

The new boom technology.

Liebherr has developed entirely new 5/6/7-section telescopic booms for the LTM mobile cranes of the 60, 80, 90, 100, 120, 160, 300 and 500 t class. The technology's focal points are the new oviform boom profile and the automatic telescoping system "Telematik".

The oviform boom profile.

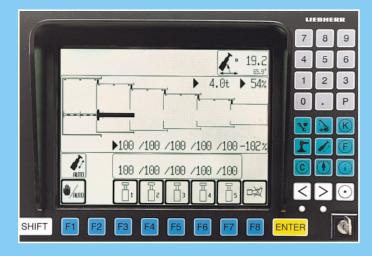
It provides particular inherent stability against deflection and torsion. Since the telescopes do no longer need to be equipped with buckling resistance gussets nor with material doublings, a considerable cross-section enlargement of the structural components can be realized by reducing the distance between the individual telescopes. At steep boom position as well as at wider radii, the new oviform boom profile offers optimal lifting capacities.

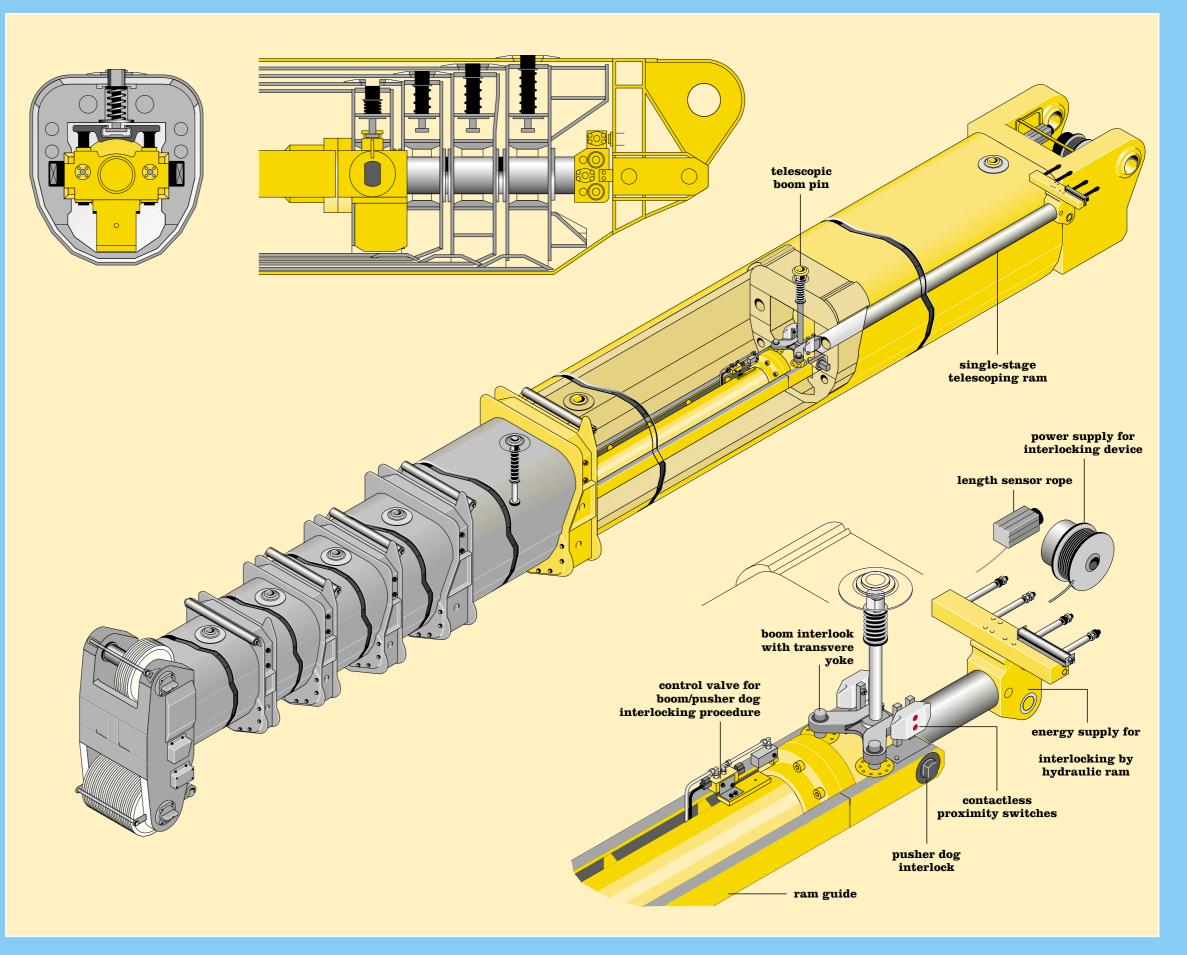
The automatic rapid-cycle telescoping system "Telematik".

