

LINE PIPE PRODUCT CATALOGUE

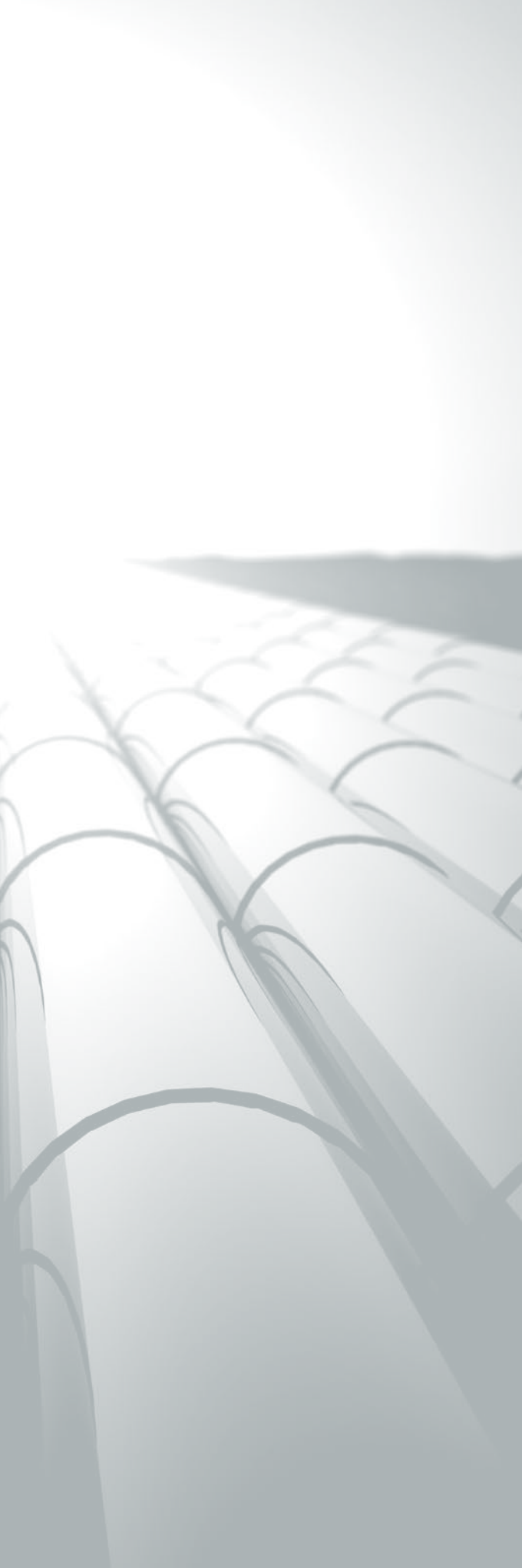


PIPE THAT POWERS THE WORLD





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BORUSAN HOLDING AT A GLANCE










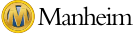

The main strategy of Borusan Group is based on continuing to create added value for Türkiye's economy while fostering a mindset that focuses on global markets, and creates innovative products and services.

Celebrating its 79th anniversary in 2023, the Borusan Group continues to consistently grow in the steel, distributorship, logistics and energy industries in various markets of the world, particularly in Turkey.

Working for a Better Tomorrow

The Borusan Group is of the belief that it has a mission to act as the pioneer in sustainability and environmental awareness in every industry it is engaged in. Aware of the fact that the planet's natural resources are finite, the Borusan Group intends to improve the living standard by using resources productively and without wasting the future.



Steel		Distributorship		Logistics	Energy
The Pipe Group	The Flat Steel Group	The Earth Moving Equipments Group	The Automotive Group	Borusan Lojistik	Borusan EnBW Enerji
Borusan Mannesmann	Borçelik	Borusan CAT 	Borusan Otomotiv ve Oto Supsan Borusan Araç İhale ParçaPazarı.com    		
Partners					
 A Member of the Salzgitter Group			Giwa Holding GmbH  		



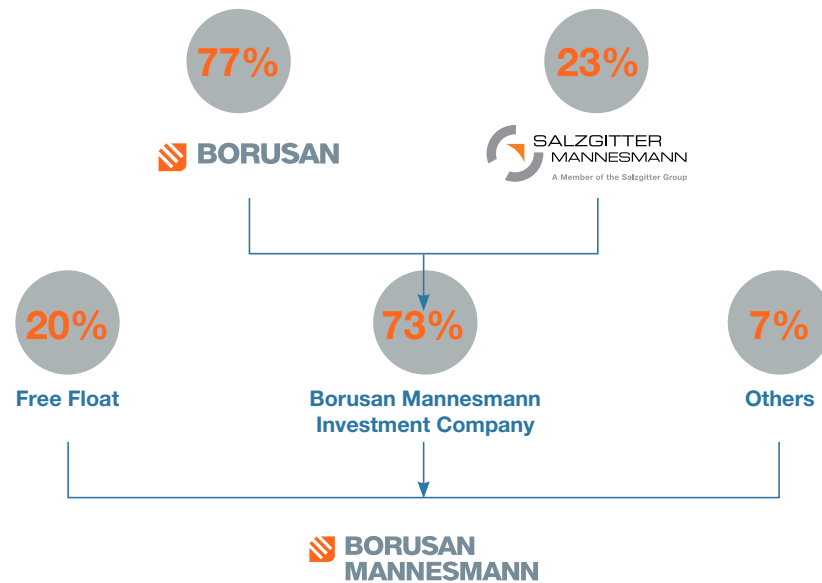
BORUSAN MANNESMANN

- Flagship of Borusan Group with more than 60 years of pipe manufacturing experience
- Workforce of 2,100 people
- 25 years of Contract Management competency
- Has its own port (Borusan Port) adjacent to the mill, which brings operational flexibility in terms of logistics inbound and outbound
- Sole 24.5 m single length API/ISO/EN large diameter line pipe producer in Europe
- Operates with 8 mills; 5 in Türkiye, 1 in Italy, 1 in USA, 1 in Romania



Corporate Structure:

Borusan Group and Europe's leading steel and technology company; Salzgitter Mannesmann GmbH, merged their welded steel pipe investments in Turkey and named that partnership; "Borusan Mannesmann Boru Yatırım Holding" in 1998. The company has 73% shares of Borusan Mannesmann Boru San. ve Tic. A.Ş.



Borusan Campus

**Cold
Rolling Mill**

**ERW
Pipe Mill**



Borusan Port

HSAW
Pipe Mill

LINE PIPE PRODUCTION SCOPE

Gemlik 2 Step HSAW Mill

Process	2 Step HSAW
OD	20" - 64" / 508 mm - 1,626 mm
Wall Thickness	Up to 1" / 25.4 mm
Length	80.4' / 24.5 m (Single Length)
Grade Including	X80 / L555

Gemlik Single Step HSAW Mill

Process	Single Step HSAW
OD	28" - 120" / 711 mm - 3,048 mm
Wall Thickness	Up to 1" / 25.4 mm
Length	60' / 18.3 m (55 m Single Length for Piling)
Grade Including	X80 / L555

