Mobile crane
Product advantages

LTM 1060/2

Max. lifting capacity: 60 t
Max. height under hook: 60 m with biparted swing-away jib
Max. radius: 48 m with biparted swing-away jib

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Electric/electronic PLC crane control with test system
• Control of the winches, slewing gear as well as of the lifting
  and telescoping motions by the LICCON computer system
  (PLC control)
• Electric load sensing, summation regulated open oil circuits
• Four working motions can be performed independent of
  one another

Max. lifting capacity: 60 t
Max. height under hook: 60 m with biparted swing-away jib
Max. radius: 48 m with biparted swing-away jib

LICCON display
LICCON control
control transmitters
sensors
control levers
single-action telescoping ram
with hydraulic interlocking device
luffing ram
control block
slewing feed-through
Liebherr slewing gear
Liebherr hoist winch
double fixed displacement pump

Optional features extend the application spectrum and increase comfort and safety

On the carrier
• Auxiliary heating Thermo 90 S with engine pre-heating
• Eddy-current-brake
• Supporting pressure indication on the carrier and in the
  crane operator’s cabin
• Smoke alarm
• Shock absorbing system
• Wind warning device
• Radio preparation
• Seat heating for driver’s and co-driver’s seat
• Additional system in conjunction with automatic track control
• Cassette radio set

On the superstructure
• 2nd hoist gear
• Air-conditioning system
• Seat heating
• Work area limitation system
• Wind warning device
• Telescopic boom/swing-away jib
• Aircraft warning light
• Work projector 2 x 150 W on base section, adjustable
  electrically
• Tyre deflator
• GMS module for remote diagnostics
• Cassette radio set
• Radio control

Further optional features by request.
Variable drive and steering concept

- Drive 8 x 4, axles 3 and 4 are driven
- Drive 8 x 6 (optional), axles 1, 3 and 4 are driven, for road travel only 3rd and 4th axle are driven, 1st axle activatable for off-road travel
- All-wheel steering, 3rd and 4th axle also steerable independent of axles 1 and 2 (crab steering); the additional hydraulic steering is locked mechanically during road travel; all steering versions can equally be performed from the crane cab

Setting crane on outriggers - quick, convenient and safe

- Variable supporting basis
- Outrigger retracted
- Supporting bases 4.3 m x 8 m
- Supporting bases 6.3 m x 8 m
- Fix-mounted supporting pads, protected by splash guards
- Supporting ram travel up to 700 mm
- Levelling control of outrigger system, fully automatic levelling of the crane during the supporting procedure by "pushbutton"
- The operator's panels with membrane keyboard and reflecting level as well as keyboard for ENGINE/START/STOP and engine control are illuminated and lockable
- Operations of the outrigger system in accordance with the rules for the prevention of accidents

Mounting of counterweight - just a matter of minutes

- Ballasting controlled from the crane cabin
- Quick ballasting due to a modern, "plug-in" system
- Compact counterweight dimensions, e.g. 12 t counterweight of 2.5 m width only

LICCON computer system with safe load indicator and test system

- Setting of crane configuration by convenient, interactive functions
- Safe and reliable acknowledgement of the crane configuration
- Representation of all essential data by graphic symbols on the operating image
- Integrated wind speed control (optional)
- Reliable cut-off device in the event of exceeding the permissible load moments
- Indication of lifting capacities for any intermediate load weight
- Witness indications for ultra-precise lifting and lowering of the load
- Test system for servicing, providing the facility of checking all sensors within the system on the monitor

Compact, manoeuvrable and weight-optimized

- Overall length 12.46 m, length of carrier 10.12 m
- Large overhang angles of up to 22°
- Small turning radius of 8.1 m with all-wheel steering
- The operator's panels with membrane keyboard and reflecting level as well as keyboard for ENGINE/START/STOP and engine control are illuminated and lockable
- Operations of the outrigger system in accordance with the rules for the prevention of accidents

LTM 1060/2
Lifting loads - precise and safe

• 5-section, 10 m long telescopic boom and bipartite swing jib of 10 m to 52 m height under hook and thus enables high lifting loads.
• Telescopic boom with rounded, oval bottom shell, thus ensuring greater rigidity.
• Oval boom profile of particular inherent stability.
• Telescopes mounted on maintenance free, polyamide slide pads.
• Full-range lifting capacities, e.g. 6.4 t at 20 m radius, 2.8 t at 40 m radius, 1.7 t at 50 m radius.
• Telescoping by rapid cycle approx. 250 s for boom length of 10.9 m - 42 m.

