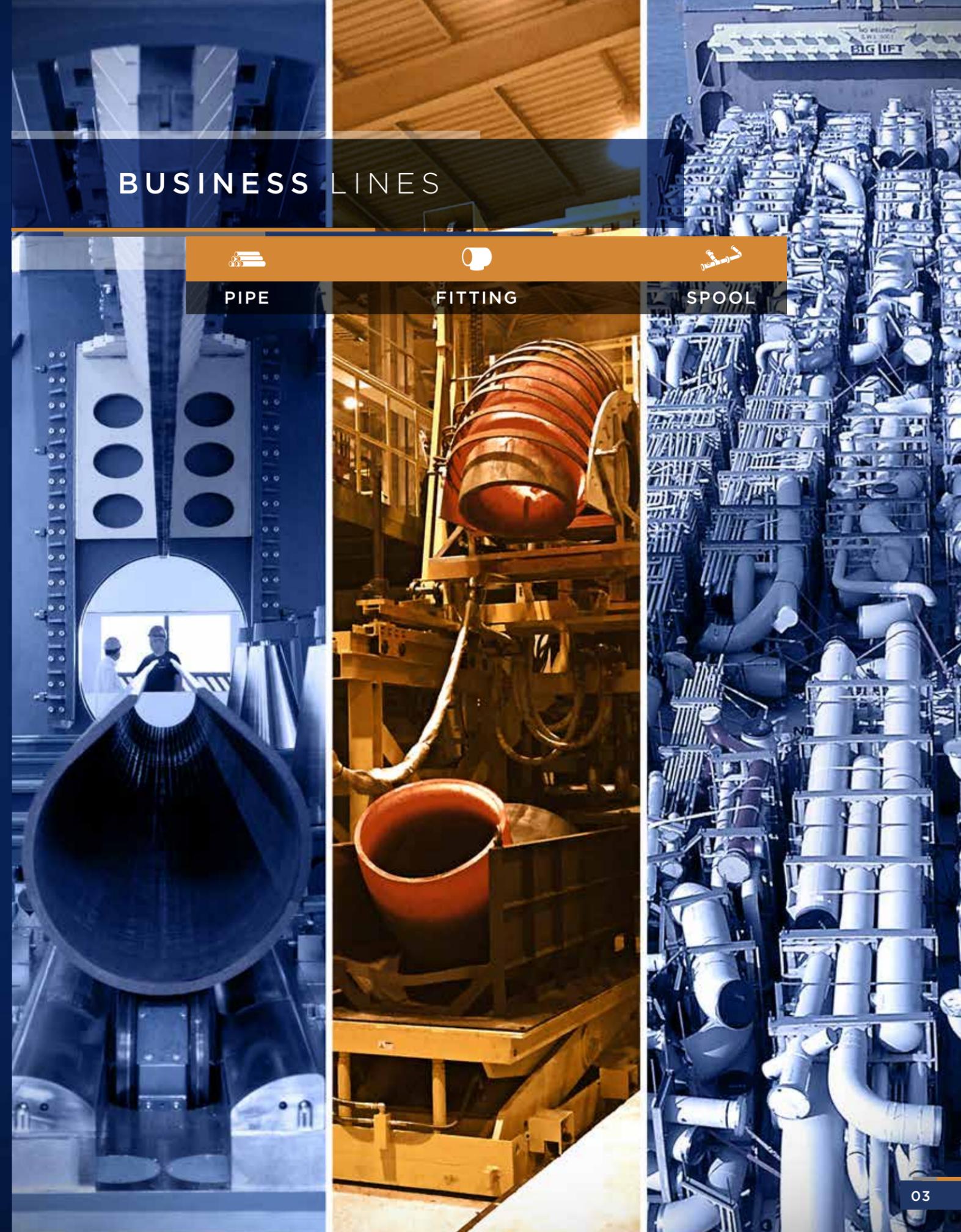
PIPE



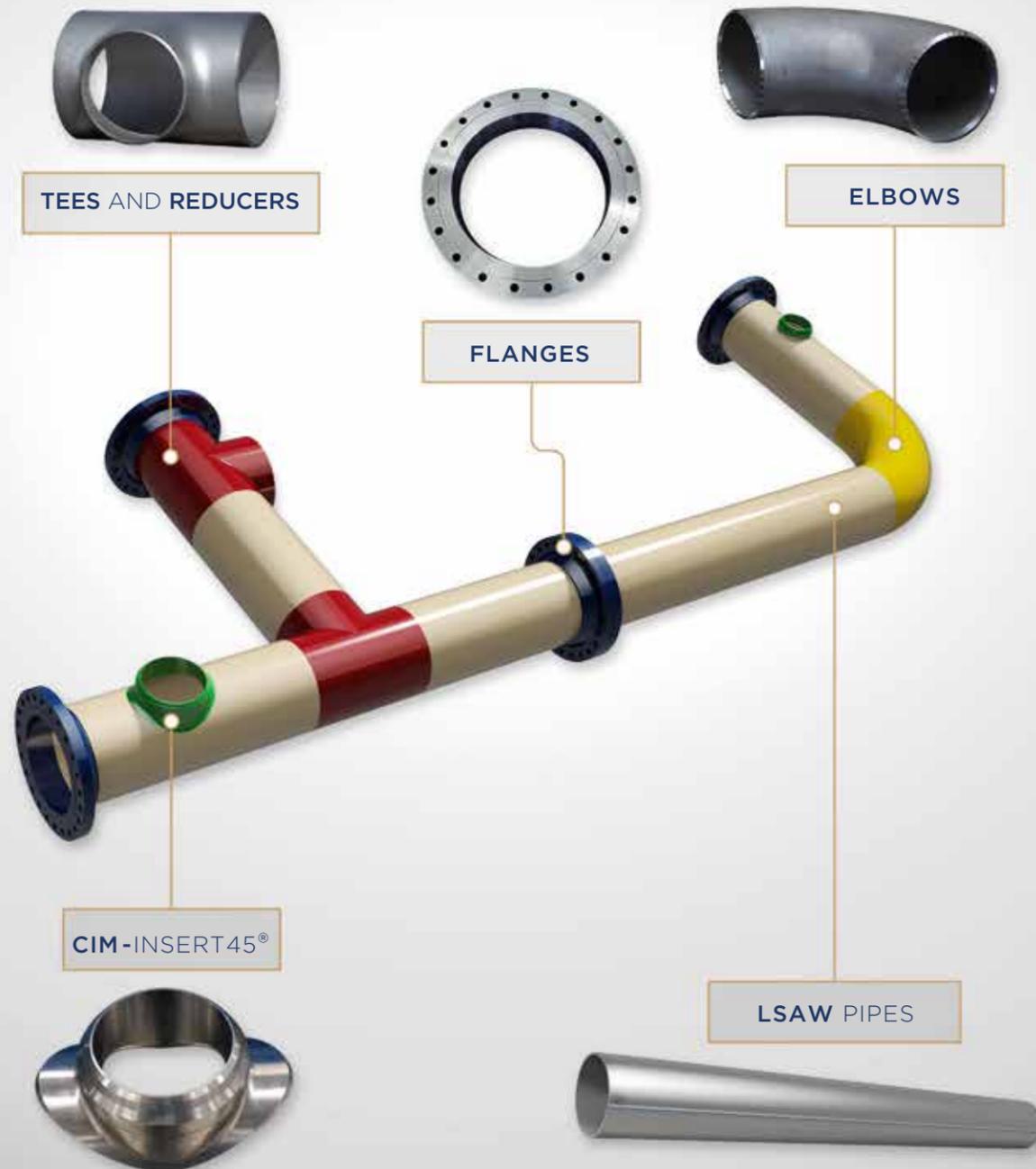
FITTING



SPOOL



INTEGRATED PIPING SOLUTIONS



WHY CIMTAS PIPE AHEAD OF INDUSTRY STANDARD

INDUSTRY STANDARD

Conventional Solution: Typical,
7-8 Months Delivery Time
from order to First Spool

