

METAMORFOSI EVOLUTIVE DI UN PRODOTTO TRADIZIONALE

COME ADATTARSI ALLE NUOVE
ESIGENZE DEL MERCATO

Ing. Pietro de Michieli
Chief Operating Officer
Bedeschi Spa

THE COMPANY



Diversification



- Heavy Clay Industry
- Bulk Materials
- Marine Logistics
- Mining

Engineering



- Feasibility study
- Basic engineering
- Complete green field/turn key installation

Workshop



- All manufacturing carried out in the Company state-of-the-art workshop in Italy

100 Years Young



- Complete quality control
- Highest product reliability

ORGANIZATION



CTP **CONT**



**BEDESCHI
HANDLING**



BEDESCHI

Bulke **L**ogistic **L**andmark
edeschi Lieberr Logmarin

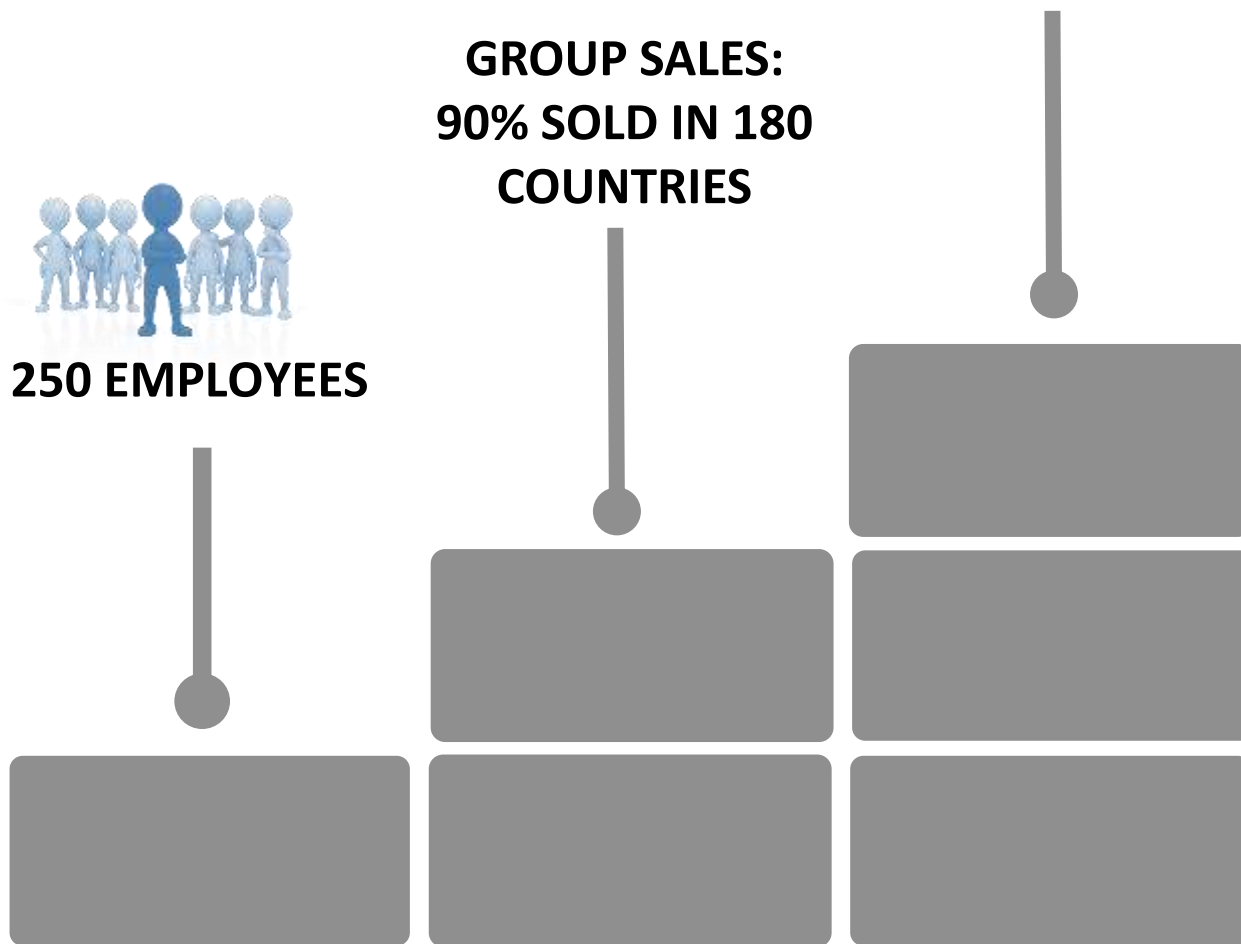
THE GROUP



**MORE THAN 50,000 M2 OF
COVERED MANUFACTURING
FACILITIES**

**GROUP SALES:
90% SOLD IN 180
COUNTRIES**


250 EMPLOYEES



BEDESCHI WORLDWIDE ALLIANCE



Bulk **L**ogistic **L**andmark
edeschi Lieberr Logmarin

HEADQUARTER



WORKSHOP



WORKSHOP



Spot the differences....



VS

Spot the differences....



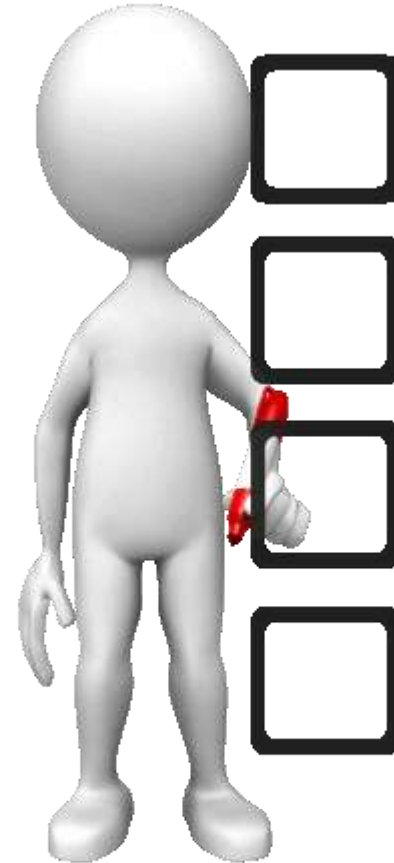
VS



Spot the differences....



