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Corporate presentation 2023

CENERGY HOLDINGS

Focus on Energy

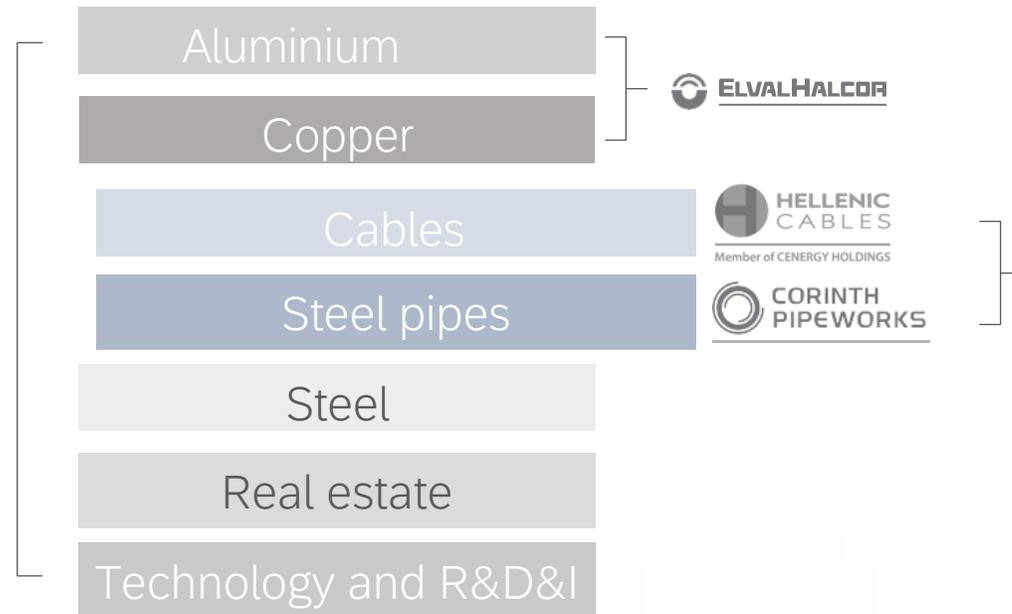
VIOHALCO

Revenue
in EUR Billion

6.99
2022

a-EBITDA
in EUR million

649
2022



CENERGY
H O L D I N G S

Revenue
in EUR Billion

1.43
2022

a-EBITDA
in EUR million

137
2022

At a **GLANCE**



More than
50
Years of
experience



Sales in
45
countries
Leader in energy



Tier 1
supplier

> 23,000 km pipelines
> 4,000 km offshore pipelines
> 1,000 km CO₂ pipelines



Investments
364
Million €
* 1998-2022

* 2002-2022



Energy Transition

Enabling the future

Gas Leading position

Natural gas is considered the transitional mean 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. We are the **first pipe manufacturer** to certify pipes for the safe transportation of hydrogen in high pressure network up to **100% of hydrogen**

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



Sustainability Strategy

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

> Responsible supply
Ecovadis Silver Award



Top 25%
of more than 100,000
accessed companies

> Climate Actions



> Digitalizing to create
value in Sustainability



We commit

Scope 1 & 2
Emissions

-50% (2030)

Scope 3
Emissions

100% (2025)
of main suppliers

Assess and prioritize suppliers with announced emissions reduction targets

RES
electricity

80% (2025)
100% (2030)

Standardization

ISO 14001:2015
ISO 14064:2018
ISO 50001:2018

EPD

Certify Environmental Product Declarations for all major product categories

Developing 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



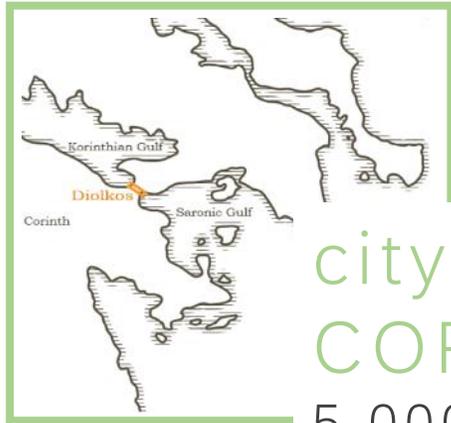
GAZSYSTEM: a high-pressure gas pipeline from Gustorzyn to Wronow.