Gemlik ERW Mill

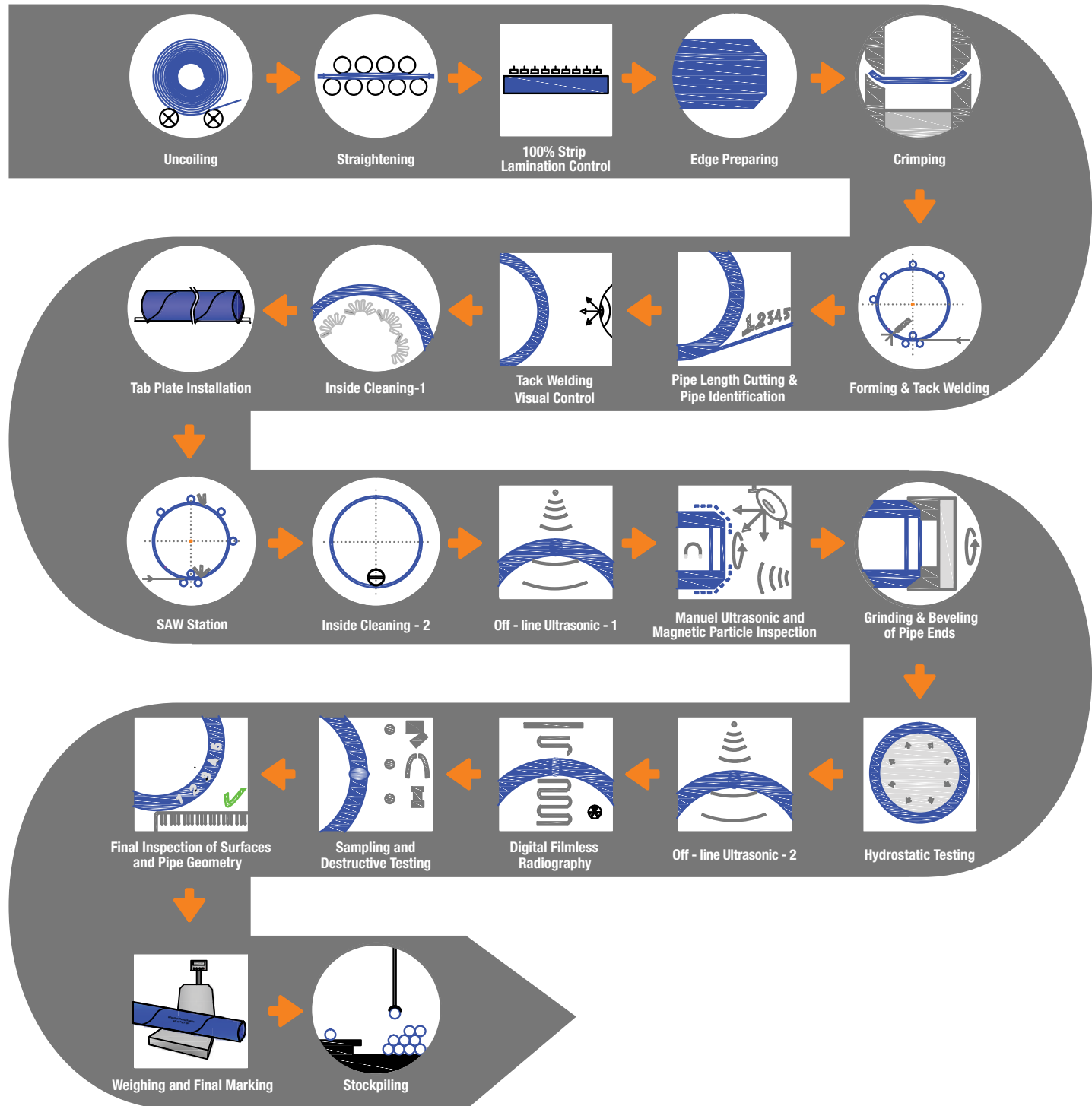
Process	HFI - ERW
OD	1/2" - 13 3/8" / 21.3 mm - 323,9 mm
Wall Thickness	Up to 0.5" / 12.7 mm
Length	60' / 18.3 m
Grade Including	X70 / L485

OD&ID Coating

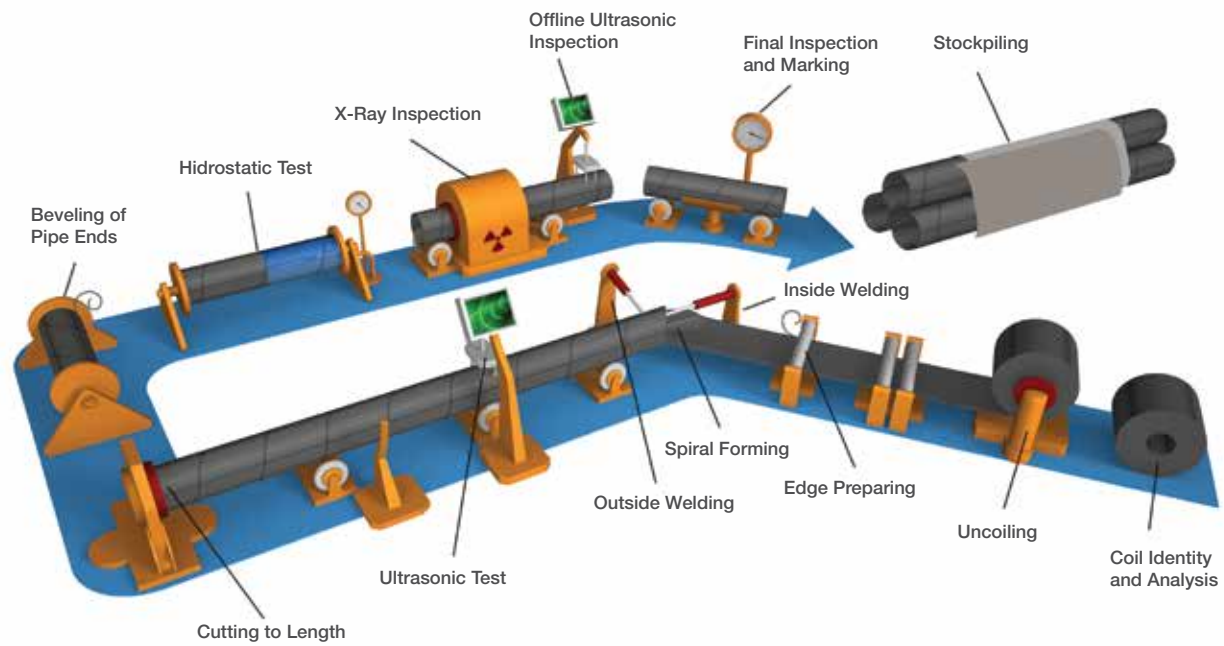
Type of Coating	OD	ID	General Application Area		
			Oil & Gas Line Pipe	Water Line Pipe	Piling Pipes
Dual-Layer FBE (ARO)	●		●	●	●
Fusion Bonded Epoxy (FBE)	●		●	●	●
Epoxy (liquid)	●	●	●	●	●
Glass Fibre Reinforced Plastic (GRP)	●		●	●	
Polyethylene (PE)	●		●	●	●
Polypropylene (PP)	●		●	●	●

