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IMC's premiere:

Demag CC 2800 crawler crane in Mammoet livery

The Demag CC 2800 with the SSL boom option.

**"The most versatile
and complete crane
model in 1/50."**

That was the IMC Models announcement of the legendary Demag CC 2800 crawler crane in April 2022. And IMC didn't overpromise. Demag's CC 2800 is a crane legend at many crane companies. Mammoet owned 15 units over the years. There is nothing to criticize on this crane model, which is made of roughly 1,600 parts.

The first models in the Mammoet livery were delivered shortly after Christmas 2022.

A Tadano and Demag version of the crane became available in early

by Carsten Bengs



Sideways outriggers.

2023 as well. IMC delivered a fully functional, versatile model with plenty of details. Major dimensions were copied correctly, such as the trackpad width and base crane height.

A great model starts with perfect documentation, and IMC really did a perfect job here. A detailed book with plenty of photos guides the reader through the history of the legend, from where it started until today. The assembly manual has a detailed overview of the parts in the box and includes a detailed bill of material with all parts and tools. It then guides the owner through the uncomplicated assembly on 50 pages. All parts perfectly fit together. Included in the work toolset are various nut and screw tools.

The base crane

The base machine is already preassembled, with both crawlers and the counterweight baseplate. Both the crawlers and the baseplate can be removed for an authentic transport configuration.

All crawlers run easily, with all the bottom and two support rollers working perfectly. The idler is spring-loaded and keeps the track shoes well tensioned, but also easily movable. IMC also copied the travel motor. Hydraulic hoses are made of real rubber parts and look great.

The main counterweight frame is placed in-between the crawlers, and three counterweight plates per side would provide in total 60 tonnes of undercarriage counterweight. The four jack-

up cylinders are also included. A little metal pin secures them to lift the base crane during assembly. IMC also provided the highest number of details and versatility, as small outrigger pads are even included with the model. Two small ladders per side from the accessories bag are assembled and complete the details here.

Another great detail are the two outriggers, which are assembled by screws and nuts on the crawler frame. The outriggers can be extended through the screw thread and would be needed during lifting the boom. They would be needed especially with long booms from 84 meters in

Auxiliary winch and Mammoet logo on the cab.



length without superlift (SSH/LH and SW boom systems), as the tipping line is further away from the center of rotating. They are shown in the photos, but would not be needed to lift the shown boom systems.

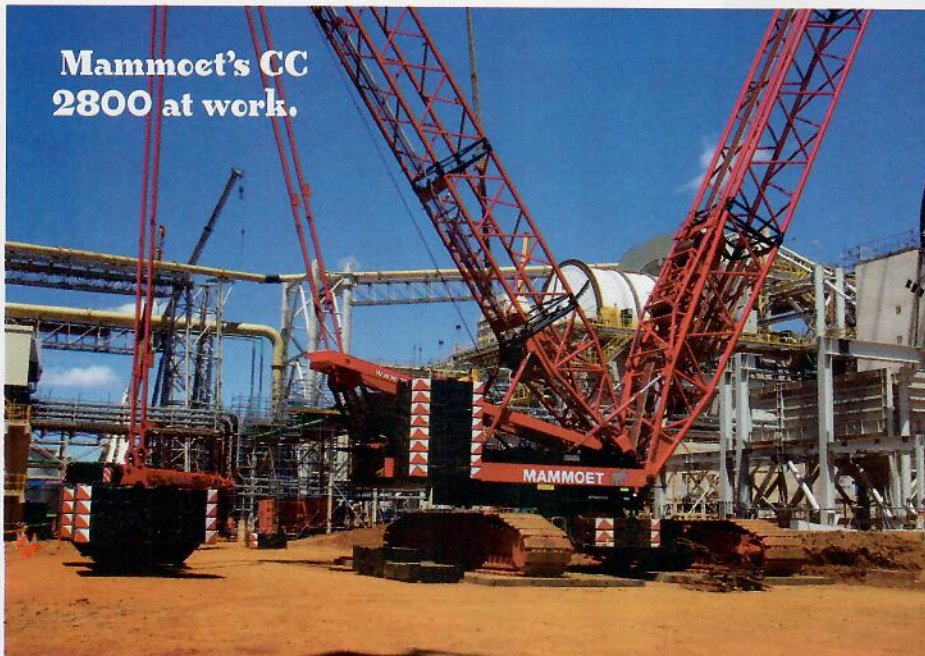
The superstructure

Detailed features can be found on the superstructure, too. Here, a 516-horsepower Mercedes diesel engine provides enough output for the real crane. The engine is located in the back of the superstructure. The engine exhaust pipe



The base crane.

Mammoet's CC 2800 at work.



is clearly visible at the end of the superstructure. Small hoses complete the level of details here. Right behind the engine is the A-frame winch, which is a twin winch.