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

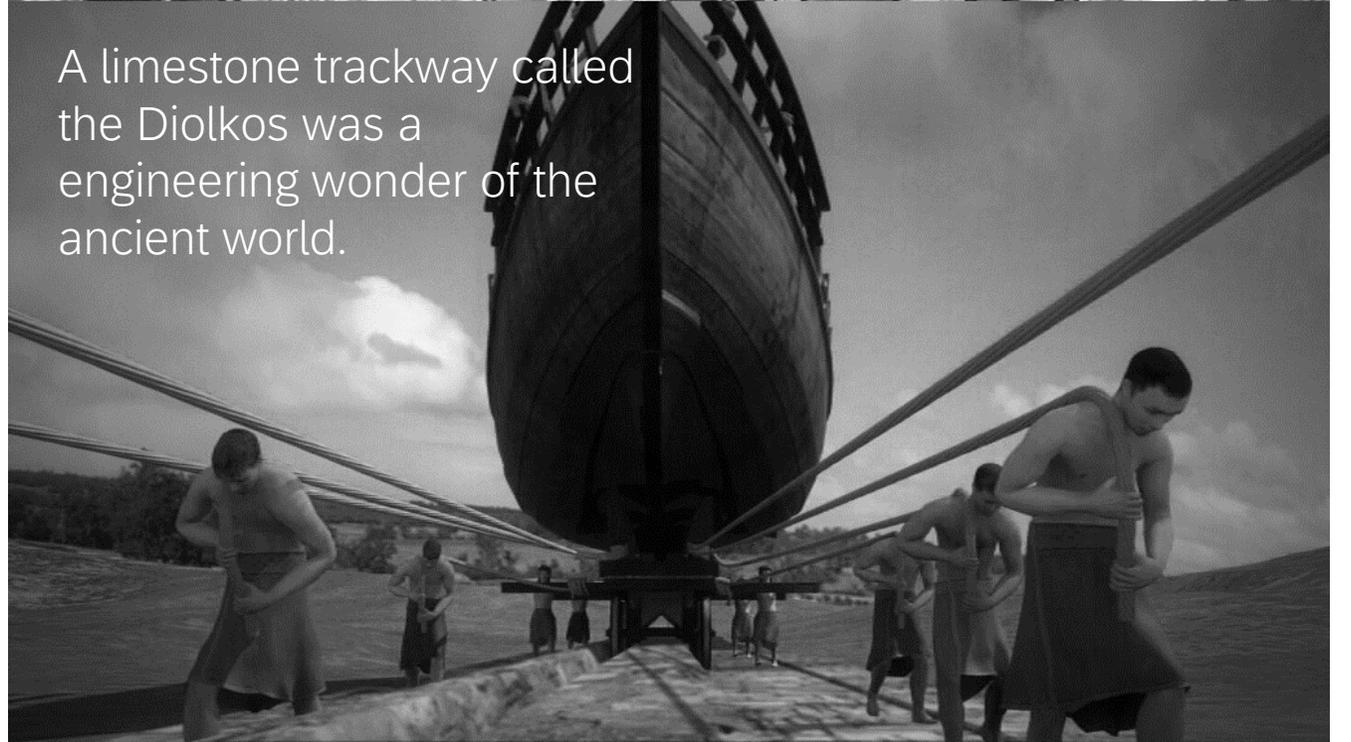


city of
CORINTH
5.000 years
of history

Ancient Corinth



A limestone trackway called the Diolkos was an engineering wonder of the ancient world.



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)

Energy Transition Enabler

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

2020's

Our plant



Thisvi plant, Viotia
125km from Athens



Headquarters
Marousi, Athens



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 conditions)
- Storage areas