Multiple: POs, Suppliers, Locations

**Singular Fulfillment
w/Separate Tasks:**

- **@ Multiple Suppliers**
PO Preparations
PO Placements
Contacts
POs Expediting
Quality Inspections
Customs Works
- **Paperwork**
- **Multiple Transportation**
- **Standard Execution**

CIMTAS PIPE

Integrated Solution: New Era,
Substantially Faster Delivery Time
from Order to First Spool

Single: PO, Supplier, Location

**Seamless Fulfillment
w/Integrated Task:**

- **@ Single Supplier**
PO Preparation
PO Placement
Contact
PO Expediting
Quality Inspections
Customs Work
- **Integrated Paperwork**
- **No Inter-Supplier Transportation**
- **Seamless Execution**
(Industry Pioneer)



@ Single Location LSAW Pipes, Fittings & Pipe Spools

LSAW PIPE WORKS



Fenced Area
25,000 sqm
265,000 sq ft



Covered Area
14,000 sqm
150,000 sq ft



Annual Manufacturing Capacity
60,000 Tons (process pipes)
150,000 Tons (line pipes)

ADVANCED TECHNOLOGY

LSAW (Longitudinally Submerged Arc Welded) Pipe Works commenced its operations in July 2017 at Bursa Free Zone, Gemlik, Turkey to produce a wide range of welded carbon, stainless & alloy steel pipes to the leading customers of OG&C, Power, Water, Mining & Metals industries as well as Pipeline and Construction (onshore/offshore) projects.

This state-of-the-art facility fortifies Cimtas Pipe's Integrated Piping Solutions vision to be the best-in-class and preferred partner of the demanding projects:

- State-of-the-art Facility with Hi-tech Machinery following Industry 4.0 era
- Continuous and Paperless Production Flow at 2 Bays: 200/230 m (656/755 ft)
- Full Scope in-house Quality Services including Mechanical & Metallographic Laboratory (TS EN ISO/IEC 17025 Certified)
- LEED (Leadership in Energy and Environment Design) Gold Certified and Environmentally Responsible
- Five Star Health and Safety Management System (awarded by British Safety Council)
- High Capacity JCO Forming Press
- High Capacity Full Body Mechanical Pipe Expander
- Heat Treatment with;
 - Batch Type Furnace for Carbon & Alloy Steel
 - Induction Technology for Carbon, Alloy & Stainless Steel
- Calibration & Crimping Press with;
 - Crimping (for pre-bending)
 - Calibration (for roundness)
 - Straightening (for banana form)
- Phased Array Technology Ultrasonic Testing
- Digital Radiographic Testing
- 3D Pipe Measurement System



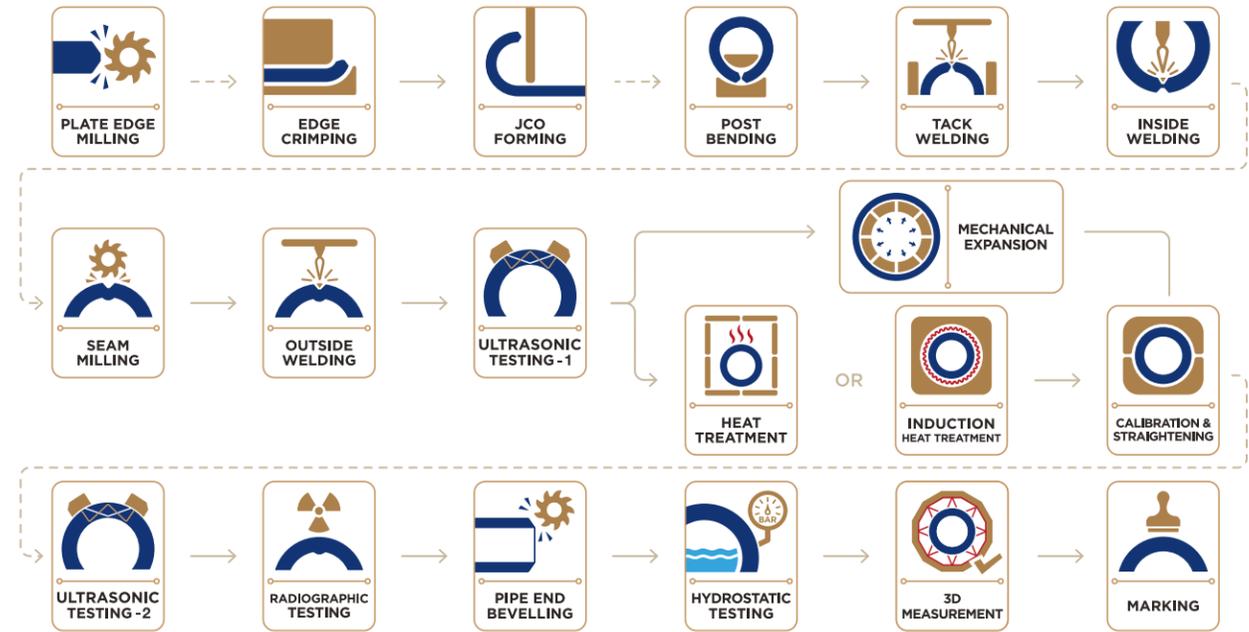
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LSAW PIPE WORKS

