



CIVIL AND
CONSTRUCTION



CIMOLAI Technology® spa
Special Equipment



CIVIL AND
CONSTRUCTION



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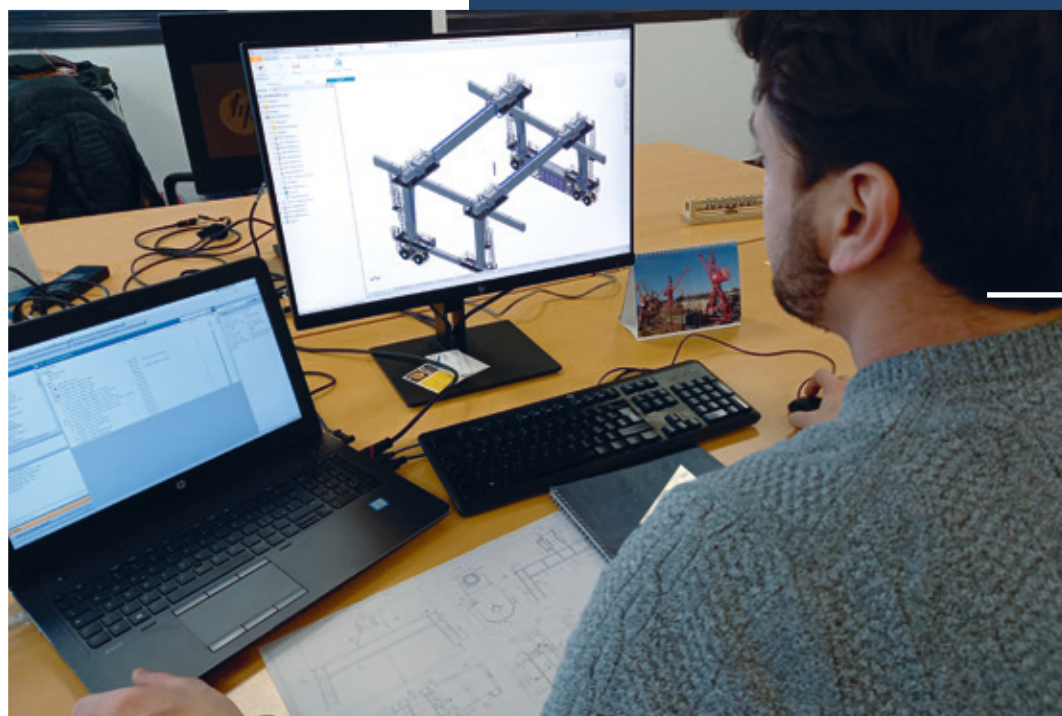
IN-HOUSE MANUFACTURE

All steps of the manufacturing process, from in-house design and modelling to development of the management software to fabrication of steel structures and assembly of the equipment elements, are fully handled by our team. Strict conformity tests are performed to guarantee that the project requirements are met, always in compliance with high quality standards. Our expertise, our well-proven skills and our know-how allow us to face each challenge and new market with targeted cutting-edge solutions.



TECHNOLOGY

Innovation is not just our goal, it is our starting point. At Cimolai Technology each single activity is meant to put high-tech solutions in place, our engineering being at the service of the Client. The various activities are strategically planned to define processes and working methods aiming at achieving a satisfactory final result. Our team of skilled engineers and highly trained technicians operate within an integrated system where sophisticated calculus tools and automated machines coexist to ensure our product's reliability.



CUSTOMIZATION


Our mission is to design and develop a product that responds to the Client's needs, because his requirements are at the root of our work. For this reason, we constantly propose breakthrough innovations with practical solutions that respond also to the most demanding needs. Our Clients are always involved in the interactive design development processes of our equipment, that often becomes a personalized product. We are firmly convinced that an active cooperation is to be preferred to a mere seller-buyer relationship.



PEOPLE



8
Administration
and Finance



40
Design and
Engineering



2
Information and
Communication Technology



10
Sales and
Marketing



5
Purchase



200
Workshop



5
Quality
control



3
Quality, Health,
Safety & Environment



1
Human
Resources



4
Production
and Logistics



5
After
Sales



283 TOTAL
EMPLOYEES

ANNUAL TURNOVER AND EQUIPMENT



PRODUCTS

Product	Percentage
Boom cranes	30
Launching systems	35
Mobile boat trolleys and flat-bed trolleys	42
Rail-mounted cranes	72
Mobile boat hoists	125
Mobile straddle transporters	153
Special projects	215

RESEARCH AND DEVELOPMENT

CERTIFICATIONS



SOFTWARE USED



ASSOCIATION

MEMBERSHIPS



FABRICATION PREMISES



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.