Our business

Gas & liquid fuel



Onshore pipelines



Offshore pipelines



Drilling & extraction

Construction



Hollow sections

Hydrogen



Hydrogen certified pipelines

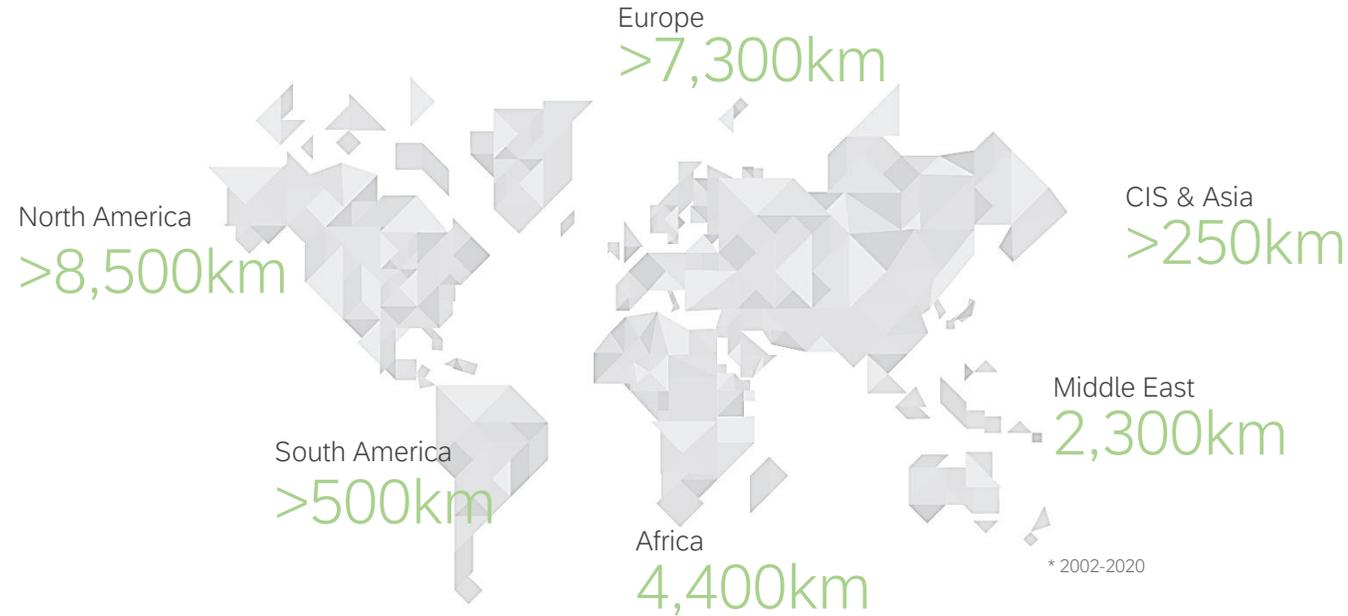
CCS

Carbon Capture Storage



CO₂ pipelines

Global presence



Latest Awards



CHEVRON Tamar opt. project, Israel – 155 km
20" SAWL Pipeline



TOTAL AUSTRAL-Fenix, Argentina - 40km of gas pipeline
SAWL Pipeline Coating: 3LPE/ROUGH +CWC



Shell Crux, Australia – 157 km
26" SAWL Pipeline



Shell Jackdaw, UK – 31km
HFW pipes / Coating: 3LPP



HANZ project in the Norway
Reel lay using HFW pipes / Coating: 3LPP



Alexandroupolis FSRU pipeline - 30km gas pipeline Greece
SAWL Pipeline Coating: 3LPE/ROUGH +CWC



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



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



> 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
>900km



> 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
>1,200km



> Plains all American
USA, Onshore oil & gas
> 2,000 Km

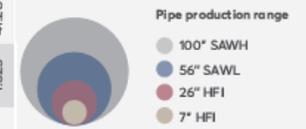
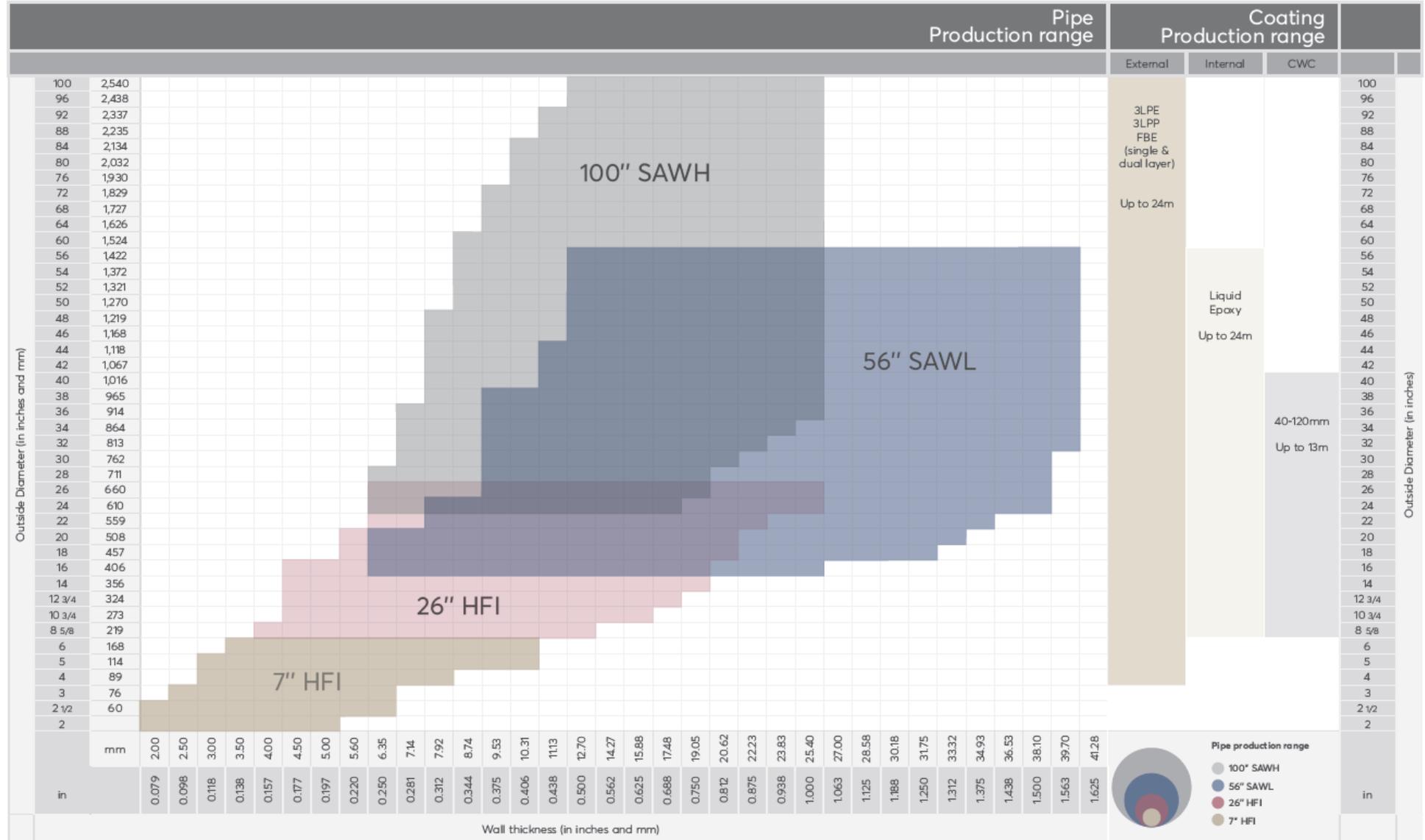


