



## SHIP REPAIR SERVICES AND CONVERSIONS

**FINCANTIERI**

# FINCANTIERI

ONE SINGLE SYSTEM WORLDWIDE

Fincantieri is the largest and most diversified European shipbuilding group, world leader in the construction of cruise ships and cruise-ferries. The company's key distinctive feature is its ability to create an integrated system to design and build cruise ships, ferries, merchant ships, naval vessels and mega-yachts drawing on its wealth of experience which is unique in the world given its wide range of vessel types: a tradition dating back over 200 years with 7,000 vessels built.

Providing a wide-ranging response, Fincantieri brings the most demanding shipowner its incomparable know-how in the field of ship repairs and conversions, knowledge which is enriched by cross fertilization from carrying out work in a wide range of different ship types.



## ■ HEAD OFFICE

TRIESTE

## ■ BUSINESS UNIT

TRIESTE - Merchant ships

GENOVA - Naval vessels

MUGGIANO - Mega yachts

GENOVA - Marine systems

TRIESTE - Ship repairs and conversions

## ■ SHIPYARDS

ANCONA

TRIESTE ATSM

CASTELLAMMARE DI STABIA

MARGHERA

MONFALCONE

MUGGIANO (La Spezia)

PALERMO

RIVA TRIGOSO

SESTRI Ponente

## ■ SUBSIDIARIES

ISOTTA FRASCHINI MOTORI

CETENA

ORIZZONTE SISTEMI NAVALI

FINCANTIERI MARINE SYSTEMS NORTH AMERICA

FINCANTIERI MARINE GROUP

## SHIP REPAIRS AND CONVERSIONS BUSINESS UNIT

■ TRIESTE

### FACILITIES

- PALERMO
- TRIESTE ATSM
- MUGGIANO (La Spezia)

# SHIP REPAIRS AND CONVERSIONS

FINCANTIERI INCREASES YOUR PROFITABILITY BY IMPROVING THE QUALITY OF YOUR FLEET

## ORGANIZATION

Dedicated Business Unit with its own commercial and project management structure and with its engineering and purchasing offices integrated with the New Building departments. 3 facilities dedicated to these activities

## HALLMARKS OF OUR HIGH QUALITY SERVICES

### Design Capacity,

during the last 20 years Fincantieri has designed/performed over 150 conversions

### Project Management,

enables us to combine flexibility with effectiveness in lead time

### Supplier Network,

the best interior outfitters in the world are cooperating with us since the very beginning

### Cross Fertilization,

dual technologies from experience building both cruise ships and naval vessels

### Locations,

covering the Mediterranean with connection to north Europe and Caribbean seas

## MAIN FEATURES

### Maintenance;

plan ordinary, extraordinary and pre-maintenance activities

### Safety:

keep your fleet updated to the latest regulatory requirements

### Technical targets:

upgrade size, speed, consumption, manoeuvrability

### Environmental Safeguarding:

reduce gas emissions, liquid waste over board, waste parameter levels, noise emission

### Entertainment / Comfort:

improve comfort with new refitted sun decks, wellness/Spa areas, cabins with balconies, winter beaches, exotic gardens



# PALERMO

## ship repairs and conversions

**The main feature of Palermo shipyard is the flexibility of a Repair Yard in addition to the construction capacity typical of a Building Yard.**

The Yard is equipped with all the facilities necessary for the construction of vessels and offshore units, it can also be utilized for the prefabrication of large steel structures.

The two graving docks and the two floating docks enable the yard to carry out a full range of ship repairs and conversions on any type of vessel. Vessels with inert gas can also be accommodated. Drafts at berths allow the wet docking of large offshore units.

There is a machine shop for general repairs on diesel engines, and auxiliary machinery, for reconditioning diesel engine piston crowns, propeller repairs, the replacement of liners, etc., as well as a lathe for large diameter crankshafts and shrink-fitting equipment.