HIGH CAPACITY **JCO FORMING PRESS**



PRODUCTION FLOW

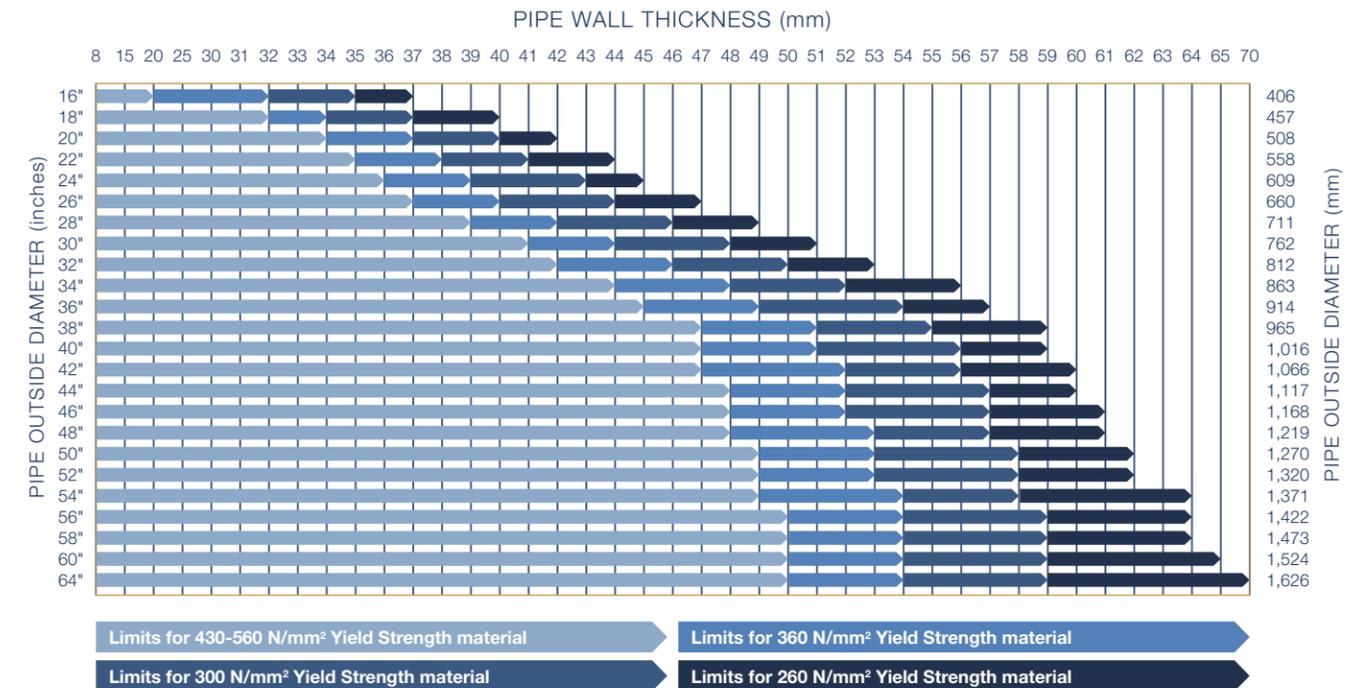


PRODUCTION RANGE

Pipe Diameter: 406 mm - 1,626 mm
16" - 64"