> Energy Transfer
USA, Onshore gas
> 1,000 Km

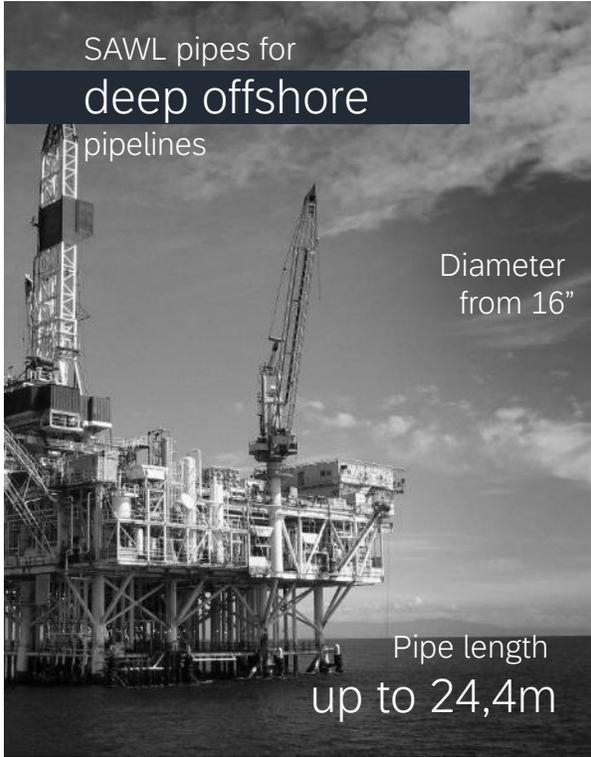
Reference projects



Production range



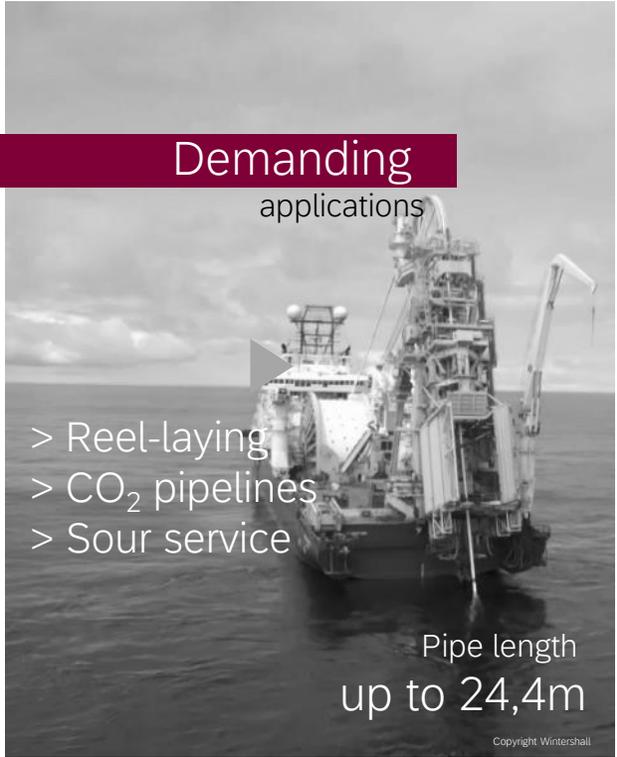
Our Advantages



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