## FACILITIES

### GRAVING DOCK 1

DOCKING CAPACITY	20,000 DWT
LENGTH	163.35 M
WIDTH AT ENTRANCE	22.80 M
ONE CRANE	30 TON

### FLOATING DOCK 2

DOCKING CAPACITY	30,000 DWT
LIFTING CAPACITY	19,000 TON
LENGTH	193.00 M
WIDTH AT ENTRANCE	30.18 M
TWO CRANES, EACH	8 TON

### FLOATING DOCK 3

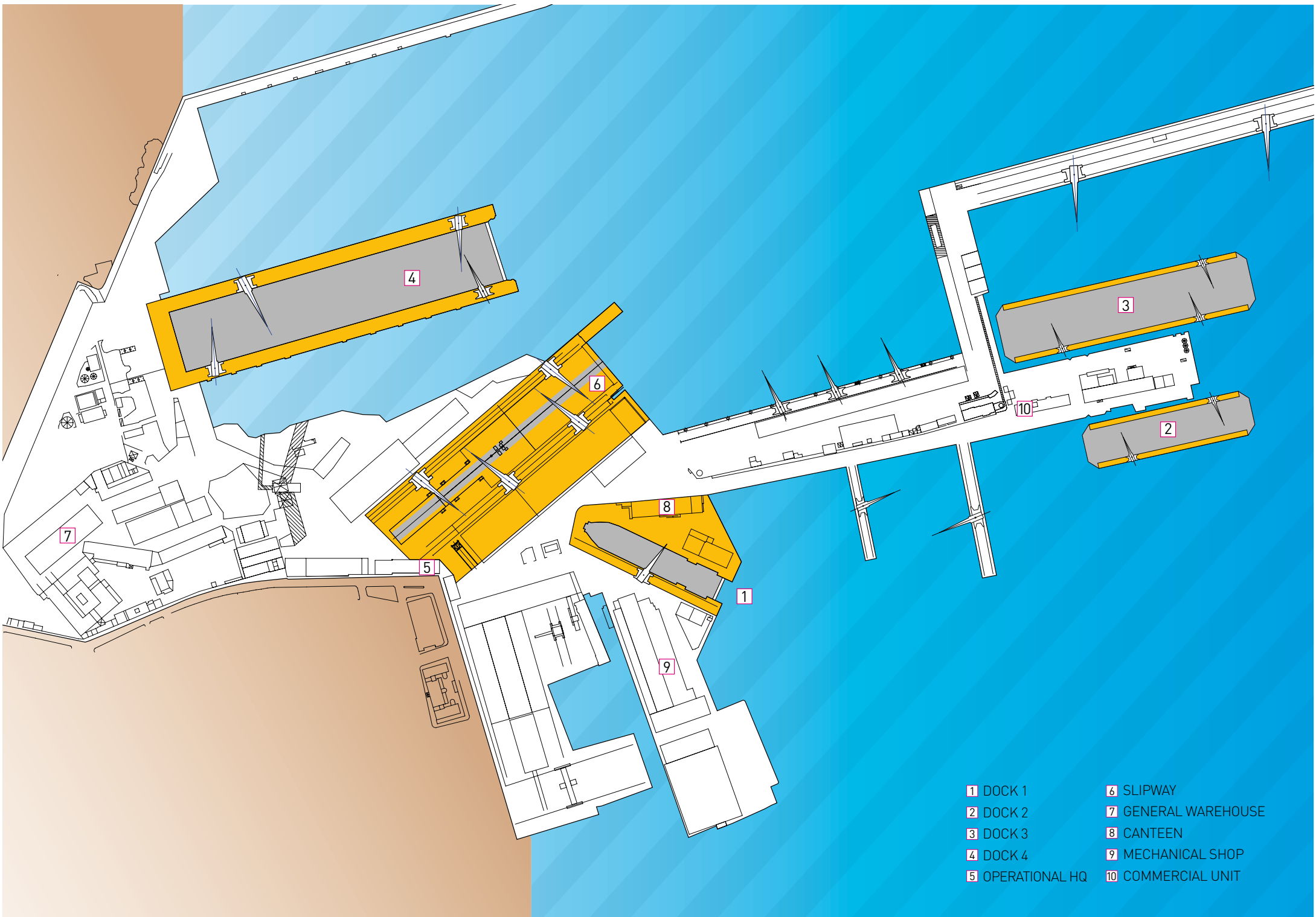
DOCKING CAPACITY	150,000 DWT
LIFTING CAPACITY	52,000 TON
LENGTH	286.00 M
WIDTH AT ENTRANCE	46.20 M
THREE CRANES, EACH	15 TON

