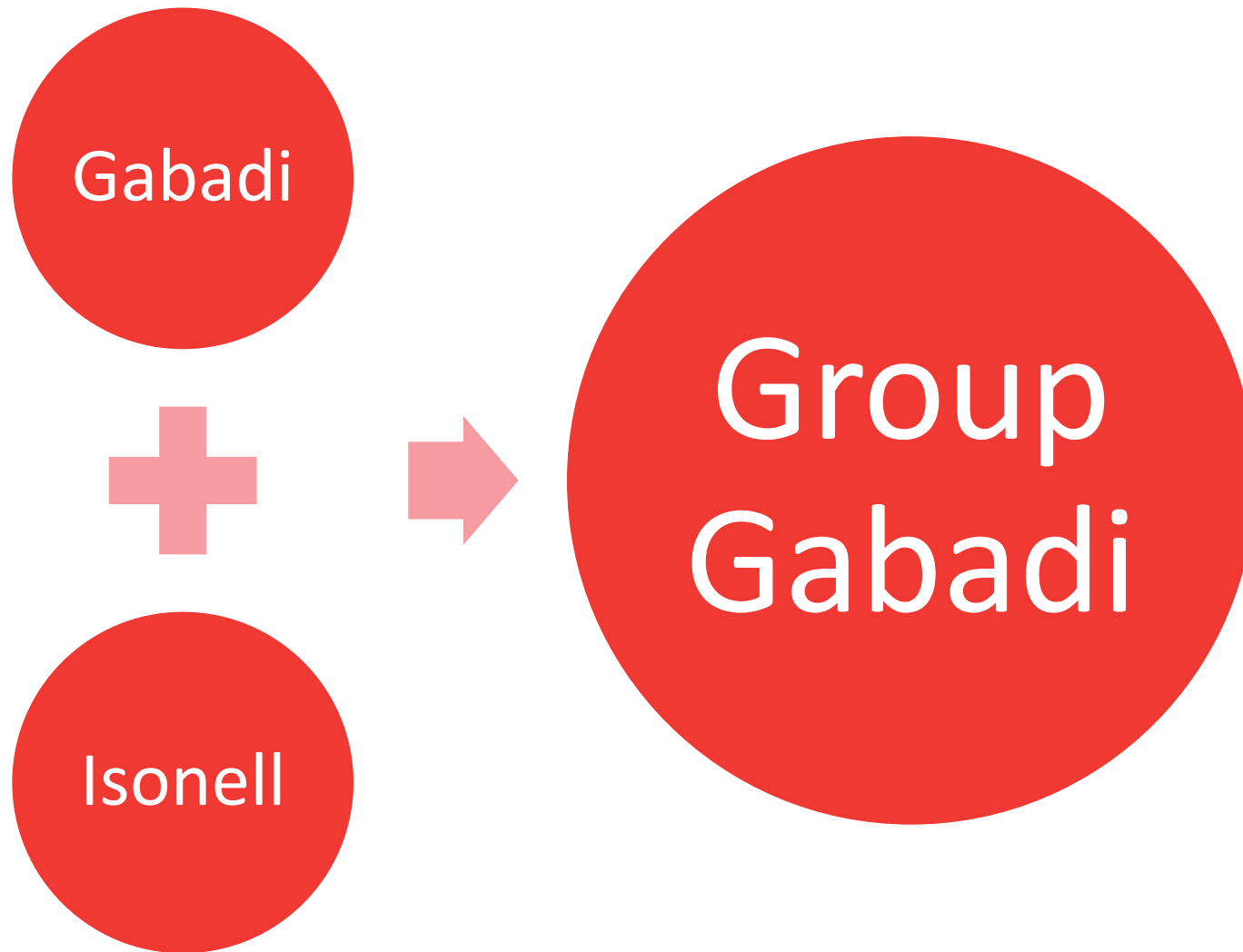
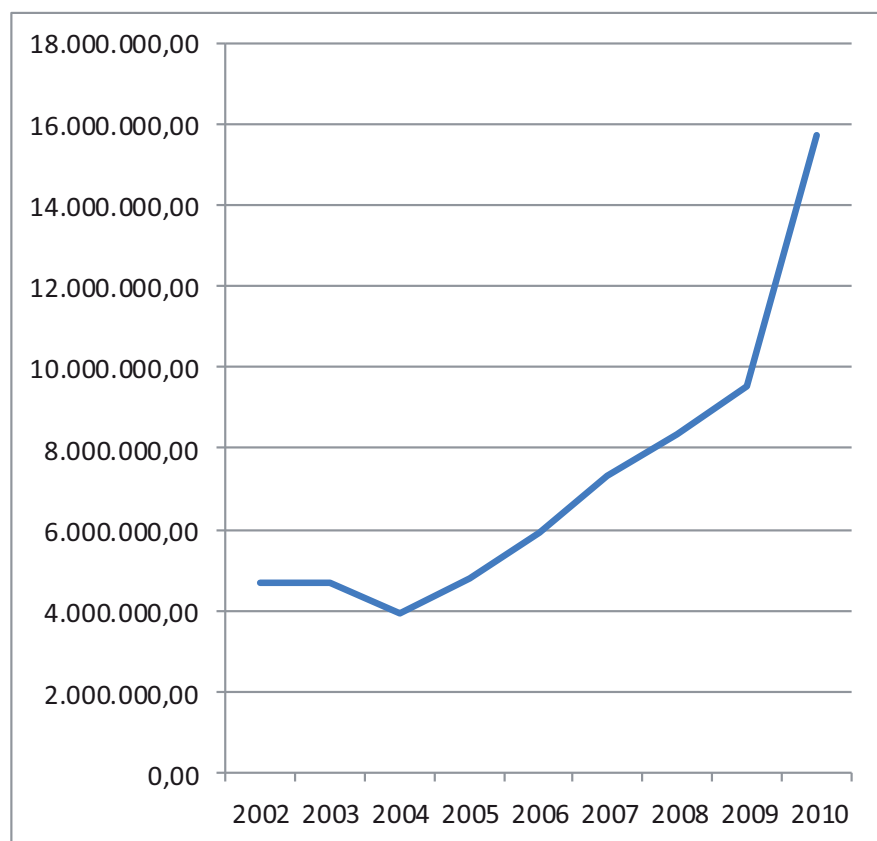