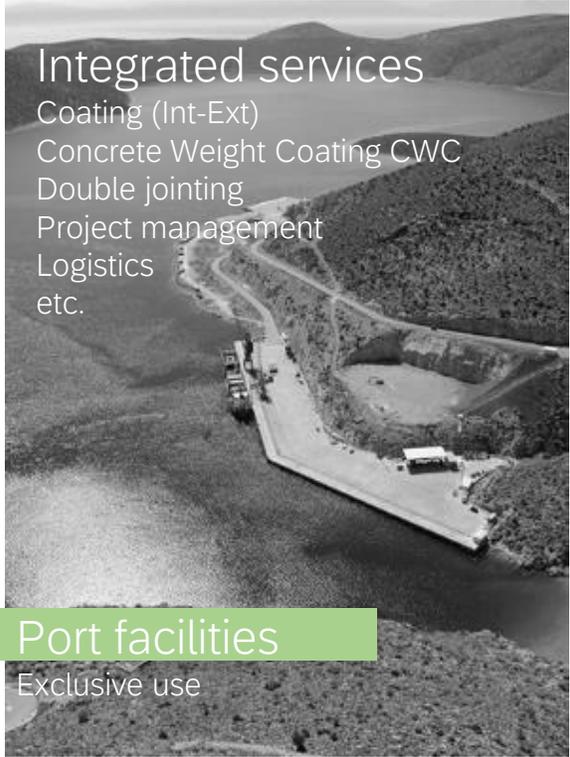
Copyright Writershall



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

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

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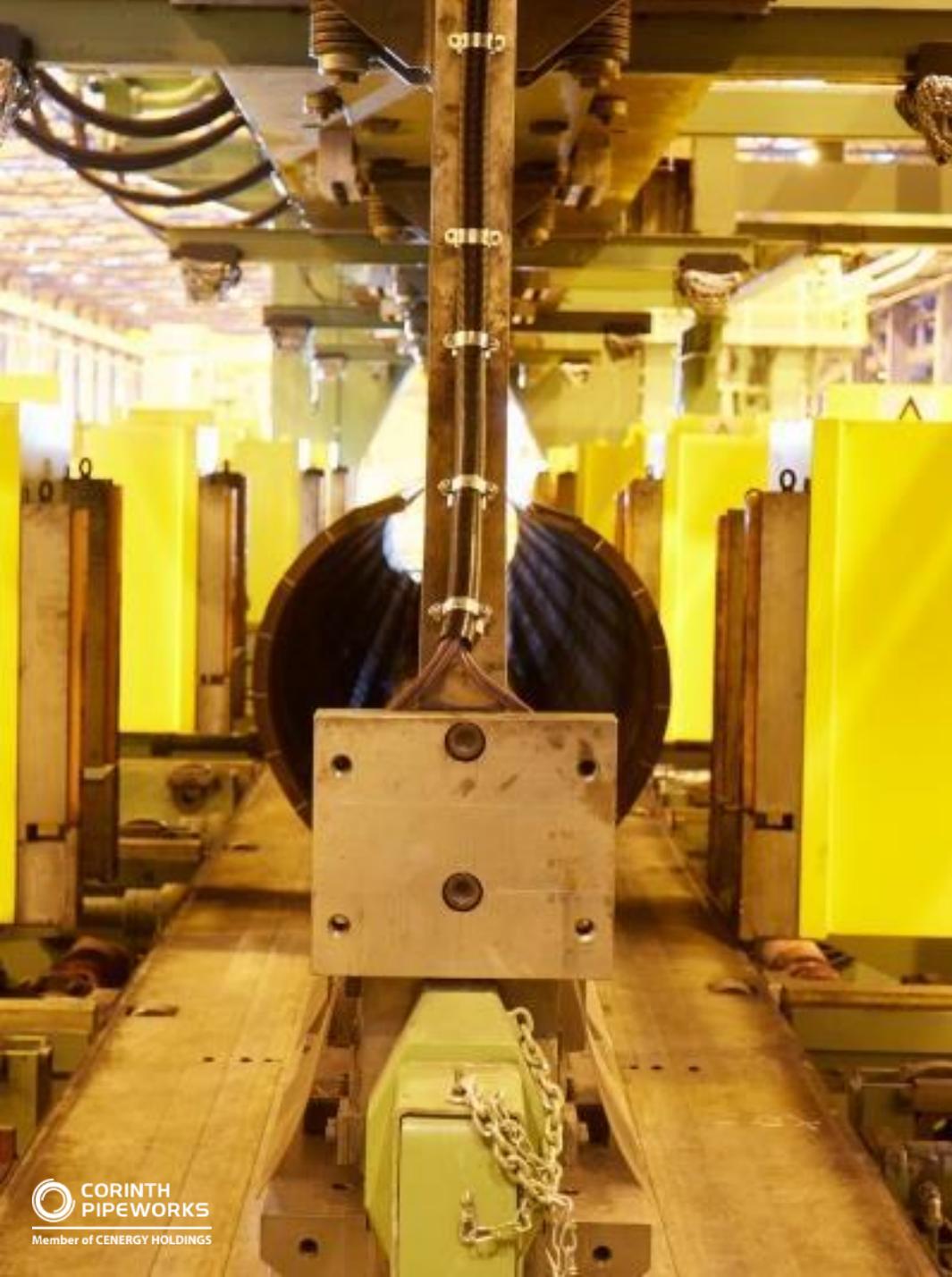


