

Product advantages

Mobile crane LTM 1300/1



Max. lifting capacity: 300 t at 3 m radius
Max. height under hook: 116 m with lattice luffing jib
Max. radius: 92 m with lattice luffing jib

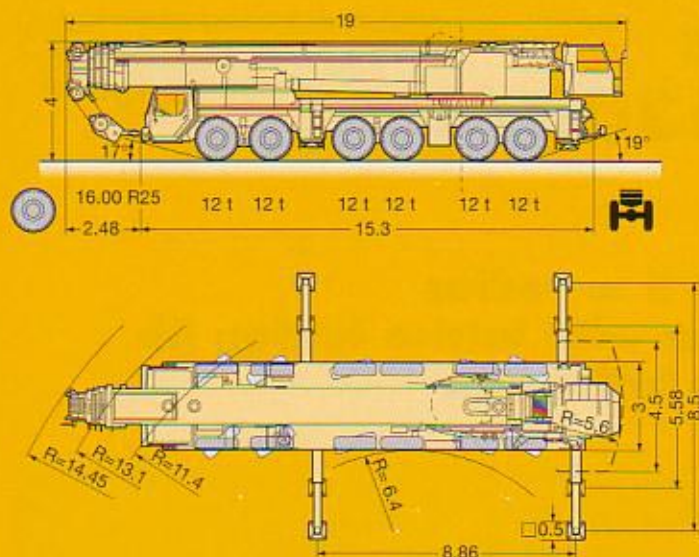


Performance profile of the LTM 1300/1 at a glance:

- 6-axle carrier, 5-section, 60 m long telescopic boom
- 72 t total weight (12 t axle load)
- Multivariable boom system: 60 m telescopic boom, telescopic boom guying system, fixed or lattice luffing jib
- Outstanding lifting capacities, flexible apportionment of counterweight - 112.5 t (for TA, TAK, TAF, TN, TAN equipment), 87.5 t, 50 t, 37.5 t and 12.5 t
- Most modern boom technology, optimized oviform boom profile, patented internal interlocking system of telescopes, rapid-cycle telescoping system „Telematik“
- Ultra-modern data bus technique with 5 Liebherr system busses, electronically controlled drive management by CAN bus
- Powerful, energy-saving and emission-optimized Liebherr Diesel engines, carrier engine of 440 kW output (EURO 2), crane engine of 180 kW output (IMO 1)
- Wide, slewable crane cabin with ergonomically designed interior, cabin tiltable by 20°
- The LTM 1300/1 is manufactured by Liebherr within the scope of a quality assurance system acc. to DIN EN ISO 9001

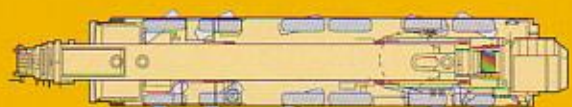
LIEBHERR

The better crane.



