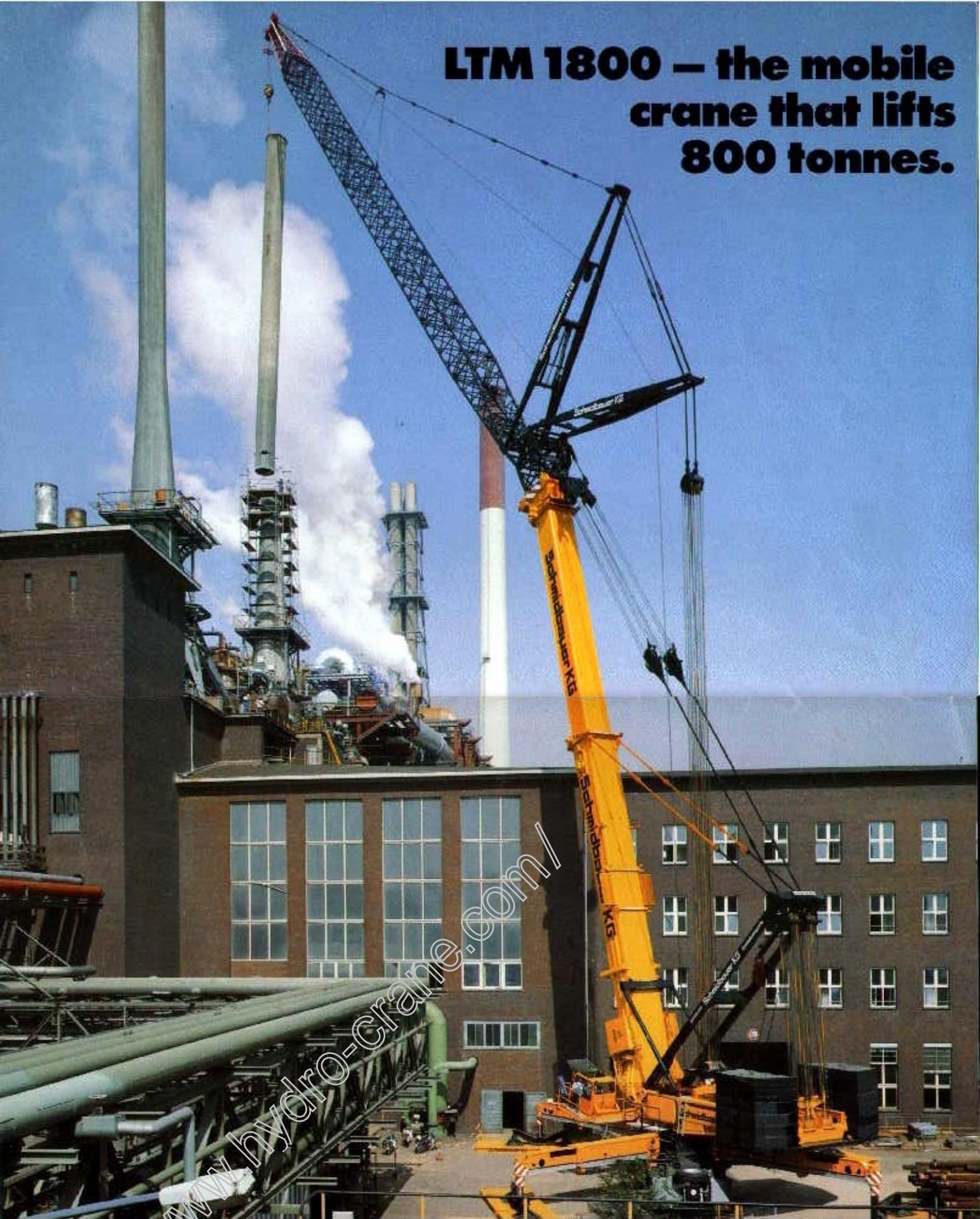


**LTM 1800 – the mobile
crane that lifts
800 tonnes.**



LIEBHERR

The better crane.