Vorhängbarer, räumlich gekoppelter, hydraulisch gesteuerter Spreizmechanismus

• LICCON-assisted telescoping system

• Telescoping by single-stage hydraulic ram with hydraulic driving bearings can be switched into the telescoping variants.
• Telescoping procedure controllable by computer-aided operator’s guide on the monitor, precise approach of telescoping variants.
• Telescopic loads are displayed on the LICCON before starting to lift.
• Rigid-cycle telescoping system, with automatic monitoring, i.e. fully automatic telescoping of the boom to the desired length and/or loading angle.
• Optimal pole pattern for each load and load-bearing angle, thus increase of lifting capacities, with long booms and at large radius.

Crane cabin of new design

• Modern, steel-fabricated and corrosion-resistant crane cabin, ergonomically designed with external sound and heat absorbing paneling, integrated off-road ratio and lock-up clutch, electronic gear management, 6 forward, 2 reverse speeds, integrated off-road ratio and lock-up clutch.
• Liebherr axial variable displacement pump driven by the Diesel engine, automatic for crane operation.
• Efficient noise abatement of engine and gear compartment as standard feature.

Liebherr drive components - reliable and easy-to-service

• Diesel engine, swing ring, driving gear and axles are self-manufactured components, especially matched for the application on mobile crane.
• Fully automatic telescoping system, with automatic monitoring, i.e. fully automatic telescoping of the boom to the desired length and/or loading angle.
• Liebherr assisted displacement pump driven by the Diesel engine, automatic for crane operation.
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Modern and powerful carrier and crane drive

• Economical single-engine concept.
• 6-cylinder Liebherr turbocharged Diesel engine of 270 kW/367 h.p. (EURO 3), reliable and reliable, with electronic fuel injection.
• Entire exhaust gas system of stainless steel.
• 2-speed shift gear type 6 WG 260 with torus converter and load-up clutch, electronic gear management, 6 forward, 2 reverse speeds, integrated off-road ratio and lock-up clutch.
• ZF power shift gear type 6 WG 260 with torque converter and lock-up clutch, electronic gear management, 6 forward, 2 reverse speeds, integrated off-road ratio and lock-up clutch.

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Comfortable driving cabin of outstanding functionality

- Modern and comfortable driver's cab of high functionality and convincing design
- Ergonomically arranged operating and display elements for safe and convenient handling at continuous operation
- Digital display and keyboard units interconnected with the functional blocks by data bus technique
- Air-cushioned driver's and co-driver's seats, headrests, driver's seat with pneumatic lumber support
- Heated and electrically adjustable rear mirrors
- Safety belts for driver and co-driver
- Automatic windshield wipers/brushes with intermittent control
- Various racks and boxes
- Radio-preparation

Comfyable crane cabin of outstanding functionality

- The electric and electronic components are interconnected by the latest data bus transmission technique
- The Diesel engine and power shift gear are controlled by a CAN data bus. The fully electronic drive management reduces fuel consumption and improves the exhaust gas emission
- The Dear and crane electric systems, including all control functions, the outrigger system and boom sensor system, are interconnected by three Liebherr System Busses LSB 1, 2, 3
- The functional blocks of the data system with data transmission to the individual functional units is performed digitally on key data cables
- The activation of the function blocks is realized by I/O modules, the programming of which is performed via the Liebherr system busses. The control intelligence is integrated into the LICCON central unit
- The new data bus technique clearly contributes to an increase in functionality and efficiency as well as to the ease of servicing and diagnostics.