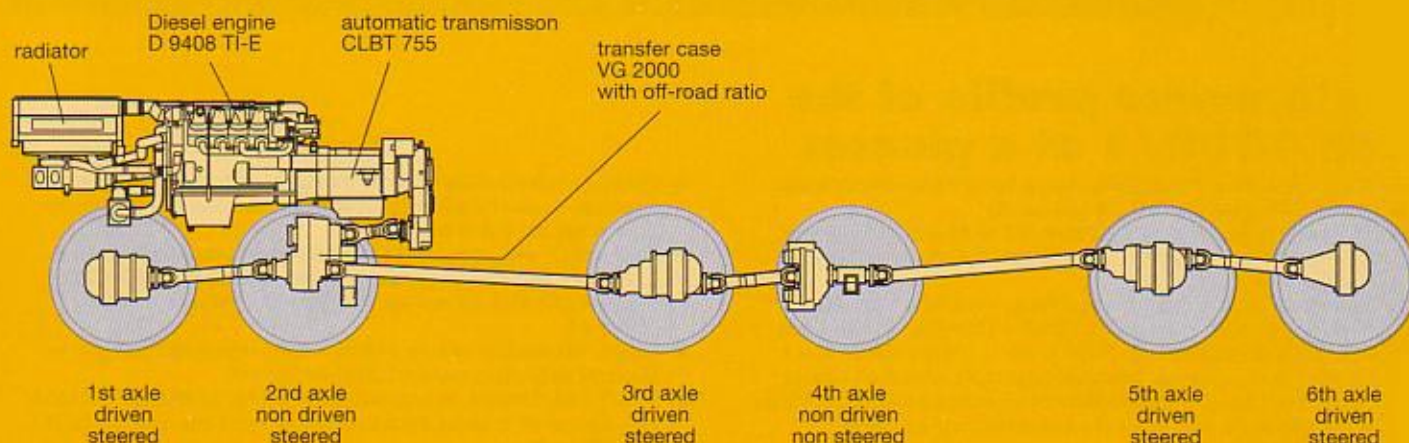
Compact, manoeuvrable and safe.

- Overall length 19 m, length of carrier 15.3 m
- Large front and rear overhang angles, front up to 17°, rear up to 19°
- Small turning radius due to 5-axle steering (13.1 m over carrier)
- Equal axle load distribution (12 t) due to the hydropneumatic suspension „Niveaumatik“
- 12.5 t basic counterweight, biparted swing-away jib and telescopic boom guying system can be transported with the crane
- In addition to the service and parking brakes, the following sustained-action brakes for safe travel are part of the standard equipment: retarder (in the automatic transmission), TELMA-type eddy current brake on 4th axle and exhaust brake with Liebherr auxiliary brake system by valve control (ZBS).



Variable drive and steering concept.

- Standard 5-axle steering, 5th and 6th axle can also be steered independent from axles 1 - 3. During crab steering/diagonal displacement, axles 3 and 4 are raised hydraulically
- Drive 12 x 6, axles 1, 5 and 6 are driven
- Drive 12 x 8, axles 1, 3, 5 and 6 are driven, 3rd axle can be activated for off-road travel
- Electronically controlled Allison automatic transmission type CLBT 755 with 5 forward speeds and 1 reverse gear, a robust and reliable automatic gear which decisively improves the driving comfort
- Transfer case with off-road ratio and transfer differential
- Driving axles with differential locks for transvers locking in off-road ratio

