

EQUIPMENT DATA SHEET - MEGA JACK SYSTEM MJS5200

The ALE Mega Jack System is an innovative design engineered to push up structures of staggering weights and sizes. The systems capacity per tower with it's four 1300 tonne hydraulic jacks is 5200 metric Tonnes.

Multiple towers give the jacking capacity required for a project. For example a 10 tower system gives a net jacking capacity of 50.000t.

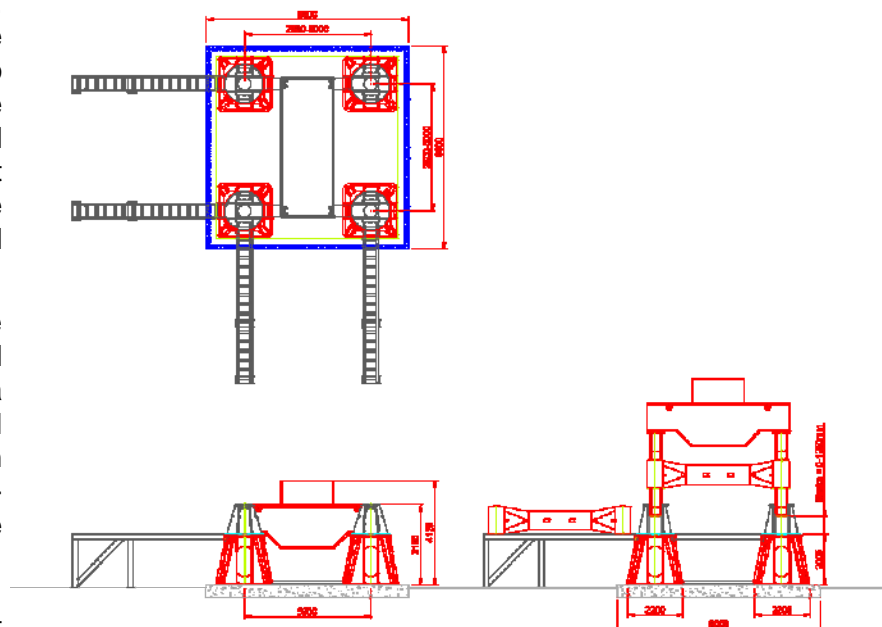
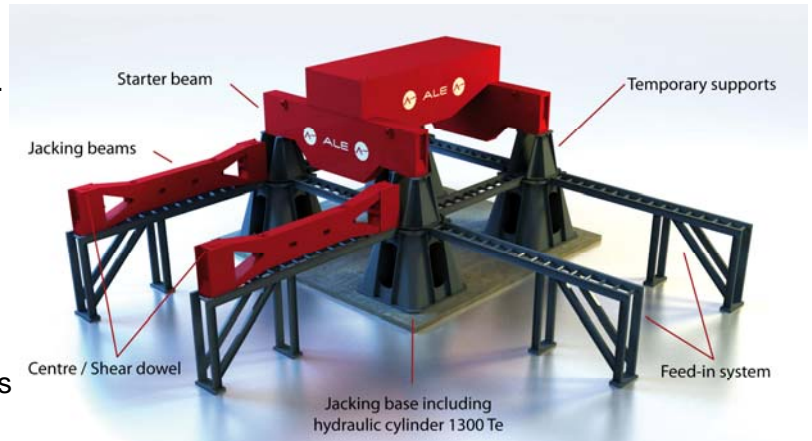
The standard base dimension of the towers is 5mx5m and provides the system with enormous strength and stability.

The strength of the design is its simplicity. The concept behind the system revolves around 4 strong jacking stools; within each jacking stool is a hydraulic jack which can extend to a stroke of 1250 millimeters, two temporary supports fixed to a hydraulic turntable are incorporated on the top of the stools. With the starting beams in position above the supports and the jacks fully retracted, the first lines of beams can be automatically inserted between the supports, utilizing the integral roller system.

Once in location, the jacks extend and raise the beams above the temporary supports. The supports are rotated before the jack lowers the beams onto the rotated supports. This cycle is repeated until the desired height is reached. Once the lift has been completed the whole system can be containerised ready for the next project.

The control of the system will be done by computer from a special designed control room. All data like deck height, weight, ground settlement etc. is collected on one location. This provides substantial levels of safety for the operation.

The system is designed and built under supervision of Lloyd's Register.

