



Corporate presentation
Delivering energy to the world

CENERGY HOLDINGS

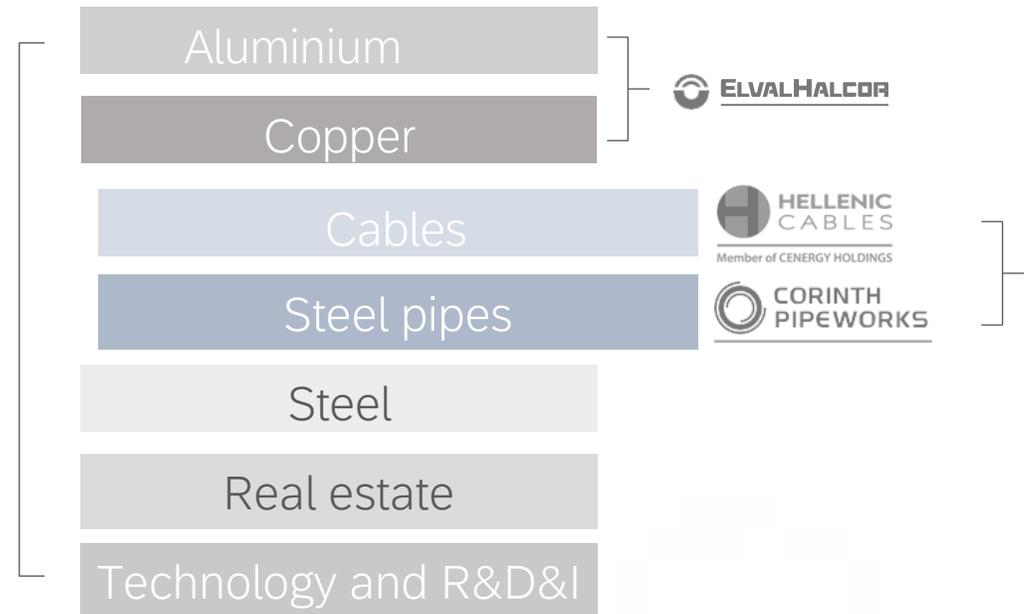
Focus on Energy

VIOHALCO

EUR **5,4** billion Revenue EUR **426** million a-EBITDA

Euronext Brussels and Athens Exchange:
VIO, based in Brussels, Belgium, is a holding company of various metal processing companies in Europe.

With production facilities in Greece, Bulgaria, Romania, Russia, FYROM and the United Kingdom, Viohalco's subsidiaries specialise in the manufacture of aluminium, copper and cables, steel and steel pipe products. Viohalco and its companies are also active in real estate development projects.



CENERGY
H O L D I N G S

EUR **1,054** million Revenue EUR **104** million a-EBITDA

Euronext Brussels and Athens Exchange:
CEN, based in Brussels, Belgium, is a holding company focusing in energy.

Its companies are having a history of 70 years, with 5 production facilities in 3 countries and providing services in 70 countries and

At a **GLANCE**



More than
50
Years of
experience



Sales in
45
countries
Leader in energy



Tier 1
supplier

> 22,000 km pipelines
> 3,000 km offshore pipelines
> 1,000 km CO₂ pipelines



Investments
364
Million €
* 1998-2021

* 2002-2021



Energy Transition

Enabling the future

Gas Leading position

Natural gas is often considered as the alternative to clean energy, producing around half the carbon dioxide (CO₂) and just one tenth of the air pollutants of coal when burnt to generate electricity.

It is a versatile energy sources, helping to meet the growing demand for energy globally and able to partner with renewable energy sources.

We are considered one of the **top manufacturers for gas pipelines** worldwide

Hydrogen Technology & Innovation

Hydrogen is considered the cleanest fuel of the future. The Company, in collaboration with companies and laboratories abroad, is a **pioneer in the research and development** of solutions for the certification of steel pipes for the **safe transportation of hydrogen** as a mixture with natural gas or in pure form.

European Clean
Hydrogen Alliance



CCS Carbon Capture & Storage Long experience

Carbon capture and storage technology prevents the release of carbon dioxide into the atmosphere resulting from the combustion of fossil fuels or industrial processes.

We have successfully delivered more than 1,150km of CO₂ transmission pipelines and are ready to face any new challenge

Wind

Today, wind energy offers a technologically mature, economically competitive and environmentally friendly energy choice. It is an inexhaustible source of energy, without an environmental burden. The wind energy sector is one of the fastest growing energy technologies, especially in offshore wind farms and dynamically in floating wind farms.

The company is evaluating the entrance in this dynamic sector

CORINTH PIPEWORKS
Member of CENERGY HOLDINGS

Megatrends

Adapting the Challenges

Climate change



Circular economy projects



79% boost of water reuse vs 2020



91,37% recycled waste



4% reduction of Scope 1&2 CO2 emissions

Digitalization



Digital transformation
Optimization of energy and materials consumption
HR digitalization
QM customized platform
HSE digital platform

Energy efficiency



1,63% reduction of electrical energy consumption



Energy saving projects



Energy monitoring technologies



ISO 50001 Energy management system



Enabling the Hydrogen infrastructure of the future

Our technologically advanced solution for hydrogen certified pipes, is highlighted with the utilization of a new, state-of-the-art, hydrogen testing laboratory.



SNAM: They are the first, newly manufactured, pipes certified to transport up to 100% hydrogen for a high-pressure transmission gas pipeline in Europe.

Country: Italia



DESFA: West Macedonia pipeline is part of the European Hydrogen Backbone, Europe's hydrogen infrastructure needed to achieve its climate and energy objectives.