Legend

LSB - Liebherr System Bus 1
LSB - Liebherr System Bus 2
LSB - Liebherr System Bus 3
SCI - Serial Communication Interface

1 Input/output module for suspension, Diesel engine, power shift gear control functions, compressed-air control of brakes
1a Instruments - keyboard unit in driving cab
2 Input/output module for differential locks, all-wheel steering, steering from crane cabin, display functions
2a Instruments - keyboard unit in driving cab
3 Input/output module for outrigger system - right
3a Control unit for outrigger system - right
4 Input/output module for outrigger system - left and for rear axle steering
4a Control units for outrigger system - left
5 Input/output module for engine brakes, cruise controllers, speed setter, control of Diesel engine (steering column switch - right)
6 Control of ZF power shift gear
7 Control of injection pump – Liebherr Diesel engine
8 Slip ring assembly/slew ring feed-through
9 Connection of Liebherr System Bus (LSB 1, 2, 3)
10 LICCON central unit
11 LICCON monitor in crane cabin
12 Length sensor and cable drum/power cable for interfacing gripper/telescopic boom
13 Inductive sensor
14 Angle sensor on base section
15 Armature sensor
15a Armature sensor on base section 15 and 16
16 Wind sensor (optional)
17 Load limit switch
18 Angle sensor
19 Master switch

LSB Bus 1
LSB Bus 2
LSB Bus 3
CAN Bus
**Comfortable driving cabin of outstanding functionality**

- Modern and comfortable driver's cabin of high functionality and convincing design
- Ergonomically arranged operating and display elements for safe and convenient handling at continuous operation
- Digital display and keyboard units interconnected with the functional blocks by data bus technique
- Air-cushioned driver's and co-driver's seats, headrests, driver's seat with pneumatic lumber support
- Heated and electrically adjustable rear mirrors
- Safety belts for driver and co-driver
- Automatic windscreen wipers/wipers with intermittent control
- Various racks and boxes
- Radio preparation

**Comfortable crane cabin of outstanding functionality**

- Spring-mounted and hydraulically cushioned crane operator’s seat with pneumatic bumper support and headrest
- Operator-friendly armrest-integrated controls, vertically and horizontally adjustable master switch consoles and armrests
- Display of all essential operating data on the LICCON monitor
- Double-crank remote control system
- Engine independent additional warm water heating
- Inductive sensor
- Angle sensor on base section
- Cable drum for items 16, 17 and 18
- Wind sensor
- Angle sensor
- Master switch

**Legend**

- LSB - Liebherr System Bus 1
- LSB - Liebherr System Bus 2
- LSB - Liebherr System Bus 3
- CAN - Bus
- SCI - Serial Communication Interface

1. Input/output module for suspension, Diesel engine, power shift gear control functions, compressed-air control of brakes
2. Input/output module for differential locks, all-wheel steering, steering from crane cabin, display functions
3. Control unit for outrigger system - right
4. Control unit for outrigger system - left
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5. Input/output module for engine brakes, cruise controller, speed setter, control of Diesel engine (steering column switch - right)
6. Control of ZF power shift
7. Control of injection pump – Liebherr Diesel engine
8. Slip ring assembly/pinching board-through
9. Connection of Liebherr System Bus LSB 1, 2, 3
10. LICCON central unit
11. LICCON monitor in crane cabin
12. Length sensor and cable drum/power cable for interlocking gripper/telescopic boom
13. Inductive sensor
14. Angle sensor on base section
15. Wind sensor (optional)
16. Wind sensor
17. Pilot brake switch
18. Angle sensor
19. Master switch
Lifting loads - precise and safe

- 5-section, 42 m long telescopic boom and biparted swing-away jib of 10 m to 42 m in height under hook and thus extremely flexible.
- Telescopic boom with rounded, oval bottom shell, thus optimal torsional rigid boom form and ideal structural design.
- Telescoping by rapid cycle and retracting for the preservation of the structural members large radii.