Outfitting and Auxiliaries for Naval Industry

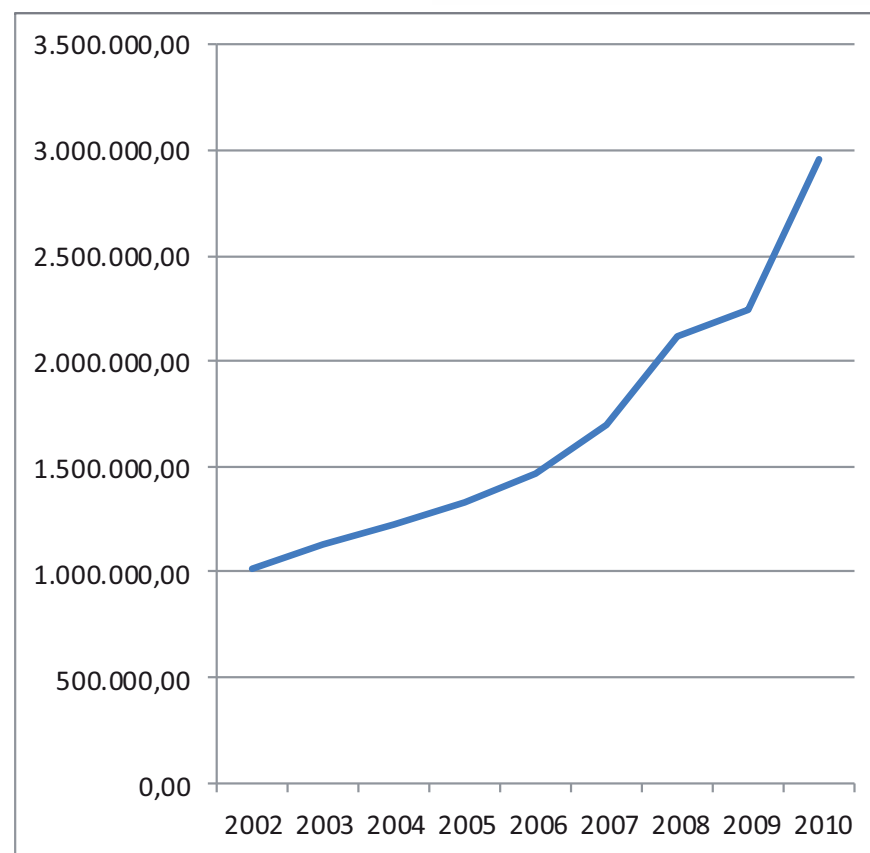


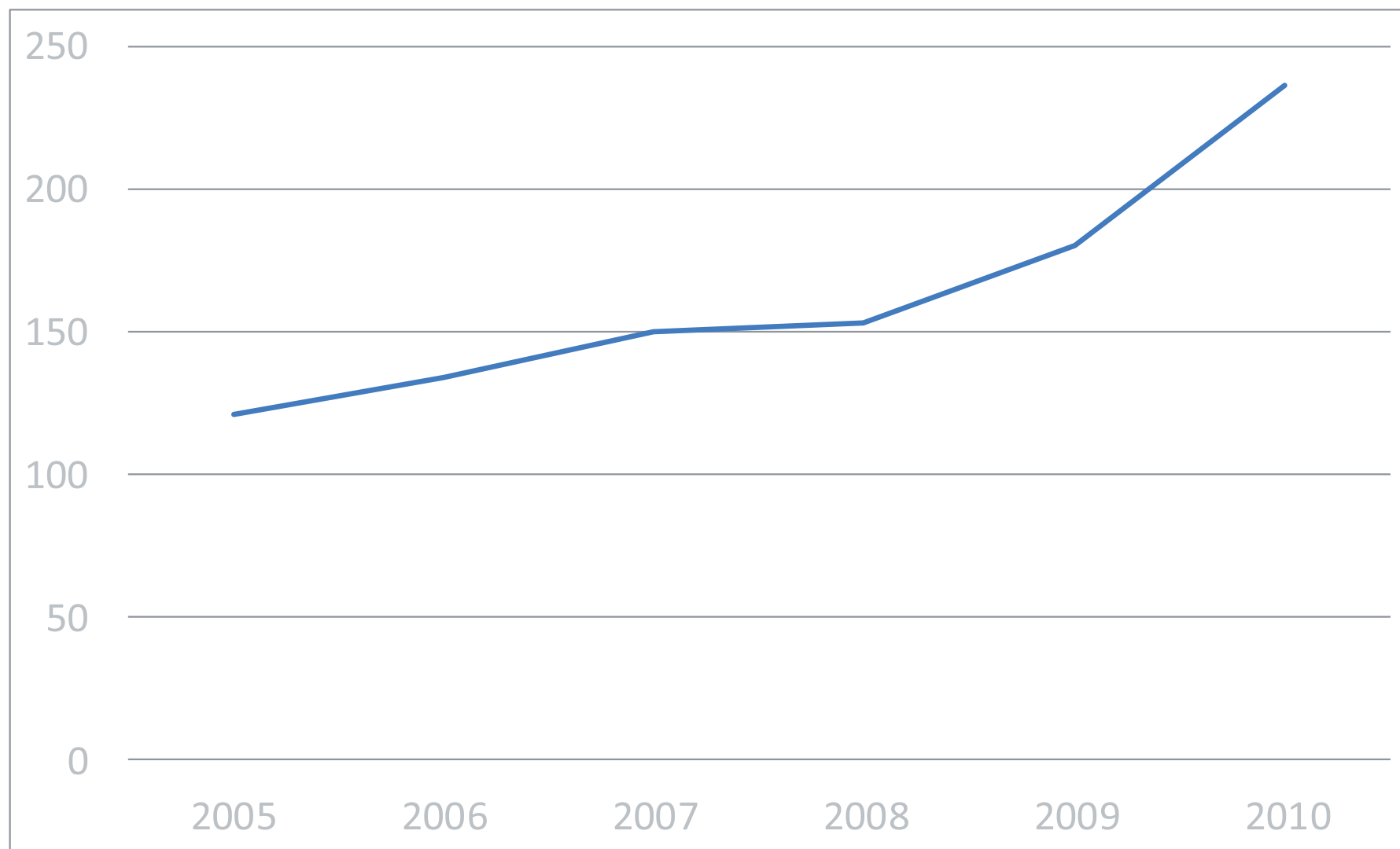


Turnover



Own resources



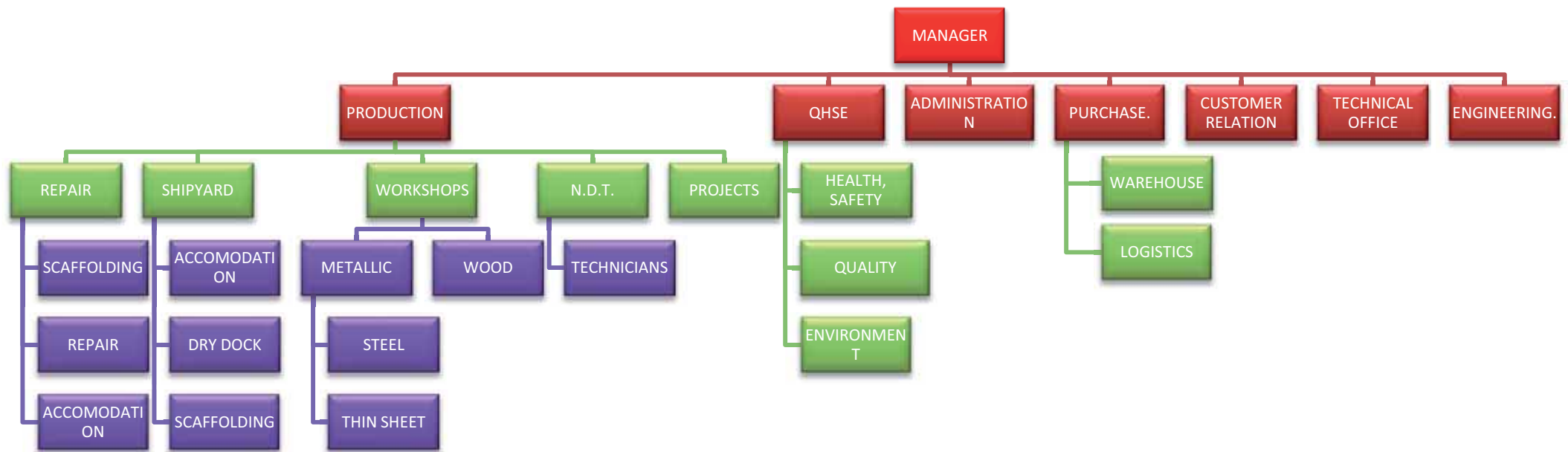




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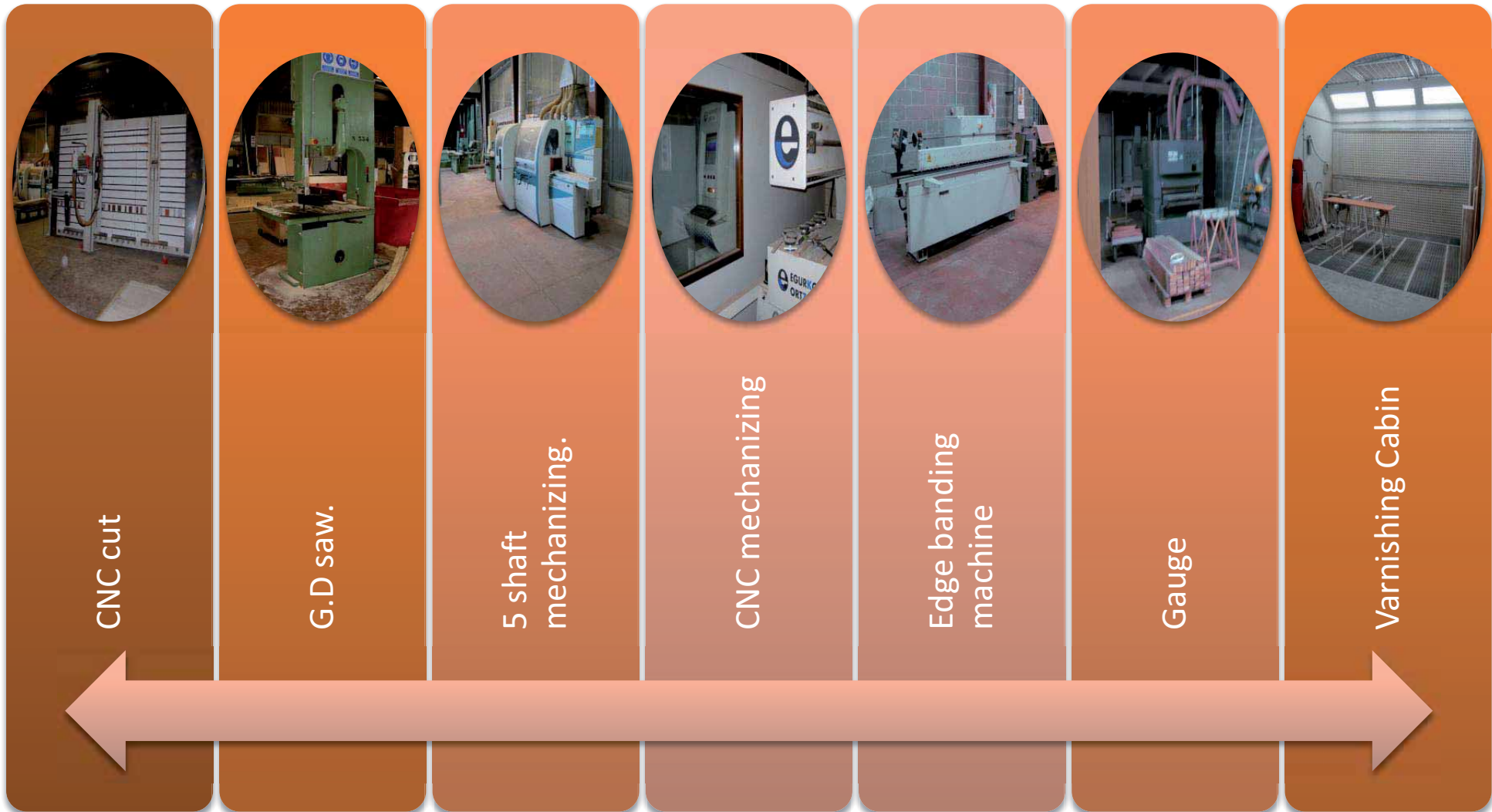
Business Excellence Awards

