

# CRIST S.A.

Gdynia, Poland

Power of experience



# 32 YEARS of experience

At CRIST we combine the state-of-the-art technology with know-how based on our 32-years long experience.

We have been building vessels, platforms and offshore constructions, supporting our customers in achieving their business goals. We combine the latest technology with our experience to deliver tailor-made solutions.

Today CRIST is a leader amongst European shipyards and one of the major players on the market of maritime constructions, specializing in steel structures and turn-key vessels. We cooperate with customers and shipyards all over the world.

Over 400 completed projects, 1500 employees and workers, hi-tech production lines, latest technology implementation, a capacity to process over 50 thousand tons of steel a year

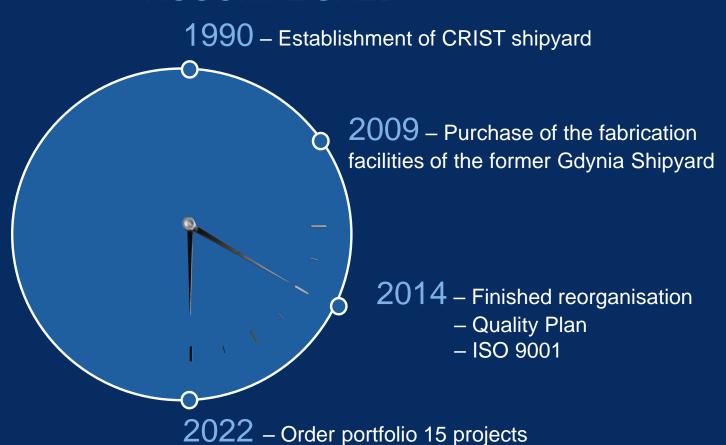
- this is CRIST.

# 32 YEARS of experience

#### Main prizes from last 5 years

Date	Prize
2021	Exporter of the Year to France competition
2020	Maritime Economy Lighthouse in the Maritime Technology Leader category
2019	Polish exporters to France
2018	"ELEKTRA" Vessel of the Year by Marine Propulsion Awards 2018
2018	Among the best Polish exporters to France
2018	"Amber Egg" for the construction of the P310 Elektra ferry
2017	Among the best Polish exporters to France
2017	"Gold Oxery" for Ireneusz Ćwirko i Krzysztof Kulczycki for consistency and determination in building their own businesses over the last 27 years

# MORE THAN 400 PROJECTS ACCOMPLISHED



## OWNERSHIP

MARS Closed-End Investment Fund 35%

Ireneusz Ćwirko, Krzysztof Kulczycki 65% Incorporated in 1990, CRIST initially started

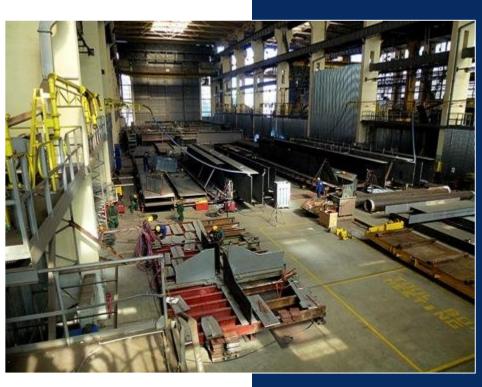
as partnership of two industry specialists: Mr. Ireneusz Ćwirko and Mr. Krzysztof Kulczycki, advanced to join stock company in 2010.

We are growing the business ever since.

MARS FIZ has been operating since the second half of 2010, authorized by the Polish Financial Supervision Authority.

Yearly turnover of CRIST S.A. is reaching more than 100 mln euro.

## **EMPLOYMENT**



management, supervision, administration and technical Staff 16%

facility workers 16%

hull department (welders, hull fitters and grinders) 41%

pipe fitting, mechanical and outfitting department 27%

The total employment can exceed 1500 employees. 2000 with local cooperation

# LOCATION



The production site of CRIST occupies over 28 ha next to the port of Gdynia. As a warm water area, with good navigation conditions and no tides, it is easily accessible from the sea. The proximity of the international Gdansk airport, the A1 highway as well as the ferry connections with Scandinavia are convenient for our customers.