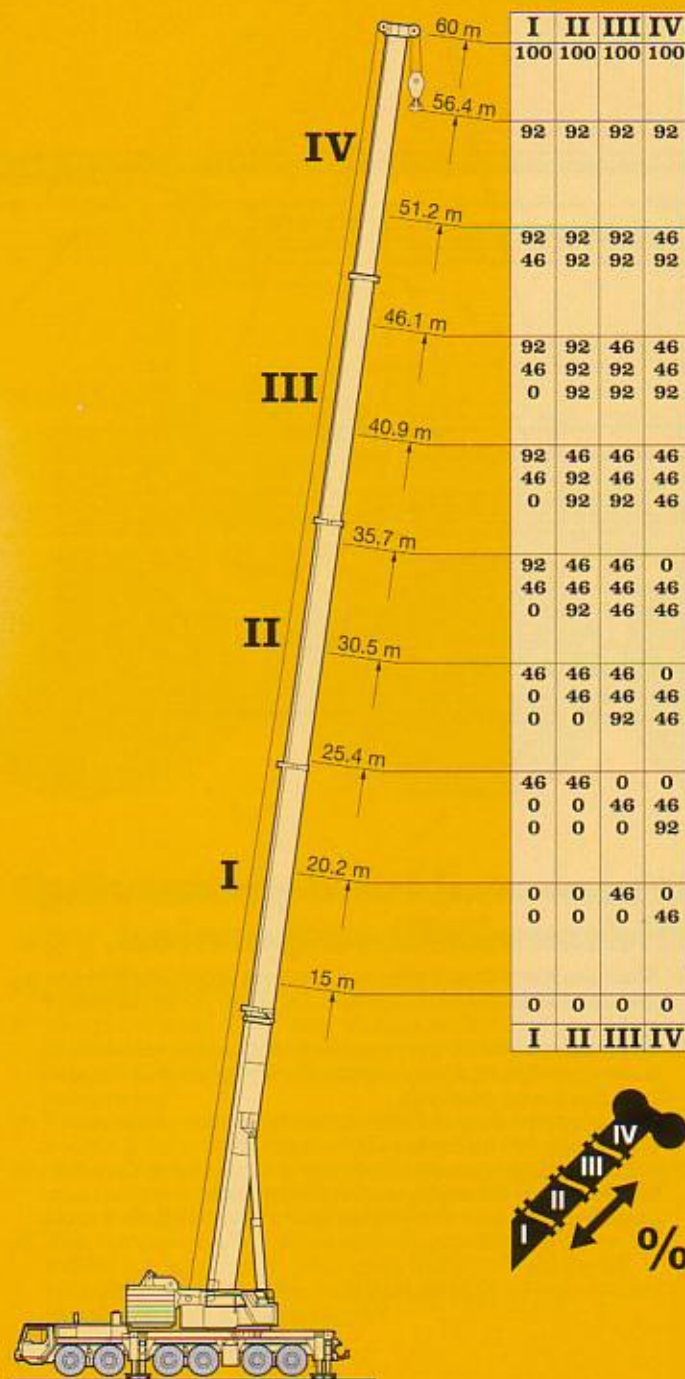
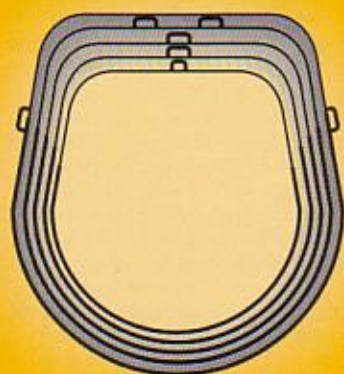
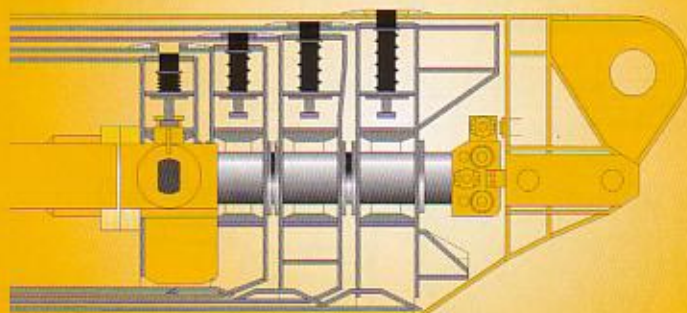


The LTM 1300/1



Load handling - precise and safe.

- 5-section, 60 m long telescopic boom for 60 m height under hook and 58 m radius
- Optimized, oviform boom profile with continuous curvature of the lower shell and joint offset upwards, particular torsional rigidity for the highest load capacities
- Wide boom profile for the strengthening of the lateral neutral axis and the stabilization of long auxiliary jibs
- Patented internal locking system of the telescopes - of functional reliability and maintenance-free
- High functionality of the boom system due to the automatic telescoping system „Telematik“
- Optimal utilization of the telescopic boom through numerous telescoping variants