### GRAVING DOCK 4

DOCKING CAPACITY	400,000 DWT
LENGTH	370.00 M
WIDTH AT ENTRANCE	68.00 M
DEPTH OVER KEEL BLOCKS	10.45-11.35 M
TWO CRANES, EACH	120 TON
TWO CRANES, EACH	20 TON

### SLIPWAY PIER 5

ONE NEW BUILDING SLIPWAY	SIZE 200.00x50.00 M
PIER No. 1	LENGTH 100.00 M · 30 TON CRANE
PIER No. 2	LENGTH 150.00 M · 30 TON CRANE
"MOLO NORD" QUAY	LENGTH 350.00 M
"DIGA FORANEA" QUAY	LENGTH 400.00 M · 1x40 TON CRANE 1x30 TON CRANE
"MOLO LEVANTE" QUAY	LENGTH 350 M · 2x60 TON CRANE 1x30 TON CRANE



- |                  |                     |
|------------------|---------------------|
| 1 DOCK 1         | 6 SLIPWAY           |
| 2 DOCK 2         | 7 GENERAL WAREHOUSE |
| 3 DOCK 3         | 8 CANTEEN           |
| 4 DOCK 4         | 9 MECHANICAL SHOP   |
| 5 OPERATIONAL HQ | 10 COMMERCIAL UNIT  |

# TRIESTE ATSM

## ship repairs and conversions

Trieste ATSM is a historic shipyard of the north Adriatic sea, which in the past built many ships famous in the history of the Italian Navy.

The site is located in the North Adriatic Sea and consists of two graving docks, one for large vessels and one for medium-sized vessels.

The docks are equipped with a full range of facilities such as drinking water, technical services, refrigeration, fire water, cranes, storage spaces, workshops necessary for dry-dock and refitting operations. In addition, dock n° 4 is equipped with a self-guiding winch system which enables vessels to approach the dock even in the presence of strong winds. The drydock floor is accessible by trucks.