In essence, it consists of the following:

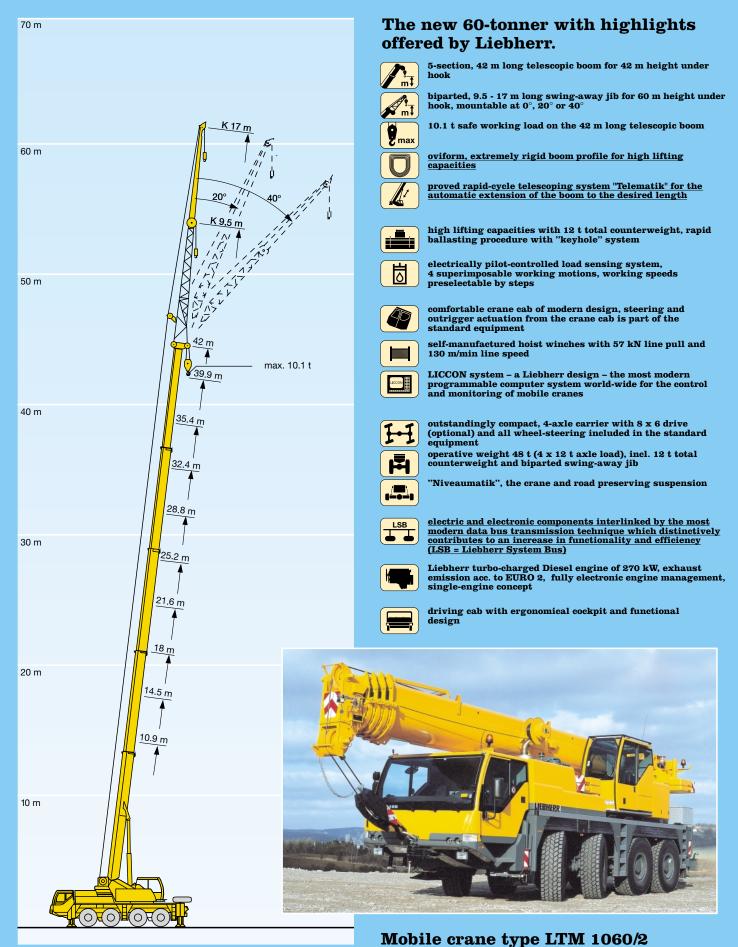
- the double-action telescoping ram
- the hydraulic gripper interlocking system at the base of the hydraulic ram
- the hydraulic boom pins for interlocking the boom sections with one another, and
- the electric/electronic sensorial system, an additional module of the LICCON crane control.

