

MST



**MARINAS AND SHIPYARDS
MOBILE STRADDLE TRANSPORTER**



CIMOLAI Technology® spa
Special Equipment

LAYOUT

Customized machine's dimensions and features to meet the customer's requirements

ELECTRONIC STEERING SYSTEM ON ALL WHEELS

Achieved via heavy duty slew drives equipped with hardened worm-gears and powered by hydraulic motors. Automatically controlled by a PLC, the system allows 6 different steering configurations, including the PATENTED concentric 360° steering

EQUALIZING SYSTEM FOR UNEVEN TERRAIN

Pivot trunnion or hydraulic suspension to cope with antithetic slopes or uneven surfaces allowing the machine to work always in isostatic conditions

EXTENDED WIRE ROPE LIFE

Longer service life and duration of the wire ropes thanks to:

- increased number of load-bearing sections and optimized wire rope diameters;
- constant clockwise/counter-clockwise spooling;
- grooved winch drums with maximum 2 winding layers

LIFTING WINCHES

Independent and synchronized hoisting winches
Possibility to have 2 or 4 independent lifting points to level the load along any direction

OIL FILTRATION SYSTEM

Hydraulic circuit for lifting and travelling: 10 micron
Oil tank recirculation: 5 micron

PAINTING

High-performance anti-corrosion coating for long-term protection, suitable for aggressive and corrosive environments

PIPES AND FITTINGS

Galvanized steel pipes with additional high-performance anti-corrosion coating. Fittings with high performance zinc-nickel long-term treatment against corrosion

PULLEYS

Pulleys in high-resistance material with 2 rows of cylindrical roller bearings for extended duration, light weight and corrosion resistance

REMOTE ASSISTANCE AND DIAGNOSIS

In-house developed software and GSM or Wi-Fi connection to supervise the machine status in real time from our after-sales office and promptly assist the customer's operators on site

REMOTE CONTROL

Lightweight and ergonomic wireless remote control with colour display for machine diagnosis and lifted load visualization

WEIGHING SYSTEM

With dedicated load cells to display the total weight as well as the weight lifted by each lifting line

EMERGENCY CONTROLS

Wired emergency control
Manual hydraulic distributors on the power unit

HYDROSTATIC WINCH DRIVE

The hydrostatic drive-powered 2-speed winches are controlled via hydraulic distributors with LSS - Load Sensing System for extremely precise synchronization, and extended service life (lower oxidation) of the hydraulic oil

LIFTING TROLLEYS

Trolleys moving along the top beam(s) to displace the max load and perform the ship blocks' rotation operations

PIVOTING HOOKS

Turning hooks with under-spreaders, comprising a central pivoting hook and side hooking points to allow for ship block rotation

STRUCTURE

100% manufactured in CIMOLAI's workshops in Italy, steel plates come exclusively from primary European Companies. The structure is designed as per the latest FEM and UNI EN standards and is made of box girders with inner stiffening elements, optimizing the structural resistance



RUBBER TIRES

Suitable for heavy-duty work conditions.
Air inflated, water or foam filled

POWER UNITS

Sound-proofed power units with large inspection lids for easy access and maintenance

OPERATOR INTERFACE

User-friendly touchscreen display in a rugged IP65/IP66 enclosure, placed on the power unit for onsite machine setting and diagnosis

HYDROSTATIC WHEEL DRIVE

The hydrostatic 2-speed drive ensures stepless speed control for highly sensitive and smooth operations. Engine rpm is reduced, resulting in optimised fuel consumption. Each wheel is independently driven, improving the manoeuvrability and reducing wear and tear of each tyre

OPTIONAL

MAINTENANCE ACCESS

Stairs, ladders and catwalks for easy access during maintenance operations and to give the operator the best view over the activities being carried out and the load's movements
Elevator to reach the machine's top

COMMAND POST

Different solutions available:

- Command cabin(s): possibility of multiple command cabins installed to have full view of the machine
- Open cockpit