Country: Greece (West Macedonia)



GAZSYSTEM: a high-pressure gas pipeline from Gustorzyn to Wronow.

Country: Poland



JEMENA: Jemena has selected to utilize Corinth's solution of high-grade steel pipes for the future transmission of up to 100% hydrogen.

Country: Australia

Environment Social Governance

ESG risks mitigation is a priority for the company's responsible operation

Environment



- Energy efficiency
- Circular economy
- Reduction of our carbon footprint
- Continuous improvement
- Waste minimization
- Responsible practices

Social



- Safe working environment
- Empowering our people
- Continuous improvement

Governance



- Monitoring and control
- Data privacy and protection
- Code of Conduct
- Continuous improvement

HISTORY

The implementation of strategic investments, combined with the participation in major and demanding projects, firmly establish the Company internationally. Corinth Pipeworks Holdings SA is absorbed by Cenergy Holdings SA.

Foundation

1960's

Going International

1970's

Growth

1980's

International Recognition

1990's

Investments are made to upgrade production processes and the first orders from North America, Asia, Europe, North Africa and the Middle East are undertaken.

The company is ready for the shift, based on its long experience in gas fuels and CCS and investing in the main pillars of the energy transition (hydrogen & wind)

Invest in the Future

2000's

Corinth Pipeworks establishes new, state-of-the-art production facilities in Thisvi, Viotia. The Company also successfully implements a business process re-engineering program and publishes its first Sustainability Report.

Established Tier 1 supplier

2010's

Energy Transition Enabler

2020's

Our plant



Thisvi plant, Viotia
125km from Athens



Headquarters
Marousi, Athens





Port
Exclusive use

All you need in
One location

Coating Solutions

External	Internal	CWC
8" – 100" 4 1/2" – 48"	8 5/8" – 56"	8 5/8" – 40"

Pipe Mills

HFIW 8 5/8" – 26" 400 KMT/year	LSAW 16" – 56" 400 KMT/year
HFIW 2" – 7 5/8" 150 KMT/year	HSAW 24" – 100" 375 KMT/year

Supporting/Downstream

- Port facilities (exclusive use)
- Double jointing facility
- Weld on Connectors: 5,000Tn/shift/year
- Laboratory (sour service / hydrogen)
- Storage areas

Our business

Gas & liquid fuel



Onshore pipelines

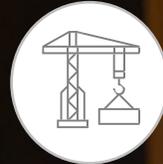


Offshore pipelines



Drilling & extraction

Construction



Hollow sections

Hydrogen



Hydrogen certified pipelines

CCS

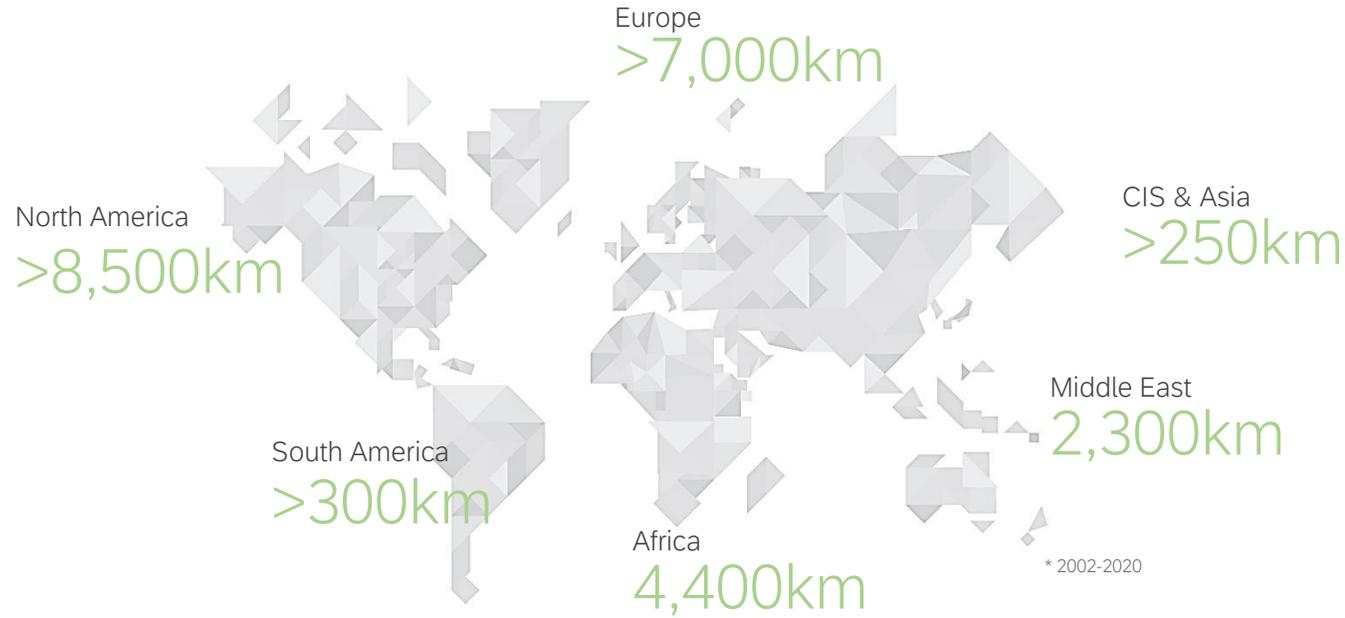
Carbon Capture Storage



CO₂ pipelines



Global presence





> Karish gas export pipeline
SE Mediterranean
Gas, Offshore deep (max 1.750m)
100 Km



> Reel lay projects
North & Norwegian sea
Gas & carrier, Offshore reel lay
>800km