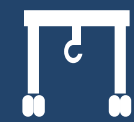


The steelworks for Cimolai Technology SpA are fabricated by **Armando Cimolai Centro Servizi**, a factory in San Quirino (PN) – Italy **that occupies an overall area of 180,000 m²**, of which 60,000 are fully covered.





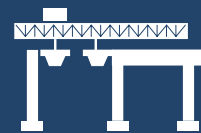
OUR MACHINES



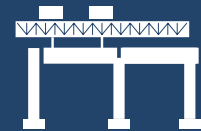
MST



RGC



SLG



BLG



CLD

MST MOBILE STRADDLE TRANSPORTER

Available as:

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

LIFTING TROLLEYS
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

BOLTED FLANGE
Structures prearrangement for easy future width and height modification

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



OPTIONAL

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 zinc-nickel treated fittings

MST

MOBILE STRADDLE TRANSPORTER



Capacity: **230 t**
SPAIN

TELESCOPIC

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



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



MST – MOBILE STRADDLE TRANSPORTER

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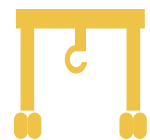
Capacity: **190 t** - UAE



Capacity: **160 t**
QATAR



Capacity: **160 t**
THAILAND



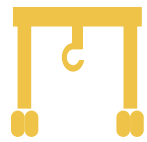
Capacity: **150 t**
AUSTRALIA



Special hydraulic clamps
for concrete segments



Capacity: **140 t**
VENEZUELA



MST – MOBILE STRADDLE TRANSPORTER

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Capacity: **135 t**
QATAR



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



Capacity: **130 t/each** - SPAIN



MST – MOBILE STRADDLE TRANSPORTER

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Capacity: **130 t/each** - USA
N.2 units also suitable to be used in tandem



MST – MOBILE STRADDLE TRANSPORTER

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Capacity: **120 t**/each - MALAYSIA



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



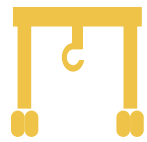
MST – MOBILE STRADDLE TRANSPORTER

CIVIL AND CONSTRUCTION

Capacity: **100 t/each**
USA



N.2 units suitable to work in tandem



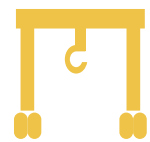
MST – MOBILE STRADDLE TRANSPORTER

CIVIL AND CONSTRUCTION

Capacity: **100 t** - SPAIN



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



MST – MOBILE STRADDLE TRANSPORTER

CIVIL AND CONSTRUCTION



Capacity: **100 t** - UAE

Capacity: **100 t**/each
CANADA
N.2 units suitable to be used at -40 °C





MST – MOBILE STRADDLE TRANSPORTER

Capacity: **80 t**
QATAR
Single girder version

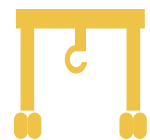


CIVIL AND CONSTRUCTION

Capacity: **80 t** - ITALY



Capacity: **80 t** - GREECE

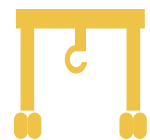


Capacity: **65 t**
SPAIN

Capacity: **50 t**
FRANCE



Capacity: **50 t**
SPAIN



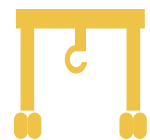
MST – MOBILE STRADDLE TRANSPORTER

CIVIL AND CONSTRUCTION

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



Capacity: **30 t** - ITALY



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



Capacity: **30 t/each**
GERMANY



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

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

LAYOUT

Customized crane's dimensions and features to meet the customer's requirements. The crane, which can have overhangs on one or both sides, can be available as:

-Double-Girder Version: with two beams on which the lifting trolleys (one or more) move

-Single-Girder Version: with a single girder on which one or both trolleys move. Solution suitable to be used in tandem to transport beams