Pipe Length: 6 m - 12.2 m
20' - 40'

Thickness: 8 mm - 70 mm
0.35" - 2.75"



Material Grades & Standards

- **Carbon Steels**
 - API 5L Grades
 - API 5L X Grades (High Yield Strength Steels)
 - ASTM A671, A672, etc. Grades
- **Stainless Steels**
 - ASTM A358, etc. Grades
- **Alloy Steels**

FITTING WORKS



Fenced Area
17,000 sqm
182,986 sq ft



Covered Area
13,500 sqm
145,312 sq ft



Annual
 Manufacturing Capacity
12,000
 tons



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MANUFACTURING & MACHINING

CIMTAS PIPE Fitting Works operates at Bursa Free Zone, Gemlik, Turkey, and is capable of manufacturing butt weld fittings, flanges, branch connections (from 1/2" to 60") and induction bends (from 2.5" to 36").

- **Manufacturing Methods:** Cold Forming, Hot Forming, Hot Forming by Mandrel, Cold Rolling and Machining
- **Cimtas Designed Products:** CIM-INSERT® & CIM-LET®
- **Special Products:** SWEEPLUS™ (Patent Pending 62/443,081)
 - Designed for Acoustic-Induced-Vibration (AIV)

MANUFACTURING STANDARDS

ASME B 16.9, ASME B 16.25, MSS SP75, MSS SP97, EN 10253, ASME Nuclear, TR CU (GOST-R)

PRODUCTS	INTERNATIONAL STANDARDS	GRADES
CARBON STEEL	STM / ASME A / SA 234	WPB, WPC
	ASTM / ASME A / SA 105	
	EN 10253-2	P235GH, P265GH, 16Mo3
	GOST, OST, TU (ROCT, OCT, TY)	20, 09F2C, 15rC, 17r1C
LOW TEMP. CARBON STEEL	ASTM / ASME A / SA 420	WPL6
	ASTM / ASME A / SA 350	LF1, LF2 CL1, LF2 CL2, LF3 CL1, LF3 CL2, LF5 CL1, LF5 CL2, LF6, CL1, LF6 CL2, LF6 CL3, LF9, LF787 CL2, LF787 CL3
HIGH STRENGTH FERRITIC STEEL	ASTM / ASME A / SA 860	WPHY42, WPHY46, WPHY52, WPHY60, WPHY65, WPHY70
	MSS SP-75	WPHY42, WPHY46, WPHY52, WPHY56, WPHY60, WPHY65, WPHY70, WPHY80
ALLOY STEEL	ASTM / ASME A / SA 234	WP11 CL1, WP11 CL2, WP11 CL3, WP22 CL1, WP22 CL3, WP91, WP92
	ASTM / ASME A / SA 182	F11 CL1, F11 CL2, F11 CL3, F22 CL1, F22 CL3, F91, F92
	EN 10253-2	13CrMo4-5, 10CrMo9-10, X10CrMoVNb9-1
	GOST, OST, TU (ROCT, OCT, TY)	15X1M1Φ, 12X2M
STAINLESS STEEL	ASTM / ASME A / SA 403	WP304, WP304L, WP304H, WP316, WP316L, WP316H, WP321, WP321H
	ASTM / ASME A / SA 182	F304, F304L, F304H, F316, F316L, F316H, F316Ti, F321, F321H
	EN 10253-4	X2CrNi18-9, X2CrNi19-11, X5CrNi18-10, X6CrNiTi18-10, X2CrNiMo17-12-2, X5CrNiMo17-12-2, X6CrNiMoTi17-12-2
	GOST, OST, TU (ROCT, OCT, TY)	03X18H11, 08X18H10, 03X17H14M3, 08X18H10T
DUPLEX STAINLESS STEEL	ASTM / ASME A / SA 815	WPS31803, WPS32101, WPS32202, WPS32750, WPS32950, WPS32760, WPS39274, WPS32550, WPS32205
	ASTM / ASME A / SA 182	F50, F51, F52, F53, F54, F55, F57, F59, F60, F61, F65, F66, F67, F68, F69, F71