> Baltic Interconnectors
& Polish network
Denmark, Finland,
Estonia, Poland
Gas >450 Km



> GoM offshore projects
Gulf of Mexico
Gas & carrier, Offshore
230 Km



> Trans Adriatic Pipeline
Greece, Gas, Onshore gas
495 Km



> Snam projects
Italy, Gas, onshore
>1.000km

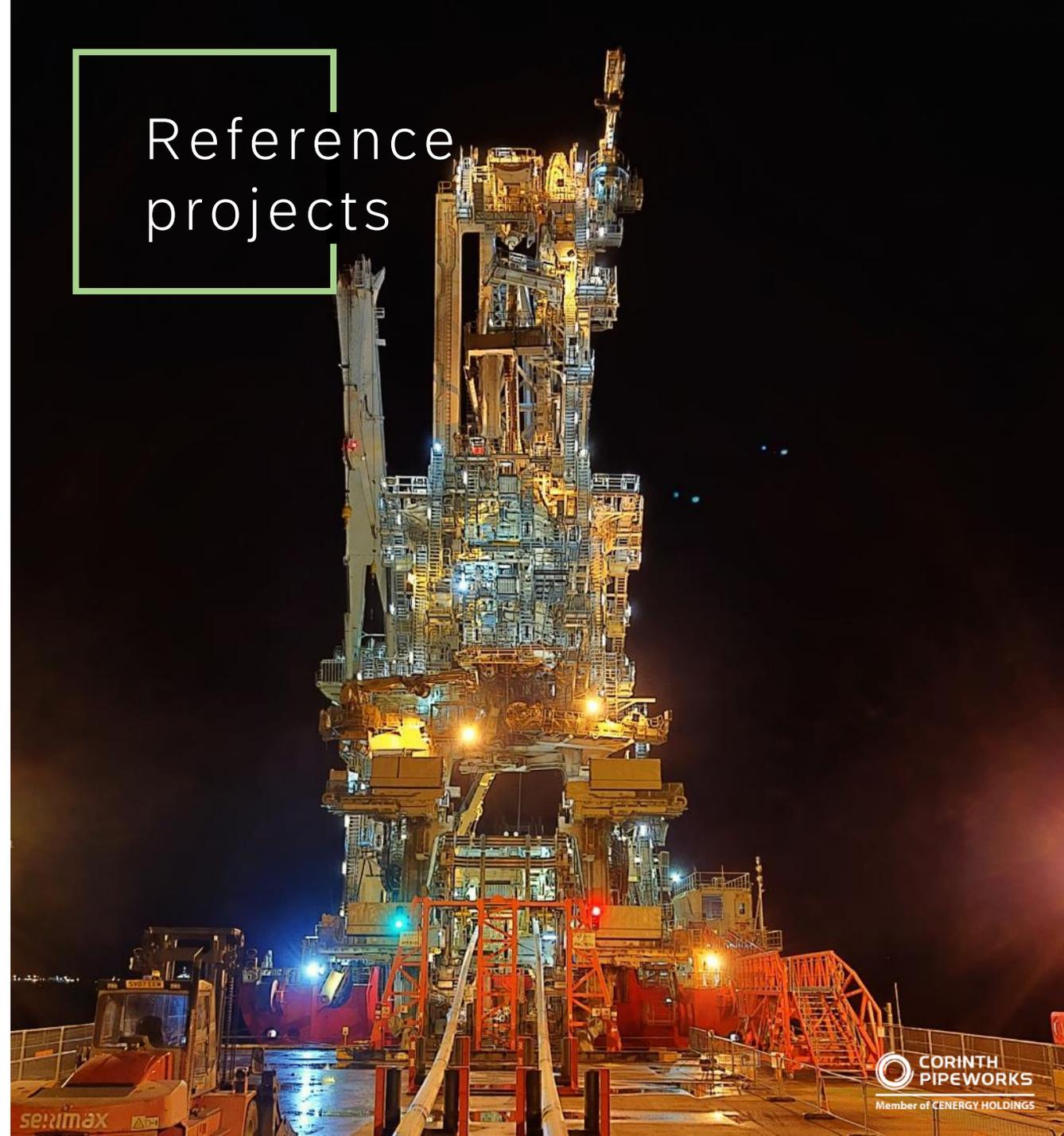


> Plains all American
USA, Onshore oil & gas
> 2000 Km



> Energy Transfer
USA, Onshore gas
> 1000 Km

Reference projects



Latest Awards



Collahuasi, Chile – 201km
44" SAWL Pipeline / Coating



West Macedonia / HYDROGEN certified, Greece – 163km
SAWL + HFI Pipes / Coating



Gustorzyn – Wronow, Poland - 80km of gas pipelines
HFIW & SAWL Pipelines Coating: PE/EPOXY



Awarded KEG project in the Norway
Reel lay using HFW pipes



440km of gas pipelines – HYDROGEN certified
HFIW & SAWL Pipelines Coating: PE/EPOXY



Colibri Shell, Trinidad & Tobago - 93km
HFIW X65 16"x18,3mm Coating: FBE



2nd award from Energinet (LOT3)
142km LSAW/HS AW L485 32"-36"-40" , 3LPE/Epoxy



Awarded King's Quay project in the Gulf of Mexico
Reel lay using HFW pipes in max depth 1,250m

