



IRIZAR
FORGE

HEAVY DUTY CHALLENGES.
FORGED SOLUTIONS.

WORLD CLASS FACILITIES

IRIZAR FORGE TODAY



- Belonging to Royal Van Beest group since 2017
- 200 employees in the group (20% in Spain)
- Fully certified company by worldwide Class Societies
- Main production facility in Spain (10.000m²)
- Worldwide presence:
 - Sales offices: Spain (headquarters), Brazil (São Paulo) and the USA (Houston)
 - Stocks location: Spain, Germany and USA
 - Sales agents in other countries



Sistema de
Gestión
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

www.tuv.com
ID: 9105065189



ADVANCED SOLUTIONS



1. DESIGN

2. PRODUCTION

3. TESTING &
CERTIFICATION





PRODUCTION FACILITIES

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Activity certified by class societies

Forging is the main process and different technologies are used:

- CLOSE DIE
- OPEN DIE
- BENDING
- UP SETTING

(Ring Rolling is not implemented)



Close die forging
($<5.000\text{kg}$)



Open die forging
($<20.000\text{kg}$)

Bending
($\leq \varnothing 400\text{mm}$)





**Up set forging
($< \varnothing 200\text{mm}, 3500\text{mm}$)**





FORGING (2)



Forging process is divided in 2 shops (same building):

Building: 2000 m²

Shop 1: forging < 5000kg single weight forgings

Shop 2: forgings < 20000kg single weight forgings





Forge shop (1)





FORGING (3)



MACHINERY USED FOR FORGING:

HYDRAULIC PRESSES:

1. 1200t
2. 2000t (1)
3. 2000t (2)
4. 3500t
5. 10000t

HYDRAULIC BENDING MACHINES:

