



# The 32 TT fast-erecting crane.

Also on crawler-track undercarriage.



# LIEBHERR

# Multi-talented and supremely economical.



With its innovative technology, the 32 TT fast-erecting crane with double telescoping action redefines the performance standard in its size category. The pioneering telescopic action represents a major step forward. Such a varied range of tasks is unique. For the operating company, this variety makes the 32 TT supremely cost-effective.

For use on difficult terrain, this crane is also available on crawler tracks as 32 TTR providing you with a wealth of benefits on the building site.

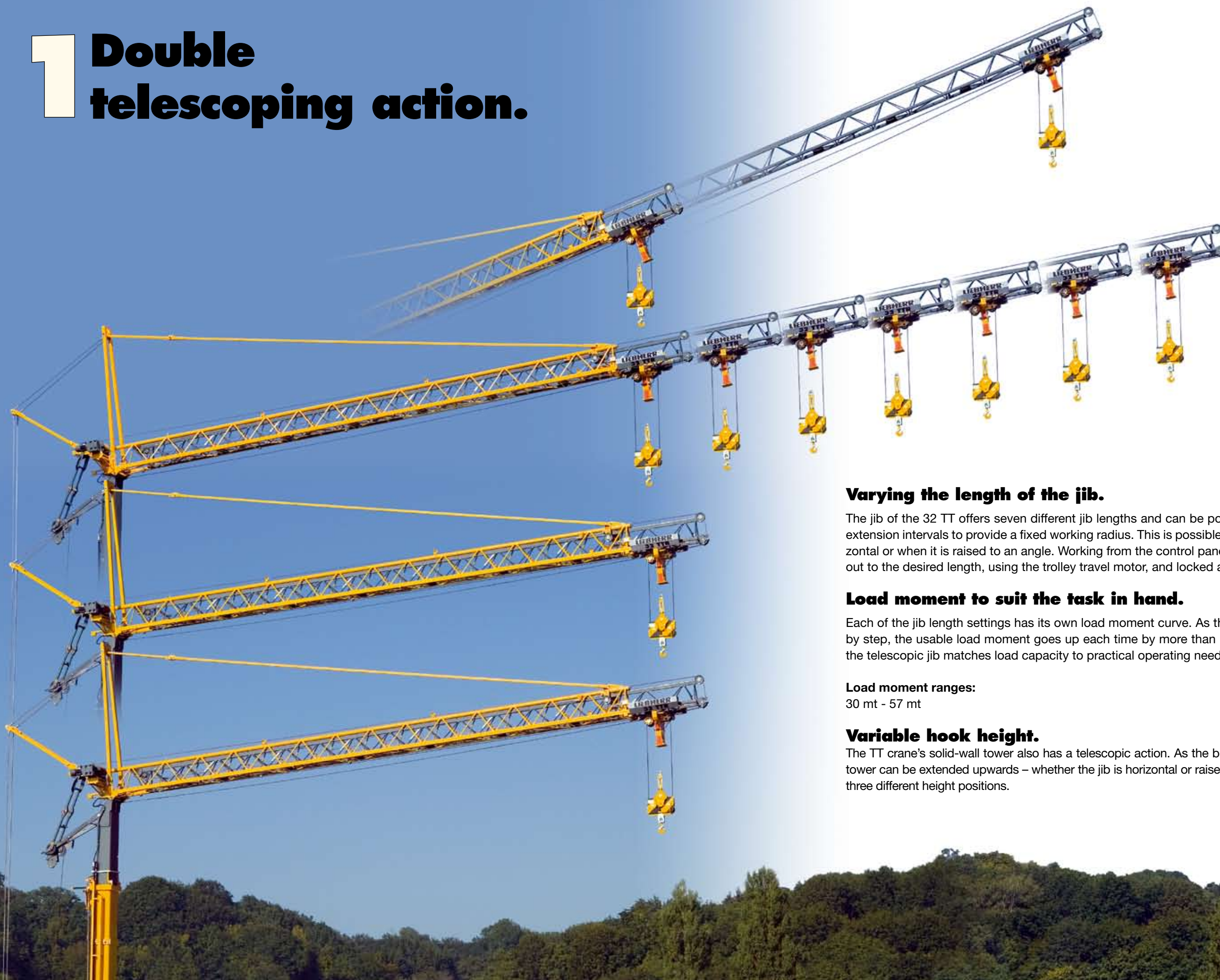
**1 Double telescoping action.**  
Both the tower and the jib of the 32 TT fast-erecting crane can be extended and retracted telescopically and varied in length to suit every on-site operating situation.

**2 Adaptability means cost effectiveness.**  
Due to its combination of telescopic jib and tower and the adaptability with several load curves, the TT crane guarantees an exceptional versatility. It can be adapted precisely to individual operating situations as well as to the progress of work on the construction site. With the crawler tracks of the 32 TTR, rapid relocation from one site to another with full ballast causes no problems.

**3 Unbelievably easy to erect.**  
The TT crane is not only compact to move from site to site on the road, it can also be erected extremely quickly. Its ingenious erecting linkage lifts the crane on the support spindles automatically. One person can prepare the TT crane for operation within about 30 minutes.

**4 Powerful drives manufactured by Liebherr.**  
All drives are developed and produced at the Liebherr plant in Biberach. They have been specially designed for crane use and guarantee a long service life.

