Telescopic Crawler Crane LTR 1060

Max. lifting capacity: 60 t
Max. lifting height: 55 m
Max. working radius: 50 m

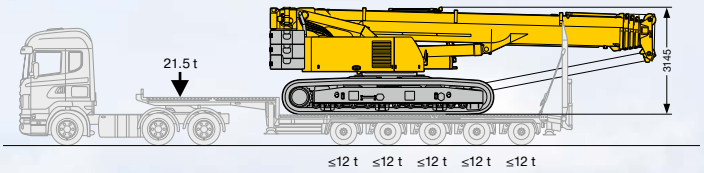
LIEBHERR

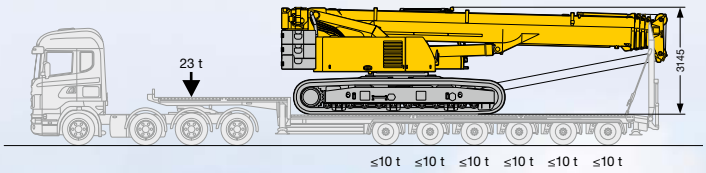
Telescopic Crawler Crane LTR 1060
Outstanding off road capabilities and manoeuvrability

A long telescopic boom, high capacities, an outstanding manoeuvrability as well as an extensive comfort and safety configuration distinguish the telescopic crawler crane LTR 1060 from Liebherr. The 60-ton crane offers state of the art technology for more convenience for the practical operation.

- **Strong, 40 m long telescopic boom with high telescopable capacities**
- **“Pick-and-carry”, driving with full capacity**
- **Short erection times, fast repositioning on the job site**
- **Transport weights:**
  - Complete only 62.6 t
  - Without ballast only 37.5 t
- **Compact dimensions:**
  - Transport width only 3.0 m
  - Transport height only 3.15 m
- **Optimized for erection of precast elements in 2-hook operation with 2nd winch and erection jib**

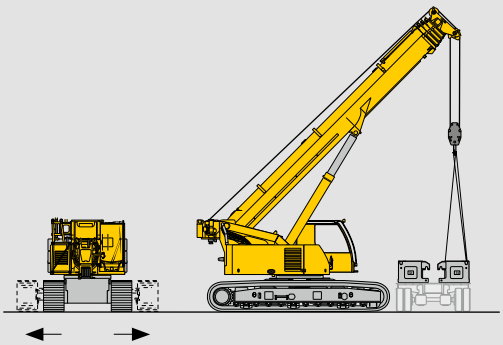
Transport example, crane with complete ballast