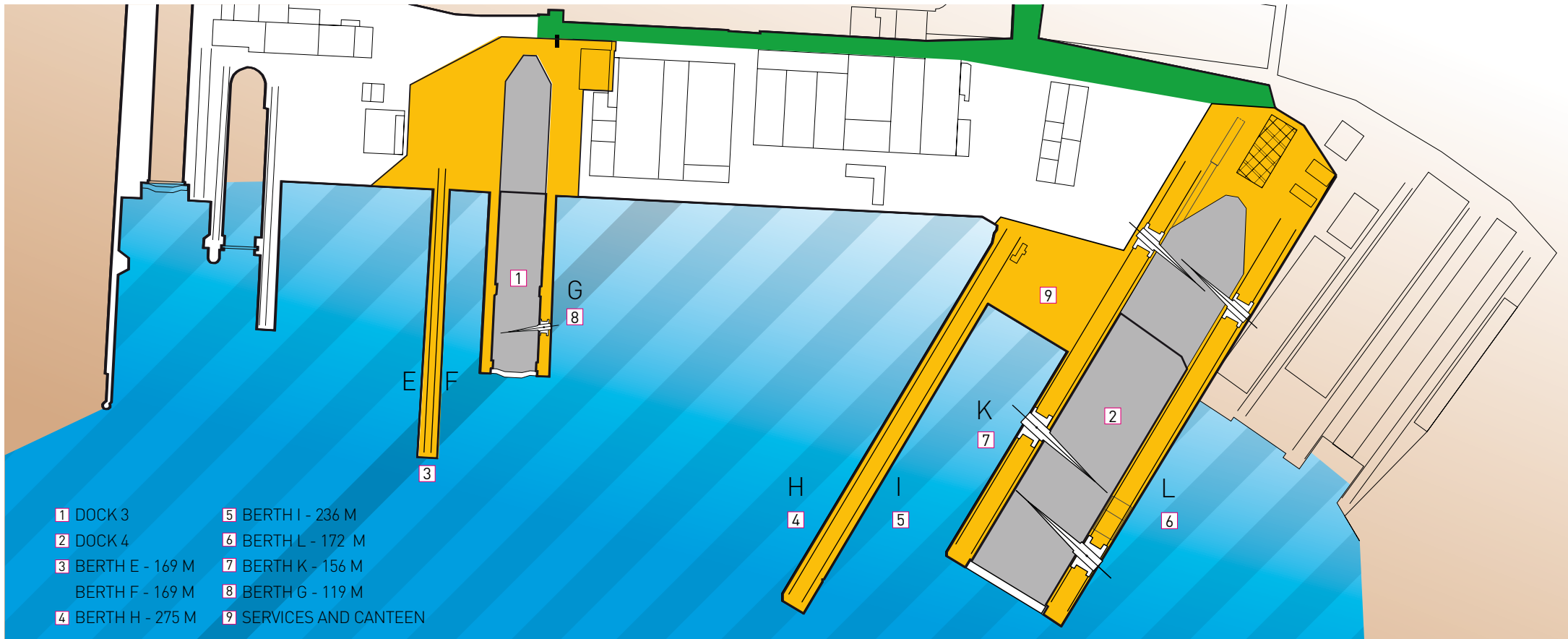
## FACILITIES

### GRAVING DOCK 3

DOCKING CAPACITY	30,000 DWT
LENGTH	206.00 M
WIDTH AT ENTRANCE	28.60 M
DEPTH OVER KEEL BLOCKS	8.00 M
ONE CRANE	19 TON

### GRAVING DOCK 4

DOCKING CAPACITY	250,000 DWT
LENGTH	295.00 M
WIDTH AT ENTRANCE	56.00 M
DEPTH OVER KEEL BLOCKS	11.00 M
TWO CRANES, EACH	10 TON
TWO CRANES, EACH	60 TON