1. Up to \varnothing 200mm
2. Up to \varnothing 400mm





1200t hydraulic press

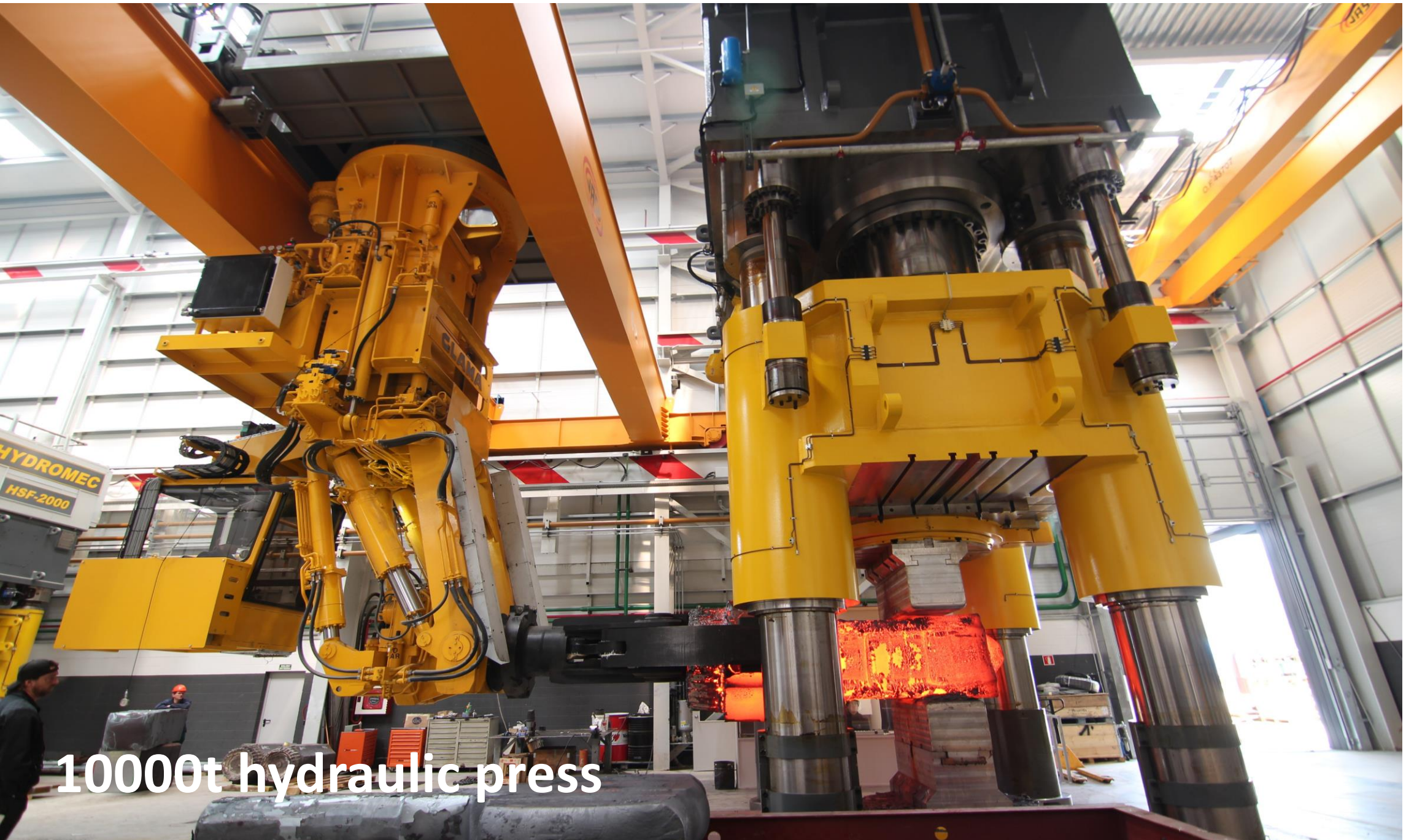




2000t hydraulic presses



3500t hydraulic press



10000t hydraulic press





FORGING (4)



MACHINERY USED FOR FORGING:

HEATING: for Forging & Heat Treatment

Induction Heating 1: \varnothing 95-140mm up to 200mm 2 coil sets

Natural Gas oven 1: 45m³ (5000x4500mm base x3000mmm heigh)

Natural Gas oven 2: 36m³ (3000x5000mm base x2400mm heigh)

Natural Gas oven 3: 9m³ (3000x2000 mm base x 1500mm heigh)

Natural Gas oven 4: 4m³ (2400x2010mm base x 800mm heigh)

Natural Gas oven 5: 4m³ (2700x1800mm base x 800mm heigh)



Gas oven 1





Gas oven 2





Gas oven 3



Gas oven 4



Gas oven 5





Induction Heating

4-3-2024



CUTTING



MACHINERY USED FOR CUTTING:

6 SAWING MACHINES: up to 1100x1300mm

1 FLAME CUTTING (O₂): 2000x3000mm base x 400mm heigh





SAWING MACHINES up to 1100x1300mm



O2 CUTTING MACHINE: 2000x3000mm base x 400mm height

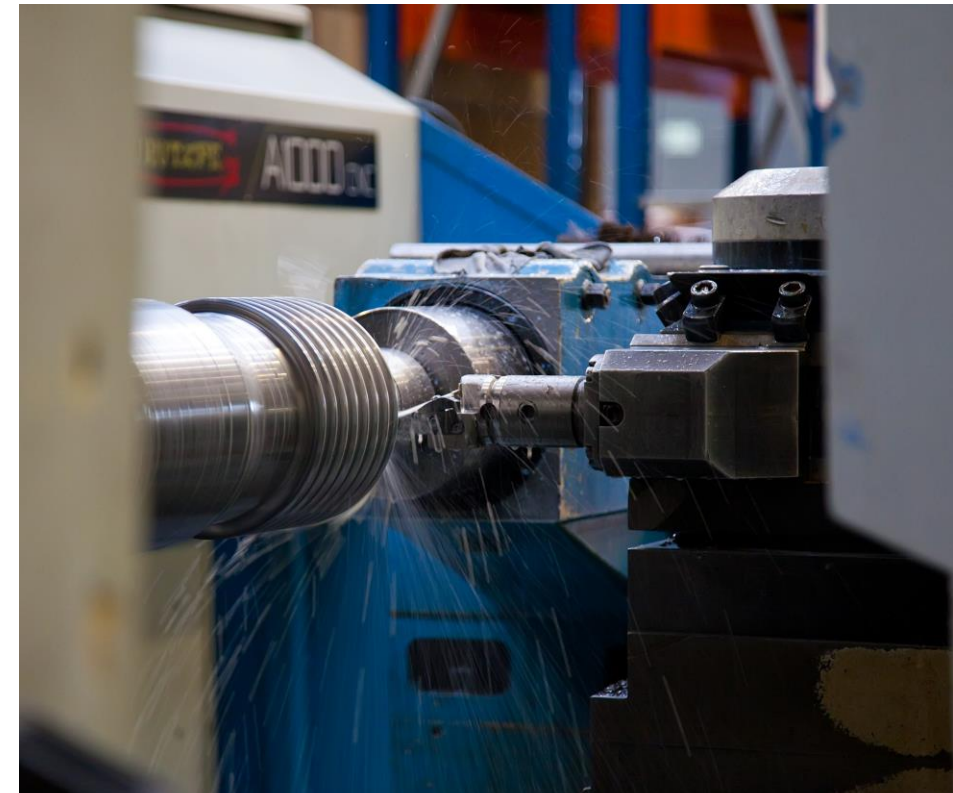
MACHINERY USED FOR ROUGHT & FINAL MACHINING:

MILLING MACHINES:

2 machines (shop 1) +3 machines (shop 2)

LATHES/TURNING MACHINES:

1 lathe (shop 1)+4 CNC turning machines (shop 2)



3

MACHINING

MILLING MACHINES (Shop1)