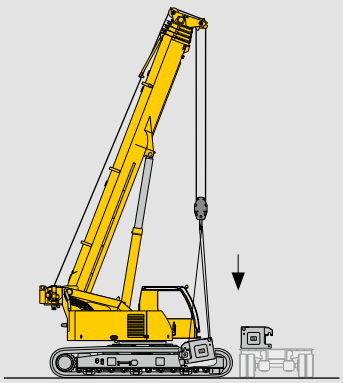




Transport example, crane without ballast

Central ballast 10 t





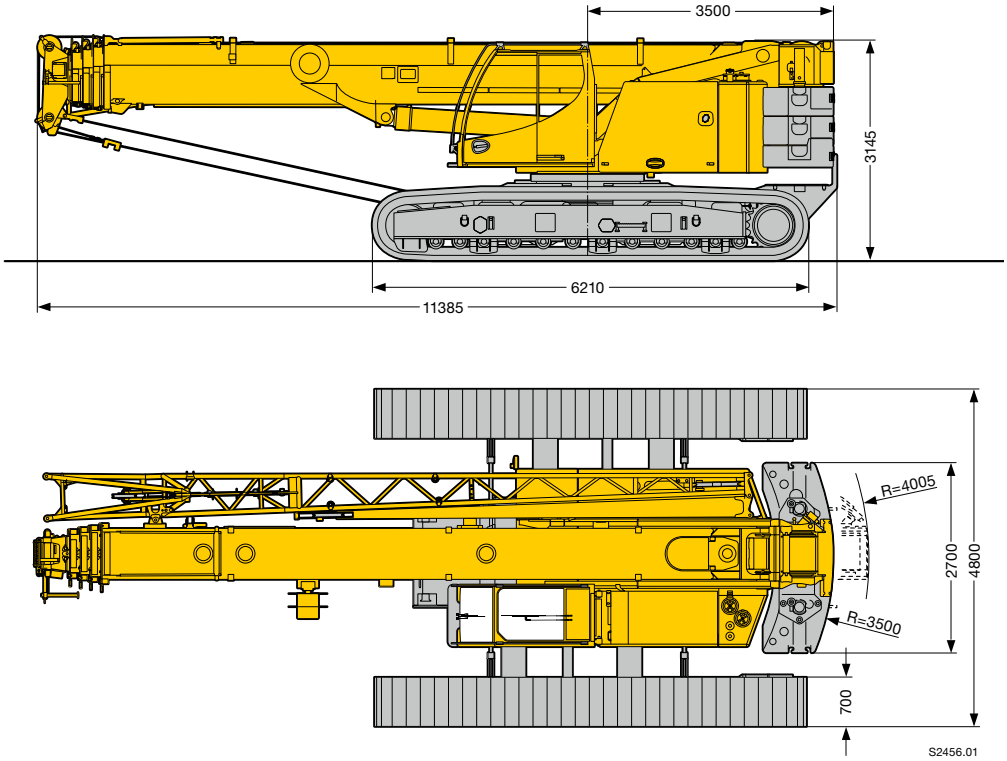
Fast and economical ballasting of the central and slewing platform ballast by self ballasting.

Economical transportation and simple erection

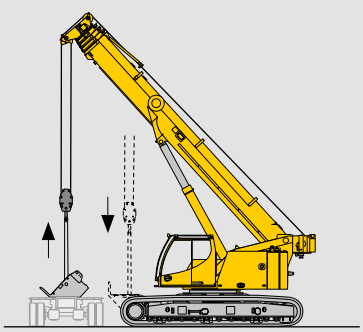
Optimized weights and dimensions

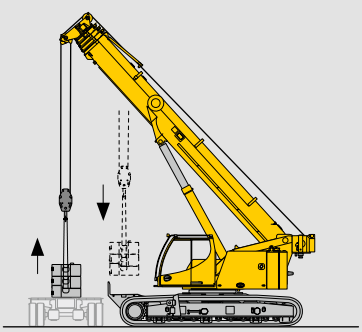
The design lay out of the 60 ton crane allows a particular economic transportation. Complete with slewing platform and central ballast the LTR 1060 weighs only 62.6 t. The axle loads on transportation with a 3-axle tractor and a 5-axle trailer stay below 12 t. When using a 6-axle trailer and a 4-axle tractor the axle loads can even be reduced to 10 t.

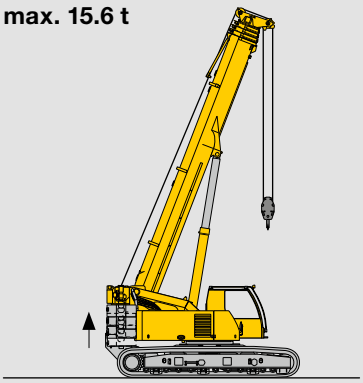
The crawlers are retracted to a width of 3.0 m during transportation. Due to the low crane height of 3.15 m cost effective standard low-bed trailers can be used. By dismantling of the ballast the transport weight can further be reduced down to the dead weight of the basic machine of 37.5 t. On the job site the central ballast as well as the slewing platform ballast can be self installed without the use of an auxiliary crane. A hydraulic self ballasting device is optionally available.