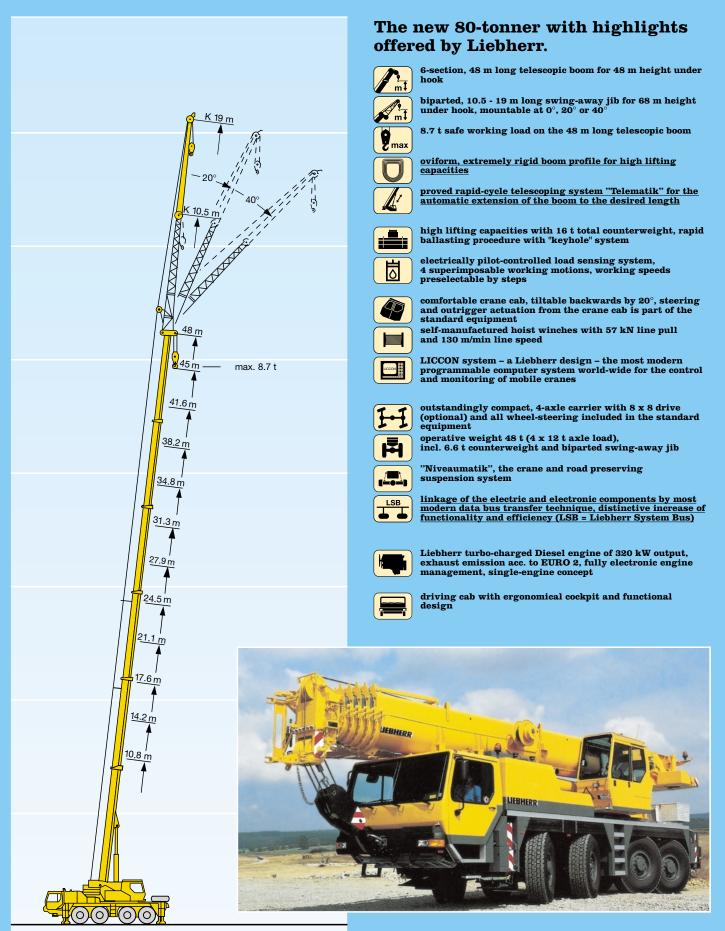
The gripper and boom interlocking systems are coupled with one another, i.e. a boom section can only be released at the upper shell if the gripper is interlocked with this particular boom section at the same time. This also guarantees mechanical reliability of the telescoping system. With the exception of the electrical supply line to the hoist limit switch, no electric, hydraulic nor pneumatic components are located in or on the telescopic boom. The automatic telescope control - part of the LICCON crane control - offers more than 1000 different extension conditions of the telescopic boom. The saving of time during telescoping due to the automatic operation and thus the combinatorial variety determine the outstanding functionality of the new boom technology. With their long telescopic booms, the Liebherr mobile cranes of the 60, 80, 90, 100, 120, 160, 300 and 500 t class offer entirely new application facilities.