# WE WORK HERE

# FACILITIES



**KONE Cranes** Lifting capacity: Each of 150 tons



**GANTRY Cranes** Lifting capacity: 1000

Span: 153 m Height: 106 m



DRY DOCK Length: 380 m Width: 70 m Depth: 8 m



## FACILITIES

- Production Capacity
- Total Gdynia Estate Area
- Sheltered Flat Sections Prefab.
- Sheltered Production Area
- Sheltered Structure Prefabrication
- Sheltered Pipe Shops Area
- Steel Structure Fabrication Sites
- Blocks Assembly Sites
- Warehouses/Offices/Buildings
- Dry Dock (SDII)
- Indoor Cranage Capacity
- Outdoor Cranage Capacity
- Dry Dock Gantry Crane
- Wharfs with Crane Coverage
- Section Painting Lines
- · Hydraulic Presses for Steel
- Motorized Transporter Platform
- Technological Transport Trailers
- Forklifts
- Floating Pontoons

4'000 tonnes / month

285'812 m<sup>2</sup>

5'660 m<sup>2</sup>

36'460 m<sup>2</sup>

26'653 m<sup>2</sup>

6'490 m<sup>2</sup>

3'880 m<sup>2</sup>

40'750 m<sup>2</sup>

80'903 m<sup>2</sup>

381m x 71m (27 318 m<sup>2</sup>)

from 3 up to 120 tonnes

4 KONE Cranes @ 150 tonnes each

1'000 tonnes / span:153 m

297 m in total

2 lines each; 12m x 35m x 7m

3 PCs. (from 450T to 1000T)

up to 320 tonnes

8 PCs

up to 18 tonnes

up to 3'500 tonnes

# OUR PRODUCTION PROFILE Offshore structures









- Heavy Lift Jack-Up Vessels and wind turbines installation Barges
- Offshore Construction Vessels (OCV)
- Platform Supply Vessels (PSV)
  Anchor Handling Tug Supply Vessels (AHTS)
- Construction sub-see
- Foundations for wind turbines

#### Vessels

- Fishing vessels
- Tugs
- Ferries
- Container vessels
- Research vessels

#### Hydrotechnical structures

- Gates
- Pontoons
- Caissons
- Transformer platforms

## JACK-UP BARGE B 392 "THOR"



#### MAIN DIMENSIONS:

Length — 70.00 m Width — 40.00 m Height — 6.00 m

#### LEG DATA:

Length — 82.00 m Diameter — 3.70 m Spudcans Ø — 8.50 m

#### **OPERATIONAL CONDITIONS:**

Draft (without spudcans) — 3.50 m
Draft (with spudcans) — 7.40 m
Operating depth — 50.00 m
Payload — 3.300 t
Deck load — 15.00 t/m²
Hoisting capacity — 10.000 t
Hoisting speed — 1.20 m/min
2 Moon Pools — Ø; 0.90 m

#### **CRANAGE:**

Heavy lift crane Liebherr BOS 14000 Crane capacity — 450 t/15.00 m

#### **MOORING WINCHES:**

4 single winches pull 30.00 t/each

#### **POWER SUPPLY:**

Diesel, electric Total output — 5.010 kW Emergency — 700 kW

#### **ACCOMMODATION:**

48 persons

### HLJV - NB 142 "INNOVATION"



#### MAIN DIMENSIONS:

Length hull (overall) — 147.50 m Breadth hull — 42.00 m Depth hull — 11.00 m

#### **OPERATIONAL CONDITIONS:**

Water depth for jacking — 50.00 m
- Up to 65 m (with leg extension)
Significant wave height for jacking and DP - Up to 2.00 m
Wind Speed for crane operation — 18 m/s
DP2 according to GL Class

#### **JACKING SYSTEM:**

Number of Legs — 4
Leg cross section — Lattice leg
Jacking system — Rack and pinion
Jacking speed — Up to 1 m/min
Jacking capacity — 30.000 ton

