Engineering – New building

Star Wars - Main Theme

The Virtua Philharmonic Orchestra

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Shipyards Galati - Romania

New Buildings

SMIT International ROTTERDAM

Damen Galati Shipyard – Romania

Enjoy the Presentation

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10 - Tugs ASD 2810 Design

1. Smit Grenada
2. Smit Trinidad
3. Smit Hudson
4. Smit Schelde
5. Smit Martinique
6. Smit Dominica
7. Smit Saba
8. Smit Guadeloupe
9. Smit Seine
10. Smit Ebro

Specifications

- Length o.a. :28.67 meters
- Beam o.a :10.43 meters
- Depth at sides :4.60 meters
- Draught aft (approx):4.80 meters
- Total tank capacity :166.6 cub.m
- Power : 3.678 bkW
- Power : 4.930 bhp
- Speed : 13.5 knots
- Bollard Pull : 60 tons

First steps in preperations

- Supply steel plates
- Blasting and painting with primer
- Cutting plates
- Welding sections

Steel plate supply by train

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Plate's picking up by electric activated magnets

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Plates on conveyor belt before blasting
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Plates blasted and painted
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Plates ready for cutting
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Plates cut in pieces
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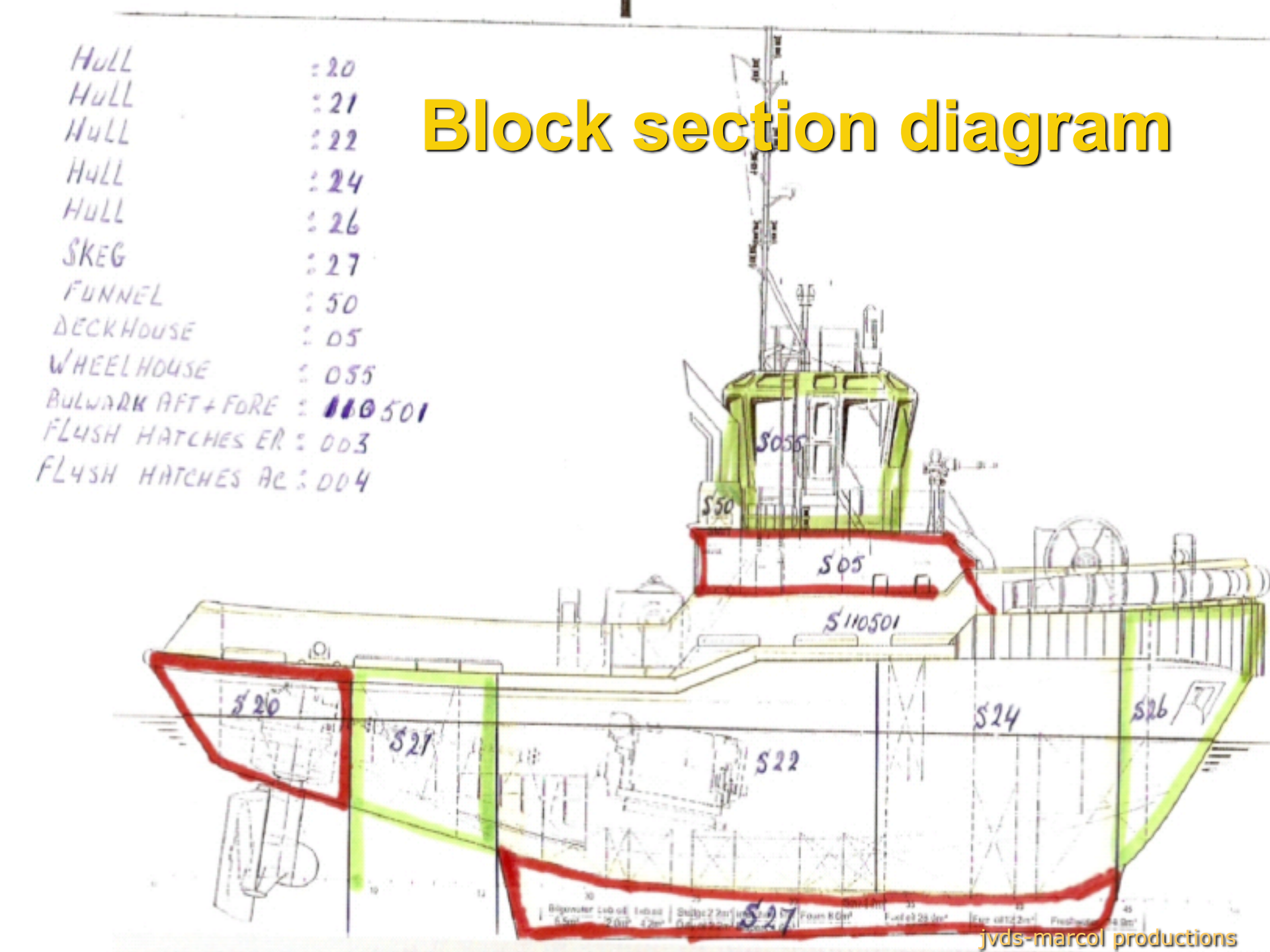
Welding Sections

- Section 20-21 Stern section
- Section 22 Mid section
- Section 24-26 Bow section
- Section 27 Keel
- Section 50 Funnels
- Section 05 Superstructure
- Section 55 Wheelhouse
- Section 110501 Bulwark

Block section diagram



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Stern section under construction