Slewing platform ballast max. 15.6 t







3-bar crawler shoes · Width 700 mm

Hydrostatic drive from Liebherr

- Drive by engine in superstructure
- Stepless control of the driving speed
- Normal gear 0 – 3 km/h
  Crawling gear 0 – 1 km/h
- Drive force 410 kN
- Ground pressure 8.6 t/m²
- Gradeability 46 %

Option: Flat crawler shoes · Width 700 mm

Great operational diversity and comfort

High flexibility

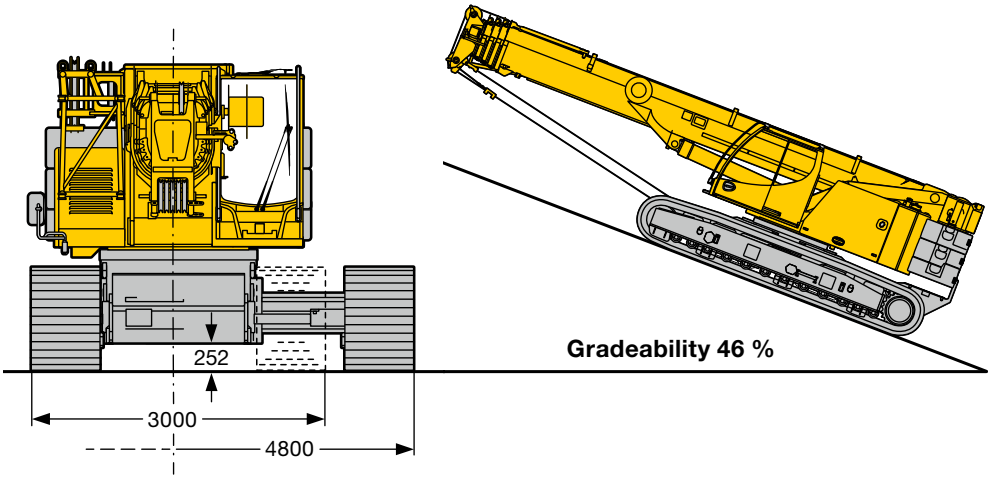
Based on its outstanding off road performance and the possibility to drive sensitively under full load the LTR 1060 offers a tremendous operational flexibility for e. g. erection of prefabricated sections, at pipeline construction or as auxiliary crane for the erection of wind power plants.

Telescopable crawlers

In cramped conditions the crawlers can be retracted hydraulically to a chassis width of 3.0 m. Also on this narrow crawler track the LTR 1060 can conduct crane operations, which are safeguarded by the LICCON safe load indicator. The extending and retracting can be performed in assembled condition.

Crane operation with side inclination

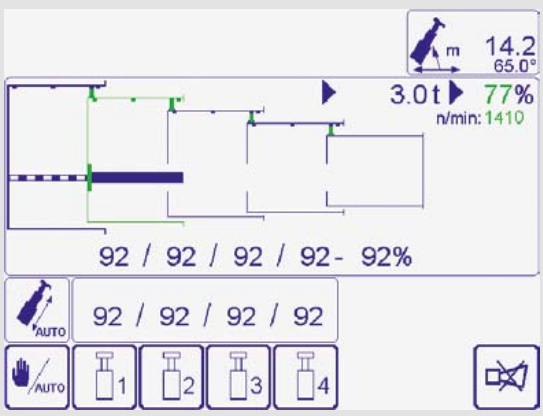
Additional operational possibilities are offered by the load charts programmed as standard for working with main boom and assembly jib on surfaces with an inclination up to 4°. To ensure high capacities also under these conditions the sheaves at the boom head and the assembly jib are manufactured from steel.



