

Trolleys moving along the top beam(s) to displace the max load

STRUCTURE

100% manufactured in CIMOLAI's workshops in Italy, steel plates 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

Structures prearrangement for



A. DOUBLE-GIRDER VERSION with two beams on which the lifting trolleys (2 - one per beam; or 4 -

Available as:

two per beam) move; a wide range of spreaders (for beams, segments or other concrete elements) can be applied **B. SINGLE-GIRDER VERSION**

with a single girder on which one or both trolleys move. This system is also suitable to be used in tandem to transport beam elements

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

LAYOUT

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

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

PIPES AND FITTINGS

Galvanized steel pipes with additional high-performance anticorrosion 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 CONTROL

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

OPERATOR INTERFACE

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

EMERGENCY CONTROLS

Wired emergency control Manual hydraulic distributors on the power unit

STANDARD STEERING SYSTEM

Achieved via hydraulic cylinders on 2 or on 4-wheel groups following the Ackermann principle

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

RUBBER TIRES

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

POWER UNIT

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

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



easy future width and height modification



COMMAND POST

Different solutions available: - Command cabin(s): possibility of controlled-temperature heating or air-conditioning systems - Open cockpit

ELECTRIC DRIVE

Full electric drive machine with zero emission and guaranteed power

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

HYDRAULICALLY ADJUSTABLE HEIGHT

Telescopic legs to vary the machine's height (with load suspended) and then fit into shed doors and provide alternative / additional lifting stroke

HYDRAULICALLY ADJUSTABLE TRACK

Telescopic transversal beam to vary the machine's track (with load suspended) and then fit to different dock spans, to enter shed doors and to optimize parking space

LED LIGHTS

Work lights for low light conditions available upon request

MAINTENANCE ACCESS

Stairs, walkways and ladders for easy access during maintenance operations

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

LIFTING SPREADERS

Wide range of spreaders for a better picking of the concrete elements.

Long, fixed and telescopic spreaders for beams. Compact, mechanical or hydraulic spreaders for segments. Customized spreaders as per the customer needs

WEIGHING SYSTEM

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

IN-LINE WHEELS

Wheel group transversal dimension reduction by means of wheels' alignment

STAINLESS STEEL PIPES AND FITTINGS

AISI 316L stainless steel pipes with zincnickel treated fittings









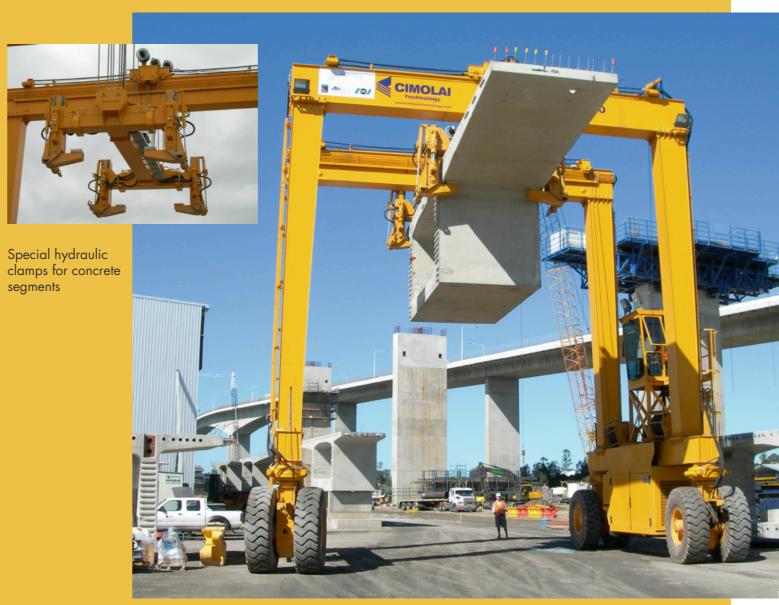
Capacity: **220** t/each PHILIPPINES Hydraulically adjustable height

N.2 units single girder version suitable to be used in tandem



Capacity: 160 t - THAILAND

Capacity: 160 t - QATAR - Single girder version





Capacity: **190** t UAE



Capacity: **150** t - AUSTRALIA



Capacity: 140 t - VENEZUELA



Capacity: **135** t/each - MEXICO N.2 units also suitable to be used in tandem









Capacity: **120** t/each MALAYSIA



Capacity: **120** t ITALY - Hydraulic telescopic spreader



Capacity: 100 t/each - USA

N.2 units suitable to work in tandem



Capacity: **100** t/each SPAIN N.2 units suitable to be used in tandem



Capacity: 100 t UAE



Capacity: 100 t/each - CANADA $\,$ - N.2 units suitable to work at -40°C



Capacity: 100 t - SPAIN

Capacity: 80 t - ITALY







Capacity: **50** t FRANCE





Capacity: **40** t/each HUNGARY N.2 units single girder version suitable to be used in tandem



Capacity: **30** t/each ALGERIA N.2 units single girder version suitable to be used in tandem



CERTIFICATIONS





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.





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.



www.cimolaitechnology.com www.cimolaicentroservizi.com