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Finalize stern section before
blasting and painting
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Stern Sectie 20-21 ready for blasting
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Mid deck section under construction

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Mid bottom section under construction

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Mid deck and bottom sections fitted
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Mid section ready for blasting and painting

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Bow section under construction

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Bow section finalize for blasting and painting

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Superstructure – Wheelhouse section under construction

Superstructure – Wheelhouse section ready for blasting and painting

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Bulwark and fender construction

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Sections Painted by Subcontractor International Paint

Stern section painted

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Mid section painted
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Superstructure – Wheelhouse painted

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Skeg/Keel painted and lay down
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Assembling all sections into

Mid section in the assembling hall

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Stern section connected to the mid section

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Stern and mid section connected

Keel/skeg connected to the bottom hull

Mid and bow section connecting to each other

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Bow section connected to mid section

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Superstructure - Wheelhouse section lowered in position

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A very precise job
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Outfitting before launching

- Fitting engine foundations
- Fitting box coolers
- Fitting Aquamasters
- Fitting systems
- Fitting HVAC systems
- Fitting sanitary systems
- Applying insulations
- Applying cement floors
- Hydraulic systems

Main engine foundation

Main shaft lining foundation

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Box cooler arrangement

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Box cooler fitted before launching

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Box coolers fitted

Aquamaster fitted

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Transported into the vessels stern

Almost into position

Aquamaster in position

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View into the propeller room after fitting the Aquamaster unit

Fuel, ballast, fire fightning and bilge systems fitted. Pipe arrangement to be installed
3 5 2008
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Messroom started with HVAC system

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HVAC System fitted

HVAC system with insulations

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Sanitary piping systems fitted
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Sanitary pipes with insulations

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Complete Insulated Accommodation
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Insulations covered with heat protection sheets
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Engine room ventilation inlet ducts

Cement floor with tiles
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Hydraulic pipes fitted
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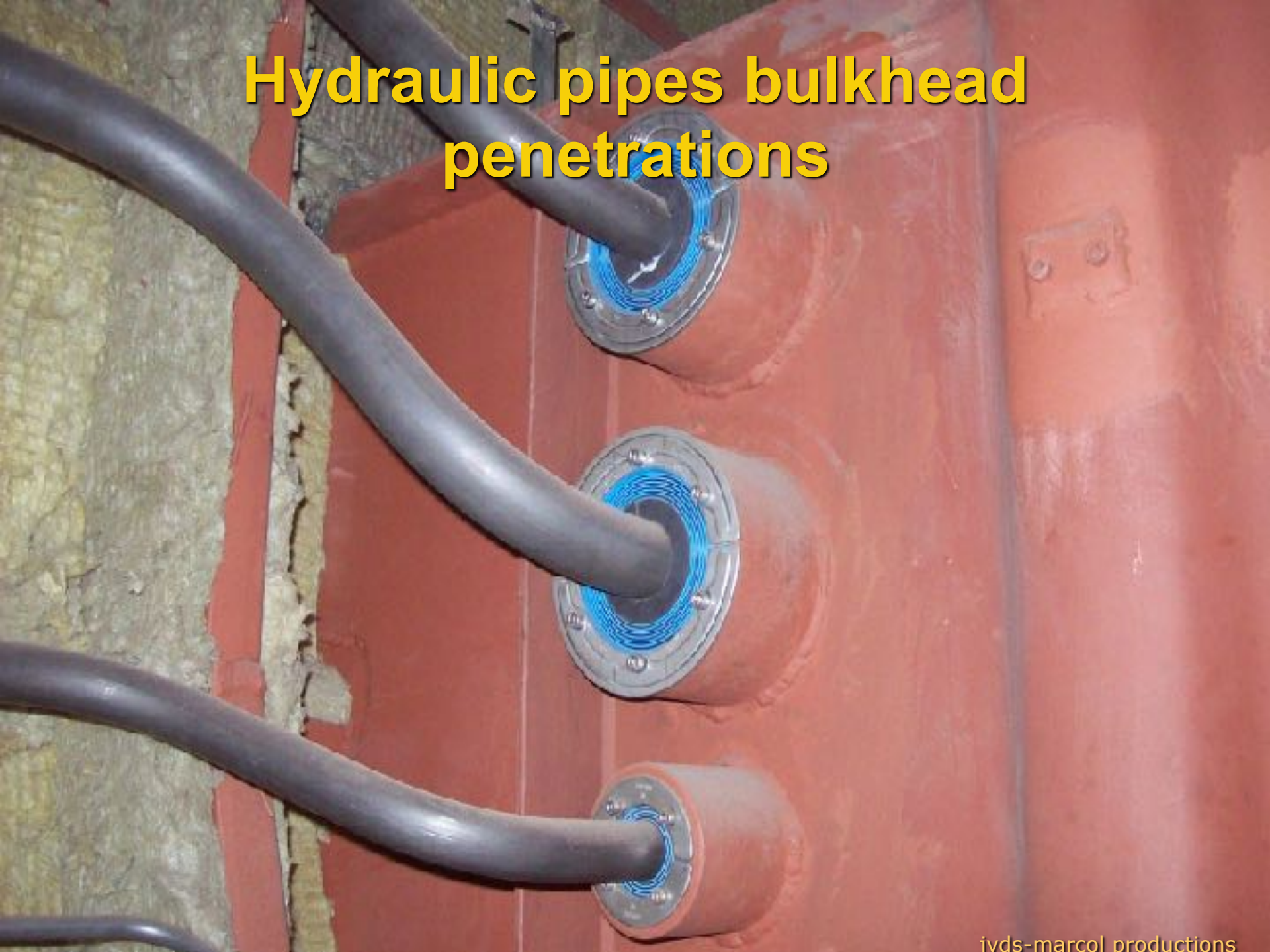
Hydraulic pipes bulkhead penetrations