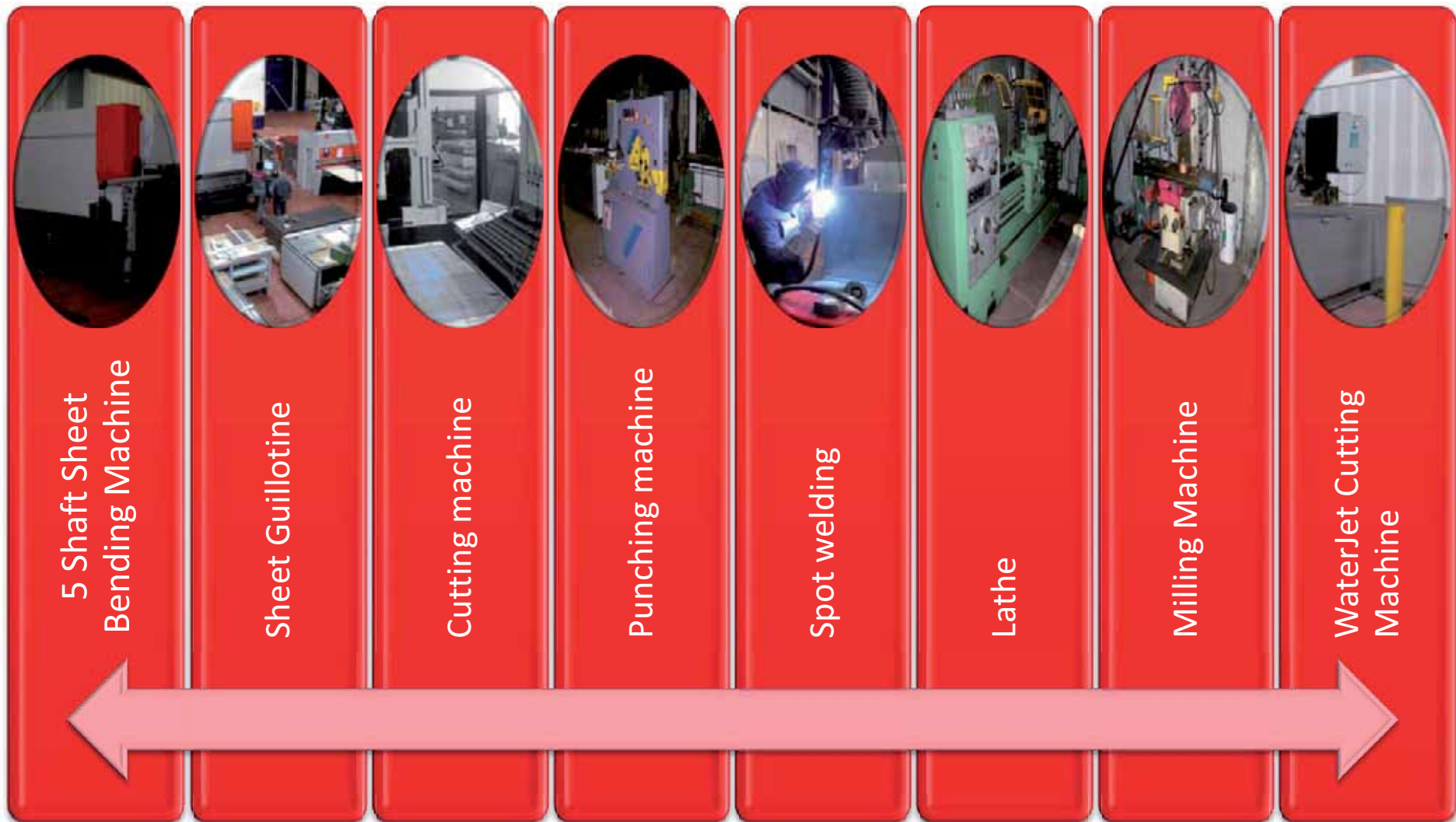




Technical Means

Wood Workshop







Welding Systems



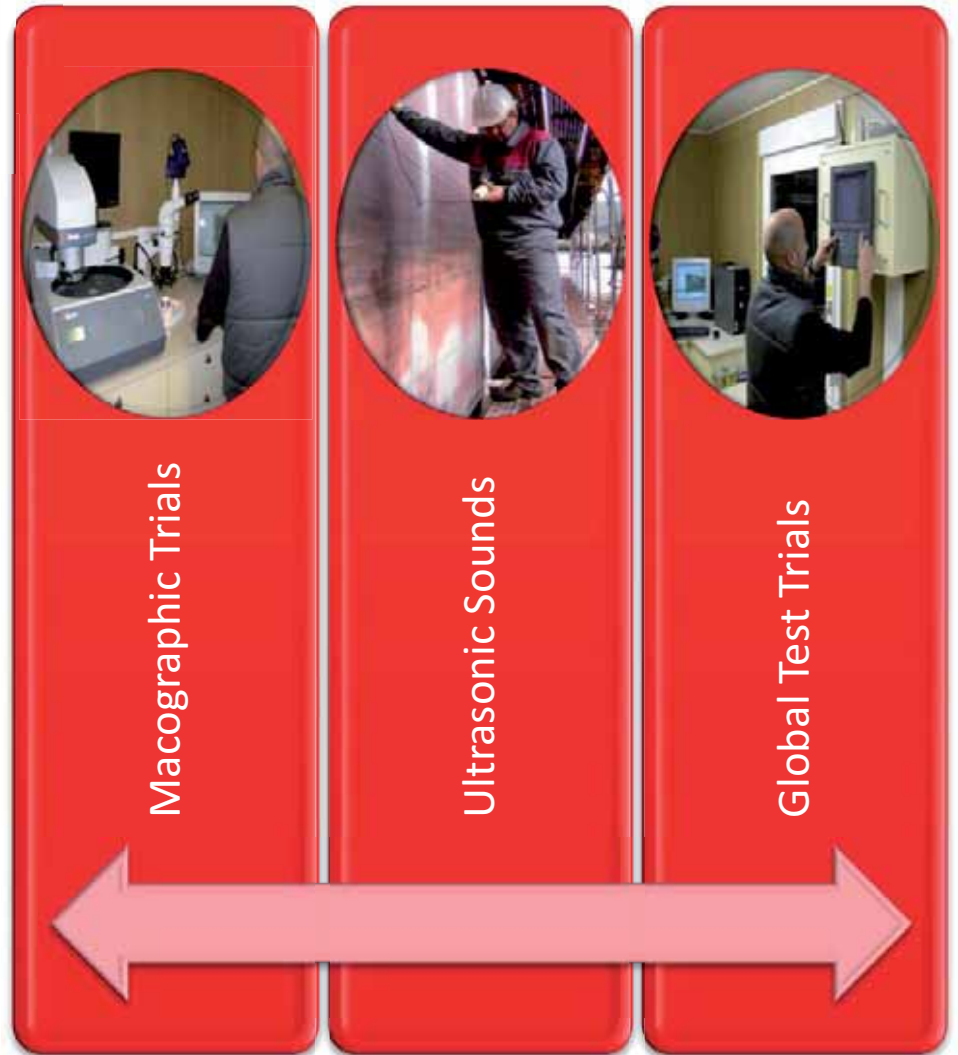
Lifting Means of
12,5 Tn



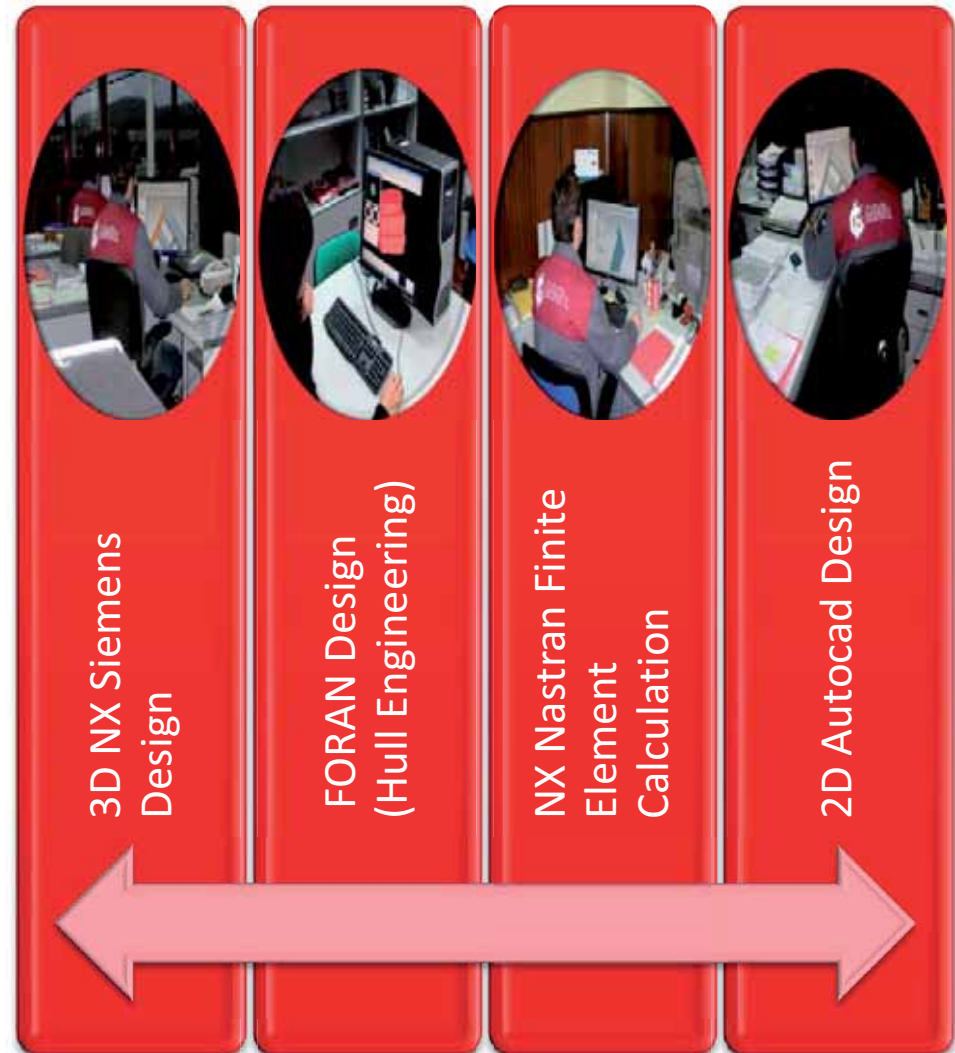
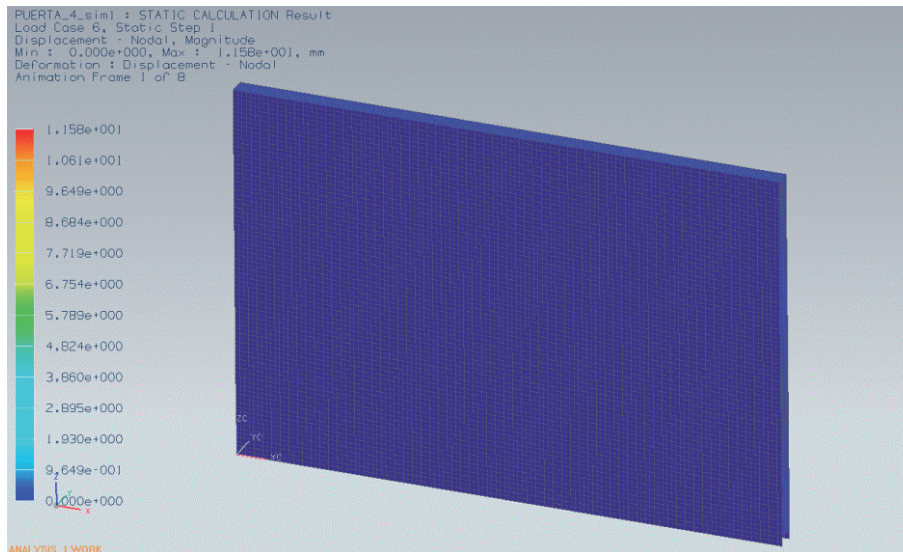
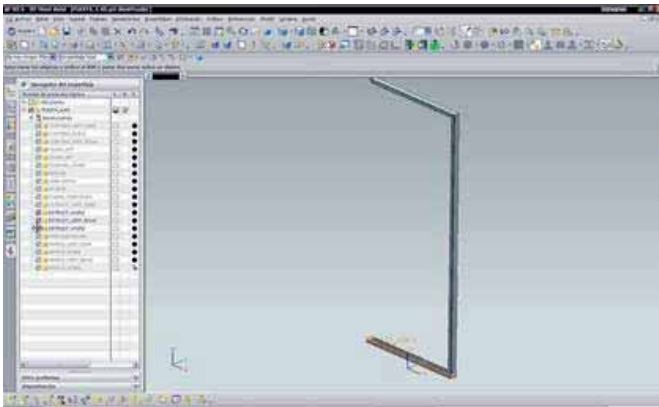
Cutting Systems



Non Destructive Tests



Design and Engineering



Outfitting Turnkey Projects

- ⌘ Dredger Capitán Nuñez (Year 2000)
- ⌘ Tugboats Diehz (Year 2001)
- ⌘ Dredgers Taccola y Franchesco (2002)
- ⌘ Tugboats 615 y 616 Zamakona (2004)
- ⌘ Hospital Vessel Juan de la Cosa (2005)
- ⌘ Zone "D" Buque LHD "Juan Carlos" (2007)
- ⌘ ALHD Vessels (Zones 4, 5 & 6) (2010-2012)

Activities



Repair Division

- ⌘ Repair and Conversion work of outfittings.
- ⌘ Repairs of boiler refractory material.
- ⌘ Repair and prepare dock beds.
- ⌘ Repairs of deck equipment:
boats, ladders, fire prevention boxes,...