PAINTING

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

DRIVE UNITS

Drive units provided with Variable-Frequency Drive (VFD) control

PULLEYS

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

LIGHTS

Work lights for low light conditions

REMOTE ASSISTANCE AND DIAGNOSIS

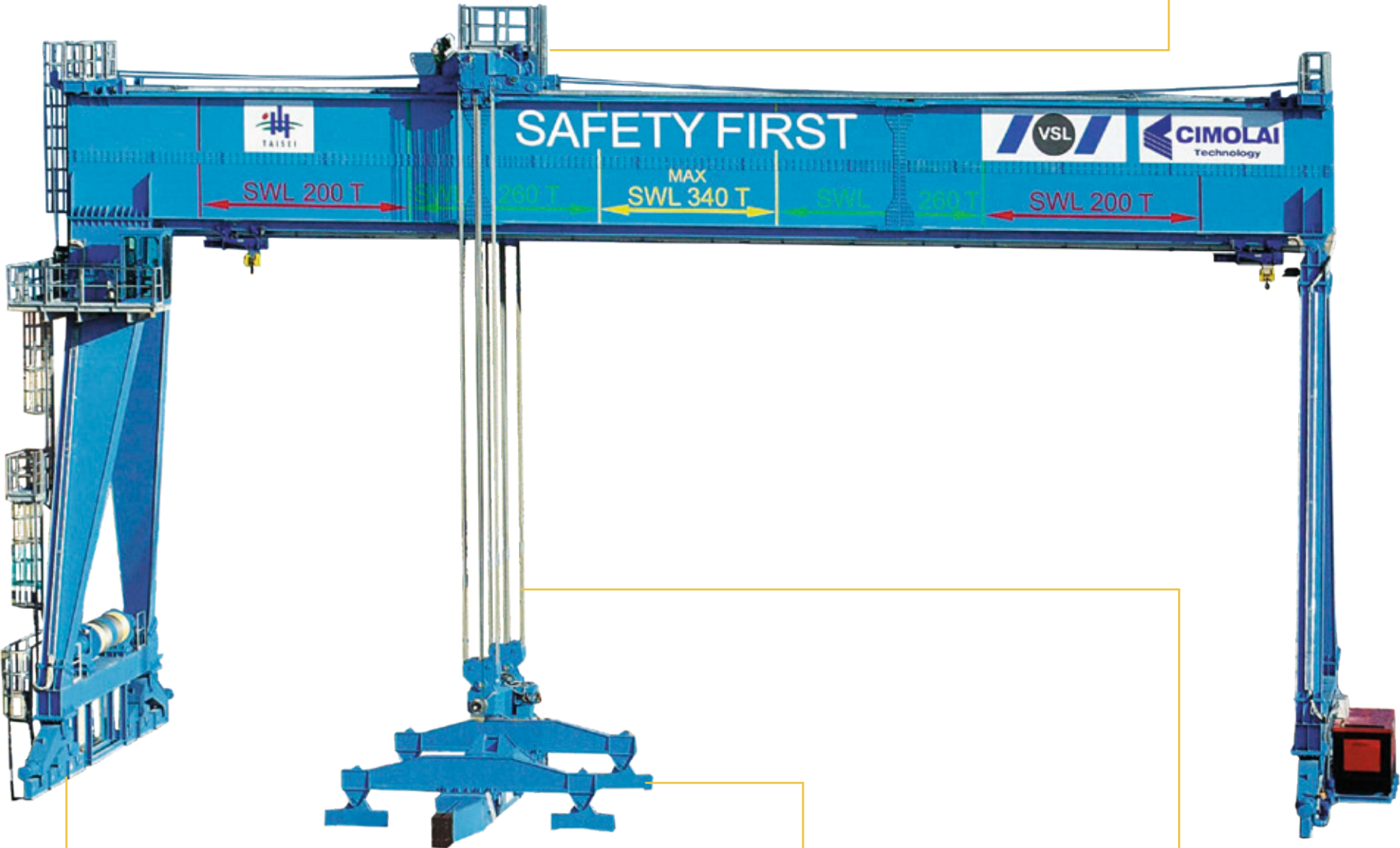
In-house developed software and GSM or Wi-Fi connection to supervise the machine status in real time from our after-sales office and promptly assist the customer's operators on site

REMOTE CONTROL

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

EMERGENCY CONTROL

Wired emergency control



LIFTING TROLLEYS

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

WHEELS

Double flanged forged steel wheels. Customizable wheel configuration and spacing to meet the wheel load and space requirements

CUSTOMIZABLE LIFTING SPREADERS

Wide range of spreader beams customizable for a more suitable lifting of the concrete elements and to meet the customer requirements, including digged material loading and unloading system when destined to shaft applications

EXTENDED WIRE ROPE LIFE

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

- constant clockwise/counter-clockwise spooling;
- grooved winch drums with 1 or 2 winding layers;
- increased number of load-bearing sections and optimized wire rope diameters

OPTIONAL

OPERATOR'S CABIN

Air-conditioned and positioned to ensure clear view of the load and handling area

CABIN/MAINTENANCE ACCESS

Stairs, walkways and ladders for easy access during maintenance operations

STORM CLAMPS

Remote hydraulically operated rail clamps to secure the crane when not in service