Telecopable crawlers

The crane cab

- Large field of vision
- Safety glazing
- Tinted window panes
- Crane driver's seat with lumbar support, multiply adjustable
- Heat and noise insulated interior cladding
- Corrosion resistant
- Working floodlight
- Tiltable 20° backwards

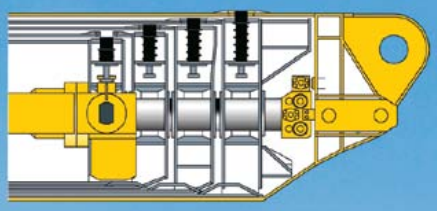


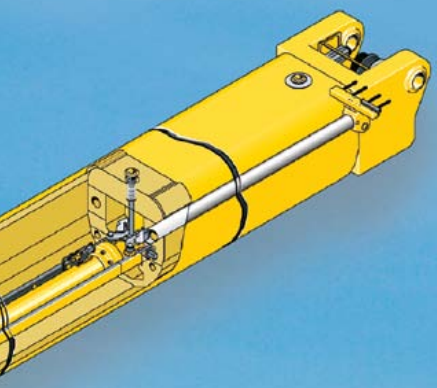
The fully automatic telescoping system „TELEMATIK“

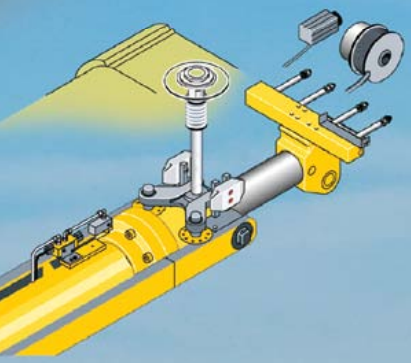
- Improvement of capacities at long booms and large radii due to “lightweight” telescoping system
- 1-stage hydraulic cylinder with hydraulically operated drive pin
- Maintenance free telescoping system
- Telescoping fully automatic
- Simple operation, supervision of telescoping at the LICCON monitor

The assembly jib

High capacities and flexible boom system







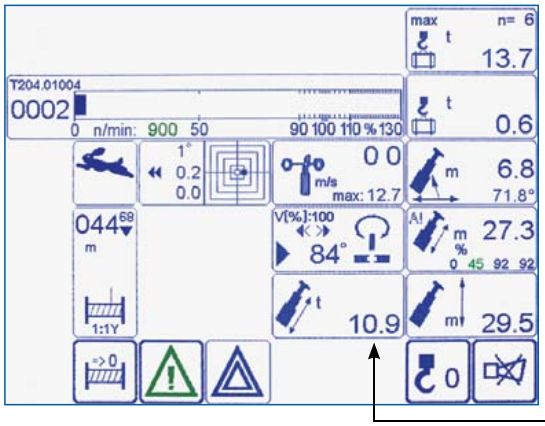
Powerful, long telescopic boom and functional lattice extensions

The telescopic boom consists of the base section and 4 telescopic sections, which can be comfortably and automatically extended and pinned to the requested length by the thousand fold proven single cylinder telescoping system TELEMATIK.

- 40 m long telescopic boom
- 9.5 m – 16 m long double swing-away jib, attachable at 0°, 20° and 40°
- Hydraulic assistance for assembly of the swing-away jib
- 2.5 m long assembly jib
- Rooster sheave, foldable sidewise

High capacities with unpinned telescope lengths

- High telescopable capacities due to interpolation
- Separate capacity charts for holding of loads at unpinned telescopic lengths
- Display at LICCON monitor



Holding capacities

Unpinned telescopic lengths

Telescopable capacities

The rooster sheave

Safe and comfortable assembly of the swing-away jib with hydraulic assembly assistance and Bluetooth Terminal BTT