2 Step Helical Submerged Arc Welded Pipe

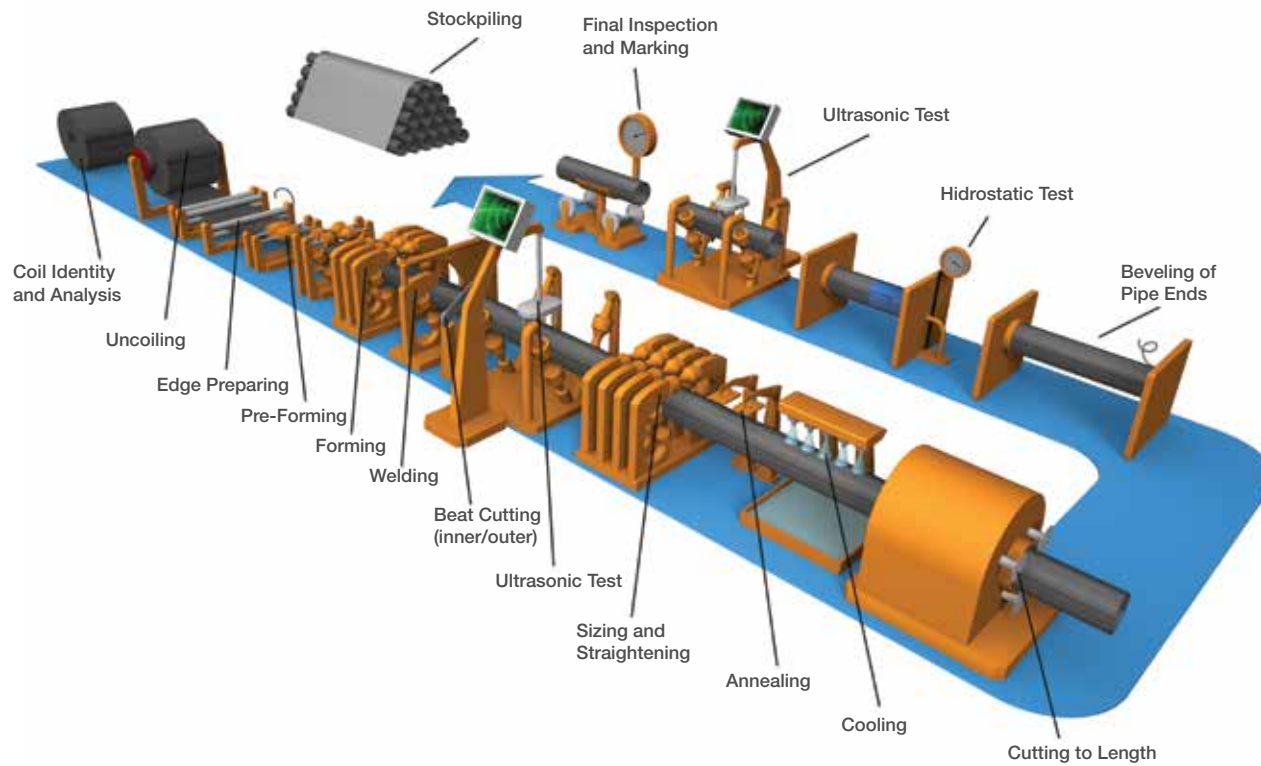
□ Quality Steps ○ Production Steps



Single Step Helical Submerged Arc Welded Pipe



Electric Resistance Welded Pipe



PRODUCTION RANGE



HSAW Line Pipes

OD	Wall Thickness (mm & inch)																									
	mm	4.78	5.16	5.56	6.35	7.14	7.92	8.74	9.52	10.31	11.13	11.91	12.70	13.49	14.27	15.00	16.66	17.48	18.26	19.05	20.62	22.23	23.83	25.40		
mm	inch	0.188	0.203	0.219	0.250	0.281	0.312	0.344	0.375	0.406	0.438	0.469	0.500	0.531	0.562	0.591	0.656	0.688	0.719	0.750	0.812	0.875	0.938	1.000		
508	20																									
559	22																									
610	24																									
660	26																									
711	28																									
762	30																									
813	32																									
864	34																									
914	36																									
965	38																									
1,016	40																									
1,067	42																									
1,118	44																									
1,168	46																									
1,219	48																									
1,270	50																									
1,321	52																									
1,372	54																									
1,422	56																									
1,524	60																									
1,626	64																									
1,676	66																									
1,727	68																									
1,829	72																									
2,032	80																									
2,083	82																									
2,235	88																									
2,540	100																									
2,794	110																									
3,048	120																									

up to 55 meters
 up to 24.5 meters
 Min. length 8 meters

ERW Line Pipes

OD	Wall Thickness (mm & inch)																								
	mm	2.8	3.0	3.2	3.6	3.68	3.7	4.0	4.5	5.1	5.2	6	6.6	7	7.1	8.1	8.4	8.6	9.0	9.5	10.0	11	12	12.7	
mm	inch	0.109	0.113	0.133	0.140	0.145	0.147	0.154	0.179	0.200	0.203	0.237	0.258	0.277	0.280	0.318	0.331	0.337	0.354	0.375	0.394	0.432	0.472	0.500	
21.3	1/2																								
26.9	3/4																								
33.7	1																								
42.4	1 1/4																								
48.3	1 1/2																								
60.3	2 3/8																								
73	2 7/8																								
88.9	3 1/2																								
114.3	4 1/2																								
141.3	5 9/16																								
168.3	6 5/8																								
219.1	8 5/8																								
273.1	10 3/4																								
323.9	12 3/4																								



PRODUCTION STANDARDS & QUALITY SYSTEMS CERTIFICATES

Oil & Gas Line Pipes

API 5L/ISO 3183	: Requirements of PSL 1 & PSL 2 (HSAW & ERW)
Annex G	: Resistance to ductile fracture propagation
Annex H	: For Sour Service
CSA Z245.1	: Requirement of Category I, II, III
GOST 20295	: Requirements of Type 2 (HSAW)

Water Line Pipes

With protective OD and/or ID coating, plain, beveled or sleeve welded joints.

EN 10217-1	: HSAW & ERW
EN 10224	: HSAW & ERW
AWWA C 200	: HSAW & ERW
BS 534	: HSAW & ERW

General Purpose Pipes

EN 10217-3	: HSAW - Alloy, fine grain Service condition: max 400°C, min -50°C
EN 10217-5	: HSAW - Alloy or non-alloy, Service condition: max 400°C,
EN 10217-6	: HSAW - Non-alloy, Service condition: - 40°C
ASTM A139	: HSAW

Piling & Construction Pipes

ASTM A 252	: HSAW & ERW
EN 10219	: HSAW & ERW
EN 10210	: HSAW & ERW

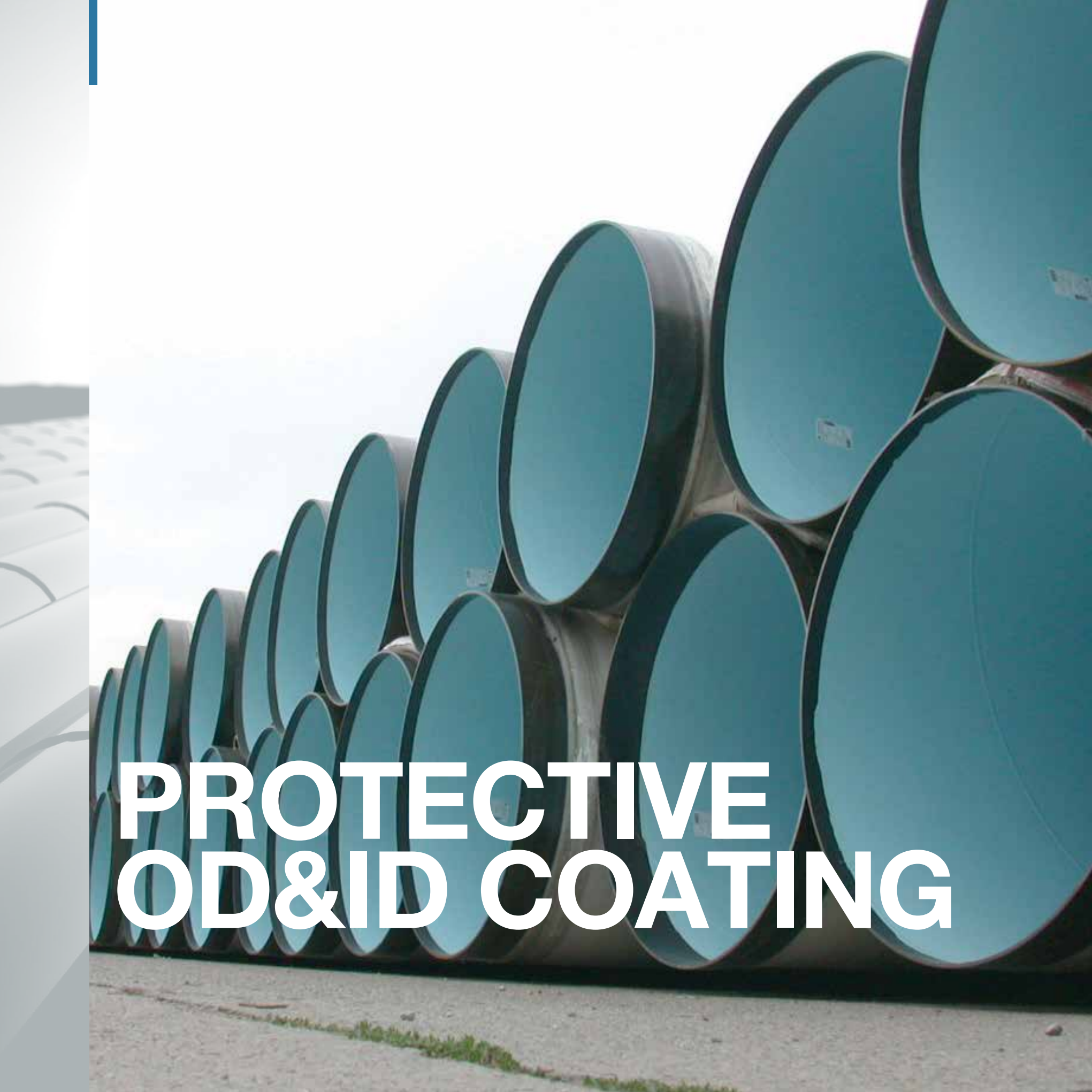
These are our general production standards and specifications.

We can meet other production standards and specifications upon request.