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Outside Preparations before launching

- Underwater ship protection
- Superstructure protections

Yoda's Theme

The Virtua Philharmonic Orchestra

Dock block with carton protection

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Box cooler side grating

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Bottom gratings box coolers

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Anode fitted

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Azimuth propeller with anodes

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Propeller shaft protection cover with anodes inside

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Outside hull's waterline
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Smooth paper grinding

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Superstructure
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Bulwark smoothly grinded and painted
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Superstructure smoothly grinded
and painted
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Superstructure side-aft

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Aft bulwark before final coatings

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Painting the SMIT's house colours

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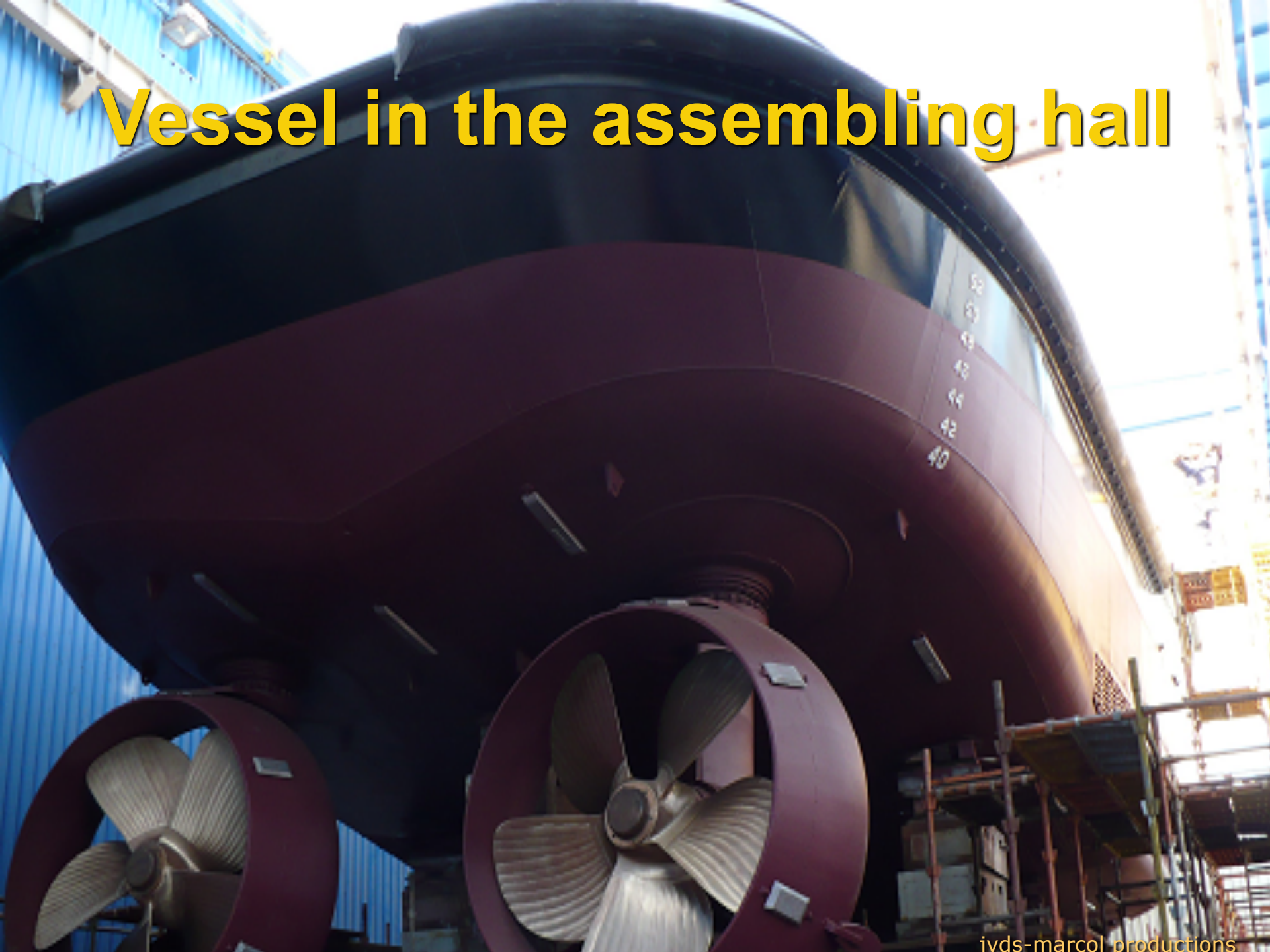
Launching

- Lifting out the assembling hall
- Christening by the Godmother
- In the water of the Danube River

Axel F. – Faltermeyer

The Gino Marinello Orchestra

Vessel in the assembling hall



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Flying high

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Lowering for Christening

Azimuth thrusters

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Hanging in the Gantry cranes cables
SMIT DOMINICA
IMO 9402457
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Bottle champagne ready
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Instruction to Godmother

Ready

Lekko
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Splash
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Kisses from the ship coordinator

Flowers and the axe

First dancing steps in the Danube River
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Is she not beautiful and ready for further outfitting
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Outfitting