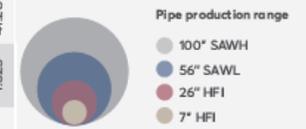
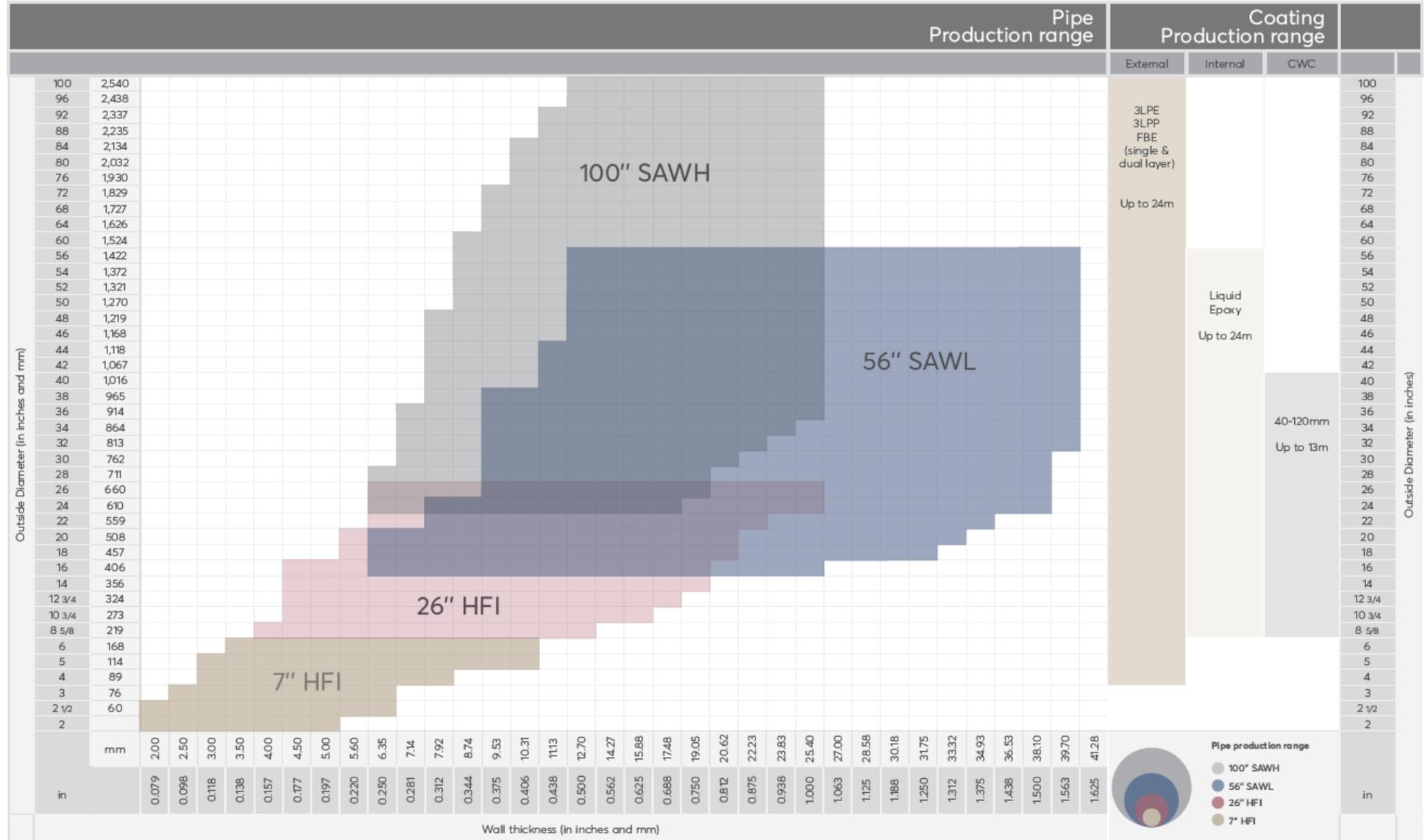


Offshore presence in the South East Med region
50km of 36" LSAW linepipe 3LPE/3LPP + CWC

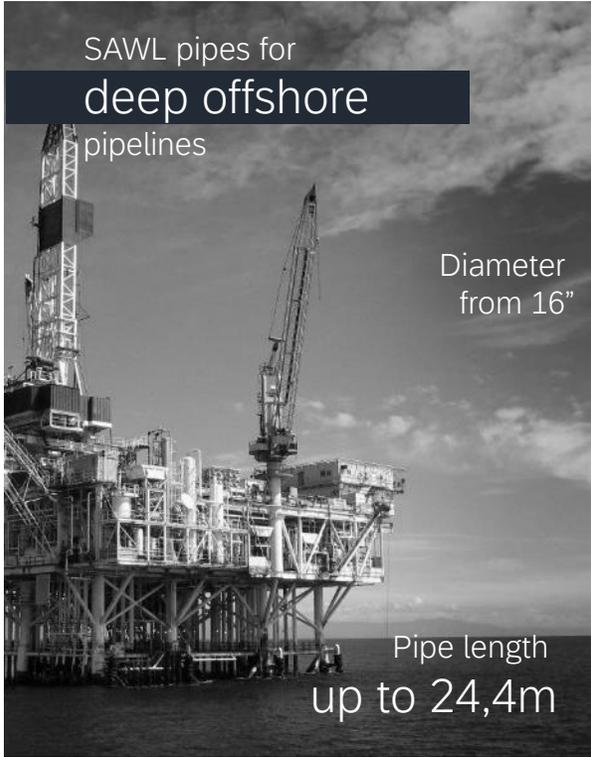


MJ (D55) project in block KG D6 Offshore, India.
8,8km SAWL 24"x 25,4-28,58mm, Offshore, Coating: PE

Production range



Our Advantages



SAWL pipes for deep offshore pipelines

Diameter from 16"