The hoist gear

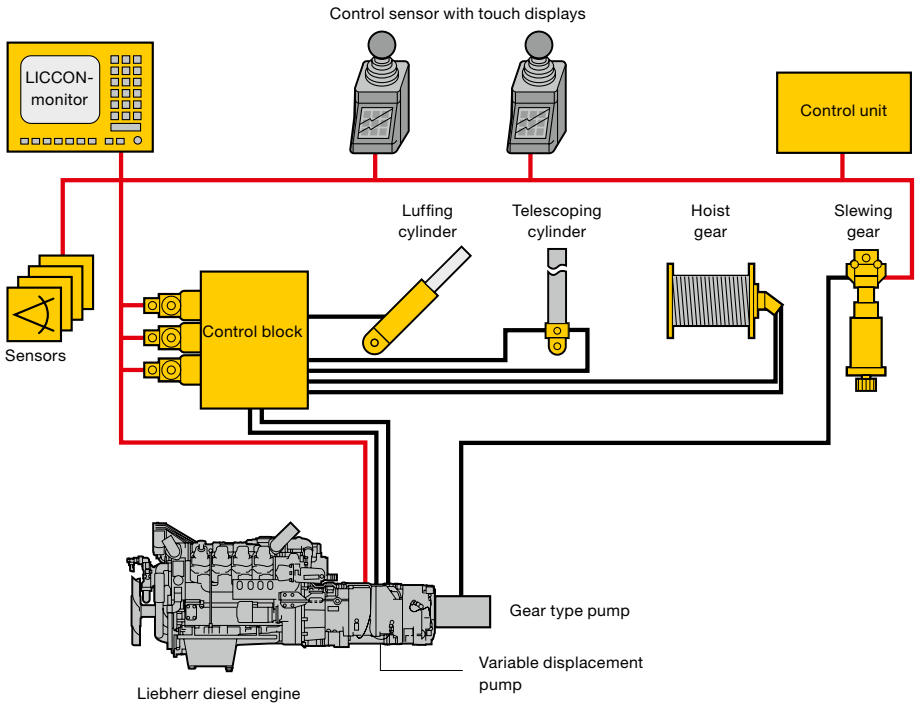
- Liebherr hoist winch with internal planetary gear and spring loaded multi disk brake
- Rope pull 45 kN at the outer layer
- Max. rope speed 111 m/min
- 2. hoist gear optional

Powerful crane drive

With proven components

The drive components for the crane operation are designed for high performance and provide for sensitive and precise handling of the load. They are specially tuned for the crane operation and proved in severe long-term tests.

- Crane engine: 4-cylinder Liebherr turbo diesel engine, 129 kW/175 HP at 1900 rpm, max. torque 815 Nm at 1500 rpm, optimized fuel consumption by electronic engine management
- Diesel-hydraulic crane drive, open hydraulic circuits with electric „LOAD SENSING“-control, 4 working motions simultaneously possible
- Electric/electronic SPS-crane control via the LICCON-computer system
- Comfortable armrest control with 2 self centering 4-fold multi function joysticks, stepless control of all crane movements with winch and slewing turning sensors, electronic pilot control
- Slewing gear reversible from open to hydraulically locked, so the slewing motion can be optimal adapted for the different operation conditions, e. g. sensitive for installation work or fast for cycle work



The slewing gear

- Liebherr planetary gearbox, spring loaded multi disk brake
- Reversible open or hydraulically locked as standard
- Slewing speed from 0 – 1.7 min^{-1} infinitively variable and sensitively controllable

The central greasing

- Standard central greasing device for slewing bearing, boom bearing, luffing cylinder and winch bearing
- Even supply of grease
- Filling quantity visible at any time in transparent reservoir

Intelligent crane control

For functional, safe and comfortable crane operation, the new control generation LICCON2

The soft- and hardware of the mobile crane control is developed by Liebherr in-house. The central point is the LICCON computer system (Liebherr Computed Controlling). The system undertakes extensive information, control and supervision tasks. With the mobile control and display unit BTT – Bluetooth Terminal the erection operations are comfortably and safely conducted within view.

Track adjustment by BTT

Driving of the crawler chassis and complete crane control with wireless remote control (Option)

PN 201.00.E04.2011

Liebherr-Werk Ehingen GmbH
Postfach 1361, 89582 Ehingen, Germany
☎ +49 7391 502-0, Fax +49 7391 502-3399
www.liebherr.com, E-Mail: info.lwe@liebherr.com