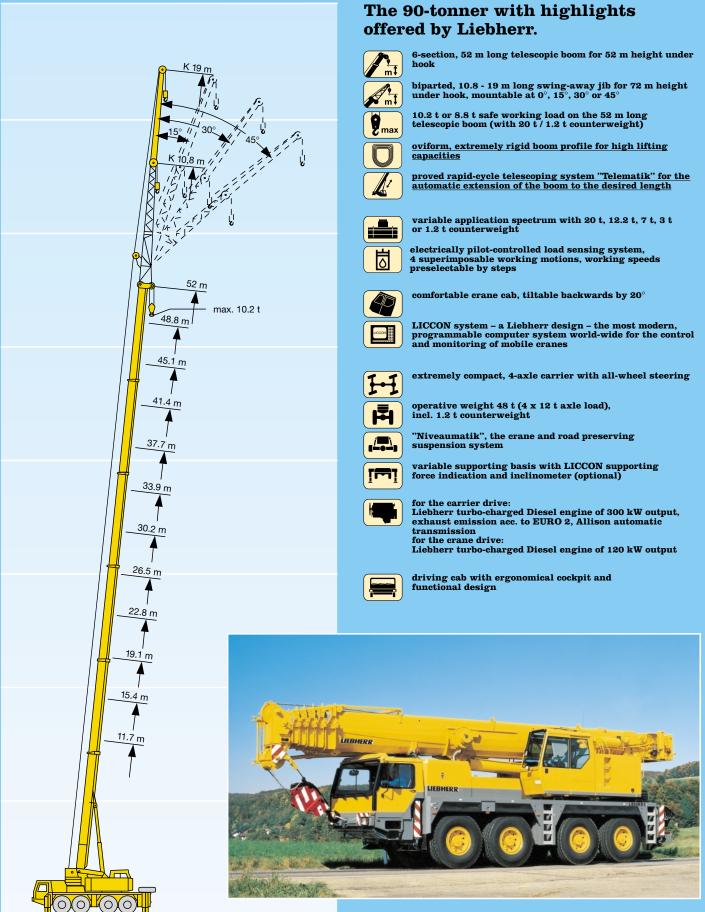


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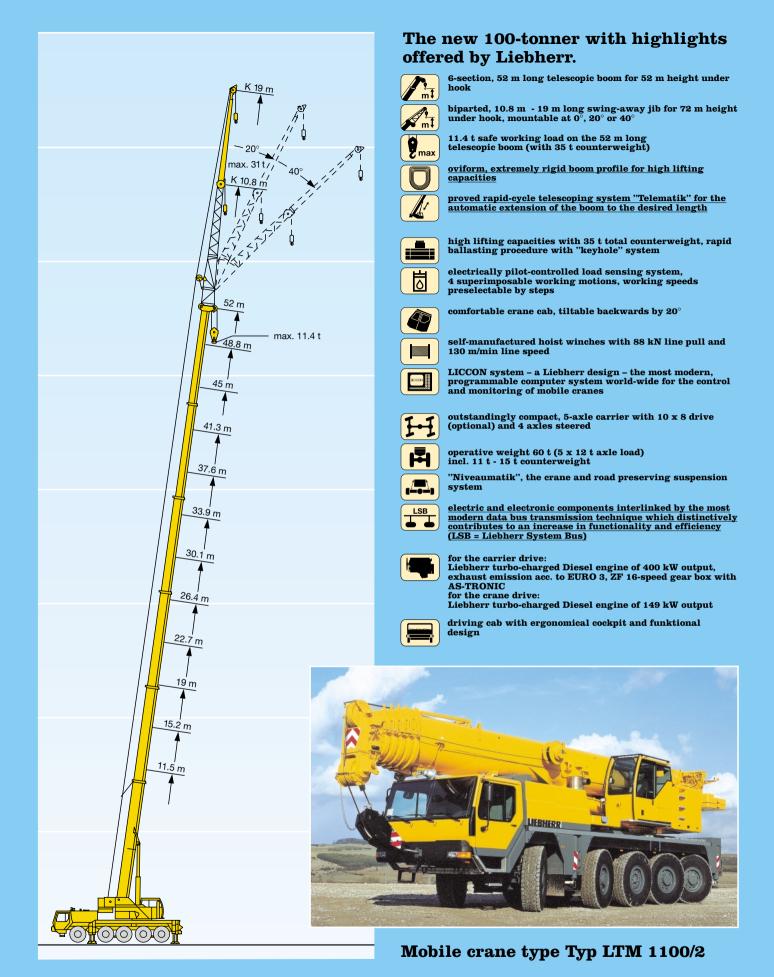


