

Indoor 100 tonne AT

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Grove has delivered two 100 tonne GMK4100 All Terrain cranes custom designed for low headroom work to a German rental company.

The new cranes are designed especially for working indoors- in low headroom situations and tight industrial spaces. The two GMK4100S as they have been named, were built at the request of German rental company Dornseiff, based in Burbach.

The GMK4100S's have a shorter - 35.6 metre boom in place of the standard 52 metre boom, (the GMK4100L has a 60 metre boom) with a retracted length of just 8.5 metres and the same number of boom sections each of which has been shortened. The crane also features a shortened telescope cylinder, taken from the 130 tonne GMK5130-2, which allows loads of up to 50 tonnes to be telescoped.



The two Grove GMK4100S carrying out their first lifts together

The crane performs surprising well at low boom angles, handling 32 tonnes at an eight metre radius with the retracted boom horizontal, and up to 4.2 tonnes with the boom fully extended to 36 metres

The crane also features a tilting boom nose with hydraulic pinning to improve under roof reach and a new compact hook block that further reduces the headroom required. The hook head can also be attached directly to the boom.

The GMK4100S has a carrier length of 10.7 metres, which combined with all-wheel steering make it highly manoeuvrable. The four-axle crane can also be configured with a Gross Vehicle weight of 40, 44, or 48 tonnes, making it ideal for easy movement by road.



The GMK4100S moves easily on the road

The cranes which are based in Wetzlar and Olpe, went straight to work tandem lifting an 82 tonne machinery press at a 6.5 metre radius, inside a manufacturing facility with just 10 metres of headroom.

Grove All Terrain crane product manager Andreas Cremer said: "Designing a 100 tonne crane for indoor use presents a lot of challenges but it gave us the opportunity to design something unique. We know the standard GMK4100 is a very capable crane and so our experienced engineers got to work adapting it. We've made a lot of specialised design changes and created a compact machine that doesn't compromise on strength."

Quelle: <http://www.vertikal.net/en/news/story/17106/>