STOWAGE PINS

Mechanical locking devices inserted in "steel pockets" along the track to secure against movement during storm conditions

ANEMOMETER

Wind speed monitoring with indication in the operator's cabin or on the remote control

ANTI-COLLISION DEVICES

Radar and/or laser sensors to avoid obstacles on the crane's path

CCTV

CCTV camera system with visualization in the operator's cabin or on the remote control

WEIGHING SYSTEM

With dedicated load cells to display the total lifted load

AUXILIARY LIFTING TROLLEY

Additional hoist for fast handling operations of smaller elements

ALTERNATIVE POWER SUPPLY

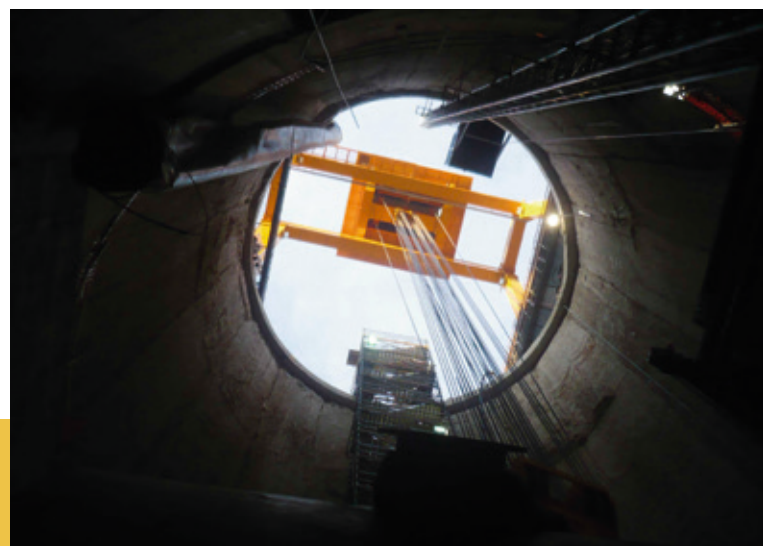
Feeding via alternative power sources (generating set, batteries)

LIFTING SYSTEM FOR GREATER DEPTHS

Winch and hook lifting travels designed to work on shafts, where special performances are required

RGC

RAIL-MOUNTED GANTRY CRANE



Capacity: **500 t**
ITALY
Lifting system for greater depths



Capacity: **340 t** - UAE
Single girder version



Capacity: **340 t**
ITALY
Overhang on one side





Capacity: **200 t**/each - OMAN
Single girder version



Capacity: **80 t** - SPAIN
Overhangs on both sides



Capacity: **80-30 t**
SOUTH AFRICA
Lifting system for greater depths





Capacity: **60 t**/each
ARGENTINA
Overhang on one side

Capacity: **52 t** - CANADA
Gantry crane for tunnel construction with overhangs on both sides



Capacity: **52 t** - CANADA
Special system to unload digged material





Capacity: **52 t** - VENEZUELA



Capacity: **50 t**
USA
Lifting system for
greater depths





Capacity: **100** and **50 t**
Span: 57 m
ITALY
Gantry crane for the construction of underground station



Capacity: **40 t/each** - SAUDI ARABIA
Single girder version with generating set



Capacity: **30 t** - CANADA



Capacity: **30 t** - POLAND





Capacity: **22 t** - GREECE
Single girder version



Capacity: **20 t** - VENEZUELA

SLG

SEGMENT LAUNCHING GANTRY



Capacity: **320 t/1400 t**
 Span: 120 m
 ISLAND OF RÉUNION
 Cantilever erection





Capacity: **120 t/1280 t**
Span: 45 m
AUSTRALIA
Span by span erection



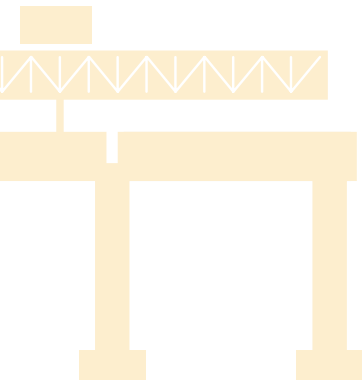
Automatic hanging system for span erection





Capacity: **70 t/1050 t**
 Span: 44,3 m
 QATAR
 Span by span erection





BLG

BEAM LAUNCHING GANTRY



Capacity: **110 t**
Span: 45 m
PORTUGAL



Capacity: **100 t**
Span: 50 m
CANADA



CLD

CANTILEVER LIFTING DEVICE



Capacity: **260 t/each**
BULGARIA
Cantilever lifting device for concrete segments