3

MACHINING



3 axes (x-y-z): 2000x1000x1000mm



4000x1500x1250mm



7000x1200x2000mm



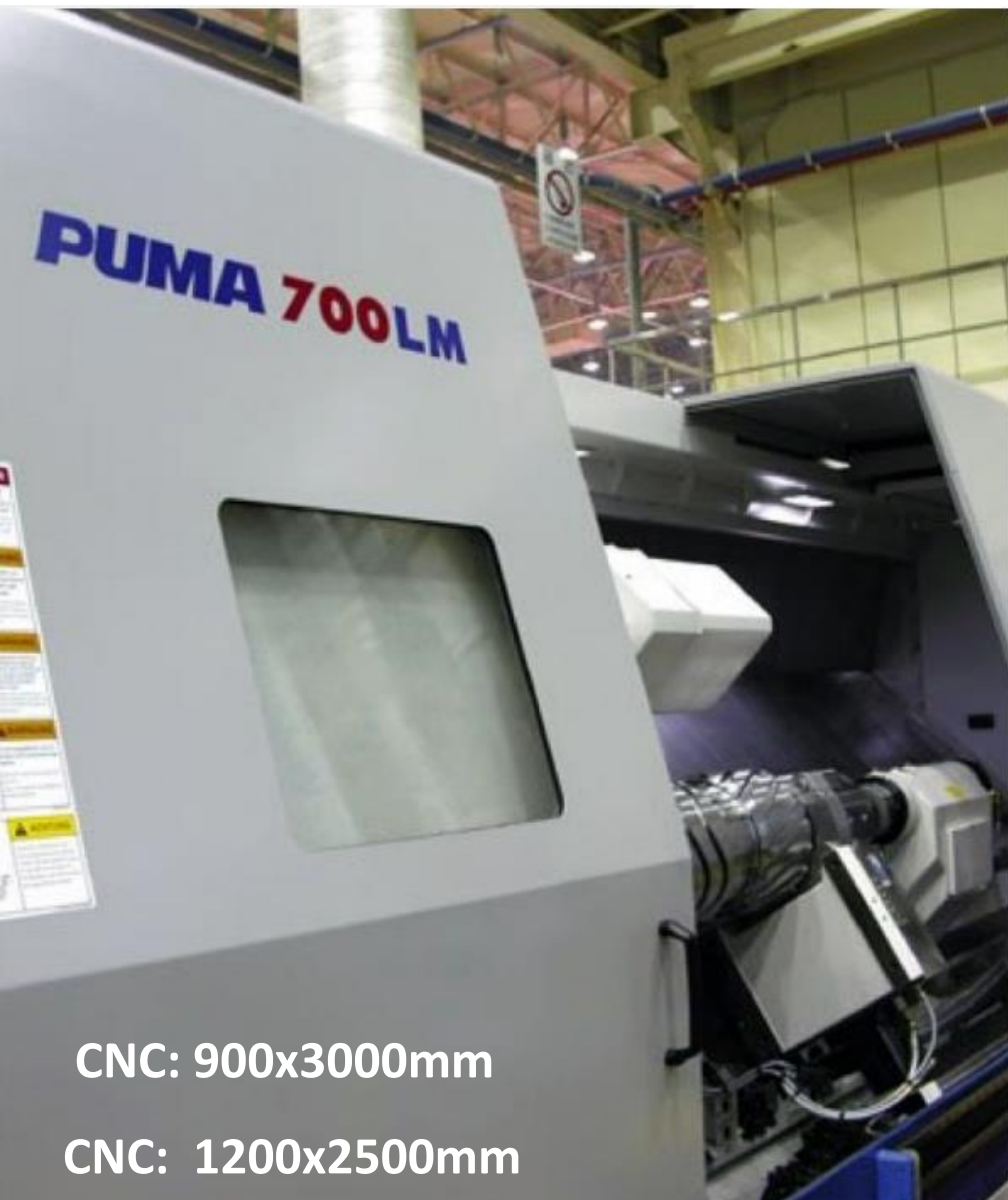


LATHE (shop 1): diam.2000mmx 5000mm (I)