#### **HELIDECK:**

D = 20.88 m, suitable for Sikorsky S92

#### THRUSTER AND PROPULSION:

4 x 3500 kW aft azimuth thr. 3 x 2800 kW bow tunnel thr. Vessel speed Up to 12 knots

#### **POWER GENERATION:**

M. Gensets 6 x 4500 kW + 1 x 1620 kW

#### **CRANE:**

Crane Lifting Capacity SWL 1500 t @ 31.5 m

#### **ACCOMMODATION:**

100 persons

### HMV-NB 130 "VIDAR"



#### MAIN DIMENSIONS:

Length — 140.40 m Width — 41.00 m Height — 9.50 m

#### LEGS AND SPUD CANS:

Length — 90.00 m Diameter — 4.80 m Spudcan area — 125.00 m<sup>2</sup>

#### **OPERATIONAL CONDITIONS:**

Draught — 6.30 m Operating depth — up to 50.00 m Load capacity — up to 6.500 t 2 Monn pools — Ø 0.8 m

#### **JACKING SYSTEM:**

Lifting capacity — 24.500 t Lifting speed — up to 0.83 m/min

#### MAIN CRANE:

Offshore crane Liebherr CAL 45000 1200 Litronic Capacity — 1.200 t/27.50 m

#### POWER AND PROPULSION:

Total power — 24.000 kW diesel-electric Emergency generator — 781 kW Transit speed — 10.2 knots

#### **ACCOMMODATION:**

90 persons

### HEAVY LIFT JACK-UP BARGE NB 105

"ZOURITE"

for construction of offshore viaduct at the island Reunion



#### MAIN DIMENSIONS:

Length — 106,5 m

Width — 49 m

Design draft — 5,95 m

Maximum air draft (legs up) — 51,65 m

Maximum payload — 4730 t

Assumed deadweight for design draft — 5550 t

4 main engines (diesel electric)

Combined mass of the hull — about 5000 tons.

#### **OPERATIONAL CONDITIONS and CRANAGE:**

4 propellers

Winch with automatic winch with automatic tension, winch DP1

Two gantry cranes (total lifting capacity 5000 tons)

#### **JACKING SYSTEM:**

8 x RCP Continuous Jacking System:

Capacity operational — 1850 T

Capacity preload — 2850 T

Speed — 30 mtr/hr

Length — 55.00 mtr

Spud pipe diameter — Ø 3.00 mtr

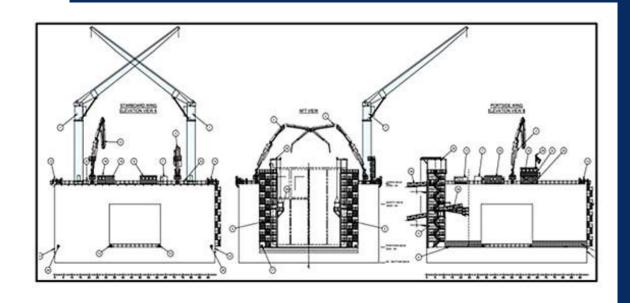








## FLOATING DOCK B 56



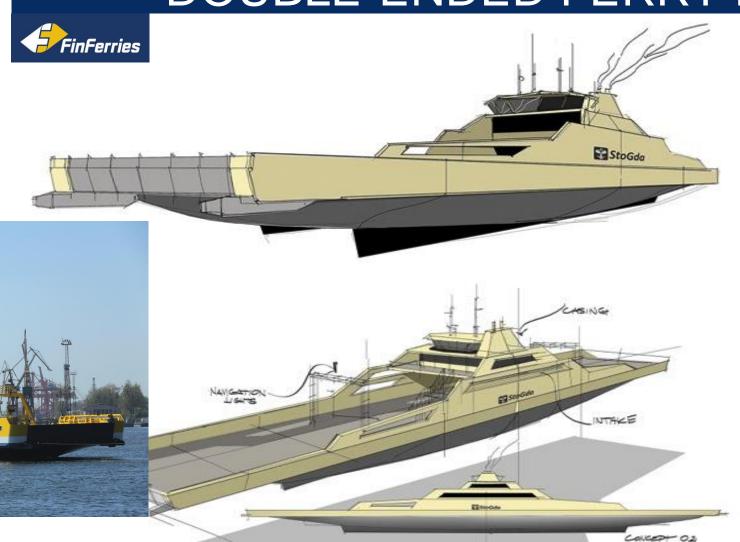
MAIN DIMENSIONS: Length — 58.40 m Breadth moulded— 49.28 m Depth at upper deck — 25.50 m Maximum draught — 23.00 m Working area — 56.40 m x 34.72 m