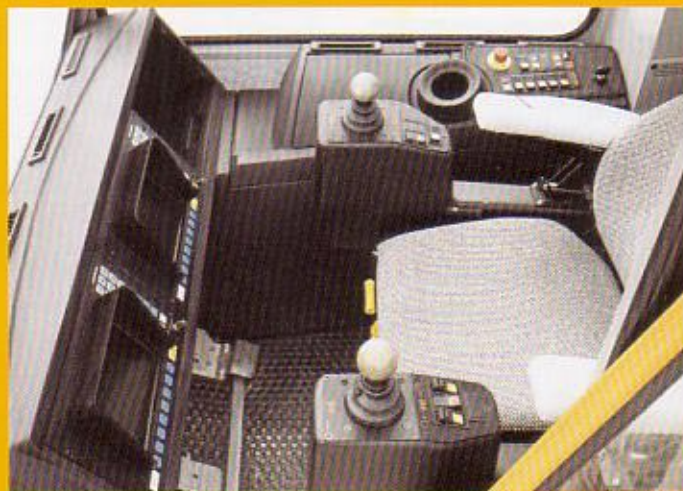


Spacious comfortable crane cabin.

- Galvanized crane cab with tinted panes all-round, front knockout window with large parallel windscreen wiper, large skylight of bullet-proof glass with large parallel windscreen wiper, roller blind on skylight, space-saving sliding door, cabin inclinable backwards
- Spring-mounted and hydraulically cushioned crane operator's seat with pneumatic lumbar support and headrest
- Convenient armrest-integrated controls, vertically and horizontally adjustable master switch consoles and armrests, ergonomically inclined operating consoles
- Heat and sound absorbing internal panelling
- Display of all essential operational data on the LICCON monitor



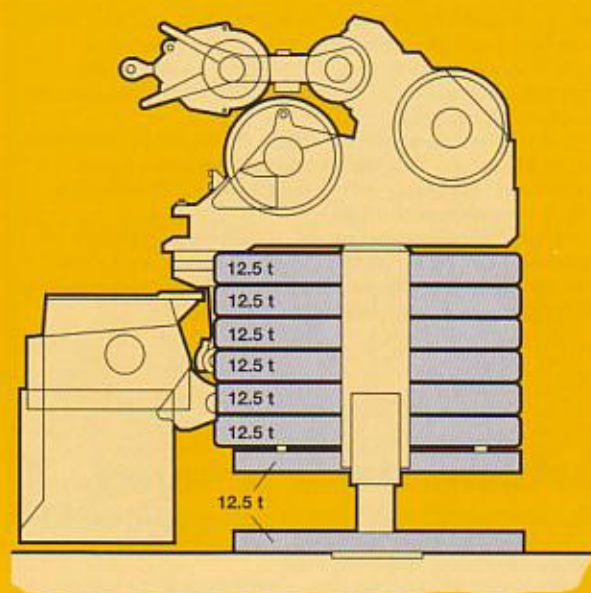
- Green-tinted front and side panes for heat absorption
- Windscreen washers/wipers for front window and skylight
- Two working projectors, 70 watt each, at the front and rear of the cabin
- Additional engine independent warm water heater „Thermo 90“