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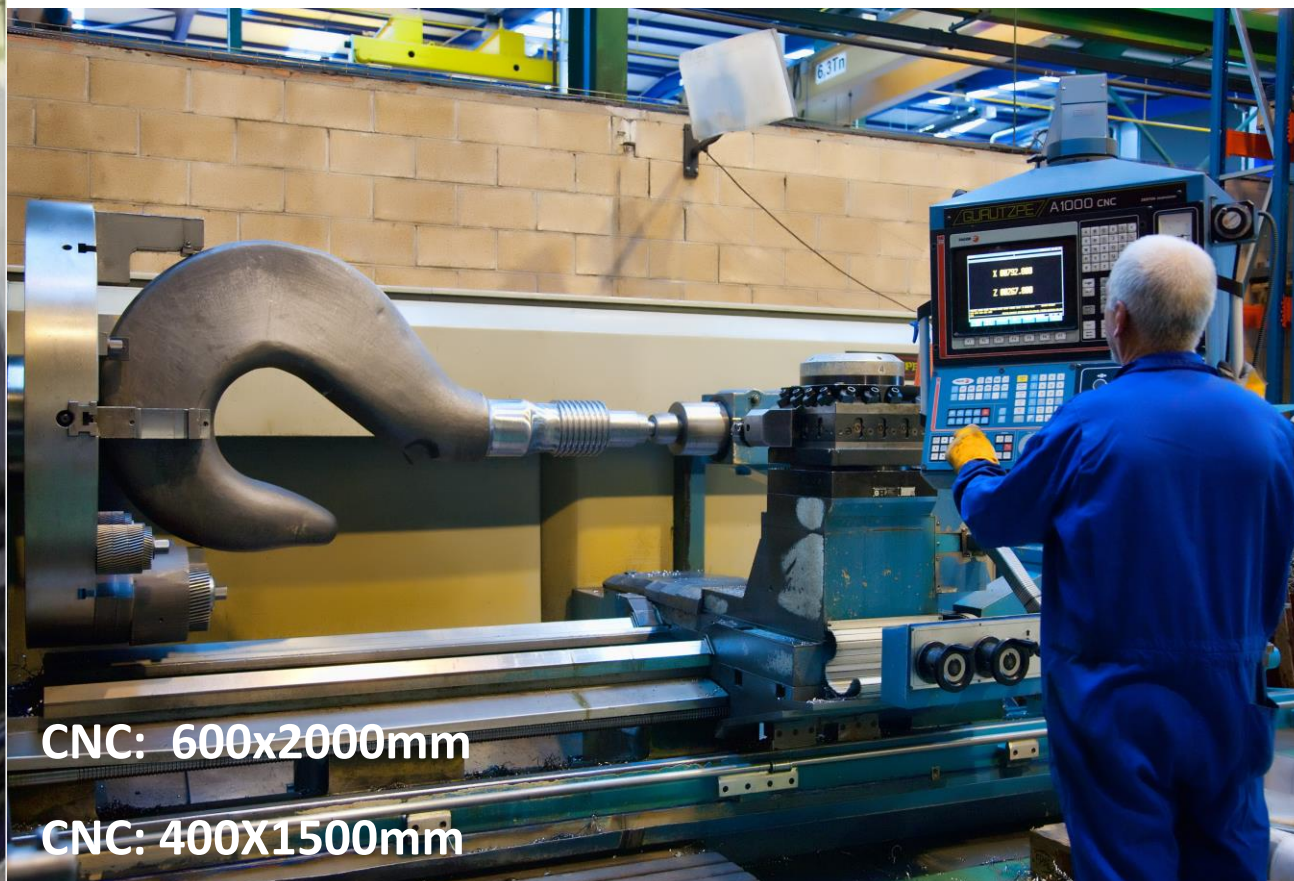
MACHINING

Lathes (Shop 2):



CNC: 900x3000mm

CNC: 1200x2500mm



CNC: 600x2000mm

CNC: 400X1500mm



TESTING



Separate building for inspections: 1.100m²

Calibrated MACHINERY & LAB USED FOR TESTING:

NDT inspections: 2 cabins with equipment for MT (Magnetic) & UT (Ultrasonic) Testing

DT inspections (mechanical testing): Lab for tensile (300kn) & charpy machines (300J to -40°C)

3 PLT & MBL Test Benches

- 100t horizontal bench
- 2000t horizontal bench
- 3000t vertical hydraulic machine