FITTING WORKS

HOT FORMING by MANDREL



PRODUCTS

FITTINGS, LATERALS, FLANGES & INDUCTION BENDS

PRODUCTS		DIAMETER	WALL THICKNESS
 ELBOWS	CF	½" - 20"	3 - 28 mm
	HFM	24" - 48"	8 - 50 mm
	HFM	1" - 6"	3 - 15 mm
	HF2H	24" - 60"	8 - 150 mm
TEES		½" - 60"	3 - 150 mm
REDUCERS		16" - 60"	8 - 50 mm
FLANGES		½" - 48"	All
LATERALS		All	All
INDUCTION BEND		2.5" - 36"	5 - 108 mm

CF Cold Forming
 HFM Hot Forming by Mandrel
 HF2H Hot Forming 2 Halves

 LATERALS	 REDUCERS	 FLANGES	 INDUCTION BEND
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BRANCH CONNECTIONS

DESIGN CODES

ASME B 31.1, ASME B 31.3, ASME B 31.4, ASME B 31.8, ASME VIII

PRODUCTS		DIAMETER	WALL THICKNESS
 CIM-BW®	Designed by CIMTAS		
	CIM-INSERT45®	2" - 48"	All
	CIM-INSERT®	1½" - 48"	All
 CIM-LET®	CIM-LET®	½" - 48"	All
	SPECIAL PRODUCTS		DIAMETER
 CIM-INSERT®	SWEEPLUS™	½" - 48"	All
	 SWEEPLUS™	 CIM-INSERT45®	

SPOOL WORKS



Fenced Area

76,300 sqm
821,300 sq ft



Covered Area

28,500 sqm
307,000 sq ft



Annual Capacity

42,000
tons

BEST IN CLASS FACILITY

Spool Works is the first fabrication shop of Cimtas Pipe Group to provide engineering, procurement, welded fabrication of piping systems, pressurized equipment, modules & skids to power including nuclear, oil, gas & chemical industries with a global vision to be the "best in class".

Company performs its activities with core capabilities in design engineering, precision cutting, cold bending (from 1/2" to 10"), induction bending (2.5" to 36", up to 108 mm thk, P91 & P92), welding (Robotic, Automated and Manual), PWHT, testing (PMI, RT, UT, MT, PT, VT, Hydro, Video Boroscope), material handling and storage, surface treatment (manual and automated blasting, pickling, passivation, full range painting) and packing.

STRENGTHS

- Focus on safety
- Excellence in services
- World class quality
- On time delivery
- Shortest cycle times
- Lean production approach
- Enterprise resource planning
- Continuous investment in hi-tech machinery
- Nuclear production capability with ASME stamps



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SPOOL WORKS



POWER, PROCESS, OEM PIPING & PRESSURE VESSELS

POWER



Fabrication of piping and assembly of skids & modules including pipe racks, equipment, valves, instruments, insulation, heat tracing with all in-house tests performed for critical systems including but not limited to steam, water, oil, gas and air services typically found in electric power generating stations in industrial, geothermal heating systems and central district heating and cooling systems namely boiler piping, boiler external piping, non-boiler external piping, main steam piping, BOP piping, on-base and off-base auxiliary piping etc.

PROCESS



Fabrication of critical process piping systems that transport process fluids (e.g. air, steam, water, industrial gases, fuels, chemicals) around an industrial facility involved in a process or for the power and petrochemical industries where ASME stamps or CE marking is required.