- ⌘ Auxiliary Repair Work: Propeller polishing according to regulations ISO or RUBERT, Fitting of anodes, removal of grids and sea chests.
- ⌘ Gauging on all kinds of vessels.
- ⌘ Technical trials on gas carriers:
Macrographies, Líquids, Global Test, Macrographies.
- ⌘ Stern tube bearing staves and lignum vitae rudder pintles.
- ⌘ Industrial scaffolding.
- ⌘ Repairs on circular container membranes type Mark y NO.



Scaffolding

- Spanish Frigates F-100 Class
- Norwegian Frigates F-310 Class
- LHD Vessel "Juan Carlos I".
- ALHD Vessels.
- Scaffolding for Navantia Repair Division



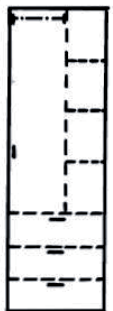

Furniture Fabrication

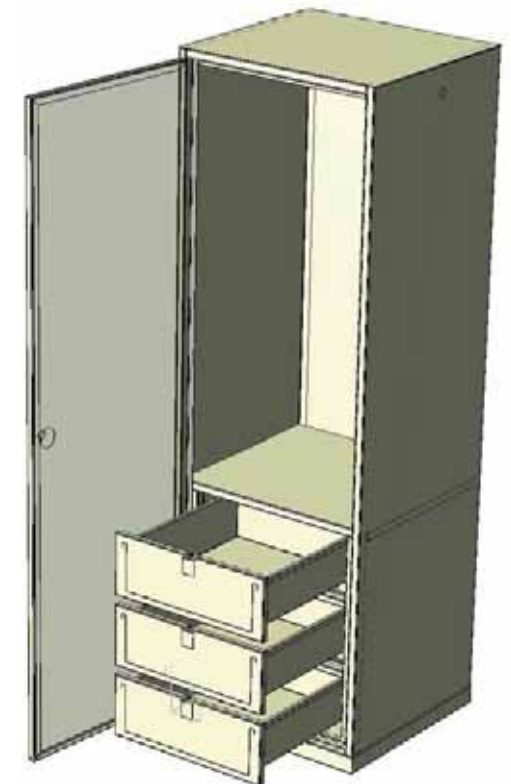
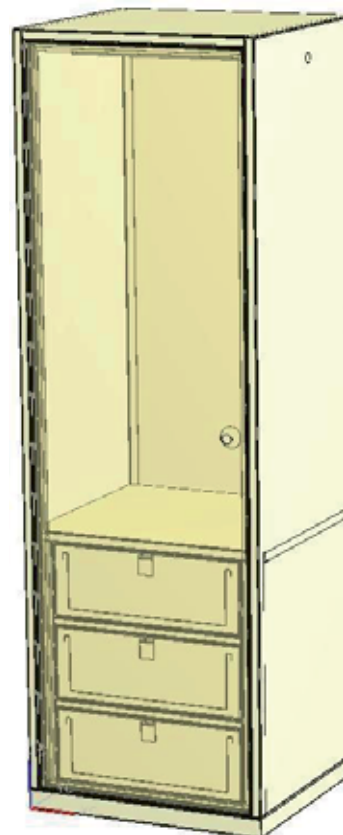
- Spanish Frigates F-100 Class (F-105 Project).
- Norwegian Frigates F-310 Class
- Conoco Phillips
- JDN
- LHD Vessel "Juan Carlos I".
- ALHD Vessels
- Spanish Submarines.
- Railway panels.