Certificates

ISO 3183	ISO 45001	API RP 5L2	DWI
ISO 9001	EN ISO/IEC 17025	API QR	FM Certified
ISO 14001	EN ISO 3834-2	API Q1	NSF Certified
ISO 10002	EN ISO 10217-1	B-MARK	PED 97/23 EC
ISO 10301	AD 2000HP0	CE Certified	UNE
ISO 21809-1	AD 2000 W0	DNV Certified	UL/CUL Listed
ISO 29001	API 5L	DVGW 7101-2	ÜHP
ISO 31000	API 5CT	DIN 30670	





PROTECTIVE OD&ID COATING

Abrasion Resistant Overlay (ARO) OD Coating: ARO provides a perfect abrasion and impact resistance, also maintains an excellent protection for oil & gas line pipes. (API 5L7, CSA Z245.20, NACE RP 0394, AWWA C213)

FBE (Fusion Bonded Epoxy) OD Coating: Fusion bonded powder epoxy coating provides high protection of oil & gas line pipes. (API 5L7, CSA Z245.20, NACE RP 0394, AWWA C213)

Polyethylene (PE) OD Coating: Excellent protection of buried line pipes. High mechanical strength and corrosion resistance are achieved by 3-layer coating method. (DIN 30670, TS 5139, NF A 49-710, UNI 9099, EN ISO 21809-1)

Polypropylene (PP) OD Coating: Excellent protection of buried line pipes. High mechanical strength and corrosion resistance are achieved by 3-layer coating method. (DIN 30678, NF A 49-711, EN ISO 21809-1)

Glassflake Epoxy (GFE) OD Coating: For piling applications, Glassflake Epoxy Coating is applied for corrosion and abrasion resistance.

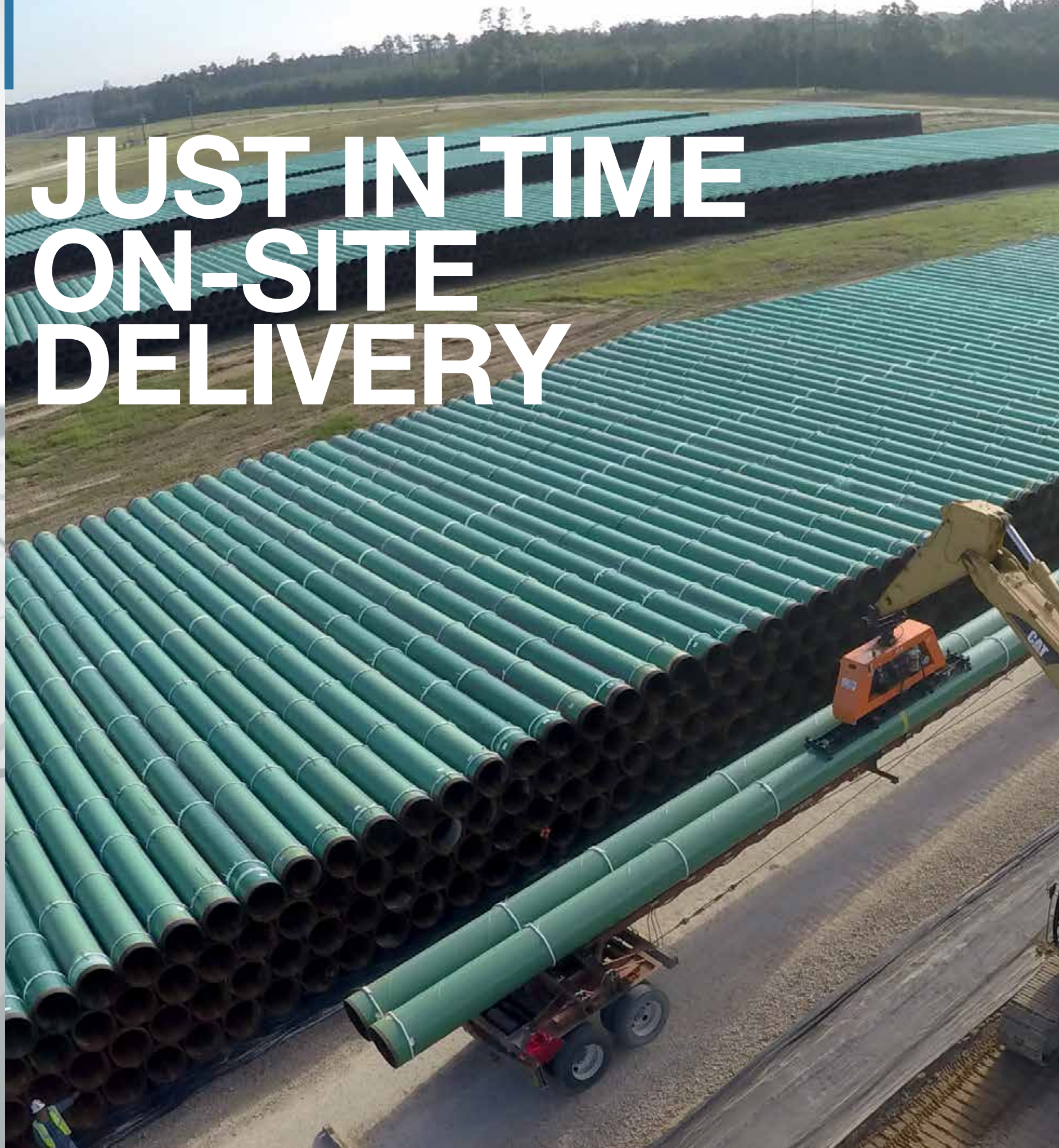
Glass fibre reinforced plastic (GRP) OD Coating: For buried and HDD line pipes GRP coating provides excellent mechanical protection.

Flow Efficiency ID Coating: For gas transmission lines, flow-coat ID epoxy coating is applied in order to reduce pipe wall roughness thus increasing throughput. (API RP 5L2, EN 10301)

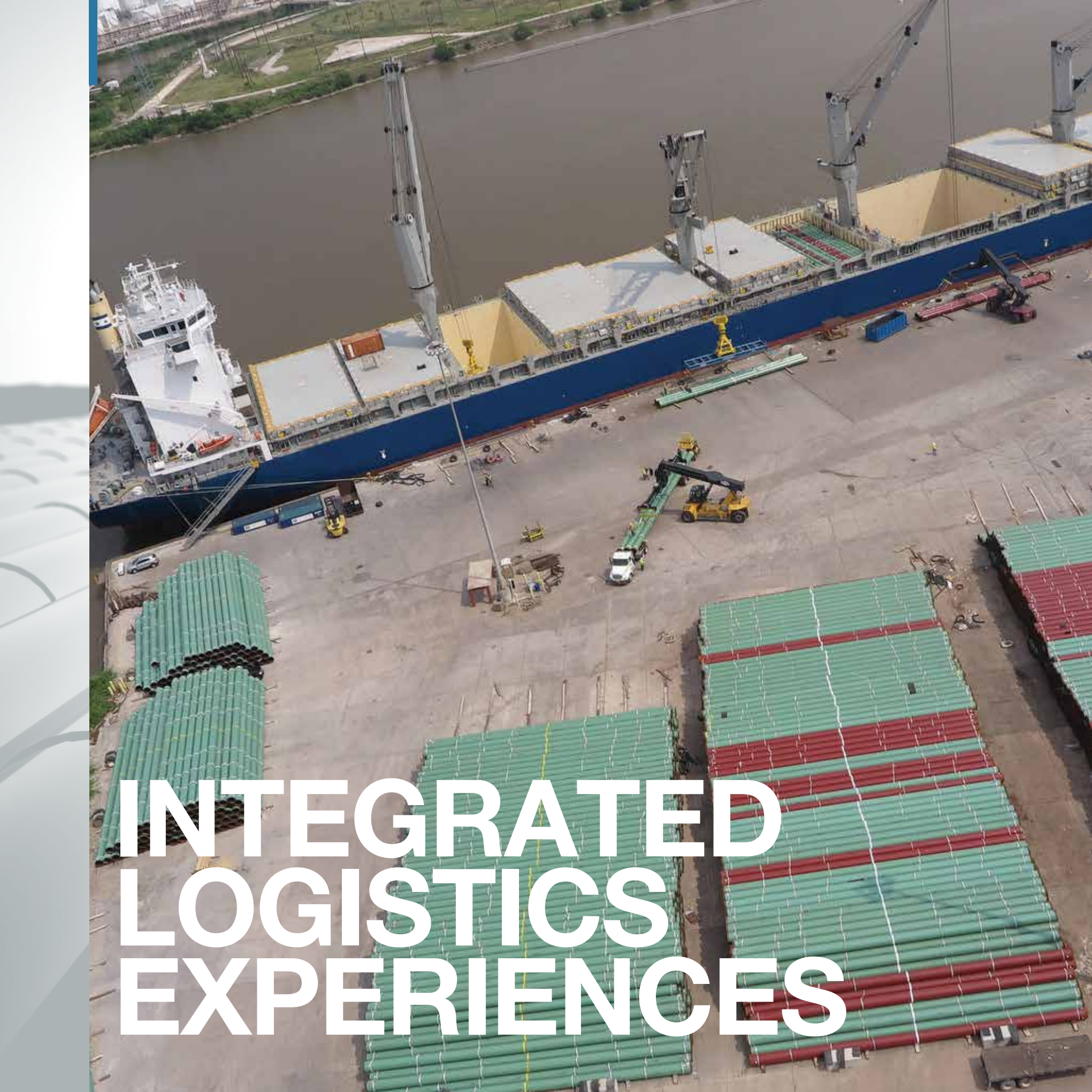
Solvent Free Epoxy (SFE) ID Coating: Various epoxy coatings applied internally are enabling hygienic inner surface for potable water transportation. (AWWA C 210)