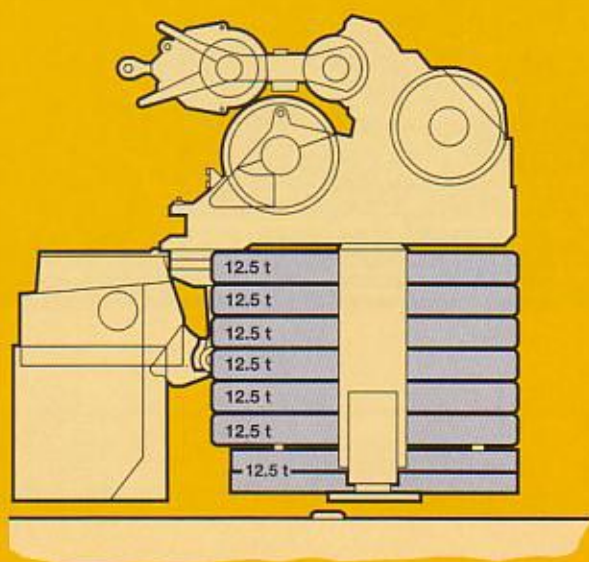
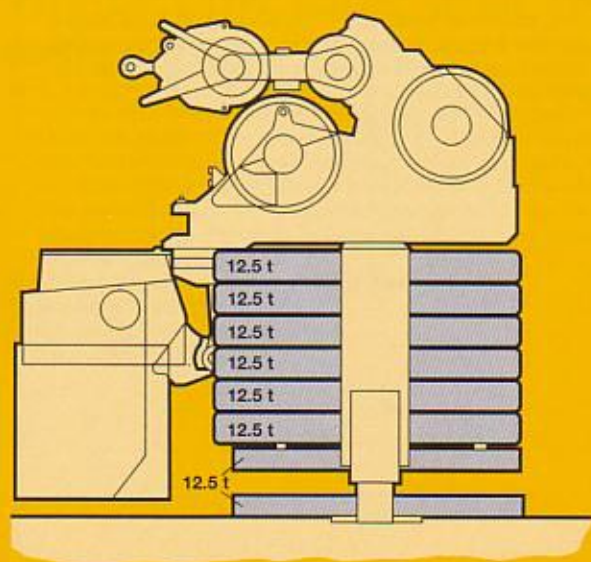
Multivariable counterweight system.

- Counterweight variants of 112.5, 87.5, 50, 37.5 and 12.5 t, thus a wide application spectrum
- Counterweight slabs with ideal transport dimensions
- Counterweight radius only 5.6 m
- Counterweight frame of modular set-up, consisting of basic frame and two winch packets, compact transport unit
- The counterweight basic slab (12.5 t) with the ballasting rams, the 6 counterweight slabs (12.5 t each) as well as the counterweight frame with winch 2 and 3 (optional) can be mounted as a complete unit
- 12.5 t basic counterweight can be carried during transport and can be mounted separately
- Winch 2 and winch 3 are mountable by pins and consequently are rapidly exchangeable if required, e.g. for the operation of a second LTM 1300/1
- Connection of the winches to the crane hydraulic system by rapid action couplings
- Standard auxiliary winch with transportable control panel for reeving of the hoist and luffing ropes



Ballasting:

- Stack the counterweight slabs on the carrier frame, the basic slab with the ballasting ram is the carrying slab
- Pick up, if required, the counterweight frame with winches 2 and 3 and lower and pin it to the fixing devices
- Depending on the counterweight required, stack the lateral counterweight slabs (a total of 2 slabs of 12.5 t each)
- Connect hydraulic couplings and remote control panel
- Extend ballasting rams and push counterweight frame upwards
- Swing superstructure into the longitudinal axis to the counterweight frame, lower the counterweight frame by retracting the ballasting rams and pin counterweight frame to superstructure
- Raise support
- Disconnect hydraulic couplings and remote control panel