- Engineroom
- Outside
- Accommodation inside

Engine Room

Ballast, bilge internal fire fighting sets

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Air bottles

Hydraulic power unit
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Fifi diesel engine standard class

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Fuel oil Seperator

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Bilgewater seperator 15 ppm

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Sewage Plant
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Fuel bunker manifold

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Diesel generator (protected)

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Air compressors

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Box coolers

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Top view on box coolers

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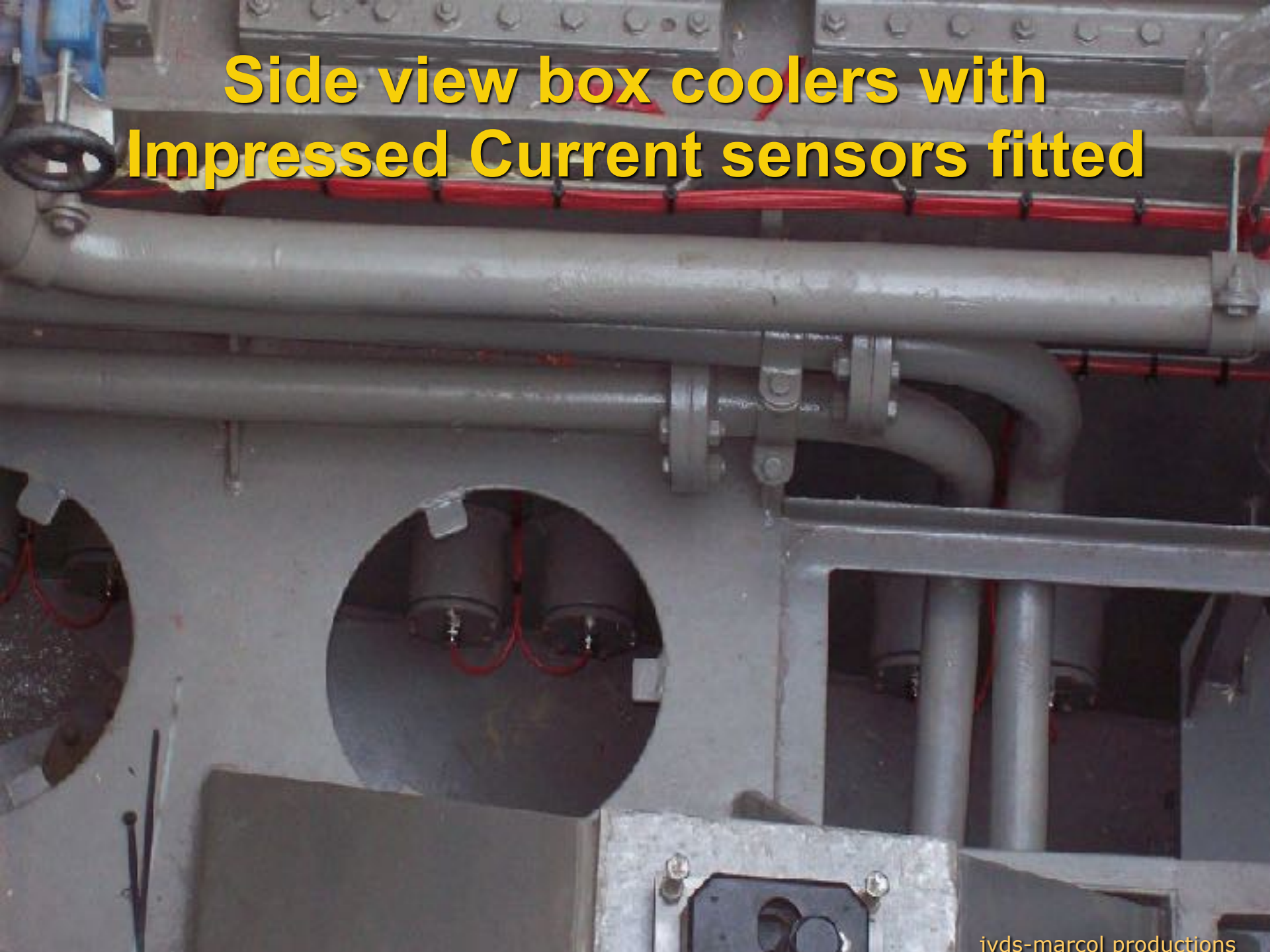
Side view box coolers with
Impressed Current sensors fitted
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Main Engine Lowering

Main engine

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Main engine lifted

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Into the engine room

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Main engine sloping into position
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Main engine almost in place

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Main engine in position

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Additional FIFI 1
SMIT GUADELOUPE

Luke and Leia

The Virtua Philharmonic Orchestra

Fifi engine for SMIT Guadeloupe

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Fifi 1 pump – Big Bobby

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Big Bobby lower down

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Enough space??
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It is a millimeters job
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Just passing the Main engine
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Almost
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Finally on the engine room floor
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Connections to the pump and diesel

- Exhaust piping
- Water supply pipes

Very little space
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For big Bobby's piping
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Exhaust and water pipe behind
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View from the engine room entrance
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Outfitting Outside

Bunker Station in building fase

Bunker station before final painting

Forward Bollard

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Stair to Wheelhouse
511535
jvds-marcol productions

Cylindrical bow fender fitting

Bow side view
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Foreward winch fitted

jvds-marcol productions

Foreward winch fitted

Foreward SMIT Fairlead set
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Aft wich wire spooling
jvds-marcol productions