1. Environmental Data
2. Mechanical Components
3. Geometrical Dimensions
4. Painting Cycles



General Overview



Type of Vessel to
be Loaded

SHIPLOADER LUFFING
AND TELESCOPIC

SHIPLOADER
SLEWING LUFFING
AND TRAVELLING

SHIPLOADER LUFFING
TRAVELLING

Type of Product
& Capacity

CONVEYOR DESIGN
TYPE

LENGTH/WIDTH/
INCLINATION

Hold Filling &
Environment

LOADING CHUTE
DETAIL

JETTY HIGH SPEED
CONVEYOR

Shiploader Slewing Luffing and Telescopic

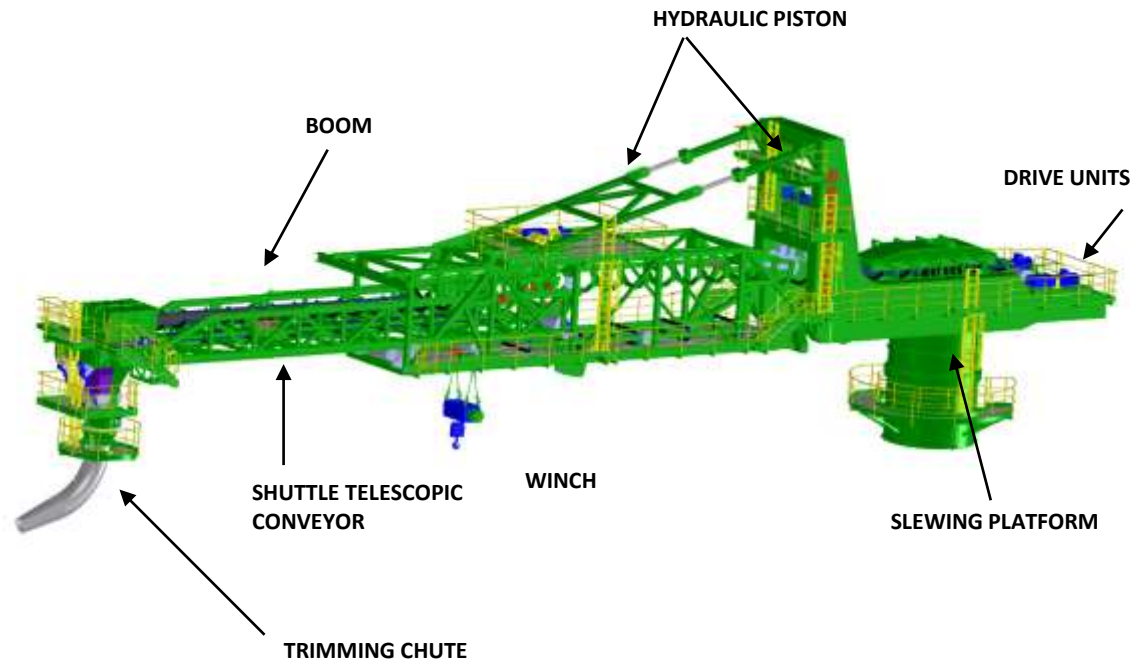


Type of Vessel to
be Loaded

SHIPLOADER SLEWING
LUFFING AND
TELESCOPIC

SHIPLOADER SLEWING
LUFFING
AND TRAVELLING

SHIPLOADER LUFFING
TRAVELLING



Shiploader Slewing Luffing and Telescopic



Shiploader Slewing Luffing and Travelling

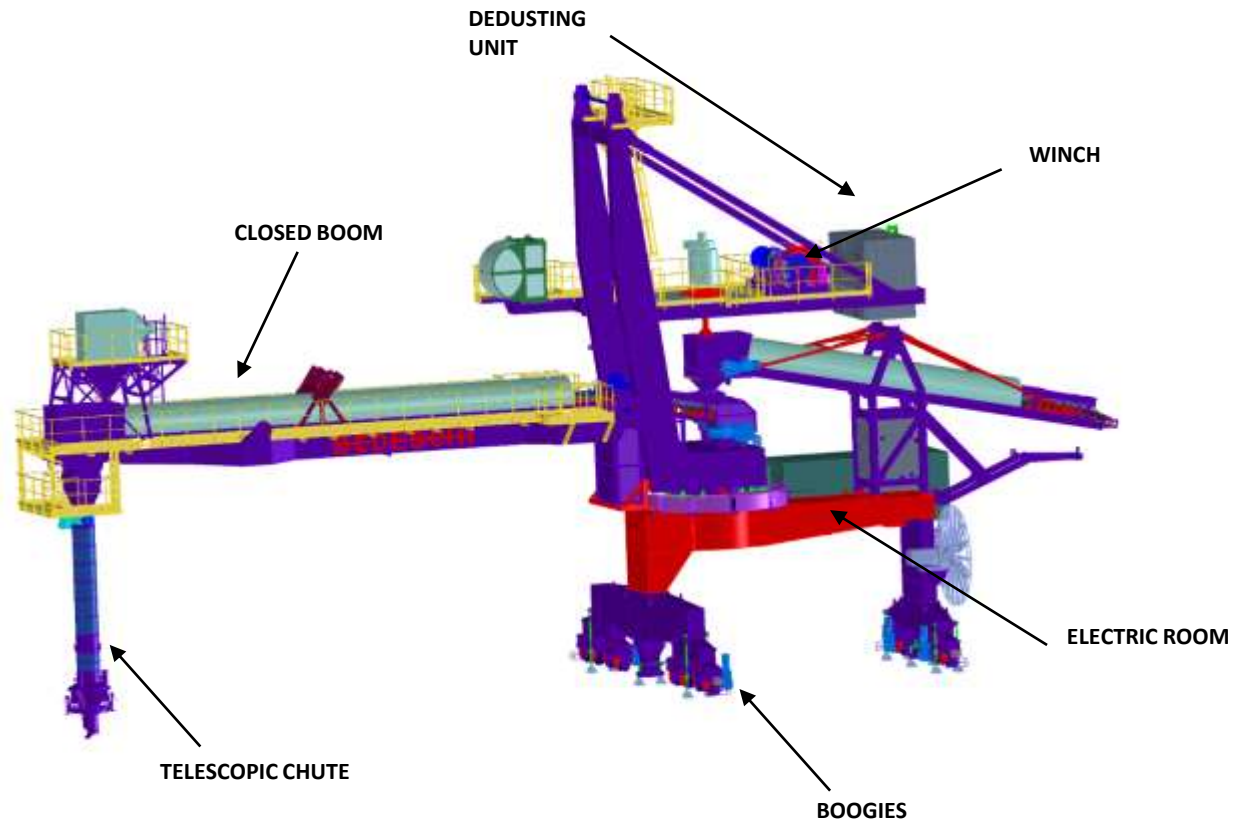