Integrated services

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

Port facilities

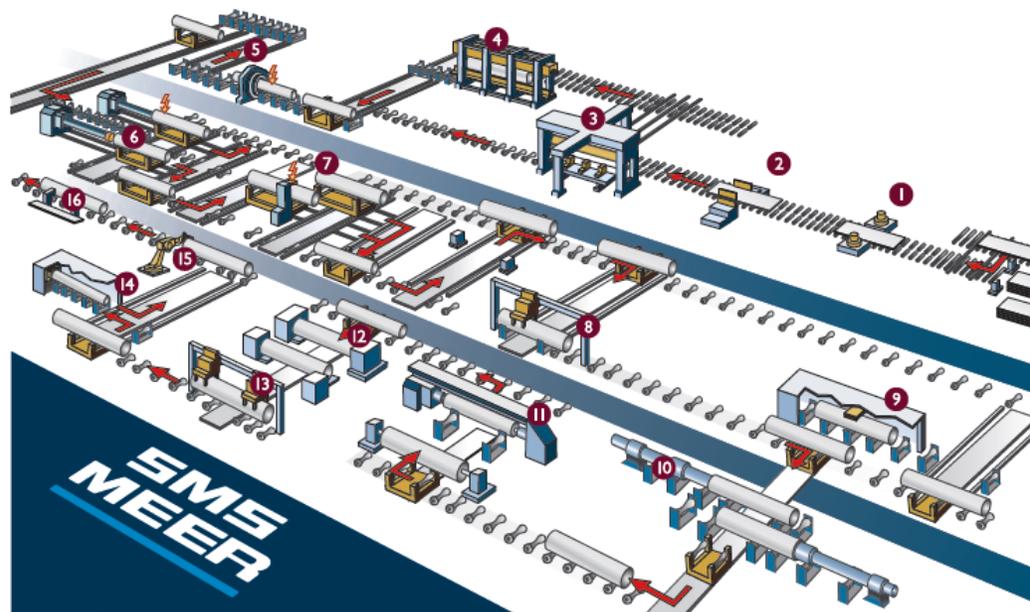
Exclusive use



Pipe mills LSAW 56"