Volumetric rigid telescopic boom

- Outframe boom profile of particular inherent stability, thus envisaged for crane operation in extreme positions.
- Telescopes mounted on maintenance-free polyamide slide pads.
- Remote lifting capacities, e.g. 4.1 - 4.9 m/revolution.
- 0.4 - 0.5 m/revolution.
- Safety height of 45 m.
- Telescoping by single-stage hydraulic ram with hydraulic fitting aid.

Modern and powerful carrier and crane drive

- Economical single-engine concept.
- 6-cylinder Liebherr turbo-charged Diesel engine of 270 kW/367 h.p. (EURO 3), robust and reliable, with electronic engine management.
- Entire exhaust gas systems of stainless steel.
- 23 power shift gear type I.H. 902 with torque converter and lock-up clutch, electronic gear management, 6 forward, 2 reverse speeds, integrated off-road ratio.
- 6.6 t at 20 m radius.
- Load hook with self-locking rope dead end connection, cylindrical shape which enables easy displacement by rolling on hard surface.

LICCON-assisted telescoping system

- Telescoping by single-stage hydraulic ram with hydraulic damper in end positions during telescoping and retracting for the preservation of the structural members.
- Telescoping procedure controllable by convenient operator's guide on the monitor, precise approach of interlocking driving tenons (patented internal interlocking system).
- Telescopic loads are displayed on the LICCON operating image.
- Rapid-cycle telescoping system, with automatic module, i.e. fully automatic telescoping of the boom from the desired length on the horizontal plane to the desired length on the vertical plane, in succession according to lifting capacities, with long booms and at large radii.
- Automatic cushioning in end positions during telescoping and retracting for the preservation of the structural members.

Crane cabin of new design

- Modern, steel-fabricated and corrosion-resistant crane cabin, aiming powder-coated, with external sound and heat absorbing paneling, tilted pans all-round, front knockout window and large windscreen, range of light to bright galvanized, thus highly visible and user-friendly.
- Windshield and sash, space saving sliding door.
- Hydraulically operated footboard for safe access to the carrier.

Modern comfortable driving cab

- Wide, steel-made, compression-resistant driving cab, cylindrical, dip-coated and epoxy powder coated, front section mounted on rubber shock absorbers, rear section with hydraulic dampers, in sound and heat absorbing paneling.
- Safety glass all-round, tilted pans for front-view.
- Standardized digital operating and control elements arranged in an operator-friendly half-round shape.

Outstanding carrier technology for road and off-road application

- Weight-optimised axles, altitude maintenance-free, made of high-resilient steel, perfect track keeping and laterally stability due to special control linkage arrangement.
- The maintenance-free steering knuckles are steel and rubber moulded.
- The maintenance-free swing-over axle is moulded in large sections and is subdivided components.
- The cab shell is maintenance-free, easy and quick fitting of the cab shell due to “T”-diagonal clamping and fixing screws.

Niveaufunktion suspension - preserving crane and roads

- Maintenance-free suspension, free of travel forces, protected against damage by synthetic tubes.
- Lower pivot bearing on “lounging model” can be adjusted automatically by pulsation control from the driving cab at any position.
- Outboard oversize motor due to cross mounting of the hydromechanical suspension.
- Ausgleichswellenbrücke for the displacement with loads controlled from the driving cab.
- Suspension travel 160 mm.

Liebherr drive components - reliable and easy-to-service

- Diesel engine, steering, bogie, driving gear and synchrons are self-manufactured components, specially matched for the application on mobile cranes.
- The centralised lubricating system for driving ring, boom bearing application, lifting winch and winch bearing is a standard feature.
- Hydraulic interlocking device of superstructure.