Type of Vessel to be Loaded

SHIPLOADER LUFFING AND TELESCOPIC

SHIPLOADER SLEWING LUFFING AND TRAVELLING

SHIPLOADER LUFFING TRAVELLING



Shiploader Slewing Luffing and Travelling



Shiploader Luffing and Travelling

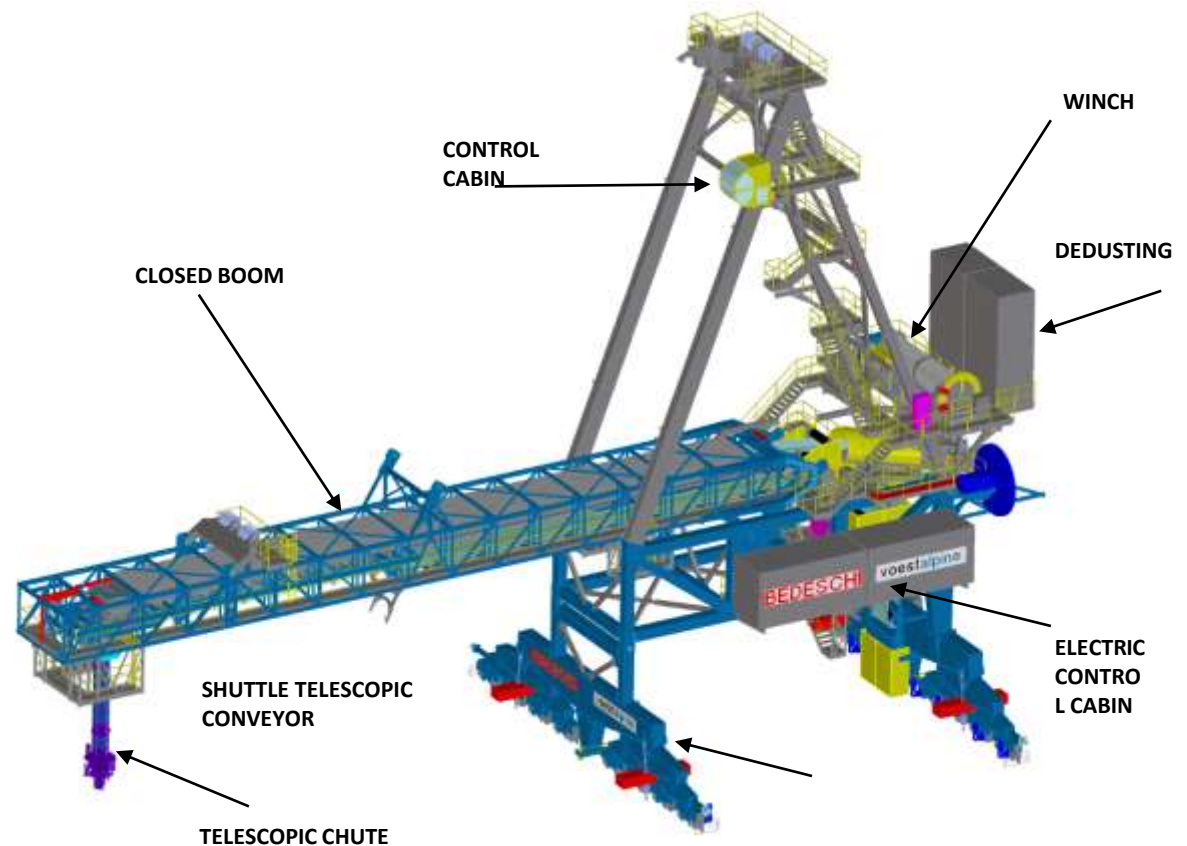


Type of Vessel to be Loaded

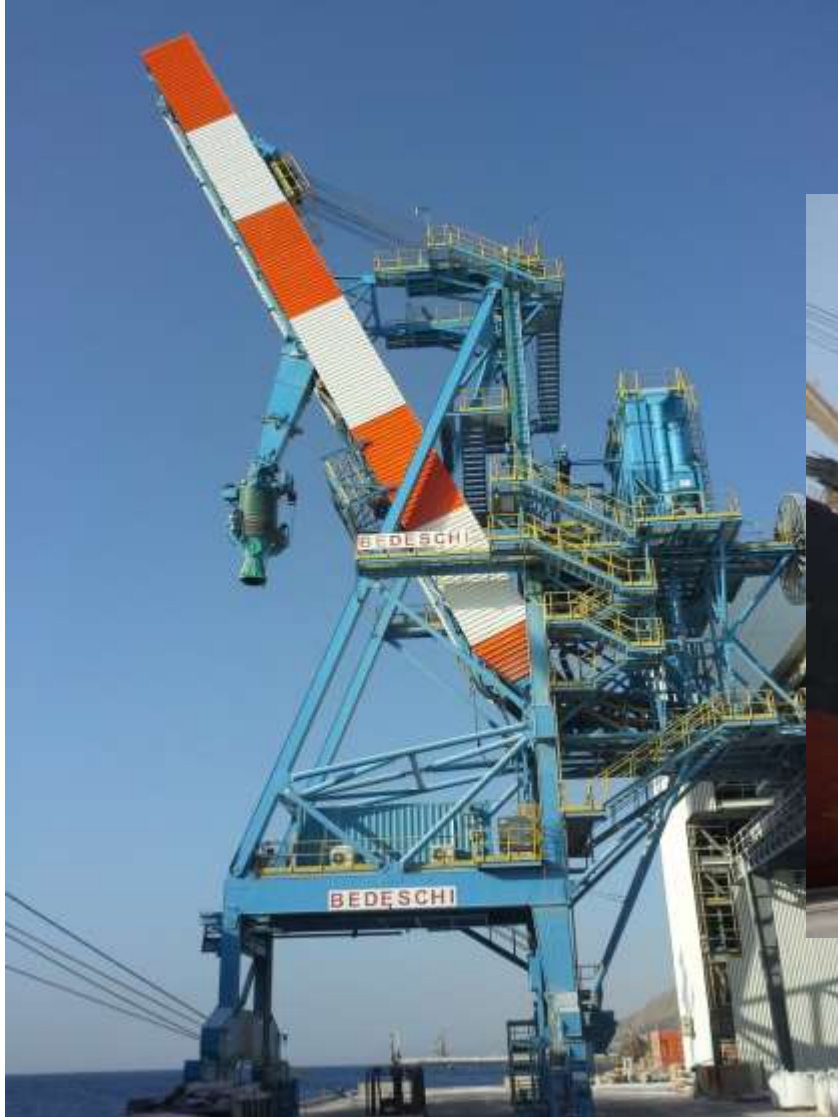
SHIPLOADER SLEWING
LUFFING