ELECTRIC DRIVE

Full electric drive machine with zero emission and guaranteed power

HYDRAULICALLY ADJUSTABLE TRACK

Telescopic transversal beam(s) to vary the machine's track

LED LIGHTS

Work lights for low light conditions

STAINLESS STEEL PIPES AND FITTINGS

AISI 316L stainless steel pipes with zinc-nickel treated fittings



Turning hooks with under spreaders

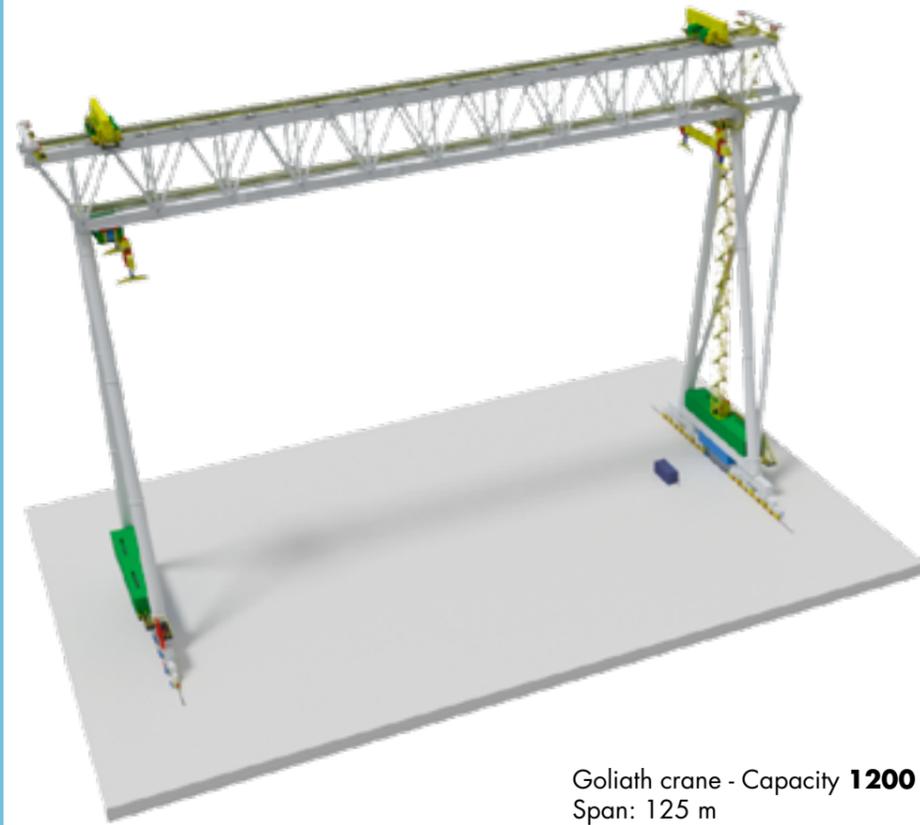


Electronic steering system on all wheels

Capacity: **1000 t**/each
ITALY



Capacity: **320 t**
ITALY



Goliath crane - Capacity **1200 t**
 Span: 125 m
 Height under hook: 75 m
 Truss frame

Goliath crane
 Capacity: **320 t**
 ITALY



Capacity: **160 t**
 ITALY
FULL ELECTRIC



Operator interface

CERTIFICATIONS



CIMOLAI Technology® spa
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Cimolai Technology SpA headquarters span a **total area of 53,000 m² - 22,000 m²** of which are fully covered and used as fabrication area and offices.

The company can count on all services required by a dynamic and constantly growing firm and is based in Carmignano di Brenta (Province of Padua), Italy.



Armando Cimolai
Centro Servizi s.r.l.

The steelworks for Cimolai Technology SpA are fabricated by **Armando Cimolai Centro Servizi**, a factory in San Quirino (PN) – Italy **that occupies an overall area of 180,000 m²**, of which 60,000 are fully covered.