Pipe length up to 24,4m



Demanding applications

- > Reel-laying
- > CO₂ pipelines
- > Sour service

Pipe length up to 24,4m

Copyright Writershall



One of the **widest production ranges** in the world

- 100" SAWH
- 56" SAWL
- 26" HFIW
- 8" HFIW

Copyright T4

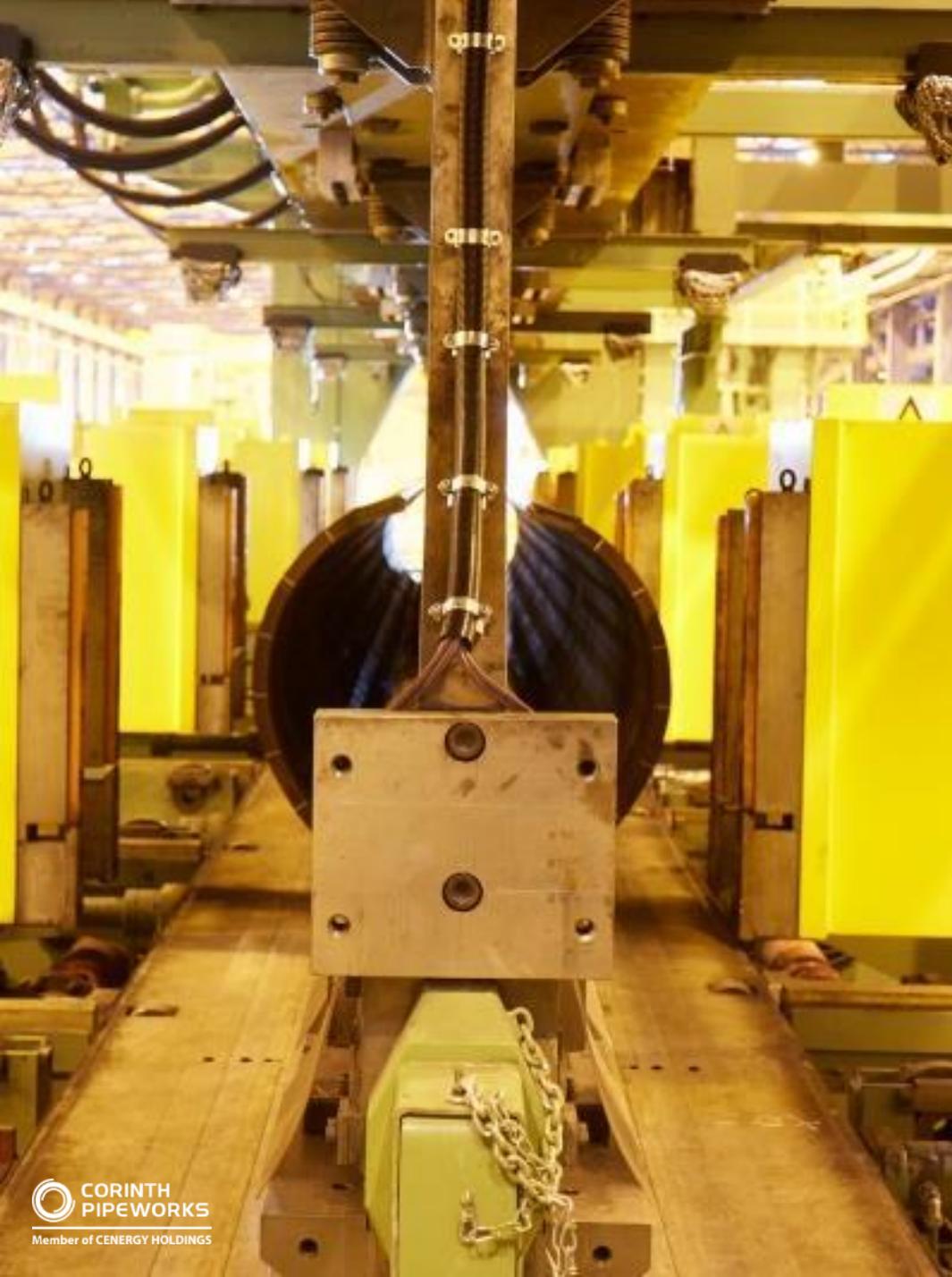


Integrated services

- Coating (Int-Ext)
- Concrete Weight Coating CWC
- Laboratory (sour service)
- Laboratory (hydrogen)
- Double jointing
- Project management
- Logistics
- etc.