The Floating Dock is specially designed for the construction of concrete caissons and is designated to build a new shore lane in Monaco.



### **DOUBLE-ENDED FERRY P 310**



MAIN DIMENSIONS:

Length overall — 97,92 m

Length of car deck — 93,30 m

Breadth moulded — 15,20 m

Draught design — 3,500 m

Draught scantling — 3,550 m

Depth (up to m. deck) — 5,000 m

Lane meters — 450 m

Persons on board — 375

Speed — 11 kn

#### **CLASS NOTATION:**

+ 1A1 Car ferry B Battery (Power) E0 Ice (1B) PET R3

#### PROPULSION:

Two 360o, contra rotating pitch (CRP) azimuth thrusters, Rolls Royce, 900 kW each, 1200 rpm

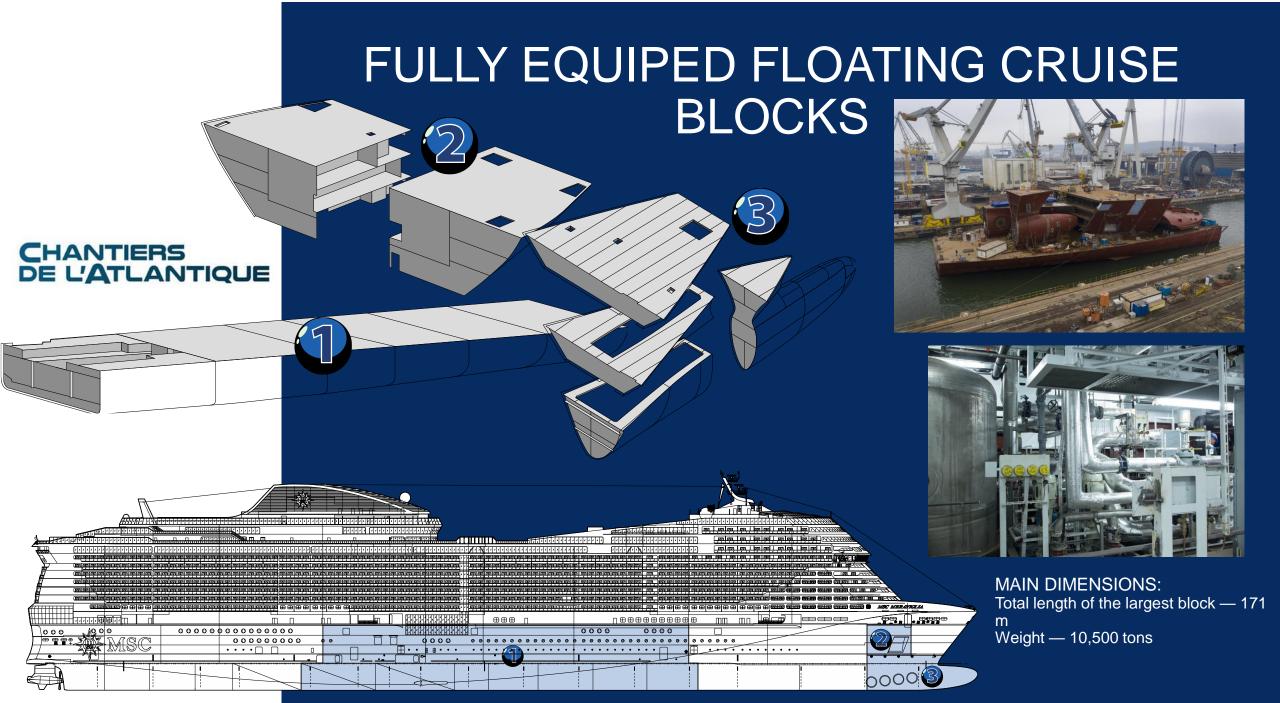
#### **HYBRID ENERGY SYSTEM:**

Ferry is provided with battery banks of 1040 kWh capacity to solely operate the vessel year-around. The battery banks will be charged from ar external (land based) power source at every shore ramp visit (estimate about 5-6 minutes; 80% at the 7 minute shore time) and for longer times two times a day (one hour lunch break and a longer period during night time).

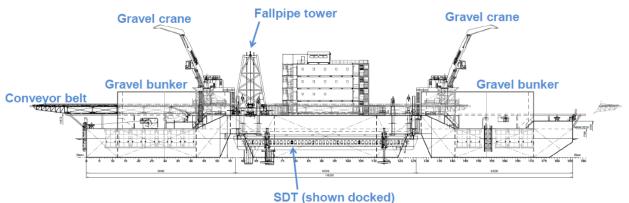
#### SHIP OF THE YEAR AWARD

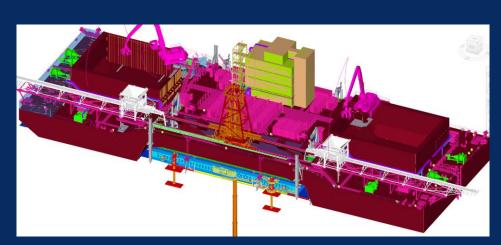
marine

Marine Propulsion Awards 2018 organized by the "Marine Propulsion & Auxiliary Machinery" magazine



### FEHMARNBELT FIXED LINK FLC





Under construction – to be delivered in 2023

Length over all (with conveyor belt) : abt. 139.00 meters
Length over all (hull) : abt. 130.20 meters
Breadth with fender & spud : abt. 48.24 meters
Depth, moulded : abt. 7.70 meters



