



PRODUCT ADVISORY

ZWB PA 13 002-01

THIS PRODUCT ADVISORY PROVIDES INFORMATION RELATED TO PRODUCT USE, MAINTENANCE, INSPECTIONS, AND UPDATES AVAILABLE FOR OUR PRODUCTS.

SUBJECT:

LOAD TESTING OF MOBILE CRANES

DATE OF RELEASE:

October 09, 2013

VERSION:

01

MODIFICATION:

Creation of Bulletin

MODEL(S) AFFECTED:

ALL Terex Cranes Mobile Cranes (Crawler/Lattice boom, All Terrain, Rough Terrain Cranes)

ISSUE:

Terex Cranes as a worldwide manufacturer **does not recommend** regular overload testing on Mobile Cranes.

Overload testing on site after each re-assembly or relocation of the crane is not considered as a reliable and safe method to verify the correct assembly of the crane and may lead to premature failure due to fatigue if applied very often.

National regulation in some countries require load test according to the information provided by the crane manufacturer (e.g. load test factors)

BACKGROUND:	<p>Example of the situation in Europe:</p> <p>European Crane Manufacturers organized as FEM (Fédération Européenne de la Manutention) do not recommend regular overload testing on Mobile Cranes. FEM issued a guideline about overload testing on mobile cranes and the recommended practice to verify the correct assembly of the crane.</p> <p>The European harmonized Product Standard for Mobile Cranes EN13000 is being amended and aligned with the FEM guideline (publication expected in 2014)</p> <p>Terex provides further information on this topic to help crane owners to safely operate and assemble cranes and to allow them to provide the relevant information to third party inspection bodies in countries where national regulation requires such load tests.</p>
ACTION:	<p>Please add the below instructions (including the FEM document as needed) to the crane documentation.</p> <p>Terex Cranes will update the instruction manual accordingly.</p>

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For enquiries or comments about this notice, please contact:

Terex Cranes Germany GmbH
Dinglerstr. 24, 66482 Zweibrücken, Germany

Department: Parts & Service
Phone: + 49 (0) 6332 83 1111; E-Mail: zwb.customersupport@terex.com

INSTRUCTIONS



FEM CLE MC N 0308
Overload testing of r

Terex Cranes Instructions relative to load tests:

In addition to the guidance and recommendation given in attached FEM statement, Terex Cranes provides following complementary information and instructions:

Verification of assembly:

The verification of the correct assembly of the crane (e.g. after re-assembly of lattice boom) should include:

- a visual inspection of the assembled parts before erection of the boom.
- a functional test of the crane without or with limited load and including:
 - all movements relevant for the job to be performed.
 - a verification of the limit switches e.g. hoist limiter.
- a verification that the assembly has been performed according to the instructions described in the manual.

Load test factor:

If load tests are required by national or local regulation as part of the verification of the crane assembly (e.g. after assembly of the crane or after relocation of the crane on the job site), the load test shall not exceed 100% of the rated capacity of the crane in the given configuration; these figures are valid for all Terex Mobile Cranes and for both static and dynamical load test. For the static test, a duration of 5 minutes is considered as sufficient.

NOTE: Above load test factors do not apply to load tests which might be necessary after a major modification or repair of load-bearing parts of the crane. In this case, the appropriate load test factors may be greater (corresponding e.g. to the safety factors defined in product design standards). It is recommended to involve the crane manufacturer for such tests and to conduct such test only in a controlled environment, typically not on job sites.

Load test configuration:

If a load test is required (based on regulation), the test conditions should reflect the conditions of the planned lift. It is acceptable for Terex to perform a load test for the given configuration with reduced load (less than the max lifting capacity), but at greater radius up to the maximum permitted radius (e.g. at max load moment).

Reasoning: For lattice boom cranes, one of the most critical stage during the crane setup (in terms of constraints and loading) corresponds to the erection of the main boom (lifting from ground); this operation is to be considered as a load test for the main load bearing parts like boom sections (under compression and bending), suspension rods/pendant bars (under tension force), boom luffing winch, Superlift mast, etc.

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