Design: Detail Engineering Development from Basic Engineering


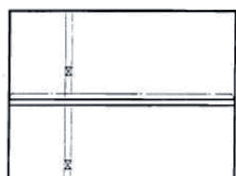
3D design using SIEMENS NX

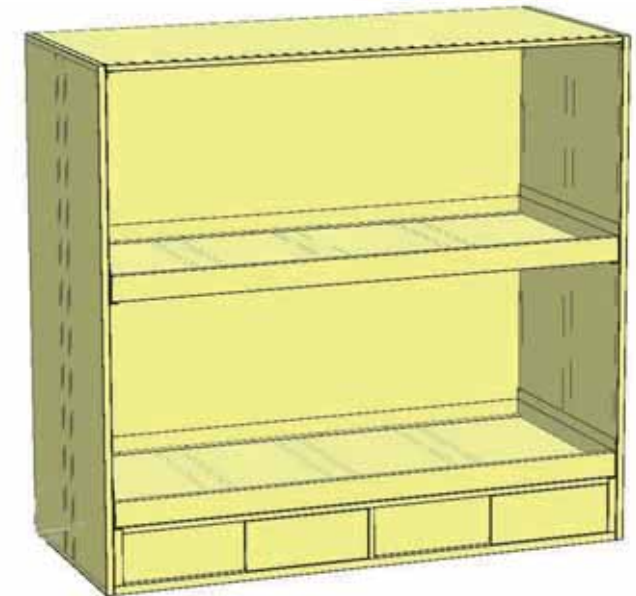
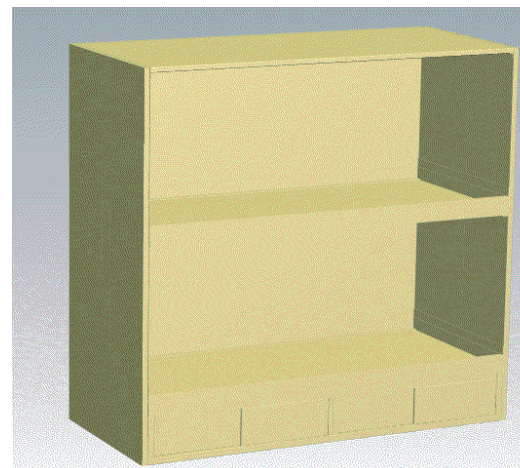
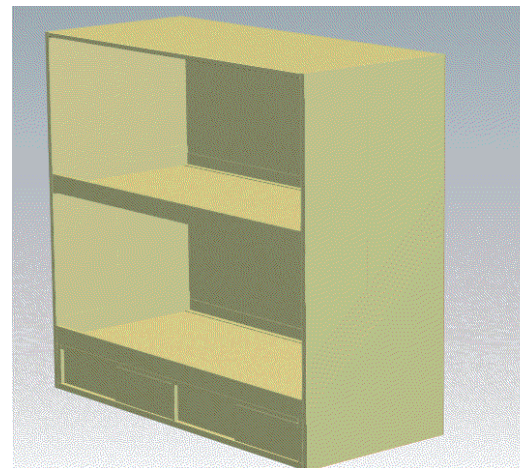
(21)	
	<p>Denominación: GUARDARROPA DE OFICIALES</p> <p>Tipo: "A"</p> <p>Dimensiones: 600A560F1850H</p> <p>Plano n°: MB-6.03.002</p> <p>Código: 75321238</p> <p>Observaciones: 1 Puerta, 3 cajones, 3 estantes y 1 barra para colgar.</p> <p>Peso: 51 Kg.</p>
(22)	
	<p>Denominación: GUARDARROPA DE OFICIALES</p> <p>Tipo: "B"</p> <p>Dimensiones: 600A560F1850H</p> <p>Plano n°: MB-6.03.002</p> <p>Código: 75321255</p> <p>Observaciones: 1 Puerta, 3 cajones y 1 barra para colgar.</p> <p>Peso: 50,5</p>
E.N. BAZAN - FERROL -	
<p>PROYECTO DE: CATALOGO DE MOBILIARIO</p> <p>PROYECTO DE: GUARDARROPAS, TAQUILLAS Y ARMARIOS</p>	
FECHA: 01/01/01	REVISOR: 01/01/01
FECHA: 01/01/01	REVISOR: 01/01/01



Design: Detail Engineering Development from Basic Engineering

3D design using SIEMENS NX

13																									
																									
Denominación	LITERA DOBLE DE OFICIALES																								
Tipo	-																								
Dimensiones	2012A970F1500H																								
Plano nº	MB-6.02.001																								
Código	Mano Dcha.- 75313213 P4132007 - P4132005 (Modulo) Mano Izqda.- 75313214 P4132004 - P4132006 (M)																								
Observaciones	- 2 cajones debajo. Peso 155,5 Kgs.																								
14																									
																									
Denominación	LITERA DOBLE DE SUBOFICIALES																								
Tipo	"A"																								
Dimensiones	2032A750F2020H																								
Plano nº	MB-6.02.002																								
Código	Mano Dcha.- 75313215 Mano Izqda.- 75313216																								
Observaciones	- Peso 107,5 Kgs.																								
E.N. BAZAN - FERROL -																									
<table border="1"> <tr> <td>PROYECTO 3D</td> <td>OFICINA TÉCNICA</td> <td>TÍTULO/TITLE</td> </tr> <tr> <td>PROYECTO 3D</td> <td>OFICINA TÉCNICA</td> <td>CATALOGO DE MOBILIARIO</td> </tr> <tr> <td>APLICABLE INCH</td> <td></td> <td>LITERAS</td> </tr> <tr> <td>APLICABLE SUP</td> <td></td> <td></td> </tr> <tr> <td>FECHA</td> <td>ESCALA</td> <td>REVISIÓN</td> </tr> <tr> <td>01/01/01</td> <td>1:1</td> <td>01/01/01</td> </tr> <tr> <td></td> <td></td> <td>REVISIÓN</td> </tr> <tr> <td></td> <td></td> <td>01/01/01</td> </tr> </table>		PROYECTO 3D	OFICINA TÉCNICA	TÍTULO/TITLE	PROYECTO 3D	OFICINA TÉCNICA	CATALOGO DE MOBILIARIO	APLICABLE INCH		LITERAS	APLICABLE SUP			FECHA	ESCALA	REVISIÓN	01/01/01	1:1	01/01/01			REVISIÓN			01/01/01
PROYECTO 3D	OFICINA TÉCNICA	TÍTULO/TITLE																							
PROYECTO 3D	OFICINA TÉCNICA	CATALOGO DE MOBILIARIO																							
APLICABLE INCH		LITERAS																							
APLICABLE SUP																									
FECHA	ESCALA	REVISIÓN																							
01/01/01	1:1	01/01/01																							
		REVISIÓN																							
		01/01/01																							



Spanish Frigates F-105, LHD and ALHD

Computer Numerical Control Waterjet Cutting System



Spanish Frigates F-105, LHD and ALHD

Manufacturing Process (1).



Spanish Frigates F-105, LHD and ALHD

Manufacturing Process (2).



Spanish Frigates F-105, LHD and ALHD

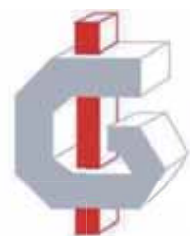
Finishing Product.



Spanish Frigates F-105, LHD and ALHD

Modular Cabins





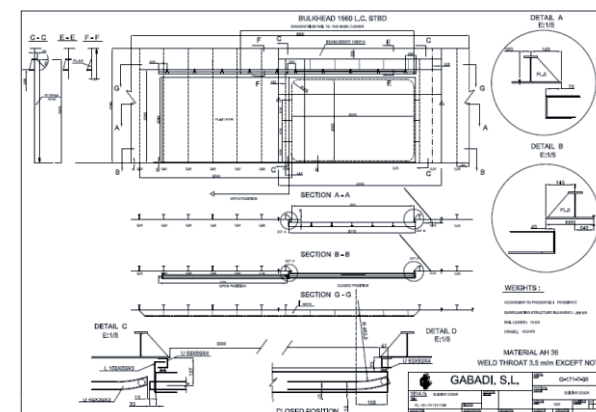
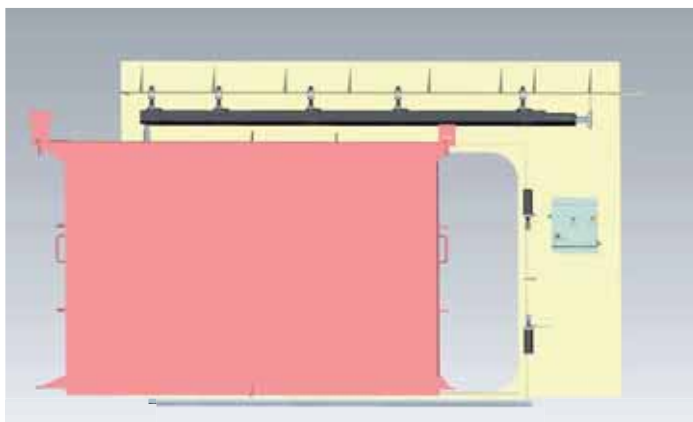
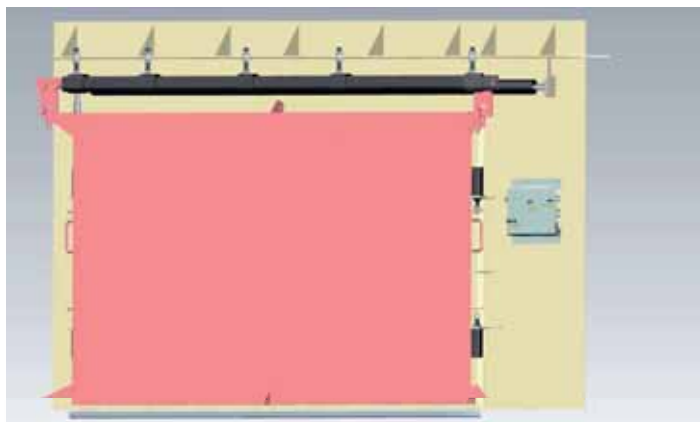
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SPANISH FRIGATE F-105 & AWD