Production capabilities

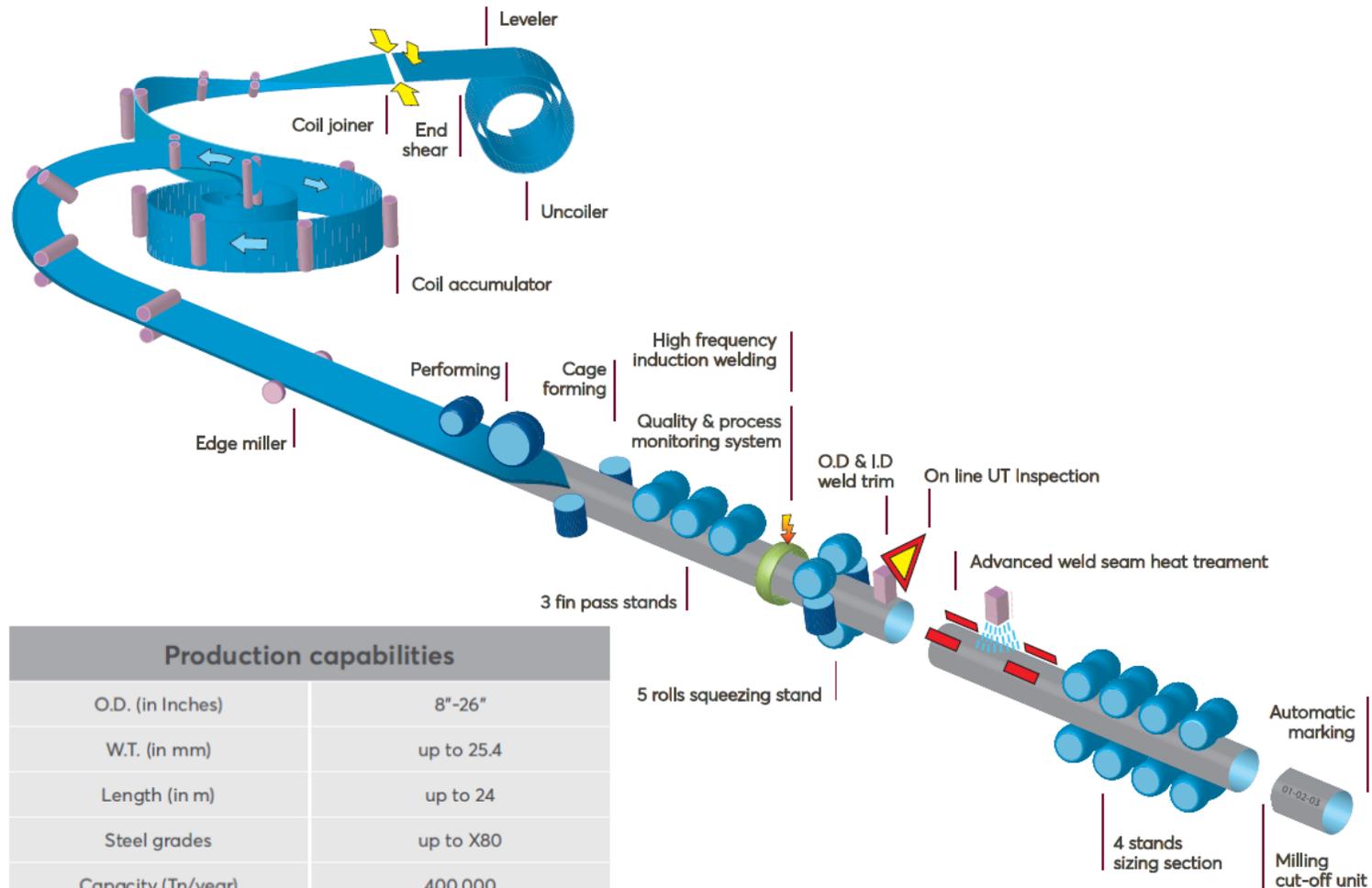
O.D. (in Inches)	16"-56"
W.T. (in mm)	up to 40
Length (in m)	up to 18.3
Steel grades	up to X100
Capacity (Tn/year)	400,000
Standards & specifications	API 5L, EN ISO 3183, DNVGL ST F101, EN 10219