Towing wire fitted
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Equipment above

The Gold Bug

E.Woolfson/A.Parsons

Magnetic Compass

Foreward search light

Aft search light

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Wistle
SEEMATZ
jvds-marcol productions

Mast topside section view

Mast mid section view

Mast bottom section view

Inside

Messroom
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Messroom

jvds-marcol productions

Below deck accommodation

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Below deck cabin entrance
jvds-marcol productions

Below deck corridor
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Bridge

PS Navigation Panel

SB Side Bridge Instruments

Fire Detection Panel & Sliding door operation panel

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PS Bridge console

SB Bridge Console

Front Bridge Panel

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Radio Equipment

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Radars
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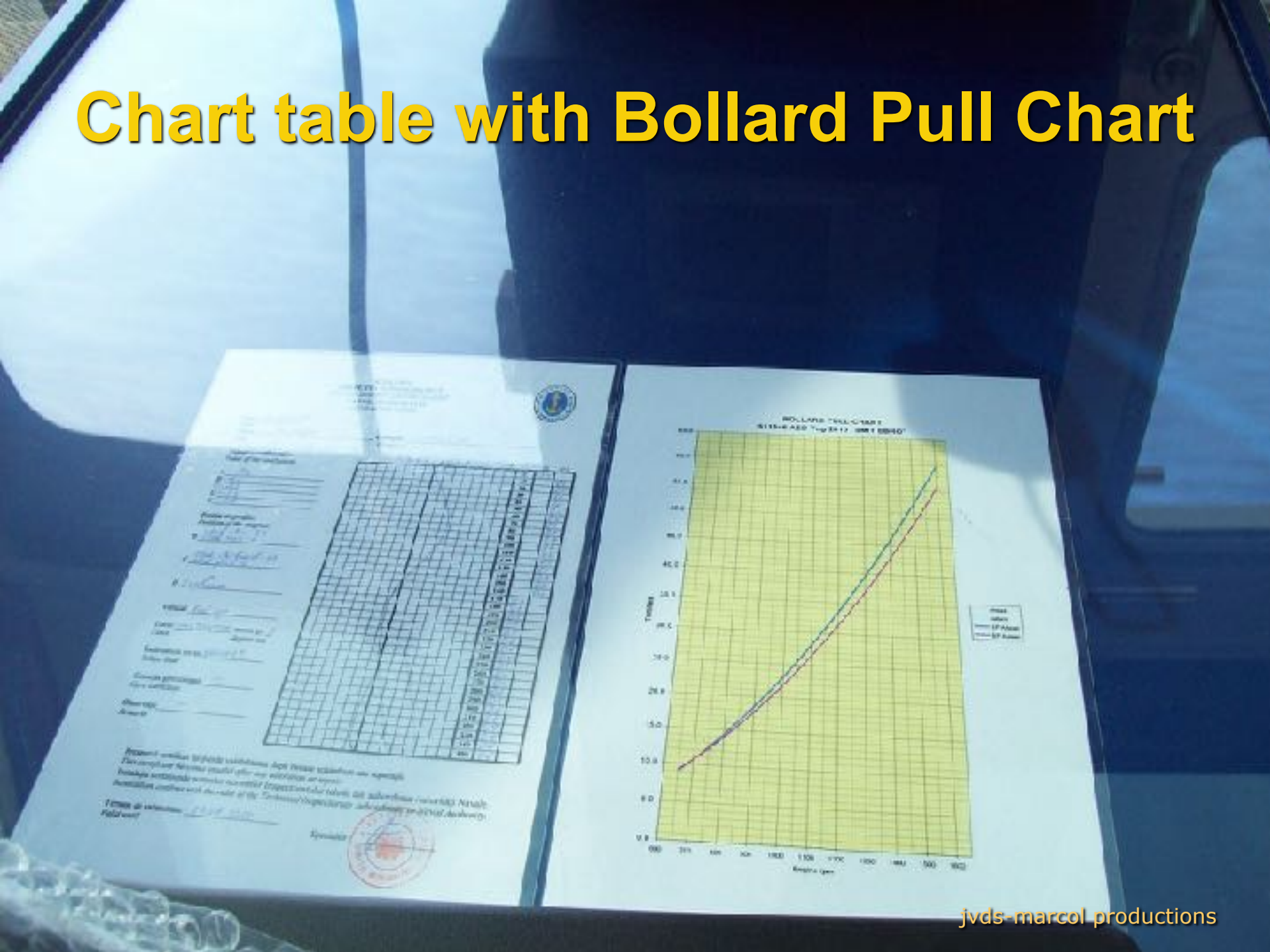
Chart table with Bollard Pull Chart



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Aftside wheelhouse

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Side window view with window wiper

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Galley

Cooking element with microwave

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Sink
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Refrigerator

Exhaust hood

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Accommodation

Cabin Captain
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Medicine Locker