# 1 Double telescoping action.



## **Varying the length of the jib.**

The jib of the 32 TT offers seven different jib lengths and can be positioned at two-metre extension intervals to provide a fixed working radius. This is possible both with the jib horizontal or when it is raised to an angle. Working from the control panel, the jib is simply run out to the desired length, using the trolley travel motor, and locked automatically.

## **Load moment to suit the task in hand.**

Each of the jib length settings has its own load moment curve. As the jib is retracted step by step, the usable load moment goes up each time by more than 10 %. In other words, the telescopic jib matches load capacity to practical operating needs.

### **Load moment ranges:**

30 mt - 57 mt

## **Variable hook height.**

The TT crane's solid-wall tower also has a telescopic action. As the building progresses, the tower can be extended upwards – whether the jib is horizontal or raised at an angle - offering three different height positions.

# 2 Adaptability means cost effectiveness.

The innovative 32 TT design principle makes this crane exceptionally versatile. For use on difficult terrain, this crane is also available on crawler tracks as 32 TTR providing you with a wealth of benefits on the building site. The 32 TTR with crawler-track undercarriage is noted for its outstanding mobility and therefore its exceptional economy. Soil pressure is only 12 N/sq. cm in transport position and 21 N/sq. cm in service. Maximum travel speed is 25 m/min with a drive rating of 22 kW.

With the tower retracted, this crane is ready for operation immediately after erecting.

The 32 TT standard crane equipped with its road axles can also be run into extremely narrow gaps between buildings, with the tower either fully erected or half-erected. This simplifies work on the building site immensely and can save a lot of time in many operating situations.

A single, versatile TT crane can handle a range of work that would otherwise need several different types of crane – a definite economy bonus.



Compact design, quick and easy movement.

Obstructions are no problem for the 32 TT.

32 TTR on crawler-track undercarriage flexibly used on the construction of a bridge.

# 3 Unbelievably easy to erect.

## Erecting is so simple.

The TT crane can be erected quickly and easily from the transport position. The erecting linkage is operated conveniently from the control panel, and the TT crane unfolds automatically.

The TT crane uses its erecting winch and two double guide arms to reach the vertical position – a completely new sequence of erecting movements. When the tower is erected – but not yet extended telescopically – the jib has already moved out to the working position.

## An innovative ballasting technique.

The erecting winch gives the tower the generous ballasting radius of up to 5 metres. The hoisting winch is then operated to place the ballasting slabs in position. The new semi-automatic ballasting tongs and the equally new ballast slab centring system set new standards in this area too.

The new ballasting tongs help to make ballasting far easier: they are simply placed in position accurately and released by hand – the remainder of the process is automatic.

## Complete and ready to operate.

After ballasting, the TT crane is complete and ready to operate. The tower is locked to and released from the slewing platform semi-automatically, using the Quick Connection system. Only a wedge is used to secure the taper pins. The inner tower is locked fully automatically to the outer tower.



# 4 Powerful drive systems.

## Hoisting and erecting winches.

The hoisting and erecting winches have separate drives. As an optional extra, a hoist gear with frequency converter is available for continuous speed control between 0 and 50 m/min.

## The EDC slewing gear.

The patented EDC slewing gear is another standard feature of the 32 TT crane. Its electronic control system permits extremely sensitive, jolt-free slewing movements. Continuously variable working speeds, electronic wind-load regulation, automatic damping to prevent load oscillation and peak moment limiting to prevent excessive strain on the crane structure are further advantages of this well-proven technology. Electronic monitoring allows the crane operator to reverse the slewing gear by applying power in the opposite direction.

## Trolley travel gear.

The trolley travel gear is equipped with a double pole-changing motor that not only moves the trolley at speeds of either 20 or 40 metres/min but also extends and retracts the jib.

## Every detail carefully planned.

### The multifunctional trolley.

The TT's multifunctional trolley changes gauge automatically as it passes from the heel section to the outer section of the jib. Working from the control panel, the trolley is automatically halted if the jib is to be telescopically extended. When the jib is at its new length, the crane operator locks it in position from the control panel, after which the trolley is free to move again. It's as simple as that: when the trolley is halted, the jib can be moved in or out; when the jib is halted, the trolley can be moved.



Hoisting and erecting winches.



EDC slewing gear.



Patented automatic rope re-reeving.



Trolley travel gear.





# Performance overview.

## Working radii

7 jib lengths:  
18.0 m, 20.0 m, 22.0 m, 24.0 m,  
26.0 m, 28.0 m, 30.0 m

## Hook heights

14.5 m, 19.0 m, 24.0 m

## 20° raised jib position

(optional extra)

## Slewing radii

2.5 m, 2.75 m

## Length for road transport

16.7 m

## Simple erecting linkage

## Patented ballasting system

(optional extra)

## Ballast

Self-centring (optional extra)  
Semi-automatic ballasting tongs

## Crane movement in upright position

32 TT: on axles  
32 TTR: on crawler tracks

## Multifunctional trolley

Automatic rail-gauge changeover

## Automatic re-reeving

Double-reeved or double-quadruple-reeved (optional extra)

## Switch cabinet

Contact control system

## Hoist gear

3x pole-changing 11.0 kW  
or with frequency converter  
11.0 kW (optional extra)

## EDC slewing gear

32 TT: standard feature 2.2 kW  
32 TTR: standard feature 3.0 kW

## Trolley travel gear drive

2.6/3.5 kW

## Operating support

Automatic locking

## Control stand

(optional extra)

## Crawler-track undercarriage

Compact design  
Low ground contact pressure  
Excellent off-road mobility  
Rapid relocation with full ballast