FIRE RETARDANT SLIDING PNEUMATIC DOOR

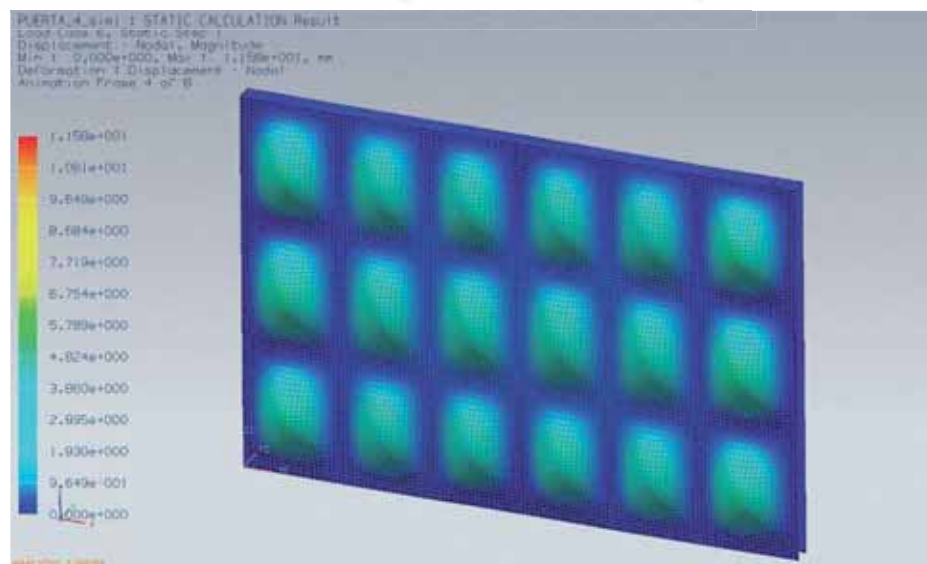
3D DESIGN (SIEMENS NX 7.0)

2D PRODUCTION DRAWING



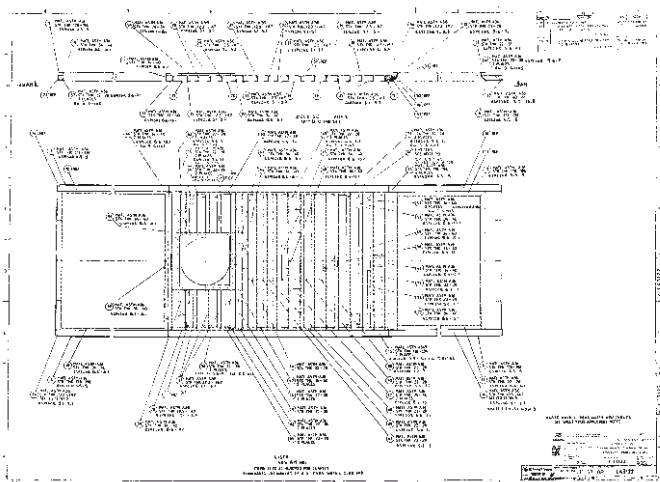
SEA STORM ANALYSIS (NX NASTRAN)

FABRICATION

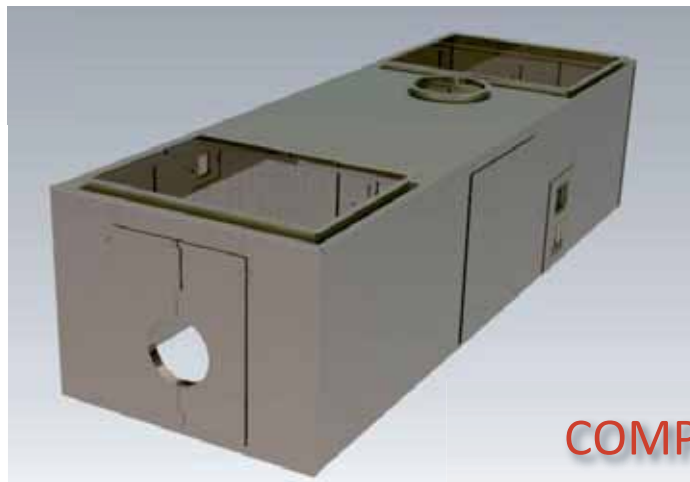
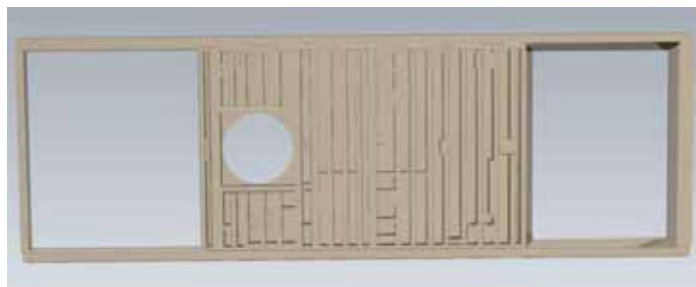


PROPULSION GAS TURBINE ENCLOSURE

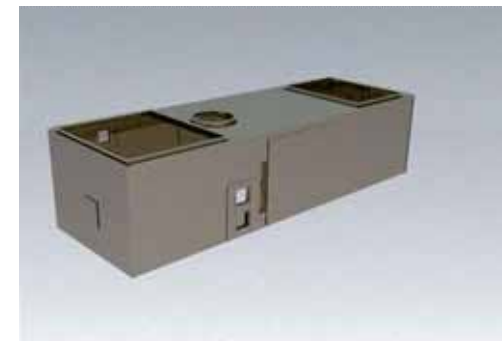
GENERAL ELECTRIC OLD
ENGINEERING



3D MODEL (NX 7.0)



COMPLETE ASSEMBLY (NX 7.0)



FABRICATION



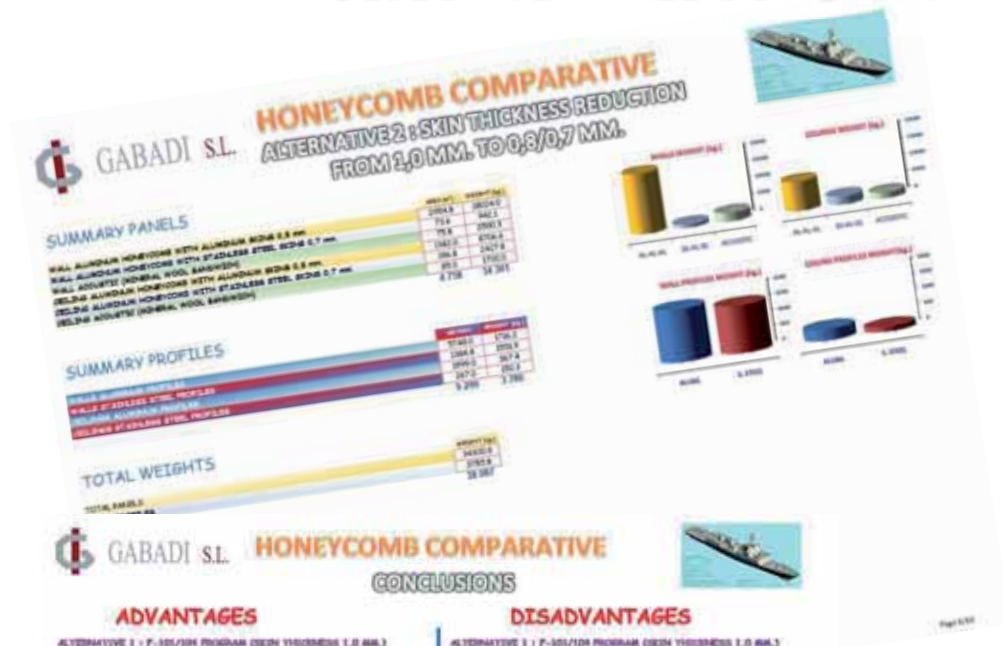


GABADI S.L.

SPANISH FRIGATE F-105 & AWD

Honeycomb Panels Resistance Tests (Weight Reduction Study)

OBJECTIVE: A REDUCTION IN THE LIGHTSHIP WEIGHT OF 6 TONS





GABADI S.L.