# MUGGIANO (La Spezia)

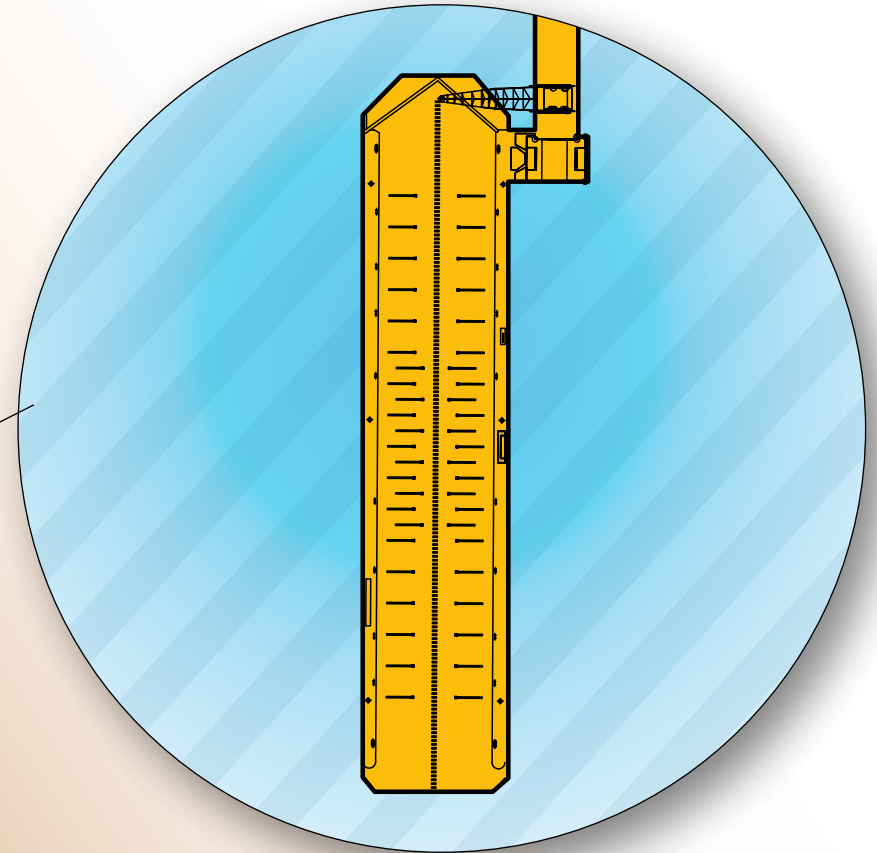
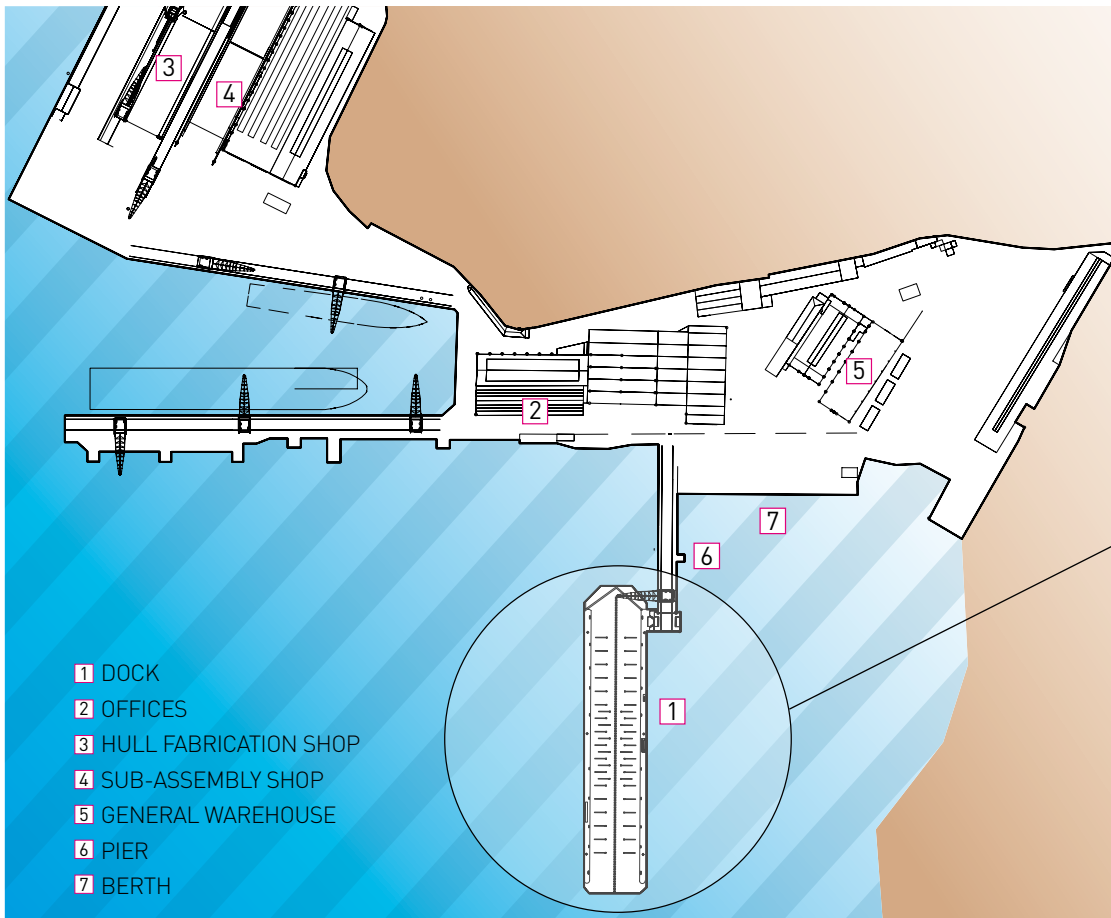
## ship repairs and conversions

Muggiano shipyard is located in the North Tyrrhenian Sea, and is provided with one dock. The dock is 246.4 metres long and 38 metres wide. The depth of the water surrounding the dock is approximately 10 metres. The dock is equipped with 2 x 12 ton cranes.

## FACILITIES

DOCK 1

<b>FLOATING DOCK</b>	
LIFTING CAPACITY	40,000 TON
LENGTH	246.4 M
WIDTH AT ENTRANCE	38.00 M
DEPTH OVER KEEL BLOCKS	9.50 M
TWO CRANES, EACH	12 TON
<b>PIER</b>	
LENGTH	115.00 M
CRANE	15 TON
DEPTH	9.00 M
<b>BERTH</b>	
LENGTH	150.00 M
DEPTH	8.00 M





PALERMO



TRIESTE ATSM



MUGGIANO

## FINCANTIERI

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### PALERMO (shipyard and docks)

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### TRIESTE (docks)

Via Von Bruck, 32  
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### MUGGIANO - LA SPEZIA (docks)

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