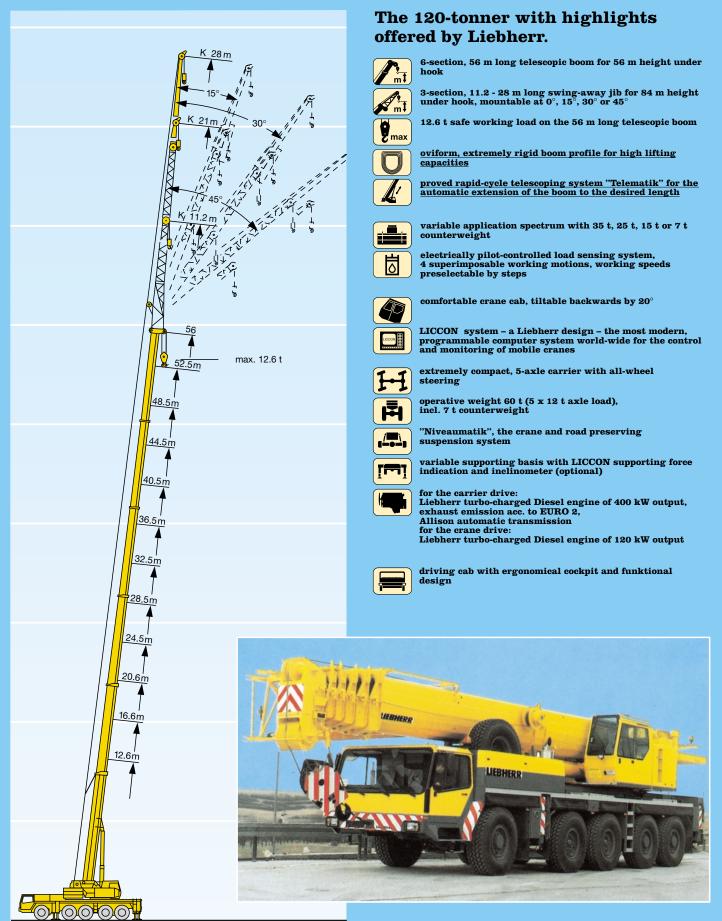


Mobile crane type LTM 1080/1

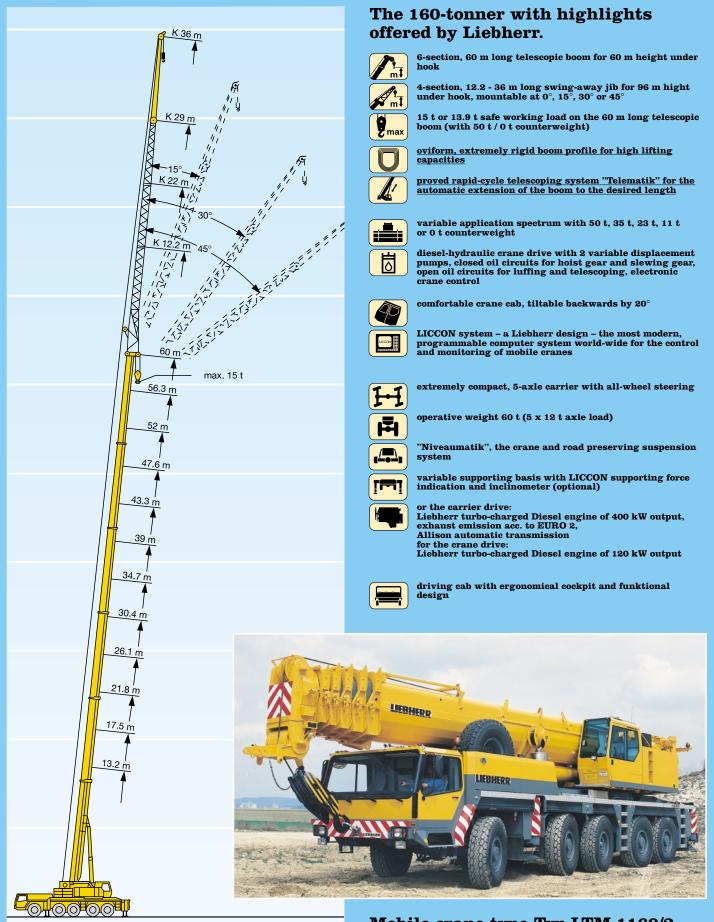


Mobile crane type LTM 1090/2





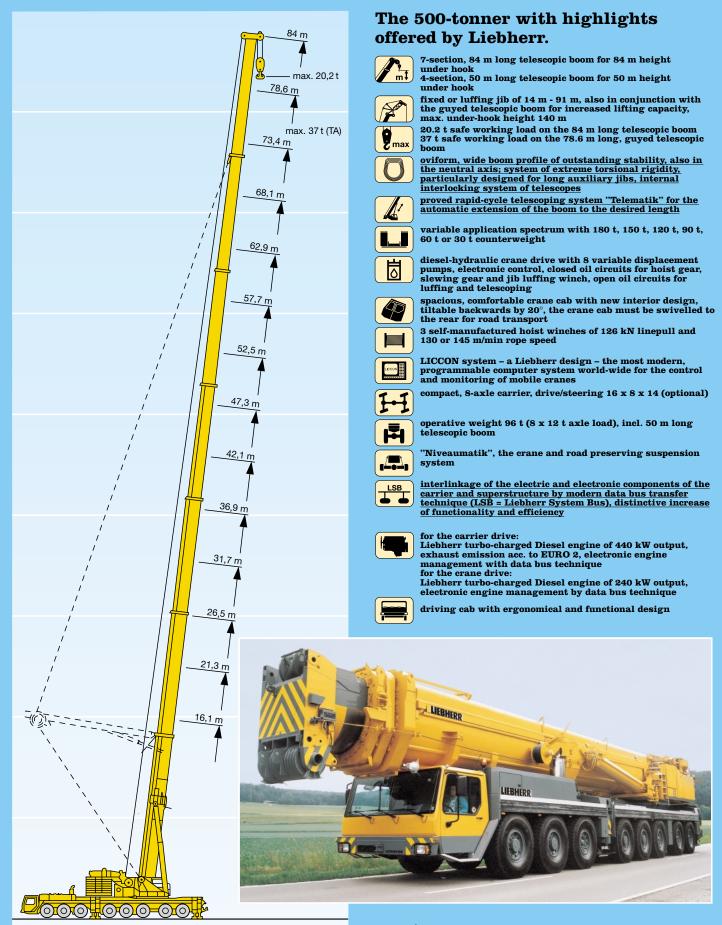
Mobile crane type LTM 1120/1



Mobile crane type Typ LTM 1160/2



Mobile crane type LTM 1300/1



Mobile crane type LTM 1500

Subject to modification. TP 248d. 6.00

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