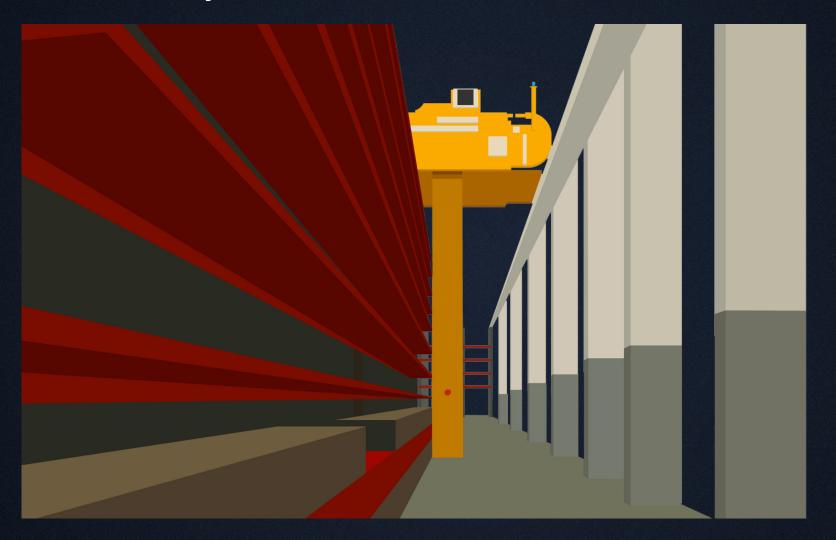




Case history 01







Type of crane: N°1 Bridge Crane with forks

Functionality: Automatic - Semiautomatic - Manual

Use: Automatic handling and storage of steel bars and boxes

Location: Italy















Drive Technology on Board:

Siemens Sinamics – Regenerative Solution Profinet/PROFIsafe Communication

Hoist:

N°1 AC motor (75kW) controlled from N°1 drive Siemens Sinamics G120 PM250 (178A)

• Bridge:

N°4 AC motors (11kW each) controlled from N°1 drive Siemens Sinamics G120 PM250 (110A)

• Trolley:

N°2 AC motors (4kW each) controlled from N°1 drive Siemens Sinamics G120 PM250 (32A)

Drive Technology on Ground for conveyors and shuttle
Siemens Sinamics – Standard Solution with G120 PM240
Profinet/PROFIsafe Communication





Control Technology:

PLC Siemens S7-1515 for Operating Function of the crane with remote I/O ET200SP inside electrical cabin and electrical remote I/O (on Trolley – on pallet fork)

PLC Siemens S7-1515 for Operating Function of the converyors and shuttle machine with remote I/O ET200SP inside the control desk

Positioning Control:

N°1 Absolute laser encoder for Trolley and Bridge;

N°1 Absolute wire draw encoder for Hoist

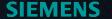
N°2 Absolute rotary encoder for functional safety;

Supervision Technology:

Siemens Simocrane CMS – developed based on WinCC Professional SCADA 7.4 Visual studio 2017 for automation and management Warehouse functions SQL Server 2012

Communication Technology:

Wireless between Crane controller and bays controller Optical Fiber between PLC and CMS



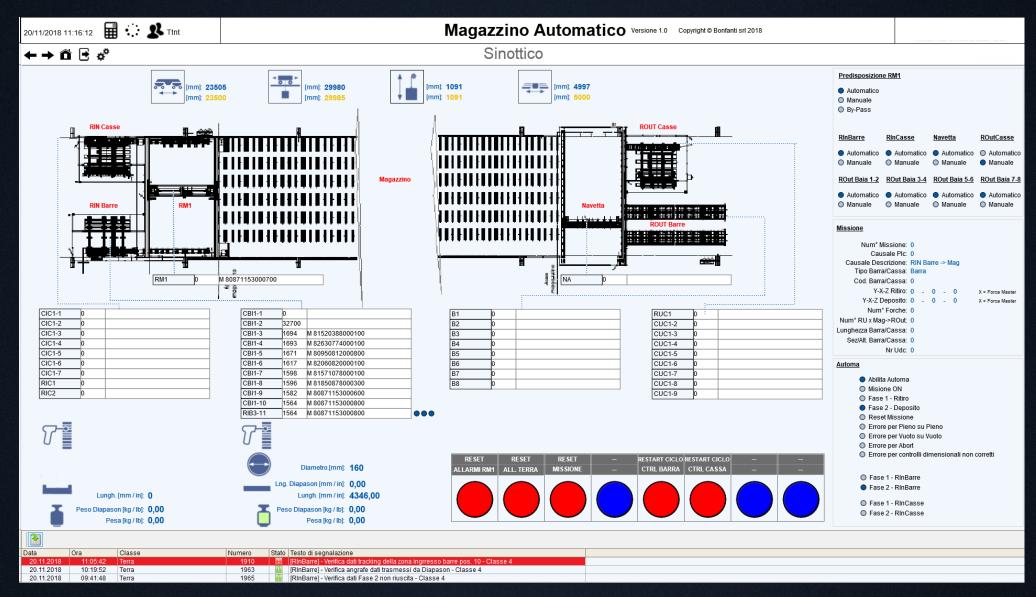














Our activities:

- Electric boards engineering
- Electric boards assembling & wiring
- Software PLC engineering & development
- Software PC engineering & development
- Electrical & Software commissioning
- Post sale assistance





<u>Thank You</u>

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