AND TELESCOPIC

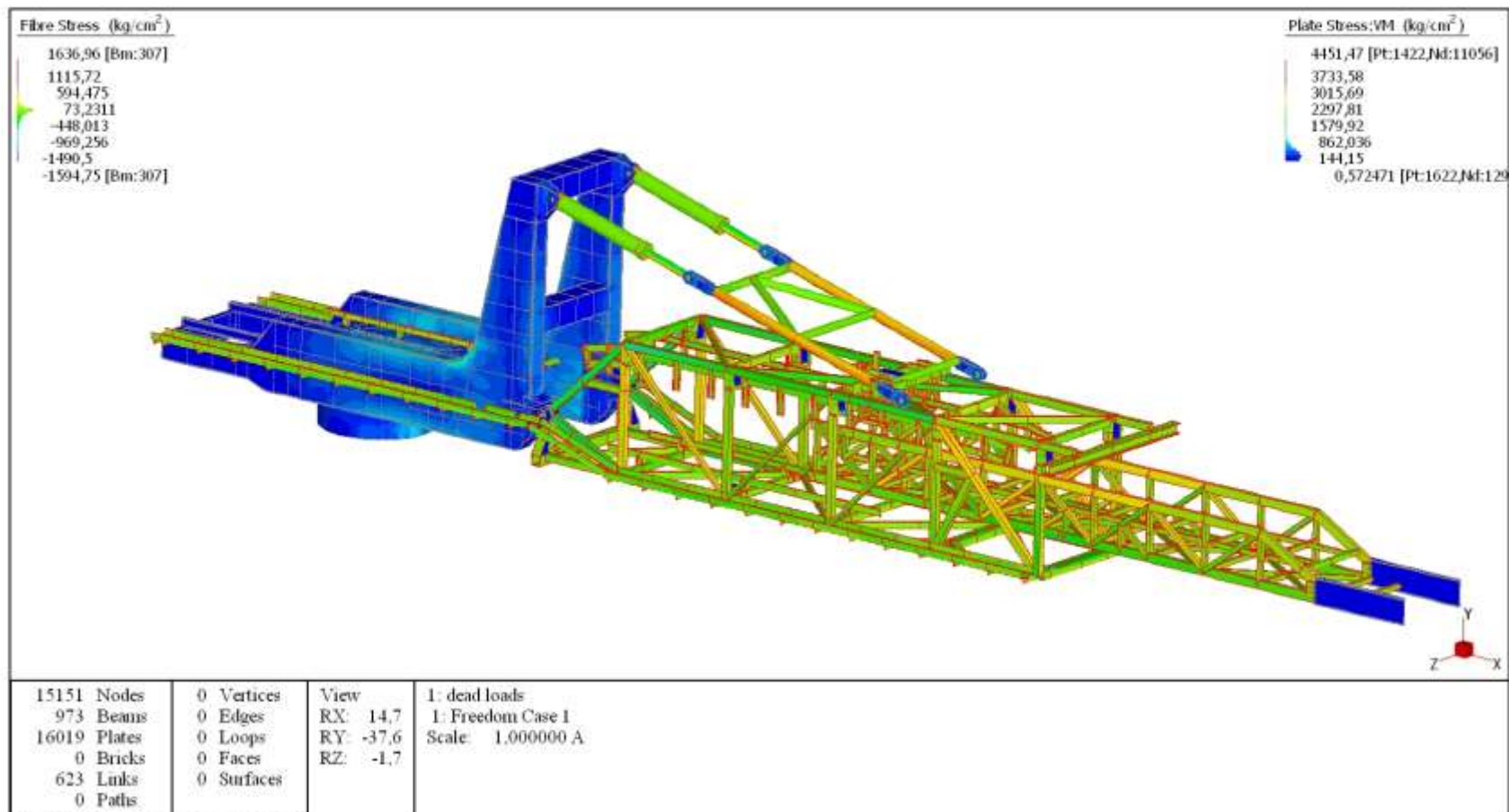
SHIPLOADER SLEWING
AND TRAVELLING

SHIPLOADER LUFFING
TRAVELLING



Shiploader Luffing and Travelling





Struwin7 R2.4.3 (Licenced to BEDESCHI SPA - LIMENA (PD))

Model file: H:\STUDIO\PRINCESS CHLOE\SHL_40_1600\CARICATORE_studio_definitivo.r7

Result file: H:\STUDIO\PRINCESS CHLOE\SHL_40_1600\CARICATORE_studio_definitivo.r7