**JUST IN TIME
ON-SITE
DELIVERY**







INTEGRATED LOGISTICS EXPERIENCES

The care devoted to proper storage and shipment of products is part of Borusan Mannesmann's commitment to customer satisfaction.

Borusan Mannesmann plants and Borusan Port in Turkey are located on the eastern coast of Marmara Sea in the vicinity of many piers that are expert in pipe loading equipped by mobile cranes, forklifts and other machinery necessary for international shipment.

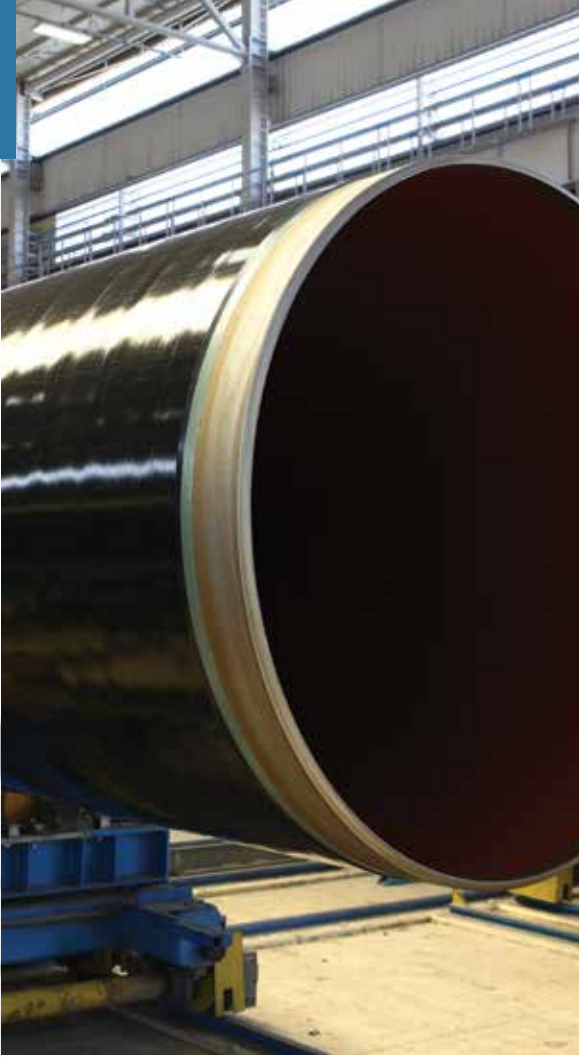
Borusan Mannesmann is able to deliver with high versatility for every international project from Saharan desert to Rocky mountains.

We deliver

- By railway
- By barge transportation
- By IACS class vessels (sous-palan unloading)
- By truck and trailers
- By containers

In many of our projects, we have been in charge of customs clearance, sous-palan operations, leasing and management of stockyards, on-site delivery; providing complete integrated logistics solutions to meet even the most stringent client delivery terms.





INGL PIPELINES

2017 - 2022

Operational Highlights

Project Details

OD	: 36" / 914 mm
Wall Thickness	: 0.700" / 17.80 mm
Total Length	: 41 miles - 67 km
Production Standard	: API 5L PSL2 & Client's Specifications
Material Grade	: X70M PSL2
OD Coating	: 3 Layers of High Density Polyethylene (HDPE)
ID Coating	: Flow Coat Epoxy
Project Owner	: Israel Natural Gas Pipelines
Pipe Length	: 12 - 14 m
Scope of Logistics	: DDP bases delivery to pipe yards located in Israel.

Transportation Methods : Vessels & Trucks

NGTL 2021 PIPELINE

CANADA - 2020

Operational Highlights

Project Details

OD	: 48" / 1219 mm
Wall Thickness	: 0.539" - 0.583" / 13.70 mm - 14.80 mm
Total Length	: 66 miles - 106 km
Production standart	: API 5L 46 th Edition, CSA Z245.1 and Customer Specifications
Material Grade	: CSA Z245.1-18 Grade 483
OD coating	: Fusion Bonded Epoxy (FBE) + Abrasion Resistant Overlay (ARO)
ID Coating	: Flow Coat Epoxy
Project Owner	: TC Energy
Pipe Length	: 80 feet / 24 meter QRL
Scope of Logistics	: CIF LO Port of Vancouver, WA
Transportation Methods	: Vessels





GROUND BIRCH PIPELINE

CANADA - 2019

Operational Highlights

Project Details

OD	: 42" / 1067 mm
Wall Thickness	: 0,571" - 0,720" - 0,906" (14.50 - 18.30 - 23.00 mm)
Total Length	: 15 miles - 25 km
Production standart	: API 5L 46 th Edition, CSA Z245.1 and Customer Specifications
Material Grade	: CSA Z245.1-18 Grade 483
OD coating	: Fusion Bonded Epoxy (FBE) + Abrasion Resistant Overlay (ARO)
ID Coating	: Flow Coat Epoxy
Project Owner	: TC Energy
Pipe Length	: 80 feet / 24 meter QRL
Scope of Logistics	: CIF LO Port of Vancouver, WA
Transportation Methods	: Vessels



GULF COAST EXPRESS PIPELINE

USA - 2019

Operational Highlights

Project Details

OD	: 42" / 1067 mm
Wall Thickness	: 0,720" - 0,600" (18.29 mm - 15.24 mm)
Total Length	: 229 miles - 368 km
Production standart	: API 5L 45 th Edition and Client's Specifications
Material Grade	: X70M PSL2
OD coating	: Fusion Bonded Epoxy (FBE) + Abrasion Resistant Overlay (ARO)
ID Coating	: Flow Coat Epoxy
Project Owner	: Kinder Morgan
Pipe Length	: 80 feet / 24 meter QRL
Scope of Logistics	: DDP Corpus Christi Port
Transportation Methods	: Vessels & Trucks





GAZ-SYSTEM GAS PIPELINE PROJECTS POLAND - 2013 - 2022

Operational Highlights

Project Details

OD	: 28" - 40" / 711 mm - 1016 mm
Wall Thickness	: 0.433" - 0.874" (11.00 mm - 22.20 mm)
Total Length	: 189 miles - 305 km
Production Standard	: EN ISO 3183 & Client Specifications
Material Grade	: L485ME & L555ME
OD Coating	: 3 Layers of High Density Polyethylene (HDPE) & Polypropylene (PP) & Glass Fibre Reinforced Plastic Coating (GRP)
ID Coating	: Flow Coat Epoxy
Project Owner	: GAZ-SYSTEM S.A.
Pipe Length	: 10 - 16.5 m
Scope of Logistics	: DDP bases delivery to different pipe yards located in Poland.