Figure 1 - Project location (source: Femern A/S)

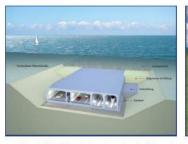


Figure 2- Provisional view of one standard element (source: Femern A/S)



Figure 3 - Provisional view of one portal (source: Femern A/S)

### HYDROTECHNICAL CONSTRUCTIONS





CONVERSION OF 4. PONTOONS 1000 tons each

## FORTH CROSSING BRIDGE CONSTRUCTORS

Construction and delivery of Bridge Caissons ordered by:

"Forth Crossing Bridge Constructors" (FCBC), Scotland.

Tonnage approximately: 4.200 T

Construction period: November 2011 – June 2012

Final customer: Scottish

Government



THREE GATES FOR LOCK IN BREMERHAVEN

MAIN DIMENSIONS: Length OA — 57,00 m m Breadth — 11,78 m Height — 21,00 m



PONTOON "KURT" – P 493

MAIN DIMENSIONS:

Loa- 49,8 m

Boa— 3,25 m

H — 21,00 m

T max — 2,45 m



## CRIST OFFSHORE PROJECTS



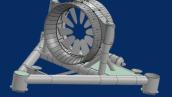
EDVARD GRIEG Total steel construction weight: above 3.000 ton

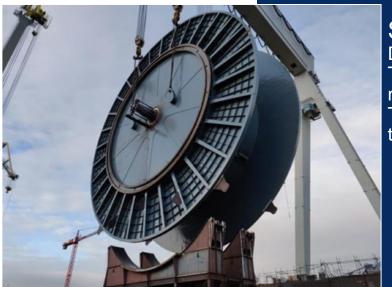


TIDIAL TURBINE
End-caps – Outer Endcaps
each 55 ton

Center End-caps – 80 ton

Subsea base – 260 ton





SS7 -R
Diameter – 32 m,
Total Width – 15
m,
Total mass – 820
ton



## PROPYLENE TANKS

5 large tanks for the storage of propylene

Length overall – 72,13 m Diameter – 8 m Capacity – 3485 m3 Gross weight – 613 980 kg

# RESEARCH AND DESIGN





CRIST S.A. is cooperating with leding design offices in ship design and engineering; whose area of activity includes: shipbuilding, offshore vessels, technical vessels, harbor constructions, research and development.