OEM



Spool Works offers turn-key solutions and components for in-house fabrication of OEM piping systems including gas and steam turbine related on-base and off-base piping systems for equipment manufacturers where ASME stamp, CE marking or any quality or territory related standard is required.

PRESSURE VESSELS



Engineering, design, procurement and fabrication of Pressure Vessels, Shell & Tube Heat Exchangers in accordance with ASME BPVC codes including U Stamp, EN 13445, TEMA where applicable, in various materials including HIC-tested carbon steel, alloy and low-alloy steel, clad (or weld-overlay) steel, vulcanized rubber lining and solid stainless steel.



SPOOL WORKS

ENGINEERING

- **Piping, Pipe Stress & Support Engineering**
 - Power Plants
 - Refineries
 - Petrochemical Plants
- **Piping Components Design**
- **Finite Element Analysis for Fitting & Support Components**
- **Pressure Vessel Engineering**
- **Structural Engineering**
- **Reverse Engineering**
- **Technical Procurement**
 - Valves
 - Instruments
 - Pipe Supports
 - Process Equipment Packages



BENDING

- **Induction Bending**
 - 2.5" (64 mm) - 36" (914 mm)
 - Carbon, Stainless Steel, Low & High Alloys (15NiCuMoNb4 5 6, P91, P92)
 - Thickness Range: 5 mm - 108 mm (P92)
- **Semi-Automated Cold Bending**
 - 0.5" (1.27 mm) - 10" (254 mm)
 - 3 Mandrel Bending Machines with capacity up to 10" & 1.5D - 5D Bending Radiuses
 - 1 Booster Bending Machine with capacity up to 6" & 1D - 5D Bending Radiuses



FABRICATION



MODULARIZATION

- **Power, Process & OEM Piping**
- **Pressure Vessels**
 - Stainless Steel, Alloy Steel, Carbon Steel (Moderate & Low Temp.), Painting Bays
- **Fabrication Scope**
 - Fit-up & Welding
 - PWHT & Normalization
 - Bogie Hearth & Top Hat, Dual Hearth, Natural Gas Fired Furnace
 - 1,000 - 1,200 °C Rated 3 Furnaces
 - Non-destructive Examination (PMI, RT, UT, MT, PT, Hydro)
 - Surface Treatment (Blasting, Pickling, Passivation)
 - Painting
- **Modules**
 - Pre-assembled Process Units (PAUs)
 - Pre-assembled Racks (PARs)
- **Skids**
 - Process Skids
 - Turbine Machinery Skids
 - Flow Divider & Measuring Units



CENTER OF EXCELLENCE

WELDING

ROBOTIC, AUTOMATED & MANUAL WELDING

- Ferrous and non-ferrous materials such as P91, P22, 9%Ni, Alloy 31, Alloy C276, SB209 5083 (Aluminum), SA213TP 409-347, S690, S460NL, 15NiCuNb5, Titanium, Incolloy, Duplex Stainless Steels etc.
- 8 EWE - European Welding Engineers
- Welder Training Center
- Certified Mechanical and Metallography Laboratory
- 2,350 WPQR/WPAR and 5,950 WPS Preparation
- +15,000 Welders Qualified
- Carbon, Low Alloy and Stainless Steel
- SAW/UP, SMAW/E 111, GTAW/TIG 141, GMAW/MIG&MAG, FCAW, GTAW/TIG Hotwire, STT/RMD, Orbital TIG, Orbital FCAW /Tubular Cored



QUALITY

INSPECTION & TESTING

- On-line Documentation & Traceability
- In-house Level I, II, III NDT Personnel. SNT-TC-1A & PED 97/23, EN 473
- Radiographic Testing (RT)
- Manual & Automated Ultrasonic Testing (UT)
- Magnetic Testing (MT), Dye Penetrant Testing (PT)
- Digital Radiography System
- Positive Material Identification (PMI)
- Hydro Testing, Hardness Testing
- Sensitive Measurement, Evaluation & Recording with FARO 3D
- Laser Scanner



CENTER OF EXCELLENCE

MECHANICAL TESTING & METALLOGRAPHY LABORATORY



MECHANICAL TESTING & METALLOGRAPHY LABORATORY

The laboratory located at Cimtas Pipe is certified annually by the Turkish Standard Institute (TSE) according to ISO 17025 requirements. R&D including operational excellence and procedure qualification records are executed in our mechanical & metallography laboratory in collaboration with authorized inspection companies.