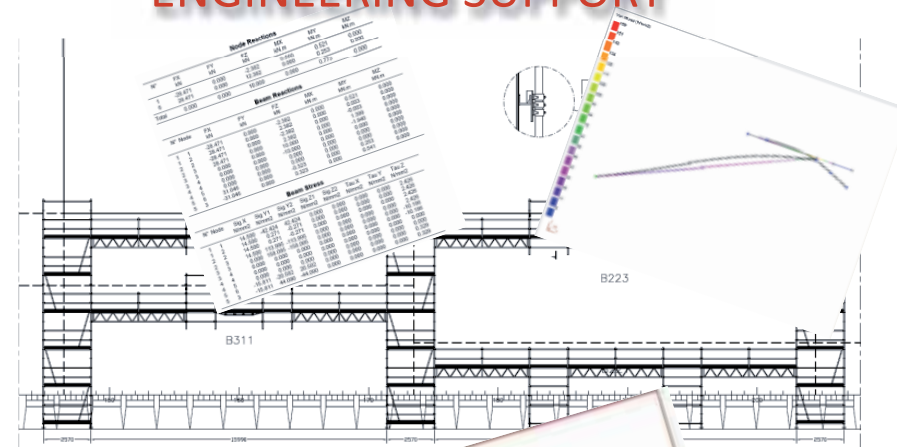
ALHD – TECHNICAL SOLUTIONS

SCAFFOLDING TECHNICAL SOLUTIONS

LHD VESSEL EXPERIENCE

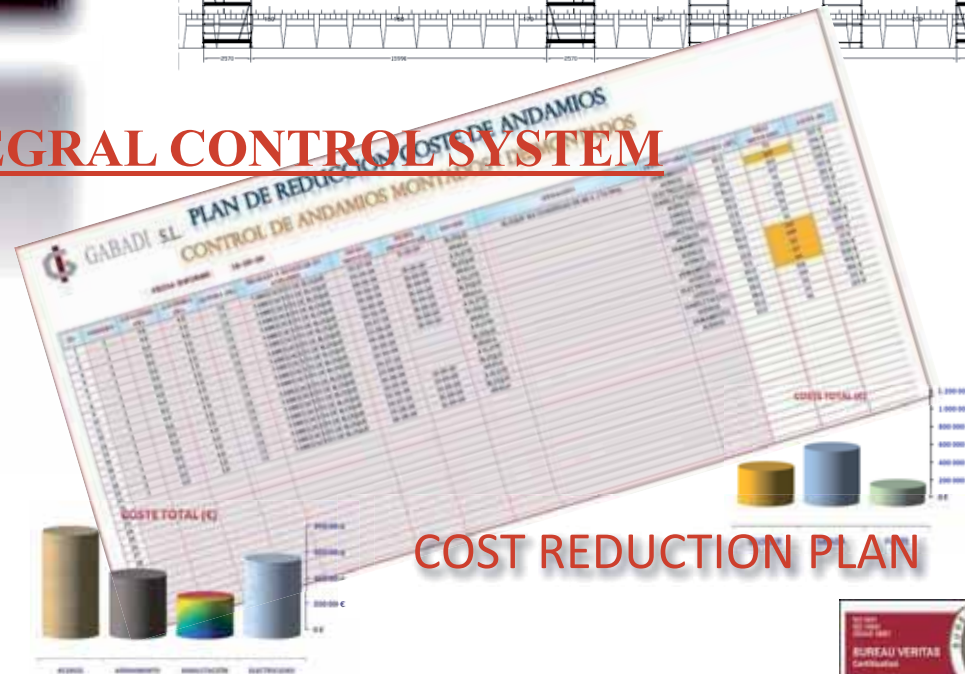


ENGINEERING SUPPORT



SCAFFOLDING INTEGRAL CONTROL SYSTEM

REAL TIME CONTROL SYSTEM



COST REDUCTION PLAN



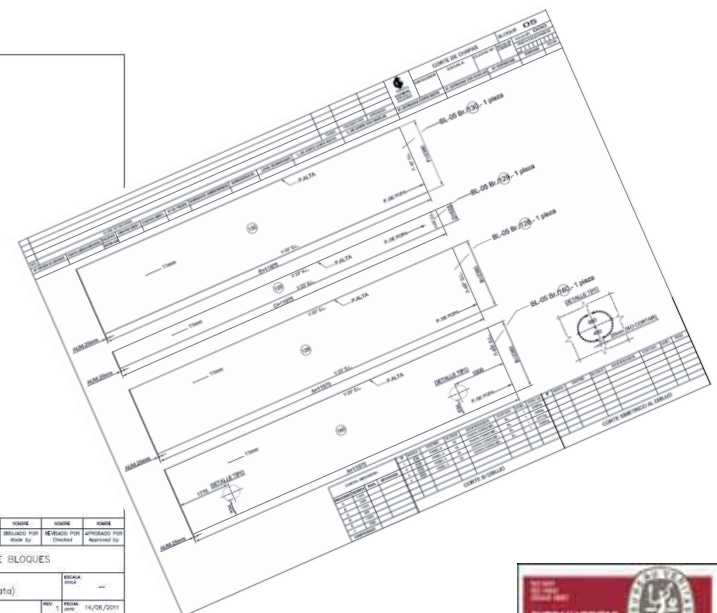
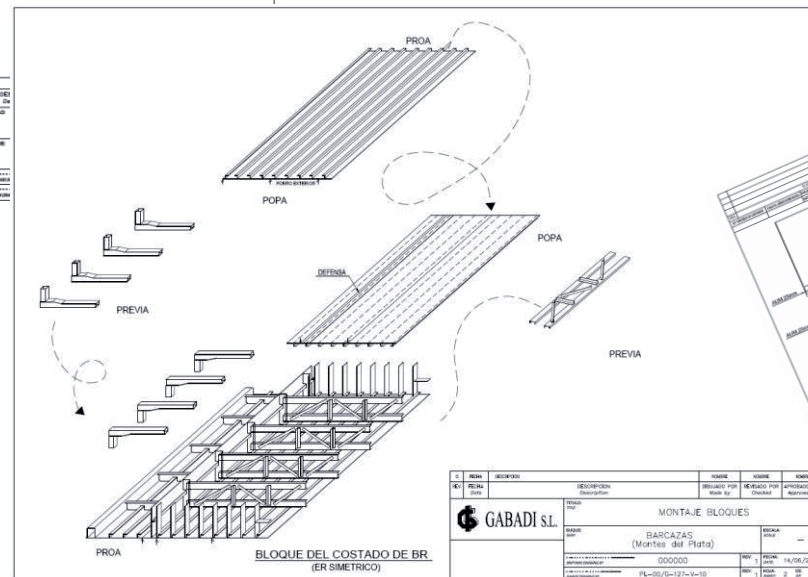
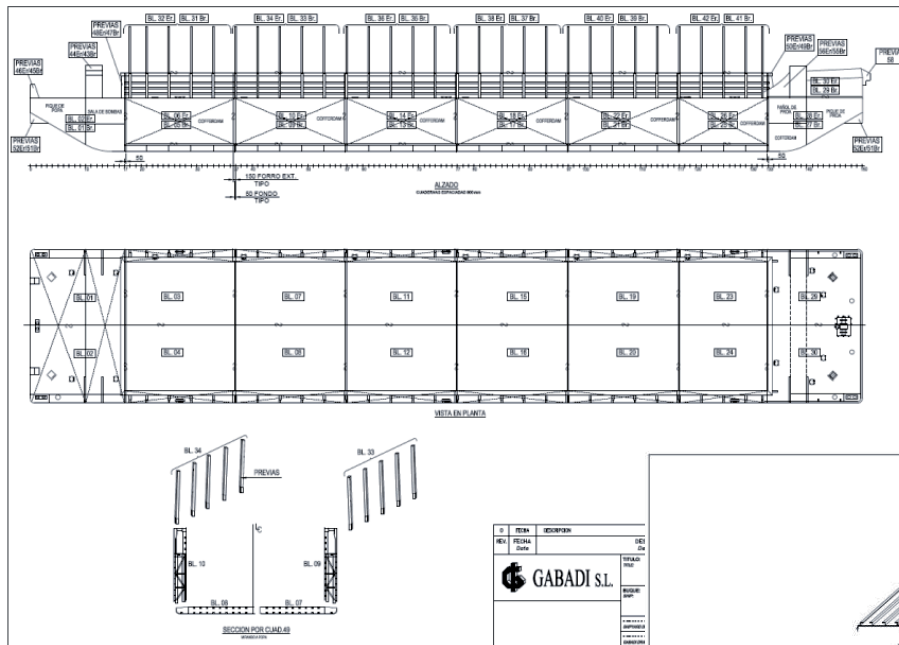
Steel & Accommodation Engineering of Superstructure Concrete Carrier 10.600 D.W.T YEAR 2008(Spain)