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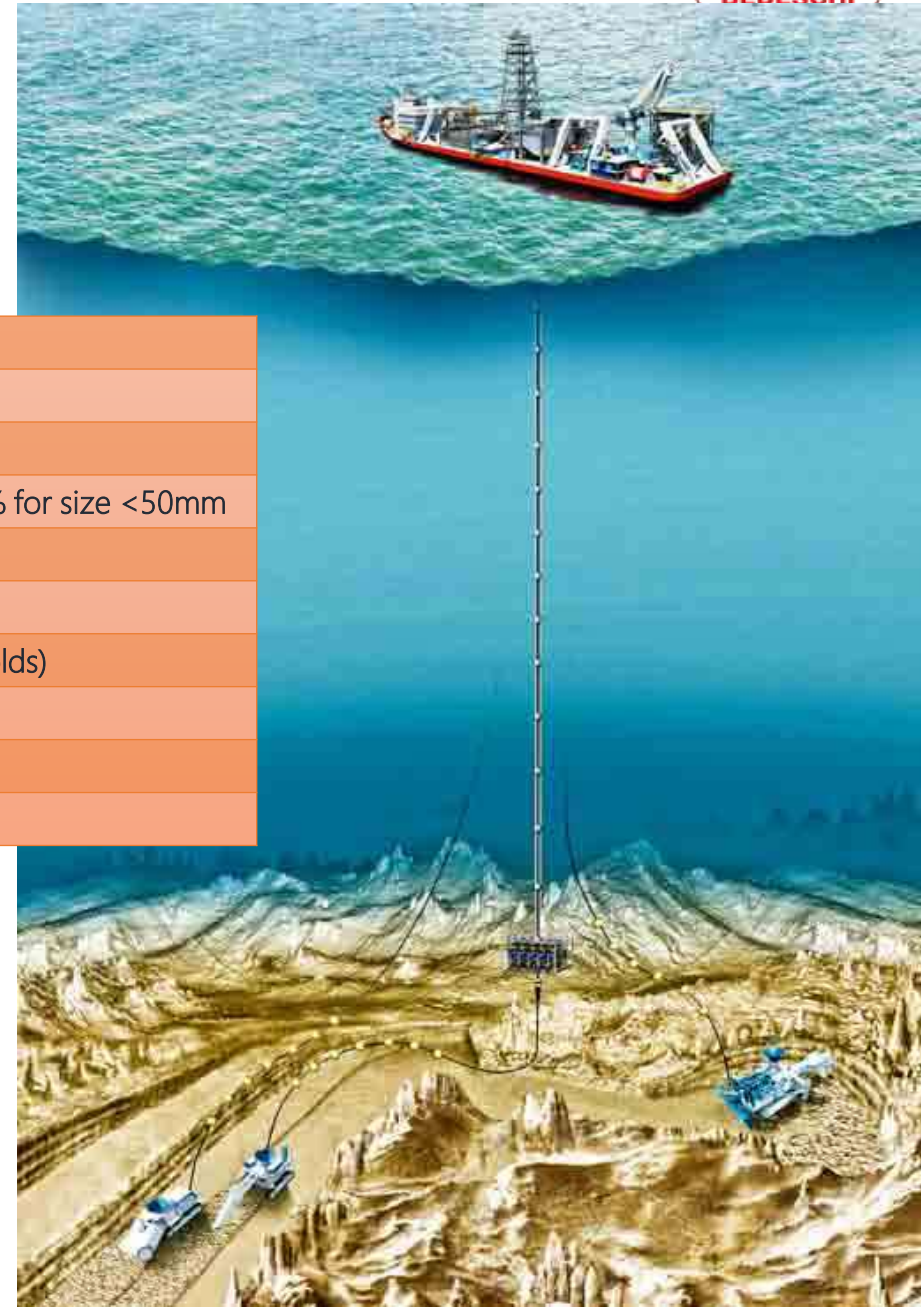


Case Study Nautilus



Case Study Nautilus

Material	:	ORE
Bulk density	: t/m ³	1,8 - 2,6
Material size	: mm	0 to 50 mm
Percentage size	: %	80% for size <25mm; 100% for size <50mm
Moisture content	: %	10
Angle of repose	: °	38 – 40
Total stored volume	: m ³	Approx. 5150 x 4 (no. of holds)
Stacking capacity	: t/h	400 dry
Reclaiming capacity	: t/h	800 dry
Ship loading capacity	: t/h	1600 dry



Case Study Nautilus



Case Study Vale



Case Study Vale



ORE FABRICA: THINKING BIGGER

Location: Philippines

Commissioned: February 2012

The challenge: Chinese authorities prevented Valemax (largest ore carrier ever built) to enter their ports.