Transportation Methods : Vessels & Trucks & Trains

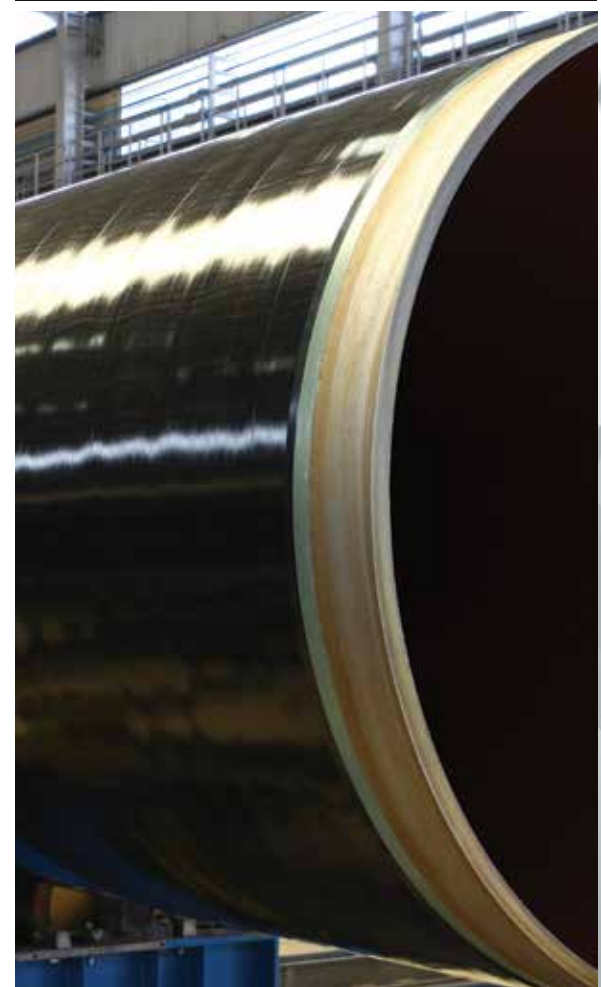
TURK STREAM PIPELINE PROJECTS

TURKEY - 2018 - 2019

Operational Highlights

Project Details

OD	: 48" / 1219 mm
Wall Thickness	: 0,563" - 0,689" - 0,874" (14.30 - 17.50 - 22.20 mm)
Total Length	: 29 miles - 47 km
Production standart	: API 5L 46 th Edition and Client Specifications
Material Grade	: X65M PSL2
OD coating	: 3 Layers of High Density Polyethylene (HDPE)
ID Coating	: Bare and Flow Coat Epoxy
Project Owner	: BOTAS
Pipe Length	: DRL
Scope of Logistics	: CPT Kirklareli
Transportation Methods	: Trucks



TRANS ANATOLIAN PIPELINE (TANAP) PROJECT TURKEY - 2017

Operational Highlights

Project Details

OD	: 48" - 56" / 1219 mm - 1422 mm
Wall Thickness	: 0.656" - 0.765" (16.67 mm - 19.45 mm)
Total Length	: 135 miles - 215 km
Production Standard	: API 5L 45 th Edition PSL2 and Client's Specifications
Material Grade	: X70M PSL2
OD Coating	: 3 Layers of High Density Polyethylene (HDPE)
ID Coating	: Flow Coat Epoxy
Project Owner	: TANAP Doğal Gaz İletişim A.Ş.
Pipe Length	: 40 feet / 12 meters DRL
Scope of Logistics	: DDP basis delivery to several pipe yards located in Türkiye

Transportation Methods : Vessels & Trucks & Trains



ATLANTIC SUNRISE PIPELINE PROJECT USA - 2017

Operational Highlights

Project Details

OD	: 30" - 42" / 762 mm - 1067 mm
Wall Thickness	: 0.344" - 0.888" (8.74 mm - 22.56 mm)
Total Length	: 198 miles - 318 km
Production Standard	: API 5L 45 th Edition PSL2 and Client's Specifications
Material Grade	: X70M PSL2
OD Coating	: Fusion Bonded Epoxy (FBE) + Abrasion Resistant Overlay (ARO)
ID Coating	: Flow Coat Epoxy
Project Owner	: Williams
Pipe Length	: 40 feet / 12 meters DRL - 60 feet / 18 meters TRL
Scope of Logistics	: DDP basis delivery to 4 pipe yards located in Pennsylvania / USA

Transportation Methods : Vessels & Trucks



LONE STAR EXPRESS NGL PROJECT

USA - 2015

Operational Highlights

Project Details

OD	: 30" / 762 mm
Wall Thickness	: 0.441" - 0.635" (11.20 mm - 16.13 mm)
Total Length	: 275 miles - 443 km
Production Standard	: API 5L 45 th Edition PSL2 and Client's Specifications
Material Grade	: X70M PSL2
OD Coating	: Fusion Bonded Epoxy (FBE) + Abrasion Resistant Overlay (ARO)
ID Coating	: Bare
Project Owner	: Energy Transfer LP
Pipe Length	: 80 feet / 24 meters QRL
Scope of Logistics	: DDP basis delivery to 3 pipe yards located in Texas / USA. The logistics scope includes unloading and stacking.

Transportation Methods : Vessels & Trucks



ARC DE DIERREY GAS PIPELINE PROJECT FRANCE - 2013

Operational Highlights

Project Details

OD	: 48" / 1219 mm
Wall Thickness	: 0.511" - 0.606" (13.00 mm - 15.40 mm)
Total Length	: 37 miles - 61 km
Production Standard	: EN 10208-2 & Client's Specifications
Material Grade	: L485MB
OD Coating	: 3 Layers of High Density Polyethylene (HDPE)
ID Coating	: Flow Coat Epoxy
Project Owner	: GRTgaz S.A.
Pipe Length	: 60 feet / 18 meters R4 (EN 10208-2)
Scope of Logistics	: DDP bases delivery to different pipe yards located in France.

Transportation Methods : Vessels & Trucks





ELLUND EGTVED PIPELINE PROJECT DENMARK - 2012

Operational Highlights

Project Details

OD	: 24" - 40" / 610 mm - 1016 mm
Wall Thickness	: 0.394" - 0.689" (10.00 mm - 17.5 mm)
Total Length	: 59 miles - 95 km
Production Standard	: EN10208-2 and Client's Specifications
Material Grade	: L485MB
OD Coating	: 3 Layers of High Density Polyethylene (HDPE)
ID Coating	: Flow Coat Epoxy
Project Owner	: Energinet.dk
Pipe Length	: 60 feet / 18 meters
Scope of Logistics	: DDP basis deliveries to 40 stockyard in Egtved, Denmark

Transportation Methods : Vessels & Trucks



ELBA EXPRESS EXPANSION GAS PIPELINE PROJECT

USA - 2008

Operational Highlights

Project Details

OD	: 36" - 42" / 914 mm - 1067 mm
Wall Thickness	: 0.521" - 0.750" (13.23 mm - 19.05 mm)
Total Length	: 195 miles - 313 km
Production Standard	: API 5L PSL2 and Client's Specifications
Material Grade	: X70M PSL2
OD Coating	: Fusion Bonded Epoxy
ID Coating	: Bare
Project Owner	: Southern Natural Gas Pipeline Group
Pipe Length	: 80 feet / 24 meters QRL (Double Jointed)
Scope of Logistics	: DDP basis delivery to 5 pipe yards. The logistics scope includes unloading, double jointing, girth weld coating, sand berms preparations and stacking.

Transportation Methods : 22 shipments via A class vessels

On this prestigious project Borusan Mannesmann produced FBE coated 36"- 42" pipes according to the client's requirements. The pipes were double jointed on site to 80 ft (24 m) pipe length. 80 ft pipes were transported with special trucks to 4 other designated pipe yards.