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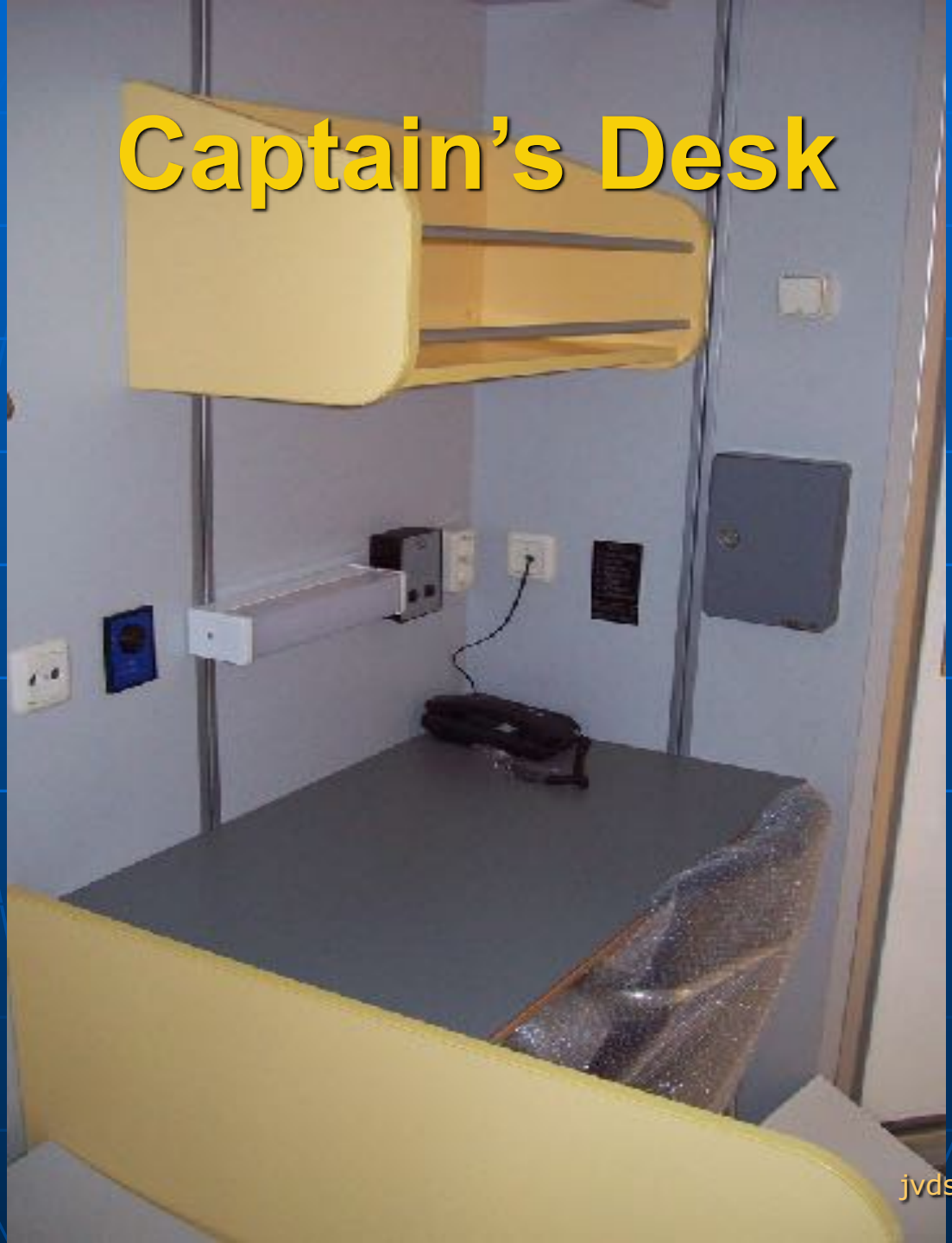
Captain's Desk



Basin Captain

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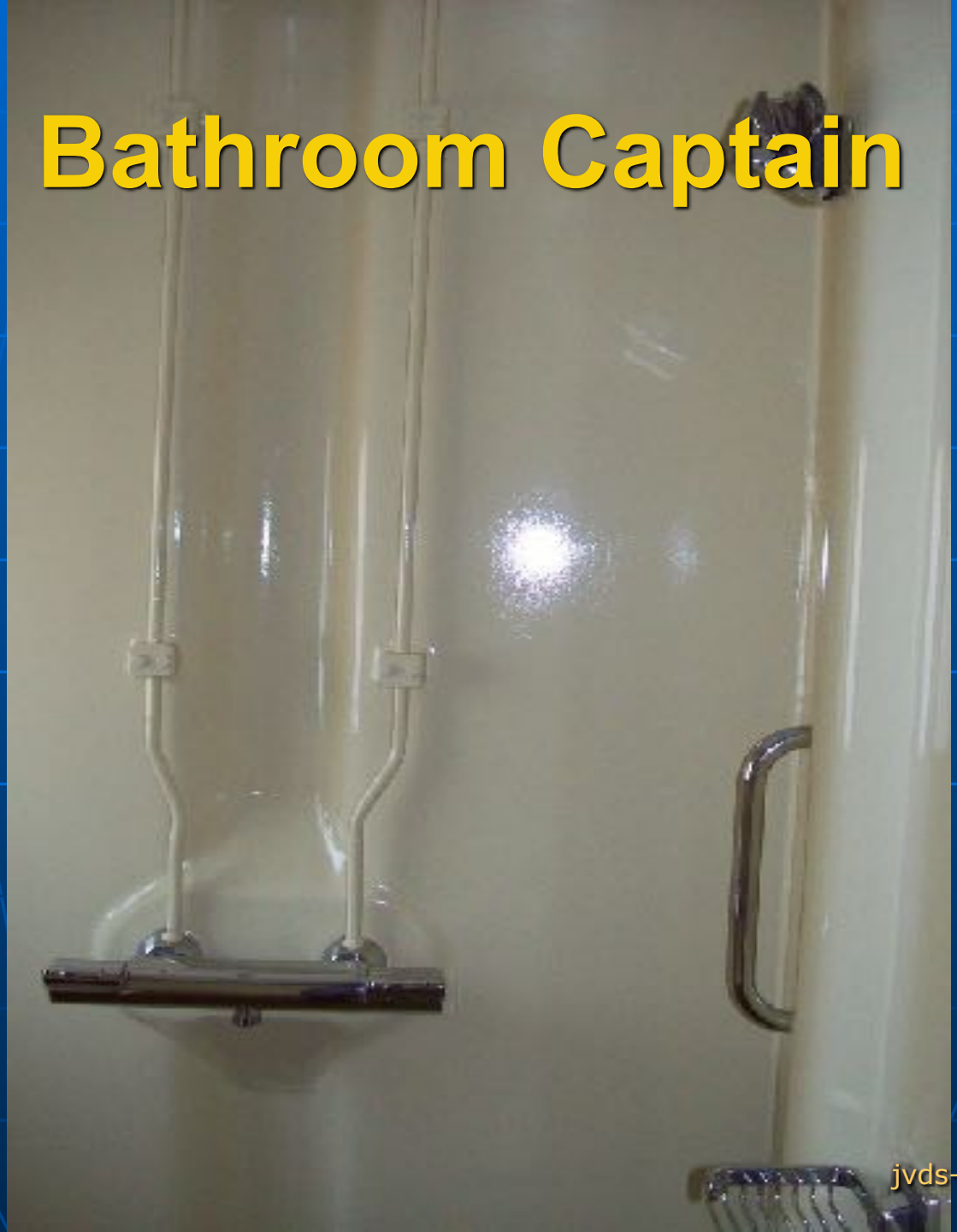
Bathroom Captain