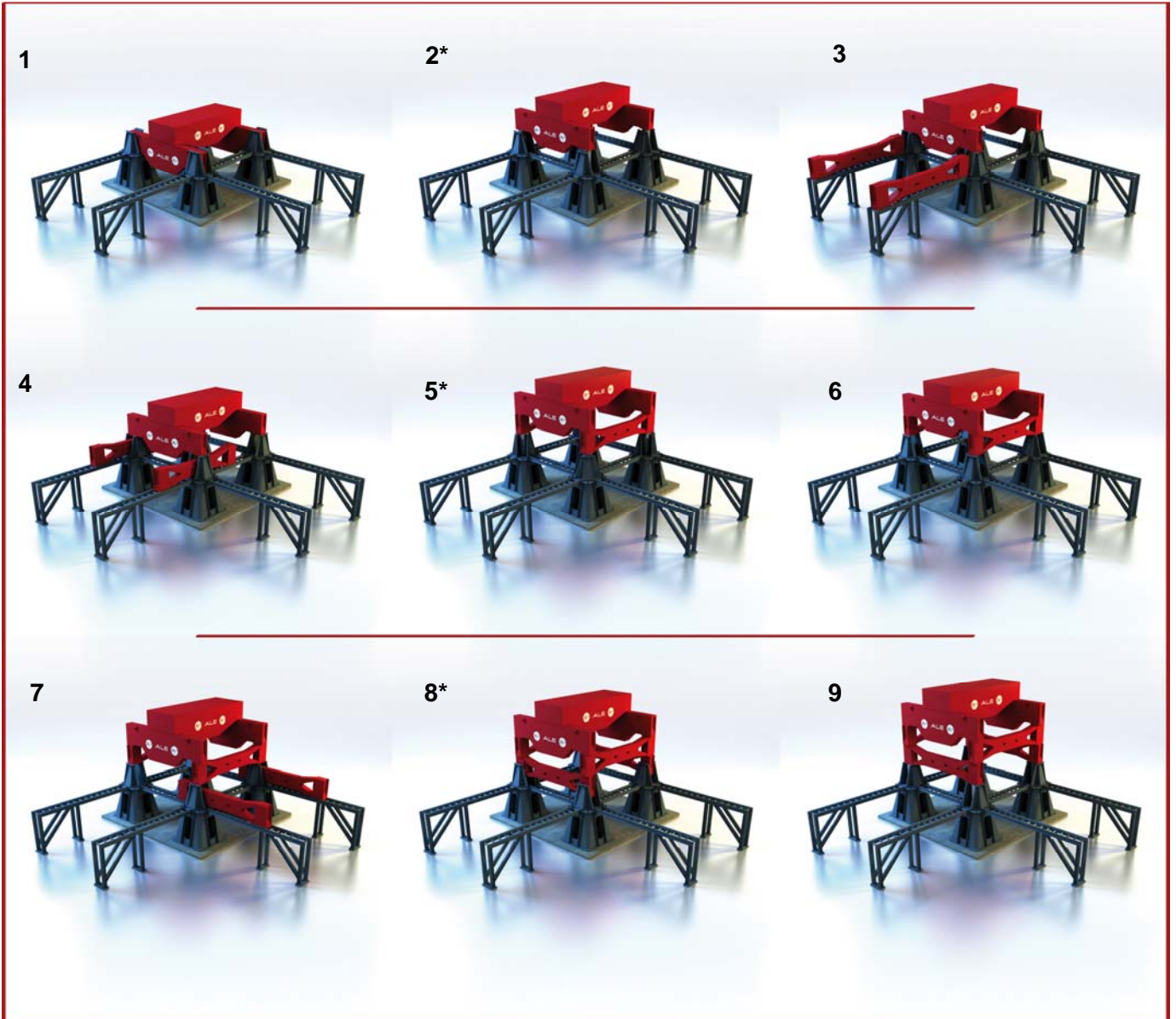


For reference only



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Working Principle temporary supports



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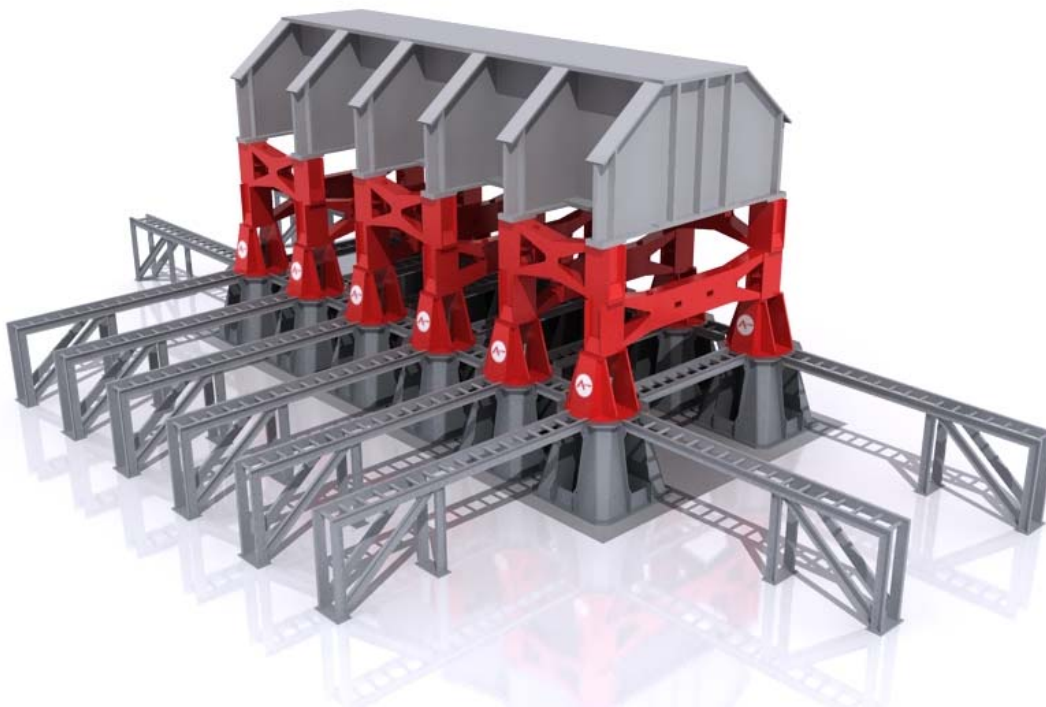


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Mega Jack towers underneath a topside



Three towers combined to one 15,000t Mega Jack tower



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