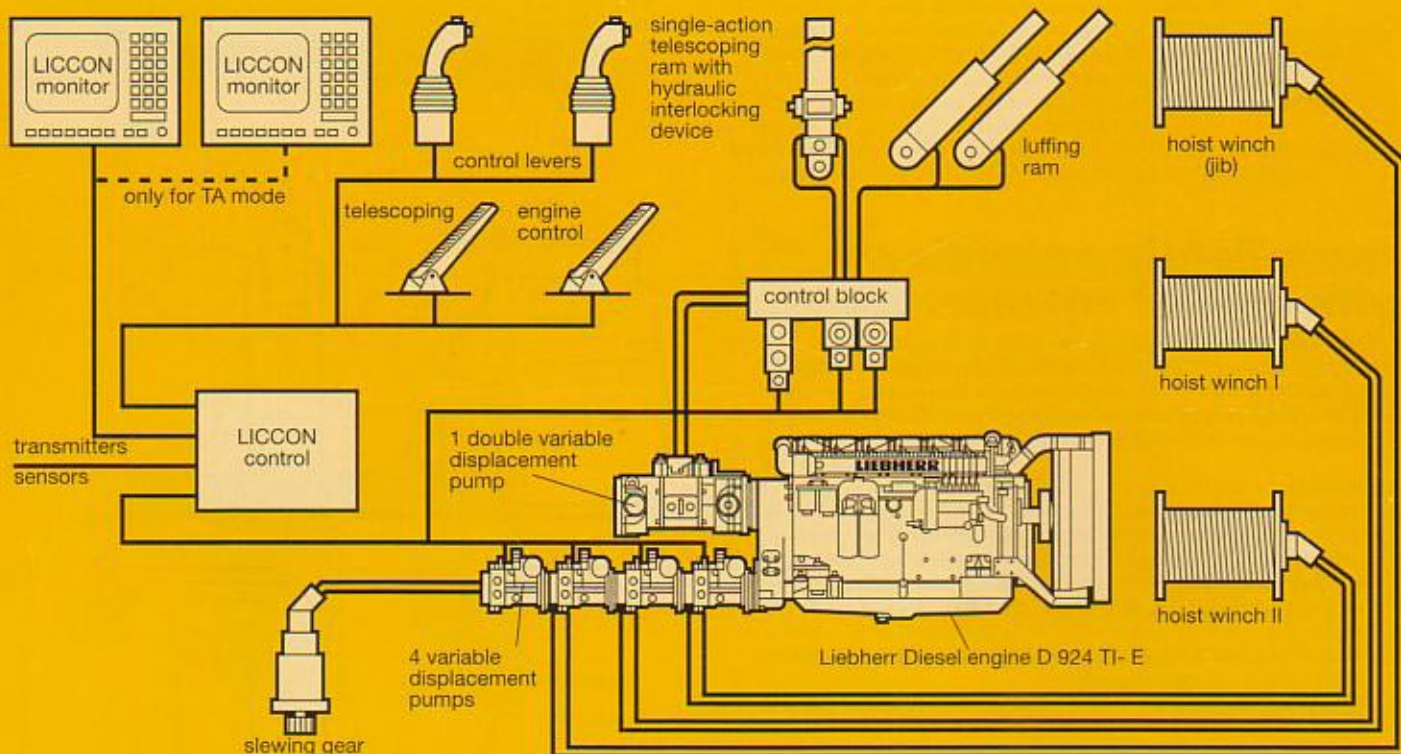


Design progress in details.

Electric/electronic crane control with integrated safe load indicator.

- Control of winches, slewing gear as well as luffing and telescoping motions via LICCON system (PLC control)
- Four working motions can be performed independent from one another
- Speeds of hoisting/lowering, slewing and luffing are preselectable in 5 steps
- Luffing speed controlled automatically dependent on the boom length
- Extremely short response times when initiating working motions

- Hoist gear and slewing gear are operating in a „closed oil circuit“. This ensures high-precision lifting, lowering and slewing of loads. Moreover, the potential energy generated during lowering is not transformed into heat but can be reemployed for a 2nd motion which results in the particular advantage of fuel saving and less thermal effects on the oil compared to an open circuit. No overheating of the oil.



Optional features contribute to an expansion of the application spectrum and increase comfort and safety.

On carrier

- Eddy-current-brake
- Outrigger control
- Rope box
- Air-conditioning system
- Radio preparation device
- Seat heating for driver's and co-driver's seat
- 3rd seat
- Shunting coupling
- Fog lamps
- Cassette radio set

On crane superstructure

- Air-conditioning system
- Seat heating
- Mirror installation on hoist gear
- Work area limitation system
- Wind warning device – telescopic boom/swing-away jib
- Aircraft warning light
- Work projector 2 x 150 W on telescopic boom base section
- GSM module for remote diagnostic
- Radio preparation device
- Cassette radio set

Further optional features by request.

Please contact

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