Switchboard Room

Praxis Switchboard Room

Mess room Communication station

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Mess room TV-set

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Mess room

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Mess Room Panel

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Mess room book shelf

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Bathroom heater

Bathroom mirrors

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Bathroom basins

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Dryer/wash machine

Bathroom toilet

Bathroom shower

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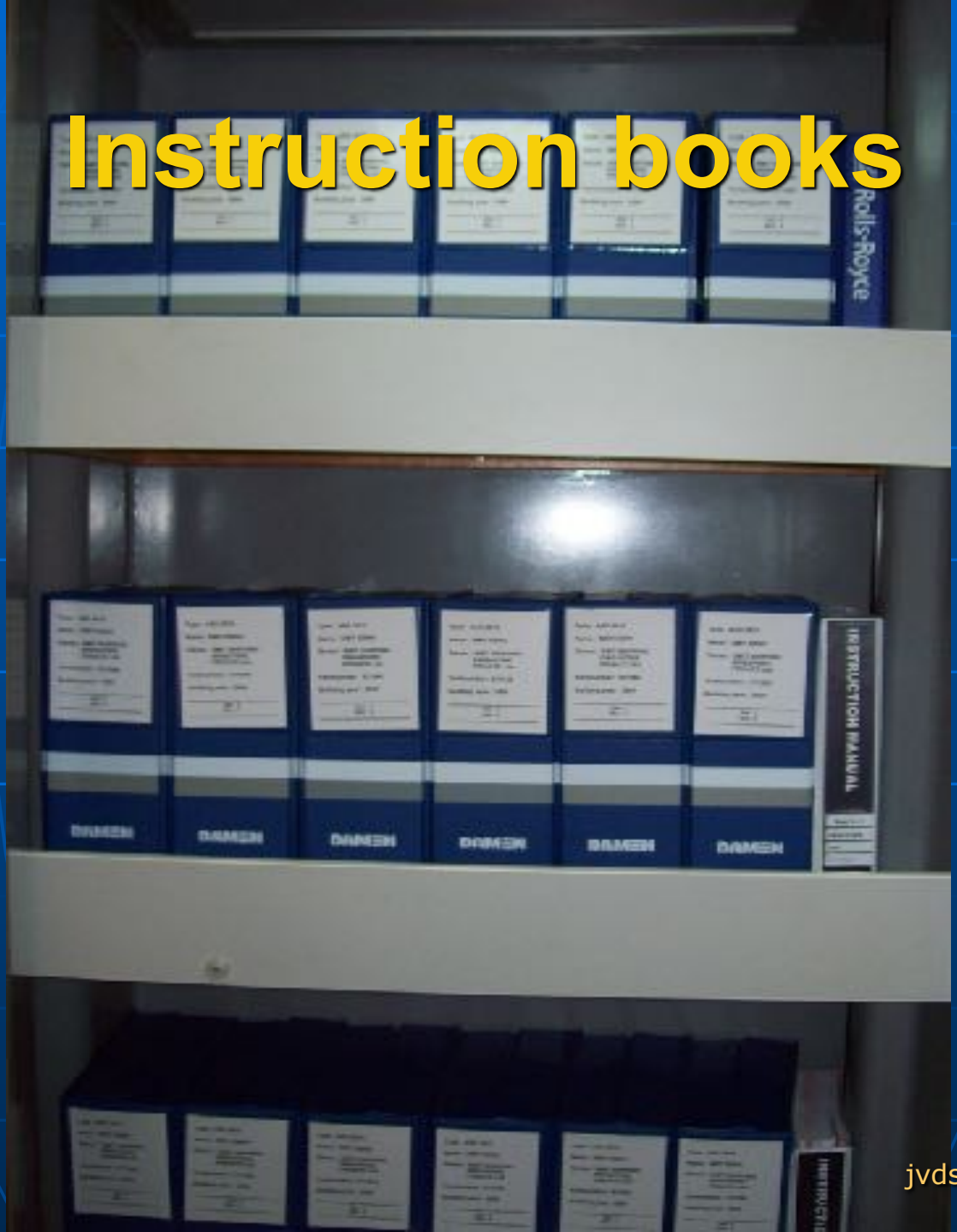
Drain wash machine/dryer