The LTM 1800 has "Niveaumatik" suspension, a Liebherr development, with remote control. This ensures uniform axle-load distribution, equalisation of axle loads between pairs of axles, automatic levelling of all axles at the touch of a switch, crane superstructure lowering by 150 mm to provide increased headroom, crane super-

structure raising by 150 mm to improve front and rear overhang angles, and suspension locking when travelling on site with a suspended load. Suspension modes for the various driving situations are stored as fixed programs, and selected electromagnetically at pushbutton switches in the cab.



The spacious driver's cab is fully galvanized to prevent corrosion, and noise-insulated. The steering wheel is adjustable for height and angle, the controls and instruments are standardized in layout and there are comfortable hydraulically damped seats for the driver and co-driver.



Installing the telescopic boom is a quick, simple matter. With a tensioning ram on the erecting bracket and chain tackle, the boom is lifted off the semi-trailer and swung along the slewing platform centerline. The erecting bracket is repositioned until the base of the boom locates

in the pivots on the slewing platform, and the pins are inserted hydraulically. Assembly takes no more than 30 minutes, and the semi-trailer can be parked along or across the crane's main axis. The boom of this 800-tonner is installed in no time, even in the most restricted space.



The 4 pivoted arms engage with the base of the frame in a star pattern. By transmitting forces direct to the struts in this way, there is no torsional load on the chassis, and elasticity remains constant throughout the slewing range.



The powerpack that drives the crane itself comprises a 405 hp Daimler-Benz diesel and 4 output-controlled variable-pitch pumps. In addition to the luffing winch, three other winches can be mounted on the slewing platform. They are driven from closed hydraulic circuits. The energy released when the load is lowered, for example, can be transferred directly to another working

movement - a drive system that makes the most of available energy.

Total ballast is in 17 sections, and weighs 153 tonnes. No second crane is needed to stack the base and side slabs on the chassis with the optional ballasting device and run them up to the slewing platform with the hydraulic carriage.



When the crane is operated, the cabin is swung out on a cantilever arm and tilted back to improve the operator's view. Spacious, noise-insulated and equipped with standardised controls and instrumentation, this cab satisfies every comfort and safety requirement.

Subject to amendment.

P 94.0 9.87

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In the 800 t class, there's a new dimension in mobility and versatile crane operation: the Liebherr Type LTM 1800. With a load capacity of 800 t, a lifting height of up to 134 m and a working radius of 104 m, this new heavy-duty crane's data can stand up to any comparison. It's based on an advanced Liebherr design concept:

- the LTM 1800 can work with either telescopic or lattice boom.
- complete with star-pattern supports, but without telescopic boom, it weighs 96 t and can therefore travel on the public highway as a normal vehicle.
- the telescopic boom is installed in not more than 30 minutes, using the crane's own erecting bracket. No second crane is needed!
- there is a built-in ballasting device, so that once again a second crane does not have to be used.
- ready to operate, this crane can travel on site with a 60 m telescopic boom, a 77 m lattice fly jib and ballasted to more than 300 t gross weight.
- "Niveumatik" suspension with program control equalises axle loads, keeps the crane level along and across its centerline and ensures a comfortable ride.



Mobile on the road with an 8-axle chassis, a 530 hp turbocharged diesel engine, a 5-speed torque-converter transmission and 4 driven and 6 steered axles. Compact on site to the operating site - with the erecting bracket stowed hydraulically on the slewing platform, the four-point star-pattern supports folded in and the crane cab swung in and lowered. A safe ride for the crane - thanks to "Niveumatik" suspension. It keeps the chassis level, stable and manoeuvrable on the roads, gets it under low bridges and across rough terrain.



The 4-section telescopic boom, 60 m long, travels on a conventional semi-trailer with steered trailing axle. The supports on the trailing axle turntable and the fifth wheel are of simple pattern, without hydraulic levelling. Hydraulic tanks for the telescoping gear are permanently attached to the sides of the telescopic boom. The pins securing the boom to the slewing platform are on the base of the boom.



The LTM 1800 – in load capacity, lifting height and working radius, it's the leader.