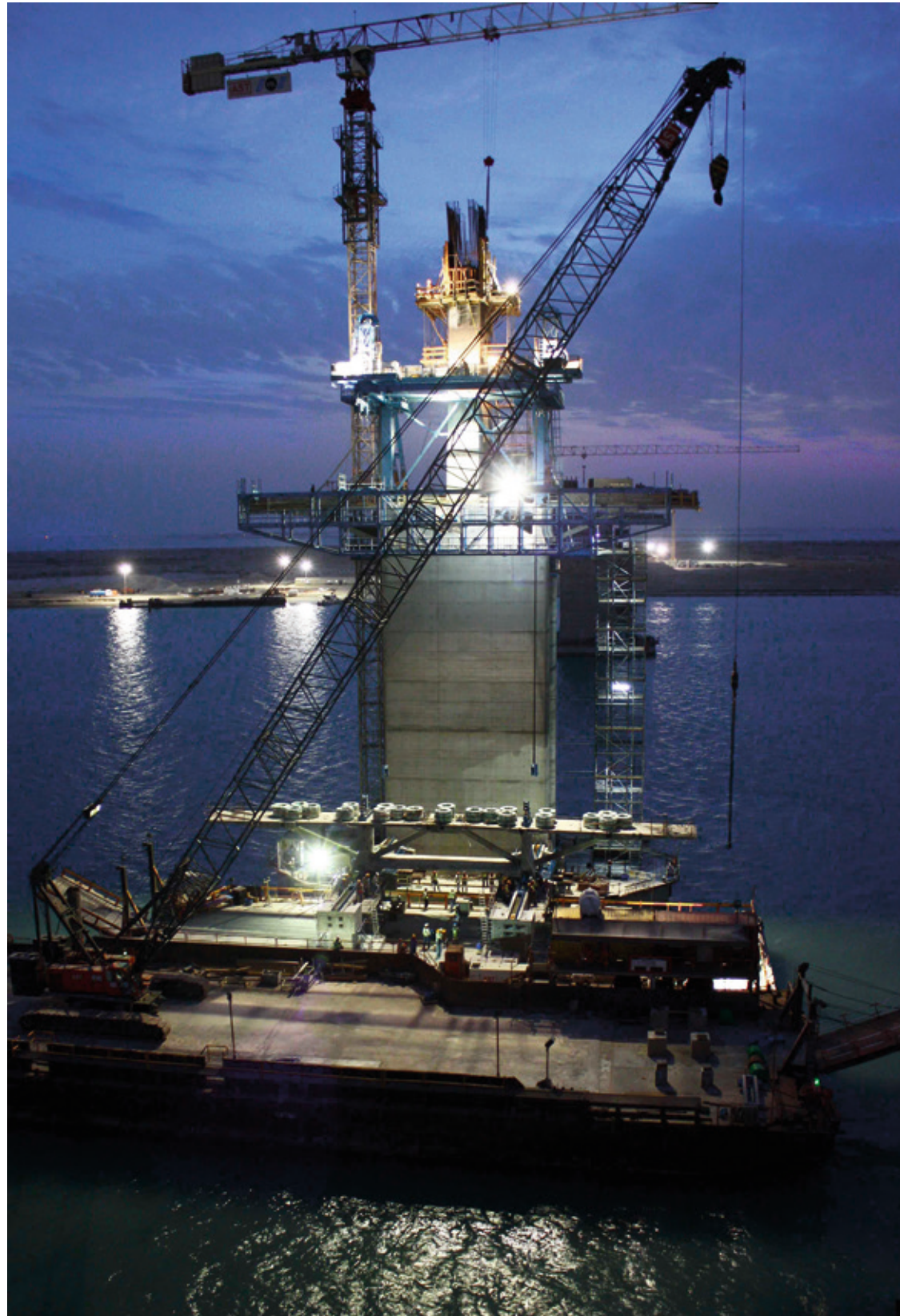
Capacity: **260 t/each**
BULGARIA
Cantilever lifting device for concrete segments





CLD – CANTILEVER LIFTING DEVICE

CIVIL AND CONSTRUCTION



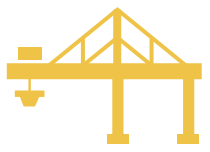
Capacity: **220 t/each**
UAE





Capacity: **130 t**
ISLAND OF RÉUNION





CLD – CANTILEVER LIFTING DEVICE



Capacity: **85 t**/each
HONG KONG



Capacity: **70 t**
SAUDI ARABIA



Capacity: **70 t**
TURKEY



Capacity: **70 t/each**
SAUDI ARABIA



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