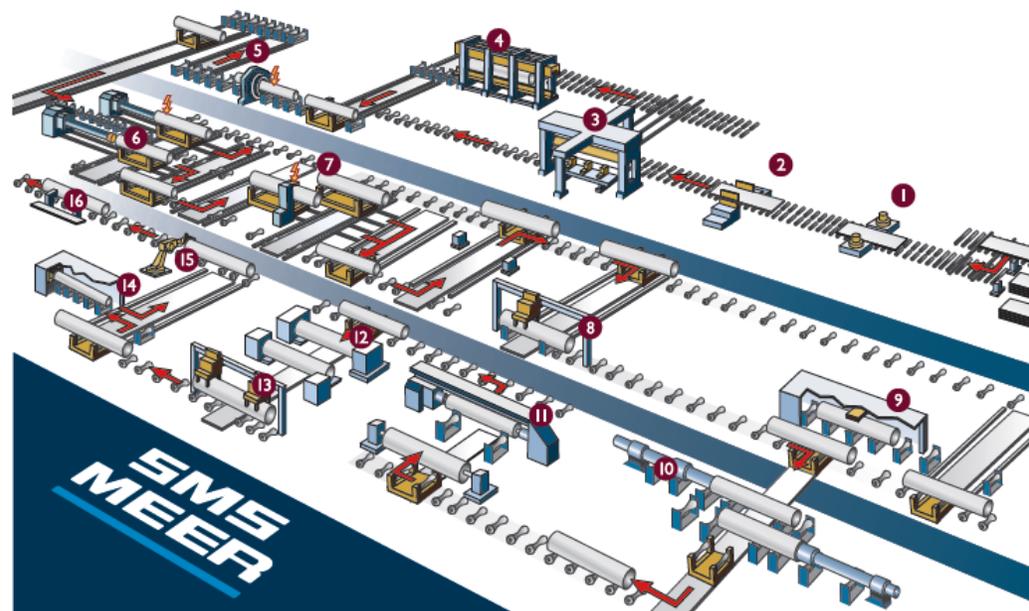
Port facilities

Exclusive use



Pipe mills LSAW 56"

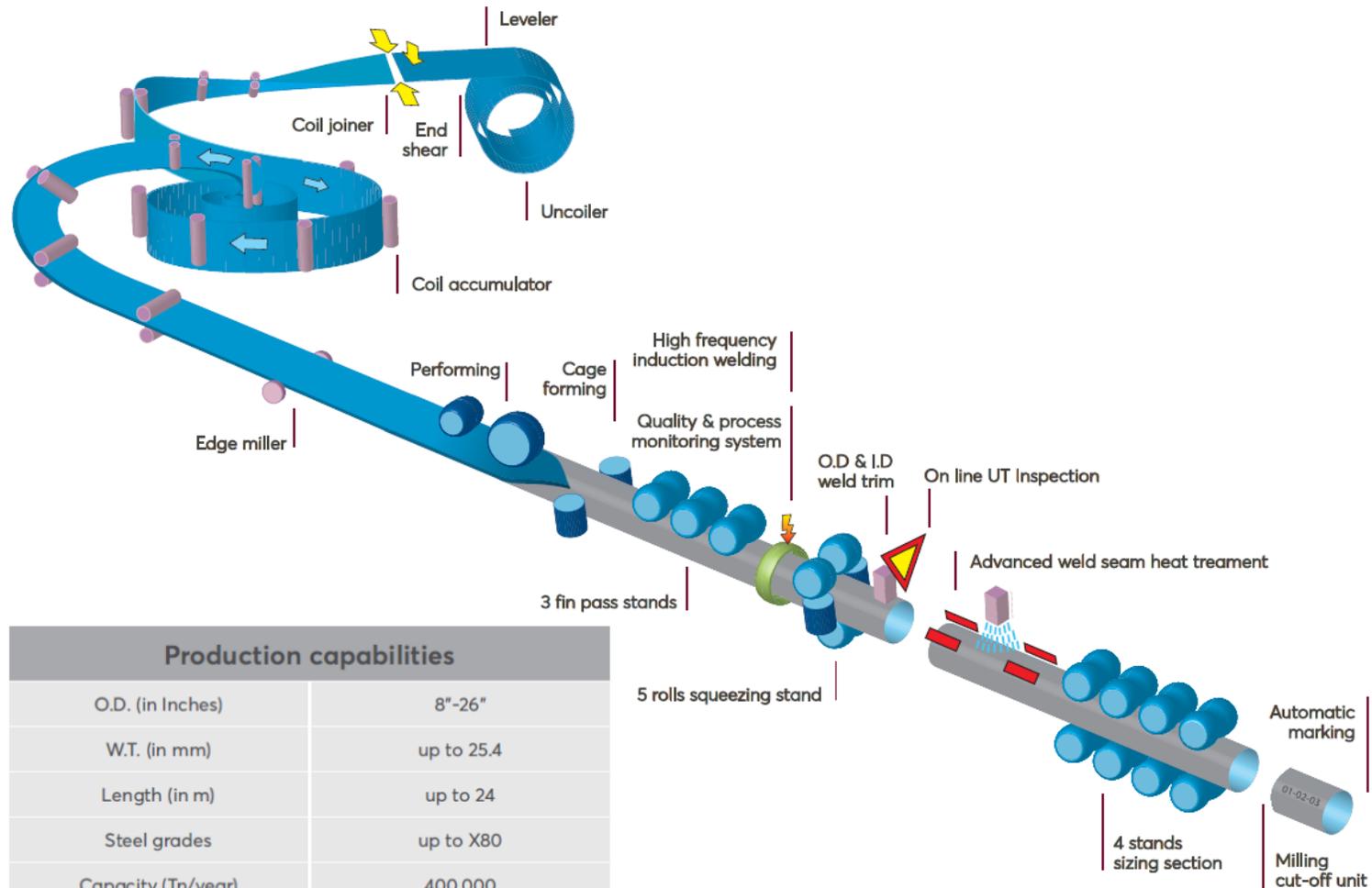
Production capabilities	
O.D. (in Inches)	16"-56"
W.T. (in mm)	up to 40
Length (in m)	up to 18.3
Steel grades	up to X100
Capacity (Tn/year)	400,000
Standards & specifications	API 5L, EN ISO 3183, DNVGL ST F101, EN 10219



- 1 Plate edge milling
- 2 Crimping of plate edges
- 3 JCO-press
- 4 Finishing press
- 5 Tack welding (temporary seam)
- 6 Inside welding (ID)
- 7 Outside welding (OD)
- 8 Ultrasonic testing I
- 9 X-ray testing I
- 10 Mechanical expansion
- 11 Hydrostatic pipe testing
- 12 Pipe end bevelling
- 13 Ultrasonic testing II
- 14 X-ray testing II

