

MBH XL



MARINAS AND SHIPYARDS  
MOBILE BOAT HOIST



**CIMOLAI Technology® spa**  
Special Equipment



# MBH XL MOBILE BOAT HOIST

## 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

## EMERGENCY CONTROLS

Wired emergency control  
Manual hydraulic distributors on the power unit

## 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

## LAYOUT

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

## LIFTING SPREADERS

Independent and synchronized hoist spreaders with "1 winch - 1 spreader" configuration: each winch has a direct correspondence with one single spreader

## 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 PA6G polymer composite 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

## 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 extend service life (lower oxidation) of the hydraulic oil

## PATENTED BLOCK ADJUSTMENT SYSTEM LSL LIMITLESS SLIDING LANE

PATENTED system with all the blocks running on the same sliding lane, to adjust the position of the lifting points all along the upper beams. Their positions are electronically tracked by the PLC via electronic sensors

## 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

## BOLTED FLANGE

Transversal beam prearrangement for easy future width modification



## RUBBER TIRES

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

## OPERATOR INTERFACE

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

## POWER UNITS

Sound-proofed power units 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

## SLINGS

Customizable lengths, splitting and protections against cuts

## OPTIONAL

### BOAT'S AUXILIARY ELECTRICAL FEEDING SYSTEM

Auxiliary system with genset or battery pack to guarantee the power supply to the ship's on-board systems during launching or hauling operations

### COMMAND POST

Different solutions available:

- command cabin
- open cockpit

### ELECTRIC DRIVE

Full electric drive machine with zero emission and guaranteed power

### 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

### U-BEAM

Backward top beam for increased clearance

### STAINLESS STEEL PIPES AND FITTINGS

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





Capacity: **1360 t** - USA  
U-beam  
PATENTED block adjustment system - LSL Limitless Sliding Lane  
Maintenance access



Capacity: **1500 t** - MAURITIUS  
PATENTED block adjustment system - LSL Limitless Sliding Lane



Capacity: **1280 t** - USA  
PATENTED block adjustment system - LSL Limitless Sliding Lane



Capacity: **1000 t** - SPAIN  
PATENTED block  
adjustment system  
LSL Limitless Sliding Lane



Capacity: **1120 t** - AUSTRALIA  
PATENTED block adjustment system  
LSL Limitless Sliding Lane



Capacity: **1120 t** - ITALY  
PATENTED block  
adjustment system  
LSL Limitless Sliding Lane



## CERTIFICATIONS



**CIMOLAI Technology® spa**  
Special Equipment



**ESNA-SOA**  
Società Organismo di Attestazione S.p.A.



Lloyd's  
Register



**Cimolai Technology SpA** headquarters span a **total area of 53,000 m<sup>2</sup> - 22,000 m<sup>2</sup>** 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 m<sup>2</sup>**, of which 60,000 are fully covered.



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