How to discharge such giant vessels at delivery stage?

The solution: Ore Fabrica

- One year only from concept to operation
- 5 MPG cranes
- 5,000 tph trans-loading capacity
- 284,000 tons buffer storage
- 9,700 kW installed power



Case Study Vale

NEW IRON ORE TRANSHIPMENT AND CONVEYOR SYSTEM

The cargo handling system of the OFT is sized and designed for the main purpose to transfer Iron Ore by means of heavy duty cranes and conveyor belt system, from large ore carriers up to 400.000 DWT to bulk carrier up to cape size.

- ✓ Conveyor system to be designed for continuous heavy duty operations.
- ✓ Reference drawing for the offer is our ref.: VP-200.959 rev. 3
- ✓ The metric system will be used as measuring unit, standard such as ISO FEM DIN and VDE will be observed for Cargo Handling plant.

Nominal convey capacity used for design criteria is:

- | | |
|---|--------------------------|
| ✓ Fixed conveyors, related machinery and Ship-loader: | 5000 t/h |
| ✓ Will be calculated for iron ore handling, with specific density | 1,8-2,4 t/m ³ |
| ✓ Hoppers, belt feeders | 1500 t/h |

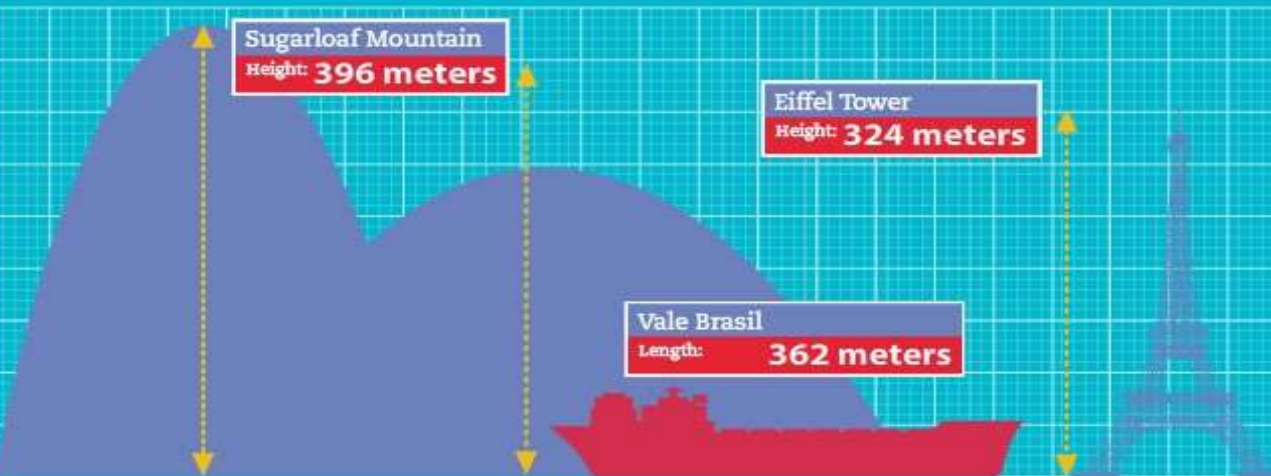
The value of 1,8 t/m³ will be used for volumetric design of conveyors, while the value of 2,4 t/m³ will be considered for power calculation and max stress design parametres.

- | | |
|-------------------|----------|
| ✓ Design capacity | 6000 t/h |
|-------------------|----------|

Case Study Vale



Compare



To get an idea of the length of a vessel like the Vale Brasil, the world's largest, two world landmarks can be used as a reference.

[More comparisons](#) ▶

Home

Technical Data

Operational
Efficiency

Competitive
Logistics

Compare

Differentials



Case Study Vale

Which are the differences?



Side Tripper

1 single travelling
luffing and rotating
shiploader 6000 t/ph

Optimized transfer point design
Full set belt cleaners
Standardized belt motors
Antiwearing plates on transfer point



2 luffing and rotating
shiploader 3000 t/ph each

Adjustable flow
deviator

Questions?