PERENCO OIL & GAS PIPELINE PROJECTS AFRICA & LATIN AMERICA

Operational Highlights

Project Details

OD	: 2" - 12" / 60.3 mm - 323.9 mm
Wall Thickness	: 0.157" - 0.500" (4.00 mm - 17.7 mm)
Total Length	: 1087 miles - 1750 km
Production Standard	: API 5L and Client's Specifications
Material Grade	: Grade B - X60M PSL2
OD Coating	: 3 layers of High Density Polyethylene (HDPE) & Polypropylene (PP)
ID Coating	: Epoxy coating and bare
Project Owner	: PERENCO
Pipe Length	: 42 feet / 13 meters
Scope of Logistics	: DAP basis delivery to different pipe yards in Africa and Latin America

Transportation Methods : Trucks & Vessels

NAWARA & SOUTH TUNISIA GAS DEVELOPMENT PROJECT TUNISIA - 2015

Operational Highlights

Project Details

OD	: 6" / 168.3 mm
Wall Thickness	: 0.280" - 0.311" (7.11 mm - 7.92 mm)
Total Length	: 69 miles - 112 km
Production Standard	: API 5L 45 th Edition PSL2 and Client's Specifications
Material Grade	: X52M PSL2
OD Coating	: 3 Layers of Polypropylene (PP)
ID Coating	: Bare
Project Owner	: OMV
Pipe Length	: 40 feet / 12 meters DRL
Scope of Logistics	: CFR basis delivery to Gabes Port in Tunisia

Transportation Methods : Vessels





BOTAŞ PROJECTS

TURKEY - 2015

Operational Highlights

Project Details

OD	: 6" - 8" / 168.3 mm - 219.1 mm
Wall Thickness	: 0.204" - 0.251" - 0.279" - 0.322" / (5.2 mm - 6.4 mm - 7.1 mm - 8.2 mm)
Total Length	: 153 miles - 247.6 km
Production Standard	: API 5L 45 th Edition PSL2, and Client's Specifications
Material Grade	: X42N & Grade B PSL2
OD Coating	: 3 Layers of High Density Polyethylene (HDPE)
ID Coating	: Bare
Project Owner	: Boru Hatları ile Petrol Taşıma A.Ş. (Botaş)
Pipe Length	: 40 feet / 12 meters DRL
Scope of Logistics	: CPT basis delivery to BOTAŞ pipe yards in Oltu Osmaniye, İskilip, Alaca and Çekerek

Transportation Methods : Trucks



SOCAR GAS PIPELINE PROJECT AZERBAIJAN - 2015

Operational Highlights

Project Details

OD	: 12" / 323.9 mm
Wall Thickness	: 0.314" / (8.00 mm)
Total Length	: 13 miles - 21 km
Production Standard	: API 5L 45 th Edition PSL2 and Client's Specifications
Material Grade	: X56
OD Coating	: 3 Layers of High Density Polyethylene (HDPE)
ID Coating	: Bare
Project Owner	: SOCAR
Pipe Length	: 40 feet / 12 meters DRL
Scope of Logistics	: CPT basis delivery to different pipe yard in Azerbaijan

Transportation Methods : Trucks



A close-up photograph of a large stack of pipes, showing the circular openings and the metallic texture of the pipe walls. The pipes are arranged in a grid-like pattern, with some showing signs of wear and discoloration. The lighting is dramatic, highlighting the edges and creating deep shadows within the pipe openings.

MAJOR LARGE DIAMETER HSAW AND ERW REFERENCE LISTS



Major Projects Reference List for HSAW Pipes

COUNTRY	PROJECT OWNER	USAGE	PROJECT DESCRIPTION	QUANTITY	YEAR
USA	ENBRIDGE	GAS	MTPL GLAD REPLACEMENT PROJECT, 30", X70M, OD FBE COATED, ID BARE	12 KM	2022
MEXICO	IENOVA	GAS	GRO EXPANSION PROJECT, 30", X70M, OD FBE COATED ID BARE	94 KM	2022
CANADA	TC ENERGY	GAS	NGTL 2021 PIPELINE, 48", X70M, OD FBE + ARO COATED, ID EPOXY COATING	106 KM	2020
CANADA	TC ENERGY	GAS	GROUND BIRCH PIPELINE, 42", X70M, OD FBE + ARO COATED, ID EPOXY COATING	25 KM	2019
TURKEY	BOTAŞ	GAS	TURK STREAM II PROJECT, 48", X65M, OD PE COATED, ID EPOXY COATED	24 KM	2019
TURKEY	BOTAŞ	GAS	AFYON SEÇKÖY PROJECT, 40", X65M, OD PE COATED, ID BARE	28 KM	2019
USA	KINDER MORGAN	GAS	GCX PROJECT, 42" X70M, OD FBE+ARO COATED, ID EPOXY COATING	368 KM	2019
TURKEY	BOTAŞ	GAS	TURK STREAM PROJECT, 48", X65M, OD PE COATED, ID BARE	23 KM	2018
USA	WILLIAMS	GAS	ATLANTIC SUNRISE PROJECT 30", 36", 42", X70 OD FBE + ARO COATED, ID EPOXY COATED	320 KM	2017
TURKEY	TANAP	GAS	TRANS ANATOLIAN PIPELINE PROJECT 48" & 56", X70 OD PE COATED, ID EPOXY COATED	215 KM	2017
ITALY	SNAM RETE GAS	GAS	MAM16/005C "TUBI DI LINEA 900 / 1400" PROJECT 36" & 48" & 56", L450MB OD PE COATED, ID EPOXY COATED	11 KM	2017
USA	KINDER MORGAN INC	GAS	ORION PROJECT 36" X70 OD FBE + ARO COATED, ID EPOXY COATED	22 KM	2017
ISRAEL	INGL	GAS	GAS PIPELINES, 36", X70 PSL2, OD PE COATED, ID EPOXY COATED	67 KM	2017
USA	EQM GATHERING OPCO, LLC	GAS	MAKO PROJECT 30", X70 OD BARE ID BARE	26 KM	2016
FRANCE	GRTGAZ S.A.	GAS	VAL DE SAÔNE PROJECT 48", L485ME OD PE COATED, ID EPOXY COATED	25 KM	2016
USA	WILLIAMS	GAS	GULF TRACE PIPELINE PROJECT 36", X70 OD FBE COATED, ID EPOXY COATED	12 KM	2016
USA	ENERGY TRANSFER	GAS	LONESTAR EXPRESS NGL PROJECT 30", X70 OD FBE + ARO COATED, ID BARE	443 KM	2015
USA	WILLIAMS	GAS	LEIDY SOUTHEAST PROJECT 42", X70 OD FBE + ARO COATED, ID EPOXY COATED	51 KM	2015
LITHUANIA	AMBER GRID	GAS	KLAIPEDA - KURSENAI PROJECT 32", L415ME OD PE COATED, ID BARE	37 KM	2015
USA	SPECTRA	GAS	OHIO PIPELINE ENERGY NETWORK PROJECT 30", X70 OD FBE COATED, ID BARE	126 KM	2014
ALGERIA	ALFAPIPE	GAS	RGZ3 SC5 KENANDA TA-ARZEW PIPELINE 42", X70M OD PE COATED, ID EPOXY COATED	25 KM	2014
ALGERIA	CAMEG	GAS	GAS PIPELINE PROJECT 28", X70M OD PE COATED, ID EPOXY COATED	99 KM	2013
MEXICO	TRANSCANADA LLC	GAS	TAMAZUNCHALE EXTENSION PIPELINE 36", X70M OD FBE COATED, ID BARE	12 KM	2013
POLAND	GAZ SYSTEM	GAS	GAS PIPELINE PROJECT	305 KM	2013

