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The new Liebherr LHM 420 Mobile Harbour Crane

Liebherr is again expanding its range of Mobile Harbour Cranes and is taking the opportunity of the TOC Europe 2011 to present the new model LHM 420.

This new heavyweight crane is the successor of the LHM 400 and bridges the gap between the LHM 550 and the LHM 280. The LHM 420 will be available in two variants with maximum lifting capacities of 84 and 124 tonnes. Maximum radius is 48 meters making the LHM 420 ideal for loading and unloading from a wide variety of vessels, from Handysize to Post-Panamax class. This crane is specially designed for container movement, bulk material, heavy loads and any other cargo handling tasks.

Functional machine design

Close attention was paid during development work to giving the machine a function-optimised structure that also interprets clearly defined brand design features. As a result, the LHM 420 sets a new standard in task-oriented design for



large handling equipment, and thanks to the individuality of its brand attributes can be clearly distinguished from its competitors.

The highly successful undercarriage system still gives the most manoeuvrable mobile harbour crane in the market. The unique cruciform supporting system is unrivalled in terms of stability and operational safety. Easy adaptation to various sizes of support bases and pad sizes as well as the simple incorporation of additional axle sets for better weight distribution are further advantages. With the utilisation of the tubular, lightweight tower design corner loads are reduced by 12% compared to the LHM 400.

Port management worldwide faces the difficult task to stay commercially attractive against fierce competition. Speedy and quick load handling is therefore a fundamental requirement. Acquiring a Liebherr mobile harbour crane constitutes a decisive step towards attaining this goal.

Pactronic® - Power without pollution.

After the LHM 550, which was introduced in 2010, the LHM 420 is the second product line serially equipped with the new Pactronic® hybrid drive system.



Besides the well-known environmental advantages of hybrid drives, the benefit of the Liebherr Pactronic® is increased handling performance. Hoisting power is doubled resulting in

an improved hoisting and lowering with up to 100% higher speeds. In terms of turnover capacity, that means a plus of 30% compared to a conventional machine with equal power rating of the primary energy source.

Based on the reference value of annual turnover a machine equipped with Pactronic handles the same quantity of cargo in 30% less the time. All running costs within the timeframe, which was gained by the quicker operation, are actual savings for the customer. Savings in energy costs, maintenance costs and labour costs are the most evident.

Another asset, which is indirectly linked to a crane's total cost of ownership, is savings in laytime costs, because docking time is reduced by 30%. As a further consequence vessels gain time to ship their scheduled routes, resulting in lower speeds and again lower fuel consumption (slow steaming).

In addition, Pactronic® leads to a reduction of exhaust emissions (CO₂) of 30%. This is quite an issue in two ways. For possible future pollution taxes Pactronic® guarantees further economical advantages and of course, it's an essential milestone on the way to effective and efficient, low emission cargo handling.

"To master the years to come, our efforts will not only concentrate on making our cranes more economic and safer, but at the same time, we will implement sustainable concepts and ideas in close collaboration with our business partners to provide the technical solutions for the future," says Leopold Berthold, Director Mobile Harbour Cranes / Reachstackers of Liebherr-Werk Nenzing.

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