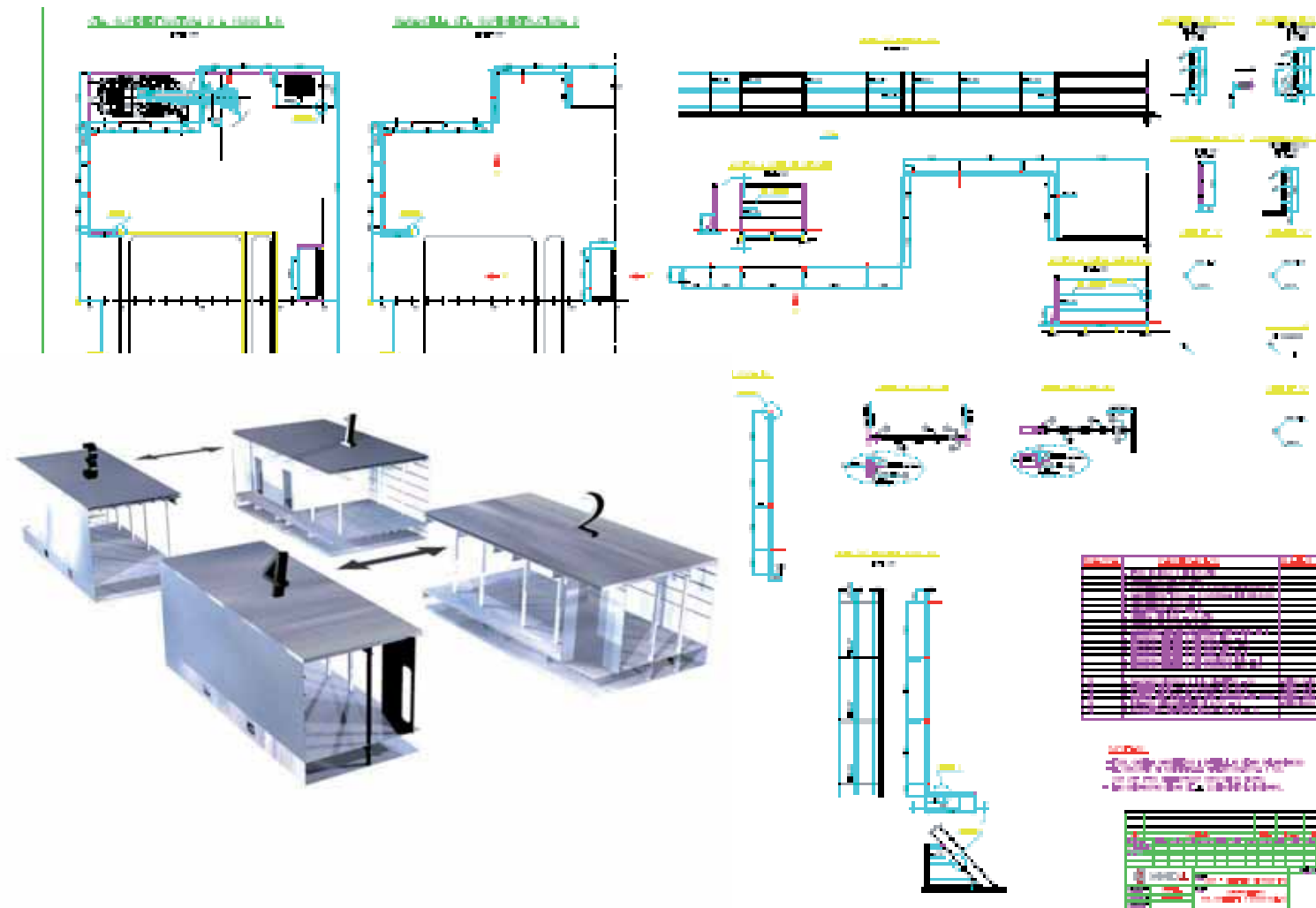
Accommodation Panels Engineering Dragados Offshore HA-LT-01 YEAR 2009/2010 (Mexico)



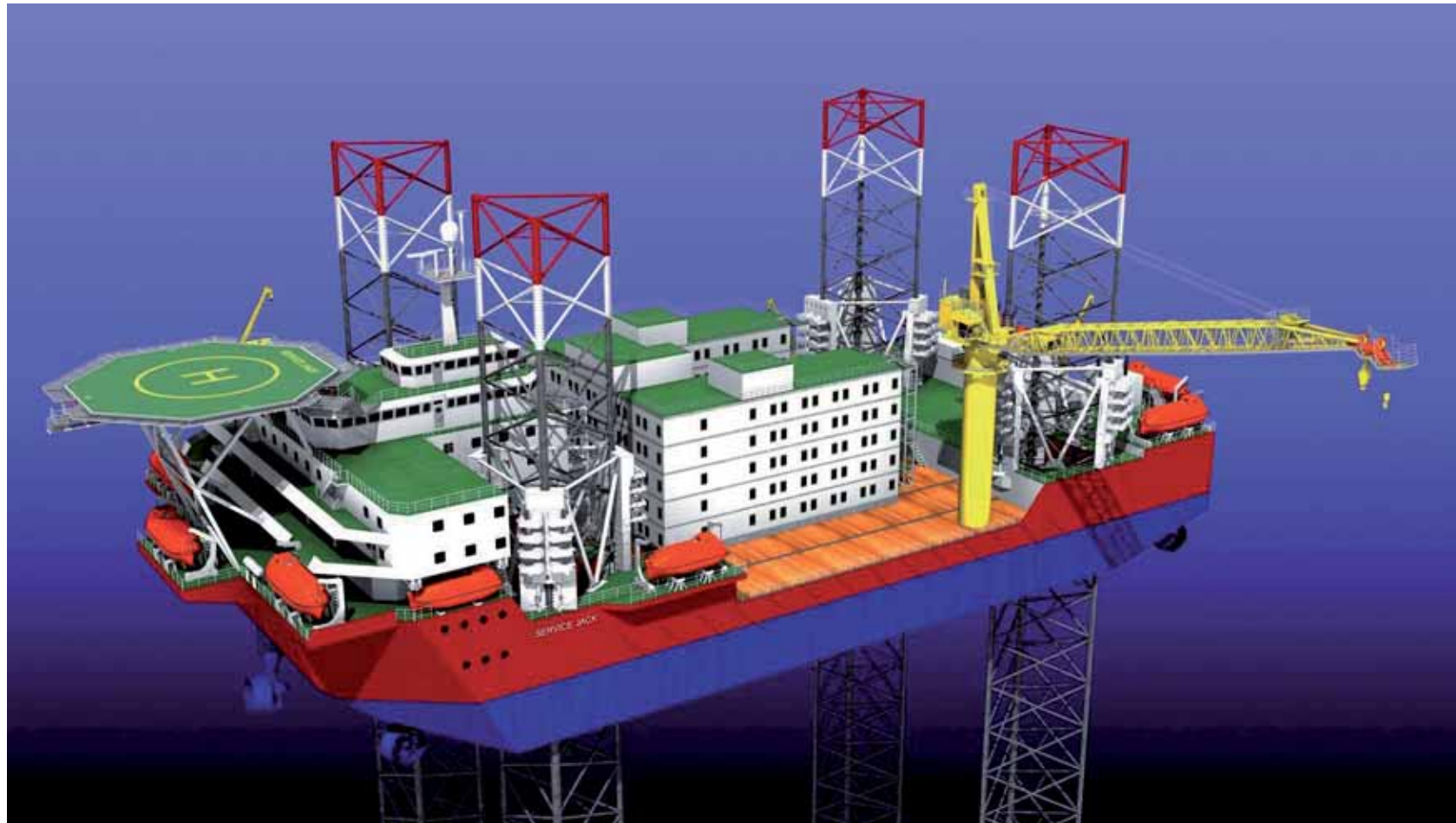
Steel Engineering of Complete Ship for Montes del Plata Barges 5.000 D.W.T YEAR 2011(Uruguay – South America)



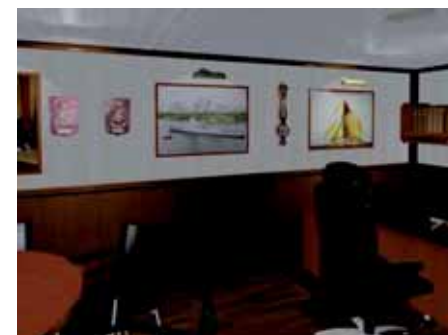
Preliminary Modular Accommodation Engineering Castor Project. Dragados Offshore. 2009



Preliminary Modular Accommodation Engineering ConocoPhillips GREATER EKOFISK AREA Project. Dragados OffShore. 2009







HA-LT -01 & PG-ZAAP-C Dragados Off-Shore. (México)



Main Projects Year 2010 (Offshore)

Seismic Ship WG Amundsen .



SIMON STEVIN



LEIV EIRIKSON



Main Projects Year 2010 (Passenger Ships)

Ferry Abel Matutes.



Main Projects 2010-2011 (Military)



F-105 Frigate (Spain)
3 Air Warfare Destroyers (Australia)



Main Projects 2010-2011 (Military)

LHD Vessel Juan Carlos I (Spain)
2 ALHD (Royal Australian Navy)



Main Projects Year 2011 (New Product Development)

New B-15 ceiling panel with reduced weight.
Certified according European Maritime Equipment Directive MED (Wheel mark).
SOLAS & FTP CODE

- It could be possible to reduce 6 kg per square meter.
- It could reduce more than 60 tons in CEILING WEIGHT for an ALHD vessel.
- To be tested on IMO approved laboratory on August 31st, 2011.
- The pictures are from an old succesful test performed in 2010.