Instruction books



Outside Around

Oxygene - Jarre

Towing winch

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Towing Bit

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Towing Pin

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Aft deck bollard

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Bunker station

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Bunker station open view

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Capstan aftdeck

Vertical Bollard Foredeck

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Double drum foreward winch

Foreward Towing Bit

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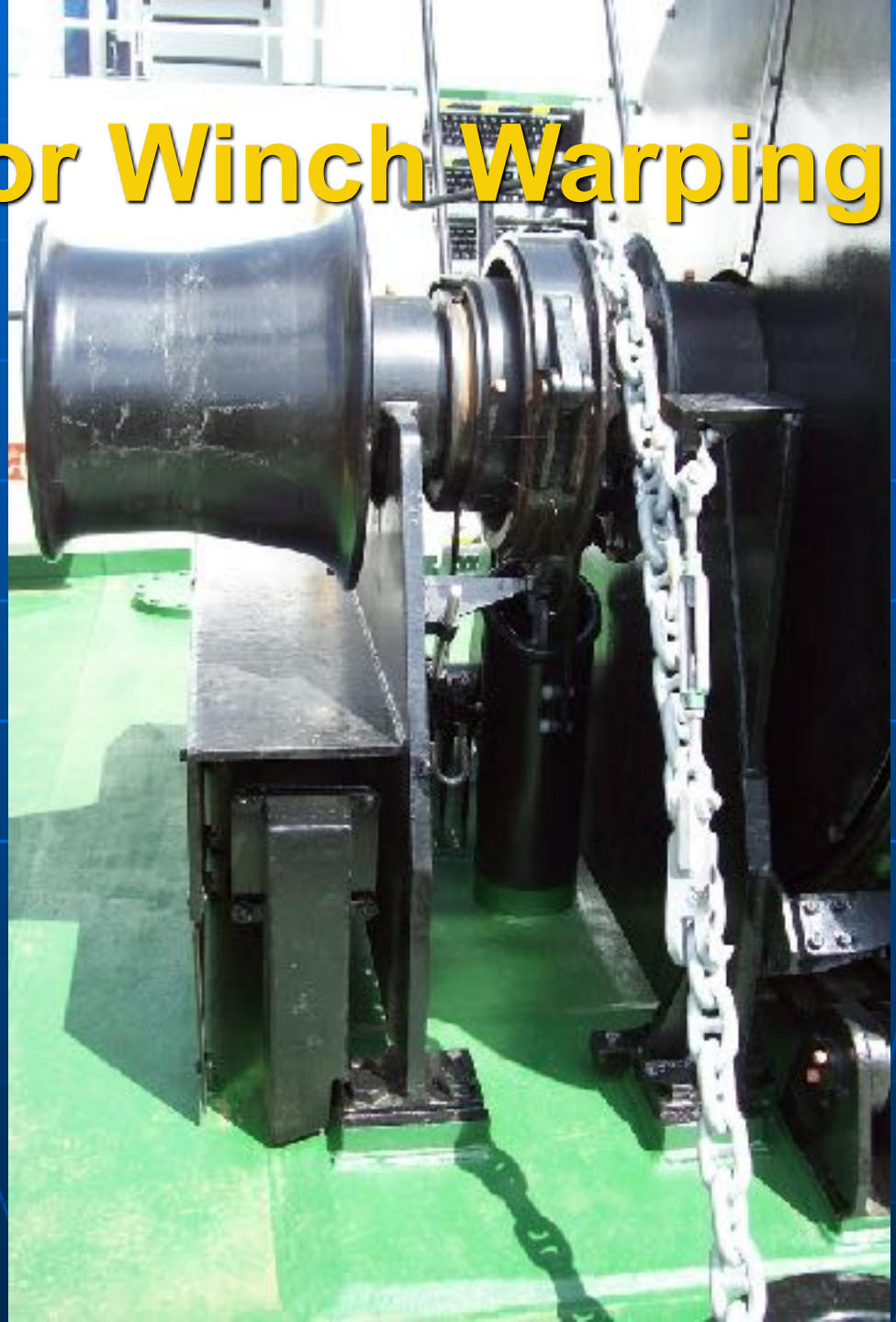
Anchor Winch Warping Head



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Control Panel Anchor Winch

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Stairs Foreward deck to Bridge deck

The Vessels

Chariots of Fire - Vangelis

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SMIT GRENADA

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SMIT TRINIDAD

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SMIT HUDSON
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SMIT SCHELDE

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SMIT MARTINIQUE

- Photo: Damen

SMIT DOMINICA

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SMIT SABA
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SMIT GUADELOUPE
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SMIT SEINE

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SMIT EBRO
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- Thanks to everybody to have make this presentation possible

- A Special thanks to all yard personal from the Damen Shipyard Galati

DAMEN

SMIT

Thanks for your attention during this presentation

J.van der Ster
Marcol Productions

Muziek - Kappiekees

THE END