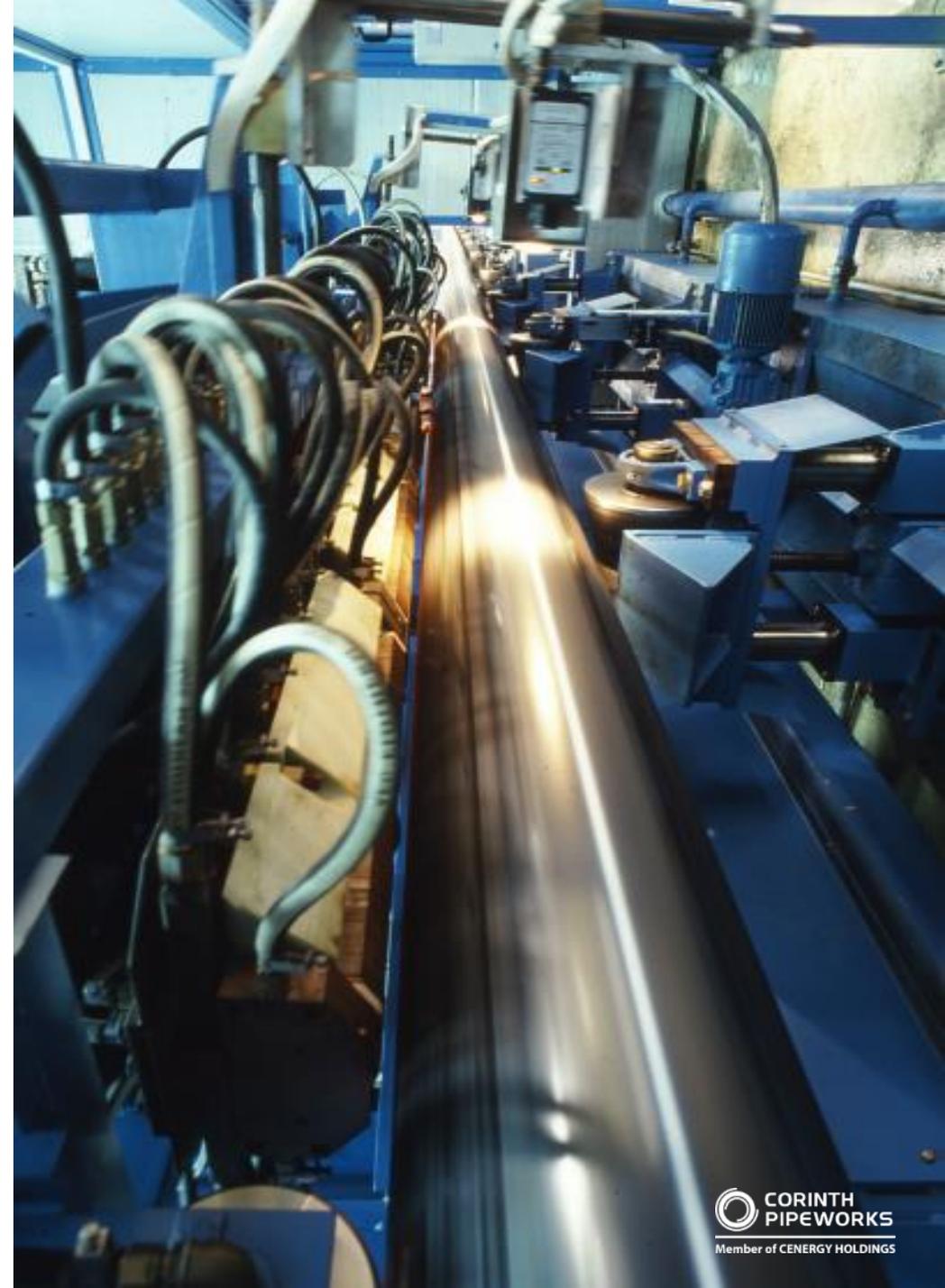
Pipe mills

ERW/HFI 26"



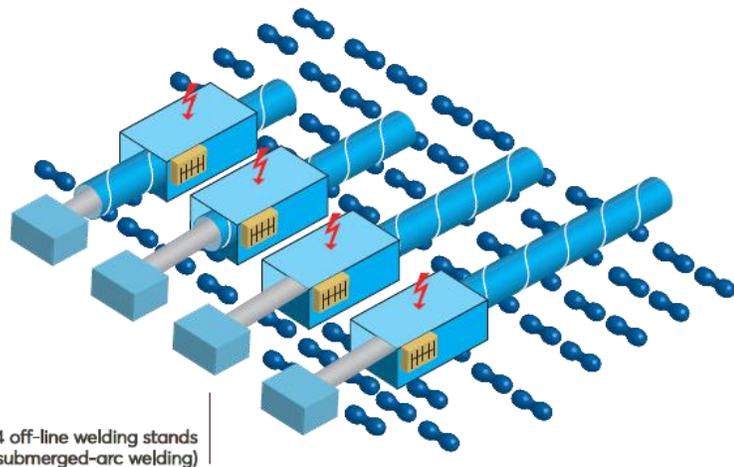
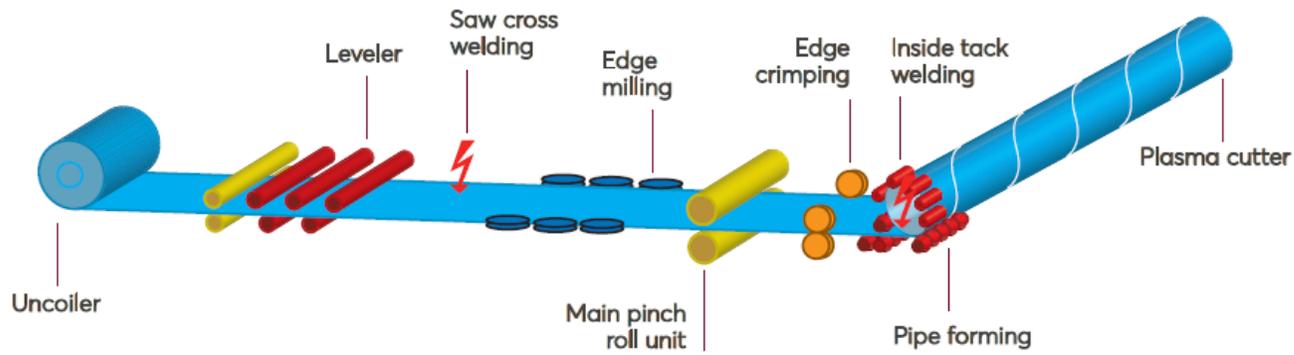
Production capabilities