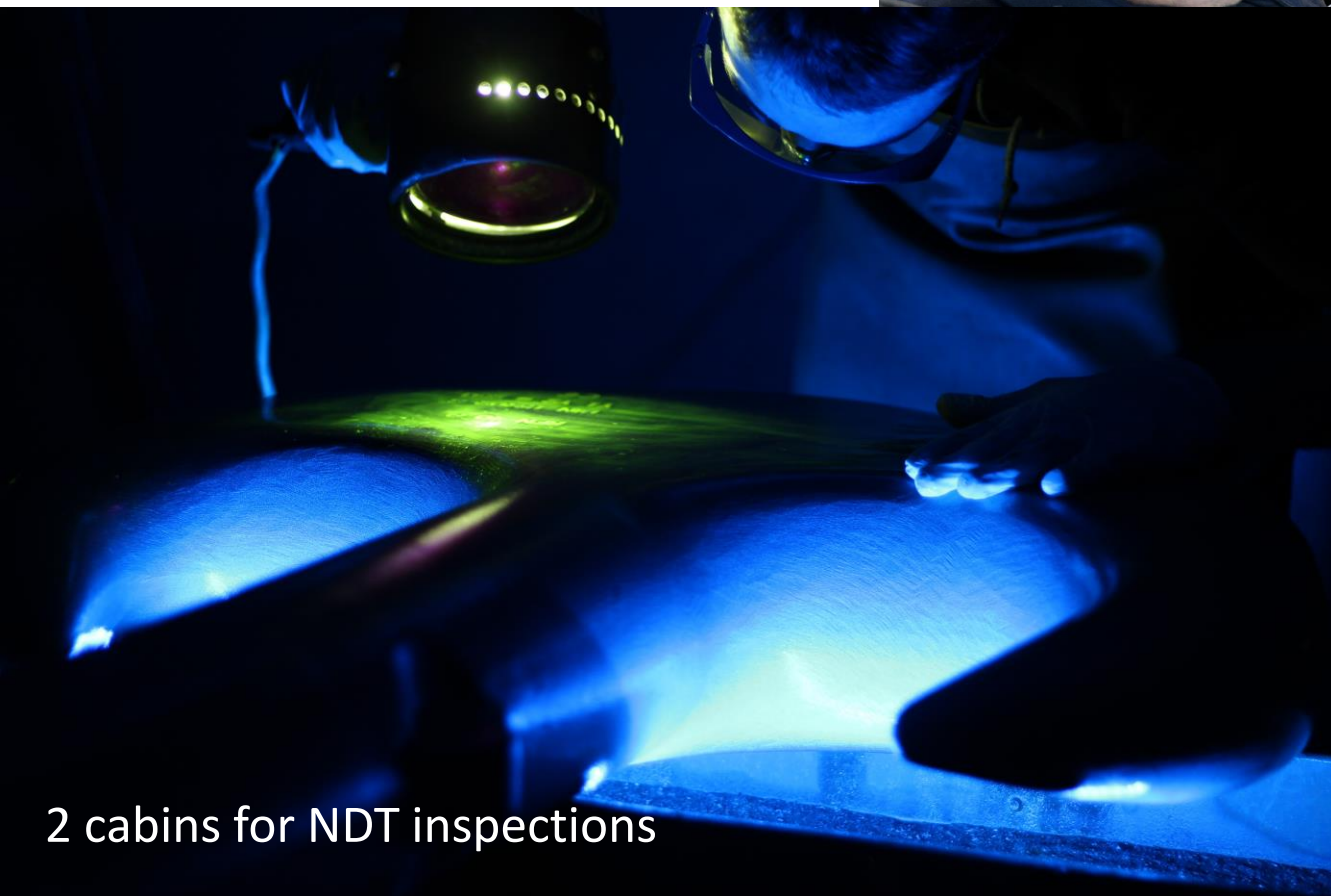


4

TESTING



3 UT test stations



2 cabins for NDT inspections

4

TESTING

DT inspections (mechanical testing): Lab for tensile (300kn) & charpy machines (300J to -40°C)






Load Test Bench (horizontal): 100t (2800x 500mm)

4

TESTING



Load Test Bench (horizontal): 2000t (6000mm length x 2100mm width)



Load Test Bench (vertical): 3000t (3800mm length x 500mm width)

Separate building for coating: 800 m²

MACHINERY USED for regular, offshore & subsea painting schemes:

- Painting equipment
- Coat testing

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COATING

Equipment used for painting for large
Products (32t weight suspended):

Cabine (4000w x 5000h mm)

Drier (3800w x 4000h x 7000(l)mm)