- Tensile Test
- Charpy Impact Test
- Hardness HRB-HRC-HBW-HV
- Micro Hardness HV
- Micro and Macro Structure
- Spectral Analysis



CENTER OF EXCELLENCE

GLOBAL SOURCING



GLOBAL SOURCING



Cimtas Pipe Procurement Department provides cost efficient supply chain management with its experienced sourcing and procurement engineers having intense knowledge of local and international markets and customs to meet demands of global projects. Supplier qualification and evaluation process is applied for determination and continuous evaluation of the suppliers/sub-contractors to satisfy industry requirements.

Cimtas Supplier Portal which enables monitoring supplier performance driven by real time data reflected from the ERP system, guides suppliers to keep up with the fundamentals of Cimtas's Procurement Strategies.

- Pipes
- Pipe Supports
- Fittings
- Flanges
- Valves
- Instruments
- Process Equipment Packages
- Structural Steel
- Loose Items

PROJECTS

SABINE PASS LNG



SIGNATURE PROJECTS



First LNG Export Terminal of the U.S.A

SABINE PASS (SP) & CORPUS CHRISTI (CC) LNG PROJECTS

Owner Cheniere Programme
Customer Bechtel OG&C Houston
Completion SP LNG (Stage 1,2,3 & 4; Ongoing),
CC LNG (Stage1: 2017, Stage 2: 2019)
Scope of Work Manufacturing of LSAW Pipes and Fittings,
Spool Fabrication and Material Supply



South Helwan, Egypt

SOUTH HELWAN SUPERCRITICAL POWER PLANT

Owner & Customer UEEPC (Upper Egypt Electricity
Production Company)
Completion 2017
Scope of Work Material Supply (including manual, motor
operated valves, instruments & supports),
Spooling, Fabrication, Heat Treatment, NDE,
Painting, Bundling, Containerizing & Delivery
of Critical Piping



Port Arthur, TX - U.S.A.

MOTIVA CRUDE EXPANSION PROJECT

Owner Motiva Enterprises LLC
Customer Bechtel OG&C Houston
Completion 2010
Scope of Work Spool Fabrication, Heat Treatment, NDE,
Painting, Bundling, Containerizing and FCA
Shop Delivery of Carbon, Stainless, Alloy
and Incoloy Steel Process Piping



Walsum, Germany

WALSUM CFPP, 750 MW

Owner STEAG GmbH
Customer Hitachi Europe
Completion 2010
Scope of Work Material Supply, Spool Fabrication, Site
Installation of HP/LP, P92, Carbon, Stainless
and Alloy Steel Power Piping



Mexico

BOP Modules & Interconnecting Piping

Owner EVM Energia
Customer GE Power
Completion 2019
Scope of Work Material Supply, Stress & Supports
Works, Steel Fabrication & Piping, Trial
Assembly and FAS Delivery, Mock up
Assembly 76 x 15 x 13.2 m. Heaviest
Sub-Module: 28 x 5.5 x 4.5 m 115.3 tons

LOCATION AND LOGISTICS



4 INTERNATIONAL DEEP SEA PORTS WITHIN 2 KM



PORTS

- GEMPORT (1 & 2)
- BORUSAN PORT
- RODA PORT

- Excellent supply chain management
- Full traceability through ERP system
- Packing
- Crating
- Bundling
- Framing
- Containerizing
- Shipment
- Material handling
- Experienced & dedicated logistics team





Prime Location for Global Supply

Ata Sb. Mh. Müge Cd. No: 17
Bursa Serbest Bölgesi, 16600 Bursa - Turkey
P: +90 224 524 86 00 F: +90 224 524 86 19
cimtaspipe@cimtaspipe.com
www.cimtaspipe.com