O.D. (in Inches)	8"-26"
W.T. (in mm)	up to 25.4
Length (in m)	up to 24
Steel grades	up to X80
Capacity (Tn/year)	400,000
Standards & specifications	API 5L, API 5CT, EN ISO 3183, DNVGL ST F101, EN 10219



Pipe mills

HSAW 100"



4 off-line welding stands (submerged-arc welding)



Production capabilities	
O.D. (in Inches)	24"-100"
W.T. (in mm)	up to 25.4
Length (in m)	up to 18.3
Steel grades	up to X80
Capacity (Tn/year)	375,000
Standards & specifications	API 5L, EN ISO 3183, EN 10219

Coating mills

Coating and lining facilities			
	External coating		Internal coating
	TCP 48	TCP 100	TLP 56
Outside diameter (inch)	4 1/2"-48"	8 5/8"-100"	8 5/8"-56"
Max. Length (m)	18.3 m	24 m	24 m
Types	3LPE, 3LPP, FBE (single or dual layer)		Liquid epoxy
Capacity (per year)	7,000,000 m ²		2,000,000 m ²

Coating application process					
Specification	External coating				Internal coating
	3LPE	3LPP	FBE	FBE/ARO	EPOXY
ISO 21809-1	•	•			
ISO 21809-2			•		
DIN 30670	•				
DIN 30678		•			
DNVGL-RP-F106	•	•	•		
NFA 49-710	•				
NFA 49-711		•			
SHELL DEP	•	•	•	•	•
CAN CSA Z245.20-21	•		•	•	
API RP 5L2					•
ISO 15741					•
AWWA C210					•
EN 10301					•

Concrete weight coating	
Application method:	Compression
Outside diameter (inch)	8 5/8"-40"
Max. length (m)	13
Concrete thickness (mm)	40-120
Specification	ISO 21809-5

External
3LPE
3LPP
FBE
FBE/ARO
CWC

Internal
Epoxy



Strategic cooperation with steel producers



DILLINGER HÜTTE

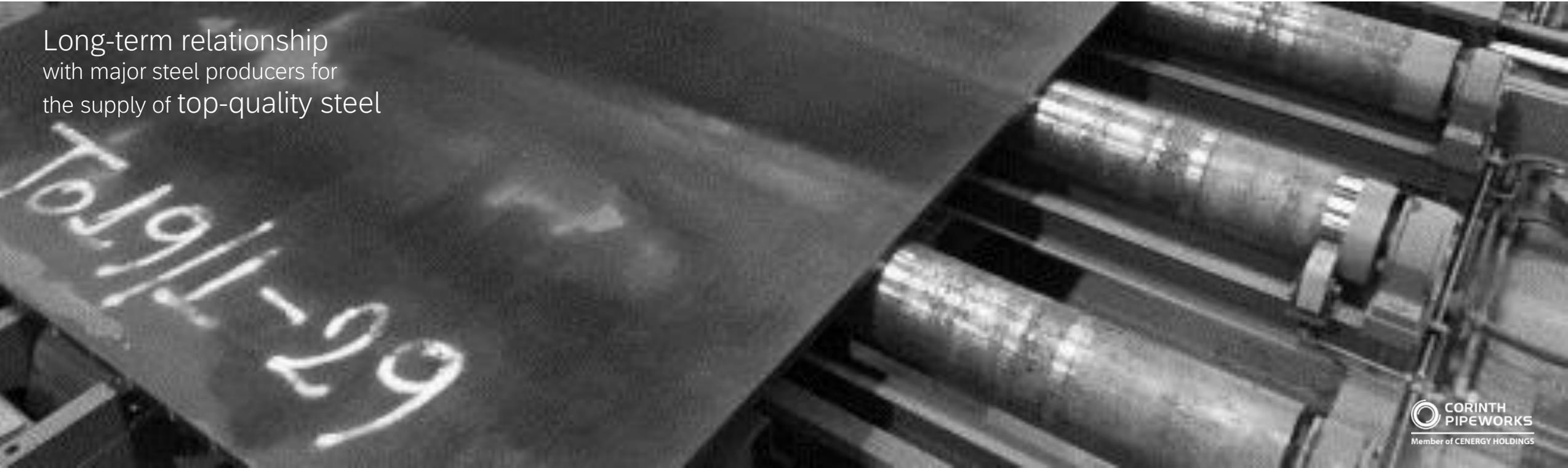
voestalpine



NIPPON STEEL &
SUMITOMO METAL



Long-term relationship
with major steel producers for
the supply of top-quality steel





Corporate presentation
Delivering energy to the world