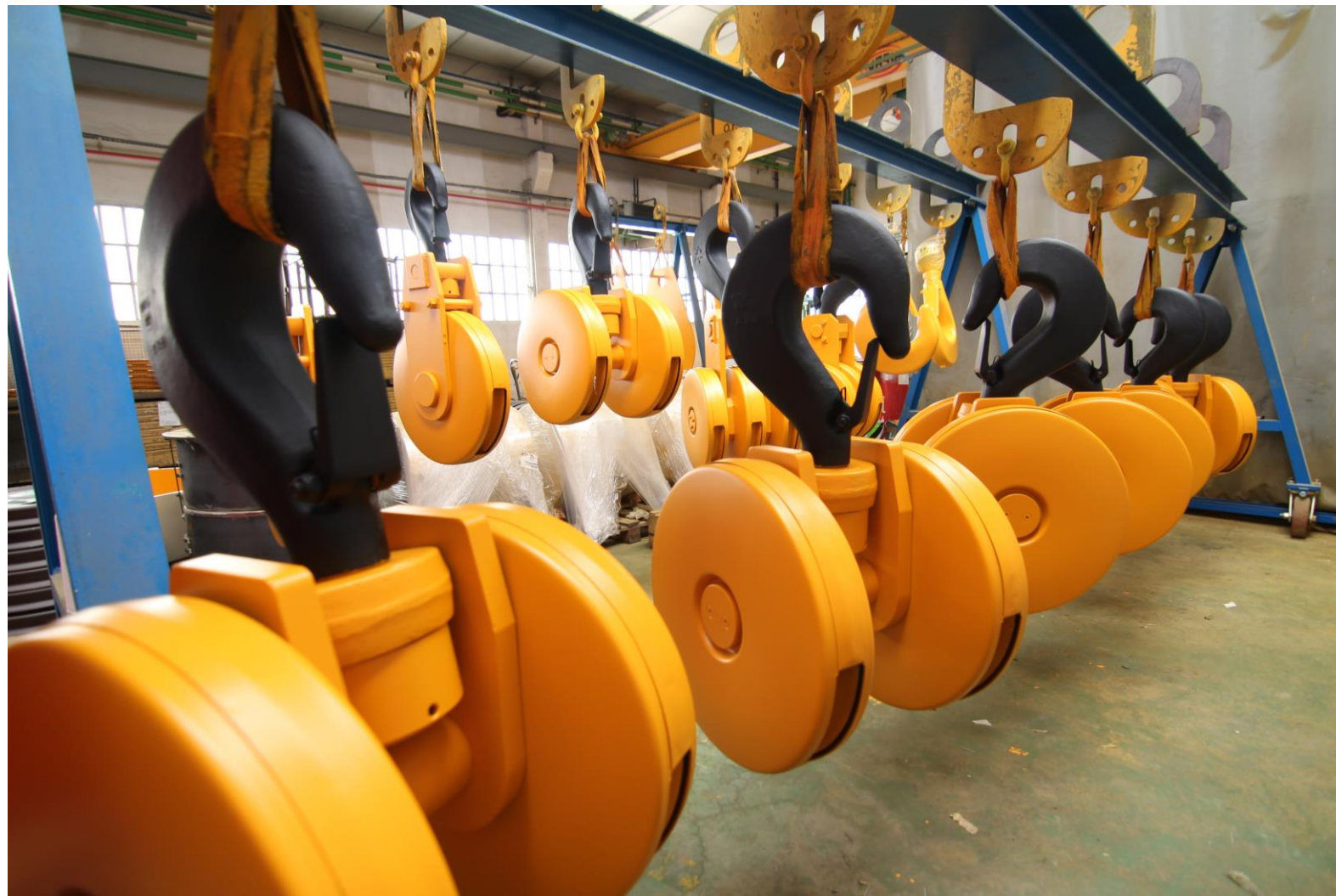


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COATING

Equipment used for painting for regular products:

Serial carrusel Cabine



Equipment used for coat testing: thickness control



World Class facilities

Company & activity certified by the major class societies for Design, Production & Testing followed by **Lifting, Rigging & Mooring Rules** for **Industrial, Naval, Offshore & LTM Mooring Apps**



Sistema de
Gestión
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

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Lloyd's
Register



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ESG: Environmental, Safety & Governance

Company leaded by international rules & standards



ISO9001
(2000)



ISO14001
(2002)



ISO45001
(2018)



ISO50001
(2023)



Company accounts audited by big4 firm Ernst & Youth
Social responsibility & Code of Conduct in place

XXXXX

xxxxx Sales Manager
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IN FORGE WE TRUST