COUNTRY	PROJECT OWNER	USAGE	PROJECT DESCRIPTION	QUANTITY	YEAR
FRANCE	GRTGAZ S.A.	GAS	ARC DE DIERREY GAS PIPELINE PROJECT 48" L485MB OD PE COATED, ID EPOXY COATED	61 KM	2013
POLAND	GAZ-SYSTEM S.A.	GAS	VARIOUS GAS PIPELINE PROJECTS 28" & 32" L485MB & L555MB OD PE & PP COATED ID EPOXY COATED	262 KM	2013
TURKEY	BOTAŞ	GAS	KESAN GAS PIPELINE PROJECT 36" X65M OD PE COATED, ID BARE	100 KM	2012
USA	KINDER MORGAN INC	GAS	NORTHEAST UPGRADE PROJECT 30" X70M OD FBE COATED, ID EPOXY COATED	77 KM	2012
SLOVAKIA	EUSTREAM	GAS	SLOVAKIA - HUNGARY INTERCONNECTOR GAS PIPELINE PROJECT 32" L485MB OD PE COATED, ID EPOXY COATED	26 KM	2012
FRANCE	GRTGAZ	GAS	HAUTS DE FRANCE II GAS PIPELINE PROJECT 48" L485MB OD PE COATED, ID EPOXY COATED	17 KM	2012
LITHUANIA	AB LIETUVOS DUJOS	GAS	JURBARKAS TAURAGE PROJECT 16" L360 OD PE COATED, ID BARE	35 KM	2012
DENMARK	ENERGINET.DK	GAS	ELLUND EGTVED PROJECT 32" L485MB OD PE & PP COATED, ID EPOXY COATED	95 KM	2012
USA	ELPASO GROUP - TENNESSEE GAS PIPELINE	GAS	NORTHEAST SUPPLY DIVERSIFICATION 30" X70M OD FBE COATED, ID EPOXY COATED	12 KM	2011
BELGIUM	FLUXYS	GAS	BEN AHIN BRAS PIPELINE PROJECT 20" L415MB OD PE COATED, ID EPOXY COATED	49 KM	2011
ALGERIA	PETROFAC BP-STATOIL SONATRACH (JV) (END USER)	GAS	IN-SALAH GAS SOUTHERN FIELD DEVELOPMENT PROJECT 24" - 32" X70 OD PE COATED, ID EPOXY COATED	134 KM	2011
TURKEY	CHINA TIANCHEN ENGINEERING CORP.	GAS	BOTAS SALT LAKE UNDERGROUND GAS STORAGE 36" X65M OD PE COATED, ID EPOXY COATED	24 KM	2010
TURKEY	OMV	GAS	OMV SAMSUN GAS PIPELINE PROJECT 24" X65M OD PE COATED, ID EPOXY COATED	53 KM	2010
USA	ELPASO GROUP - TENNESSEE GAS PIPELINE	GAS	300 LINES PIPELINE PROJECT 30" X70M OD FBE COATED, ID EPOXY COATED	212 KM	2009
FRANCE	GRTGAZ	GAS	F72 LE MANS PIPELINE PROJECT 36" L485MB OD PE COATED, ID EPOXY COATED	2 KM	2009
HUNGARY	MOL GROUP	GAS	CROATIAN TRANSIT PIPELINE 32" L485MB OD PE COATED, ID EPOXY COATED	209 KM	2009
ALGERIA	SONATRACH	GAS	GR4 PIPELINE PROJECT 48" X70 OD PE COATED, ID EPOXY COATED	305 KM	2009
TURKEY	BOTAŞ BORU HATLARI İLE PETROL TAŞIMA A.Ş.	GAS	MUGLA DGBH PROJECT 16" X52 OD PE COATED, ID BARE	21 KM	2009
ALGERIA	CAMEG	GAS	GAS PIPELINE PROJECTS 20" - 28" X70M OD PE COATED, ID EPOXY COATED	171 KM	2008
HUNGARY	FGSZ	GAS	FGSZ PIPELINE PROJECT 28" L450MB OD PE COATED, ID EPOXY COATED	49 KM	2008
USA	SOUTHERN NATURAL GAS PIPELINE GROUP	GAS	ELBA EXPRESS PIPELINE PROJECT 36" - 42" X70M OD FBE COATED, ID BARE	313 KM	2007
HUNGARY	MOL GROUP	GAS	GAS PIPELINE PROJECT 32" & 40" L485MB OD PE COATED, ID EPOXY COATED	260 KM	2007
ALGERIA	SNAMPROGETTI	GAS	LZ2 HASSI R'MEL - ARZEW PIPELINE 24" X60M OD PE COATED, ID BARE	476 KM	2007

Major Projects Reference List for ERW Pipes

COUNTRY	PROJECT OWNER	USAGE	PROJECT DESCRIPTION	QUANTITY	YEAR
COLOMBIA, CONGO, GABON, CAMEROON	PERENCO	GAS	2" - 12" HFI WELDED (ERW) STEEL PIPES VARIOUS OIL AND GAS PIPELINE PROJECTS GRB - X52, PE - PP COATED, ZAP-LOK END	1.650 KM	2022
PERU	PIPE EXCHANGE	GAS	GAS PIPELINE PROJECT, 6" - 8" - 10" HFI WELDED (ERW) STEEL PIPES, X42, GR.B, OD FBE COATED, ID BARE	215 KM	2020
TUNUSIA	MAZARINE ENERGY	GAS	MAZARINE ENERGY PROJECT, 8", X60, OD PE COATED, ID BARE	15 KM	2019
GABON	ASSALA GABON	WATER-OIL	4" - 6" - 8" HFI WELDED (ERW) STEEL PIPES, X42, ZAP - LOK END, PE COATED, ID EPOXY COATING	107 KM	2019-2020
TURKEY	İGDAŞ	GAS	4" - 6" - 8" - 12" HFI WELDED (ERW) STEEL PIPES, GR. B., OD PE COATED, INSIDE EPOXY COATING, BEVELED ENDS	91 KM	2018
TUNISIA	MAX STREICHER BOUCHAMAOUİ JV	GAS	6" HFI WELDED (ERW) STEEL PIPES OMV NAWARA AND SOUTH TUNISIA GAS DEVELOPMENT PROJECT X52M, PP COATED, BEVELED END	112 KM	2015
AZERBAIJAN	SOCAR (PROJECT OWNER) TTI LLC (CONTRACTOR)	GAS	12" HFI WELDED (ERW) STEEL PIPES SOCAR GAS PIPELINE X56, PE COATED, API5L, BEVELED END	21 KM	2014
TUNISIA	STEG	GAS	4" - 8" HFI WELDED (ERW) STEEL PIPES GAS PIPELINE PROJECTS X42 - X60, PE COATED, BEVELED END	125 KM	2013
IRAQ	TOVI COMPANY		10" HFI WELDED (ERW) STEEL PIPES GAS PIPELINE PROJECTS X52, PE COATED, BEVELED END	32 KM	2012
CAMEROON	SNH CAMEROON (END USER) SOGEA-SATOM (MAIN CONTRACTOR) DENYS (PIPELINE CONTRACTOR)	GAS	12" HFI WELDED (ERW) STEEL PIPES BIPAGA - MPOLONGWE NATURAL GAS PIPELINE X60, PE COATED, BEVELED END	19 KM	2012
LIBYA	ENKA	GAS	12" HFI WELDED (ERW) STEEL PIPES 4X160MV GAS TURBINE POWER PLANT SECTION 1-2 GRB, PE COATED, BEVELED END	50 KM	2012 - 2014
NIGERIA	OILSERVE LTD		12" HFI WELDED (ERW) STEEL PIPES OWAZA - OSISIOMA GAS TRANSMISSION PIPELINE X65, PE COATED, ZAPLOK END	28 KM	2011
AUSTRIA	NETZ NIEDEROSTERREICH GMBH EVN GROUP	GAS	3" - 12" HFI WELDED (ERW) STEEL PIPES GAS PIPELINE PROJECTS L290NB - X42 - L45NB - L360NB, PE COATED, EN ISO 3183 BEVELED END	31 KM	2010 - 2014
ROMANIA	OMV PETROM	GAS	3" - 10" HFI WELDED (ERW) STEEL PIPES GAS DISTRIBUTION LINES L245NB - X52M, PE COATED, BEVELED END	223 KM	2010 - 2013
CROATIA	EVN CROATIA	SPLITSKO - DALMANTISKA	8" - 12" HFI WELDED (ERW) STEEL PIPES GAS PIPELINE FOR SPLITSKO - DALMANTISKA AND SIBENSKO - KNINSKA, L290NB - L360NB - X42M, PE COATED, BEVELED END	32 KM	2010 - 2012
PERU	PIPE EXCHANGE - GAS	GAS	6" - 8" - 10" HFI WELDED (ERW) STEEL PIPES, X42, GR.B, OD FBE COATED, ID BARE	215 KM	2009 - 2020
TURKEY	TPAO, BOTAŞ AND PRIVATE GAS DISTRIBUTION COMPANIES	GAS	2" - 12" HFI WELDED (ERW) STEEL PIPES GAS DISTRIBUTION PROJECTS GRB - X42 - X52, PE COATED, API5L, BEVELED END	1.490 KM	2009 - 2020
EGYPT	WASCO, FAYUM, TAQA GROUP EGYPT GAS, QUARUN, PPC	GAS	6" - 12" HFI WELDED (ERW) STEEL PIPES GAS PIPELINE PROJECTS X52, PE COATED, API5L, BEVELED END	314 KM	2009 - 2018
ALGERIA	SONATRACH	GAS	GZ1 HASSI R'MEL - MEDAREG PIPELINE 40" X60M, OD PE COATED, ID EPOXY COATED	234 KM	2006
TURKEY	BOTAŞ	GAS	TÜRKİYE GREECE PIPELINE 36" X65M OD PE COATED, ID BARE	180 KM	2005
ALGERIA	SONATRACH	OIL	NK1 PIPELINE PROJECT 30" X60M, OD PE COATED, ID BARE	665 KM	2005
TURKEY	BOTAŞ, BTC DIRECTORATE	OIL	BAKU - TBILISI - CEYHAN PIPELINE 34" - 42" X65MS, OD PE COATED, ID BARE	194 KM	2004

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