Weight-optimised steel structure

- Steel structure of the carrier, superstructure and telescopic boom in light-gauge design, calculated by the F.ELM. method, weight-optimised and of outstanding torsional rigidity.
- Torsional rigidity of the material with high yield stress for maximum protection of the structural members.
- The weld quality is documented by ultrasonic test.
- Welds of the highest quality are performed by computer-aided welding machines.
- Weight of the highest quality are performed by computer-aided welding machines.
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Figure 295x68 to 550x263
Compact, manoeuvrable and weight-optimized
- Overall length 12.46 m, length of carrier 10.12 m
- Large overhang angles up to 22°
- Standard turning radius of 3.46 m
- Drive 8 x 4, axles 3 and 4 are driven.
- Drive 8 x 6 (optional), axles 1, 3 and 4 are driven, for road travel only 3rd and 4th axle are driven, 1st axle activatable for off-road travel
- All-wheel steering, 3rd and 4th axle also steerable independent of axles 1 and 2 (crab steering); the additional hydraulic steering is locked mechanically during road travel; all steering versions can equally be performed from the crane cab
- Variable supporting basis
- Outriggers retracted
- Supporting basis 4.3 m x 8 m
- Supporting basis 6.3 m x 8 m
- Fix-mounted supporting pads, protected by splash guards
- Supporting ram travel up to 700 mm
- Levelling control of outrigger system, fully automatic levelling of the crane during the supporting procedure by “pushbutton”
- 2 x 7.5° lateral inclination of carrier and crane superstructure
- The operator’s panels with membrane keyboard and reflecting level as well as keyboard for ENGINE/START/STOP and engine control are illuminated and lockable
- Operations of the outrigger system in accordance with the rules for the prevention of accidents

Variable drive and steering concept
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Setting crane on outriggers - quick, convenient and safe
- Variable supporting basis
- Outriggers retracted
- Supporting bases 4.5 m x 8 m
- Supporting bases 6.5 m x 8 m
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- Operations of the outrigger system in accordance with the rules for the prevention of accidents

LICCON computer system with safe load indicator and test system
- Setting of crane configuration by convenient interactive functions
- Safe and reliable acknowledgement of the crane configuration set
- Representation of all essential data by graphic symbols on the operating image
- Integrated wind speed control (optional)
- Reliable cut-off device in the event of exceeding the permissible load moments
- Indication of lifting capacities for any intermediate boom length
- Winch indications for ultra-precise lifting and lowering of the load
- Test system for servicing, providing the facility of checking all sensors within the system on the monitor

Mounting of counterweight - just a matter of minutes
- Ballasting controlled from the crane cabin
- Quick ballasting due to a modern “keyhole” system
- Compact counterweight dimensions, e.g. 12 t counterweight of 2.5 m width only
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LTM 1060/2
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Product advantages

Max. lifting capacity: 60 t
Max. height under hook: 60 m with biparted swing-away jib
Max. radius: 48 m with biparted swing-away jib

Electric/electronic PLC crane control with test system

- Control of the winches, slewing gear as well as of the lifting and lowering motions by the LICCON computer system
- Electric hoisting, summing regulated open oil systems
- Four motions can be performed independent of one another
- High-speed activation, even during a working motion
- Lifting and slewing speeds preselectable in 5 steps
- Extremely short reaction times on the selection of crane motions
- Functional test of all essential components by means of the LICCON test system

On the carrier
- Auxiliary heating Thermo 90 S with engine pre-heating
- Eddy-current-brake
- Supporting pressure indication on the carrier and in the crane operator’s cabin
- Design: Non-corrosion resistant
- Automatic idle management
- Radio preparations
- Seat heating for driver’s and co-driver’s seat
- Anti-theft system in conjunction with automatic track control
- Cassette radio set

Optional features extend the application spectrum and increase comfort and safety

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- On the crane structure
  - 2nd hoist gear
  - Air-conditioning system
  - Seat heating
  - Work area detection system
  - Wind warning system - Telescopic boom/swing-away jib
  - Night vision system
  - Twist absorber
  - GMS module for remote diagnostic
  - Cassette radio set
  - Radio control

- Further optional features by request.