- 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

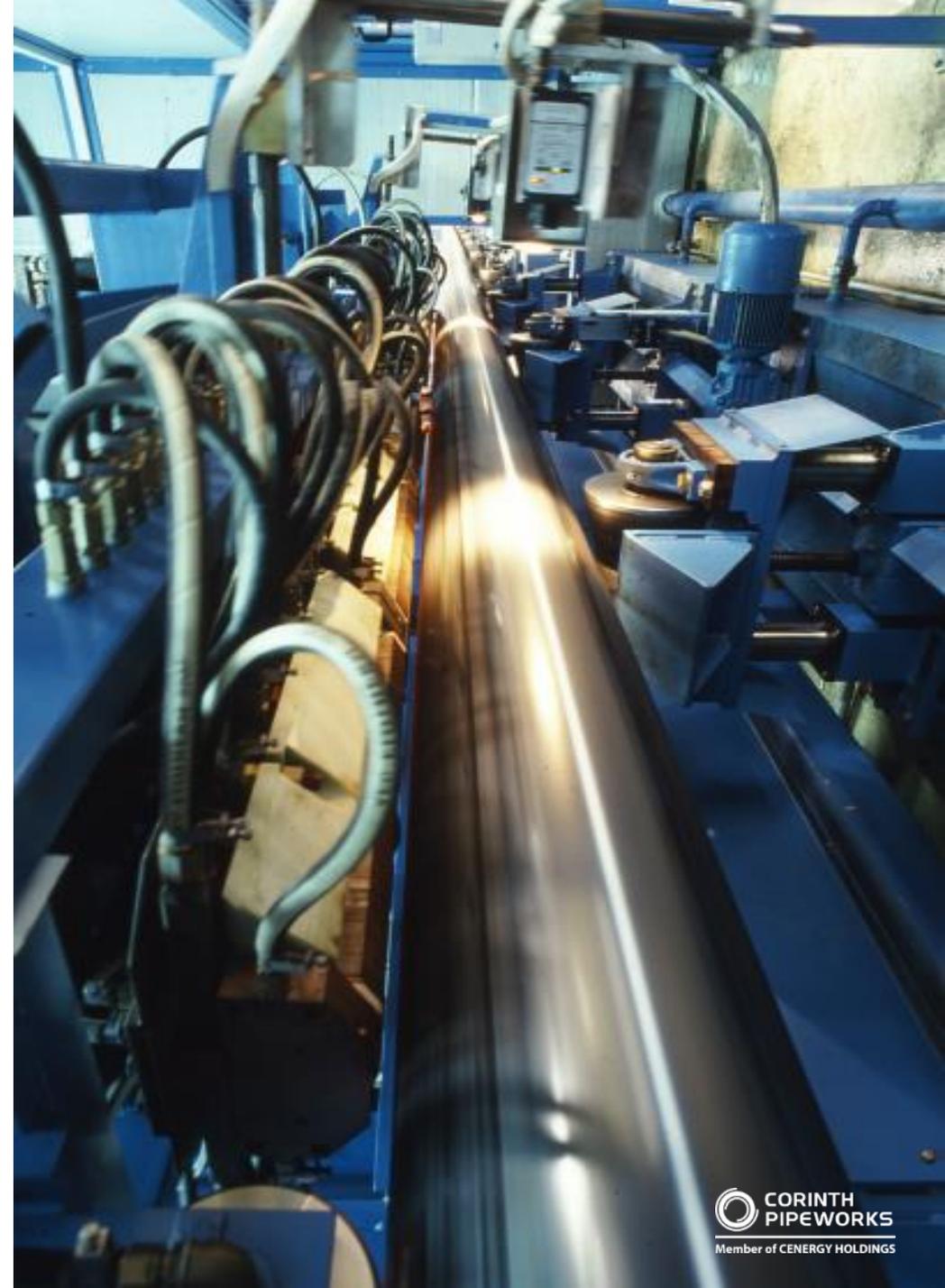
Pipe mills

ERW/HFI 26"

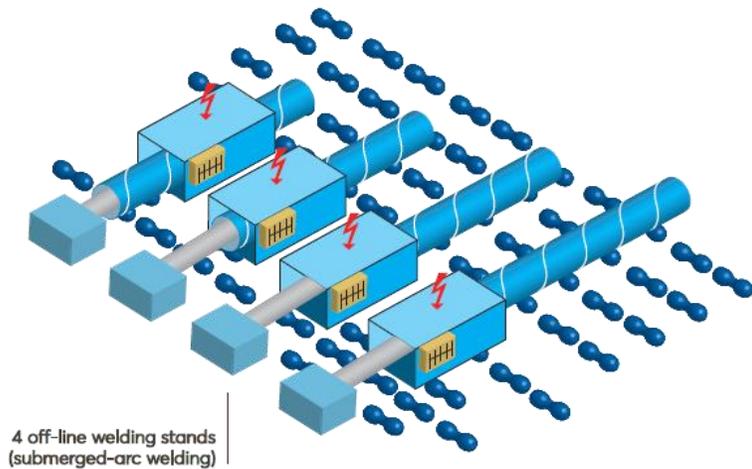
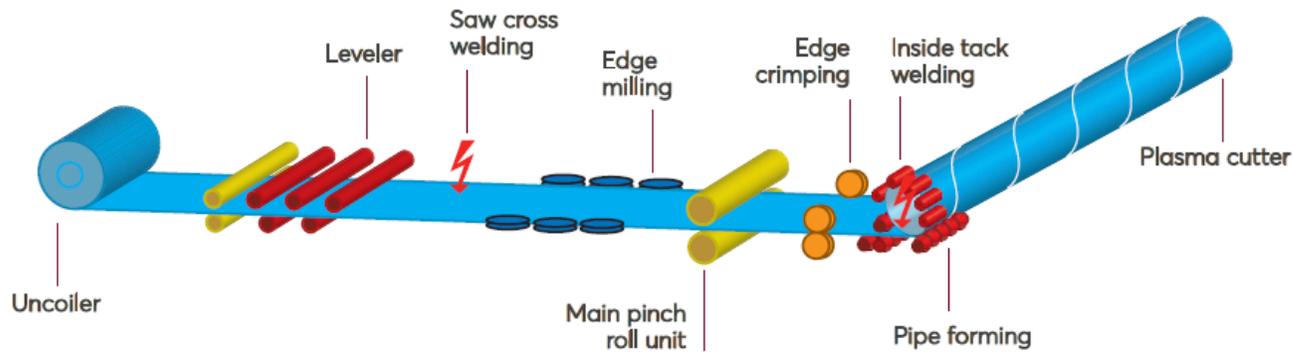


Production capabilities

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”



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



NIPPON STEEL &
SUMITOMO METAL

voestalpine



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





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