POLSKIE CENTRUM AKREDYTACJI  $\Diamond\Box$ CERTYFIKACJA SYSTEMÓW ZARZĄDZANIA

ISO 14001 AC 014 **EMS** 



#### CERTIFICATE

#### CRIST S.A.

ul. Czechosłowacka 2 81-336 Gdynia

#### ISO 14001:2015

Scope of certification:

CONSTRUCTION OF VESSELS AND MANAGEMENT OF PROJECTS IN CONSTRUCTION OF STEEL AND ALUMINIUM STRUCTURES FOR MARINE AND OFFSHORE SECTORS







MANAGEMENT SYSTEM CERTIFICATE This is to certify that the management system of CRIST S.A ul. Czechosłowacka 3, 81-336 Gdynia, Poland has been found to conform to the Quality Management System standard: ISO 9001:2015 This certificate is valid for the following scope:





Look of fulfilment of conditions as set out in the Cortification Agreement may render this Cortificate involve.



**CERTYFIKAT Nr** 

CERTIFICATE No.

CRIST S.A.

ISO 45001:2018

tata Ważności Data rewizji cypry Date 04.10.2023 Revision date





#### **CERTIFICATE**

#### CRIST S.A.

ul. Czechosłowacka 3, 81-969 Gdynia

has implemented and continuously improve quality management system that meets the

#### AQAP 2110:2016

and has ability to ensure quality using AOAP 2070, in the following operating processe

Project management of construction of steel and aluminum structures for maritime





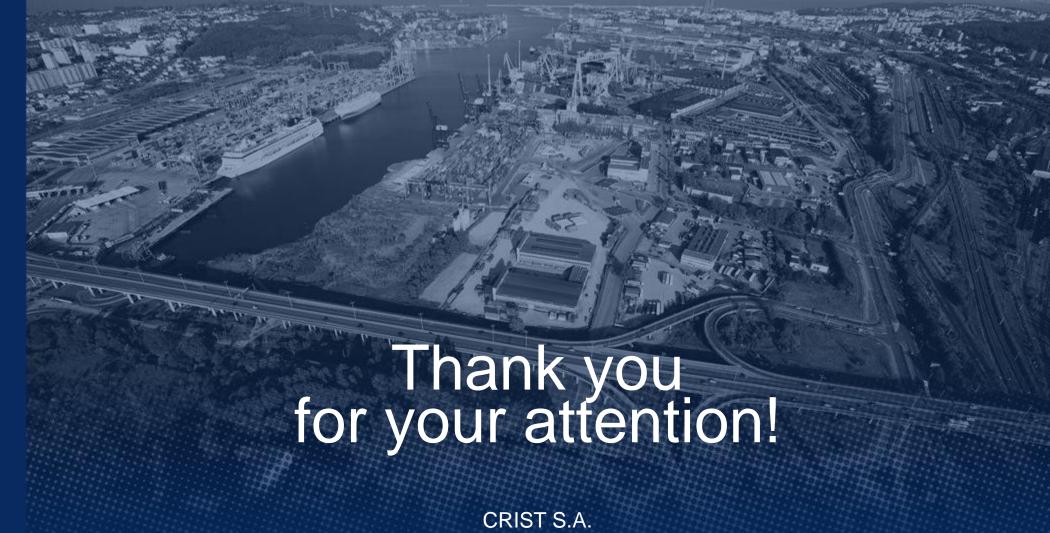




# CRIST S.A.

is a reliable and cooperative partner, who offers:

- Proper understanding of customer needs
- → High quality
- → Experience Staff
- → On time deliveries
- → Ability of solving technical tasks



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