Reeving the A-frame takes a bit of time to keep the line from slipping from the sheaves. The twist-free line is guided through the sheaves from both sides and then attached to the rocker, which ensures the same tension on both rope sides.

The white sheaves look awesome, as in reality. All easily rotate, enabling a better movement on the model. This is critical on a small crawler crane model and perfectly replicated in 1/50 scale.

Also included is the self-assembly cylinder within the A-frame. This enables the crane to assemble the crawler frames by itself without an auxiliary crane. Underneath the A-frame foot point, IMC also copied the auxiliary winch. On the real crane, it helps during reeving.

All the walkways are made of metal parts with photo-etched perforated plates. The handrails are made of zinc. A small ladder is attached to the superstructure, enabling safe access to the top.

The huge cab provides a great indication of how spacious it would be in reality. The gray interior with hand levers in black color, foot

pedals and screen are perfectly copied. Also, the outside handrails are included, and photo-etched pieces are used for the cab walkways. As in reality, it can be tilted backward for more comfortable work, especially with long booms. IMC even printed the Terex Demag logo on the bottom front window.

Boom system

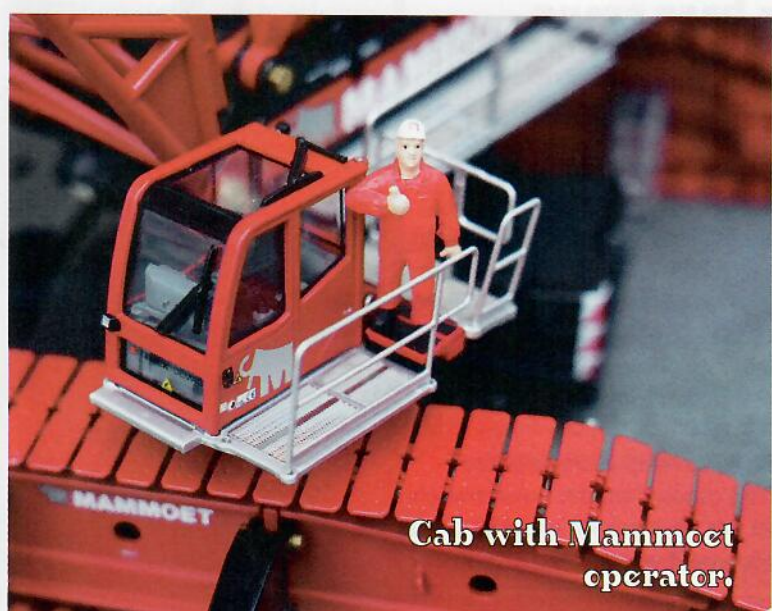
It is really impressive how IMC delivers the models with a huge variety of boom options. This is the most versatile model on the market. The following options can be assembled on the model:

- Main boom SH (heavy) and SH/LH (light)
- Main boom with superlift and counterweight (SSL/LSL)
- Main boom with luffing jib (SW)
- Main boom with luffing jib and superlift (SWSL)
- Main boom with fly jib for windmill erection (SH and SH/LH plus LF)
- Main boom with fly jib and superlift (SSL plus LF and SSL/LSL plus LF)

These letters sound a bit complicated, but are easy to understand as shown in the photos. The H indicates the main boom; SH means a main boom only with the heavy and bigger boom sections; and SH/LH indicates a main boom with both heavy sections and light sections.

And this variety is not achieved until now on a crawler crane model. Furthermore, an additional set with four heavy boom segments and five light boom segments increases the multiple options to display the model. However, assembling all sections to the maximum length is not

The 300-tonne hook.



Cab with Mammoet operator.



The 600-tonne main hook.

recommended, due to the final boom weight of the model.

All boom sections perfectly fit together. But due to the nice little ladder on the side, the smaller boom sections cannot be moved into the heavy sections to show an authentic transport configuration.

On top of the boom section, the walkways are made of perforated plates.

All boom sections are assembled by using bigger screws and nuts. ICM delivers the required tool with the crane as well as a pincer and tweezers. The detailed manual clearly shows which screws are used for all boom sections or pendants.

The boom pendants also show how sophisticated the model is. All pendants are made of metal and connected by smaller nuts and screws. IMC also chooses a great way to safely transport them in the box by not wasting space. All are positioned in small transport layers with only a small space needed.

Both heavy and light boom heads come perfectly detailed with the white single sheaves. All easily rotate. Both heads also feature the safety device. If the hook is raised too high by mistake, the rope drum automatically stops. The light boom head is also used for the windmill fly jib. It also features two wheels on both sides. These are needed when a boom system with luffing jib is lifted. The luffing jib can then roll over the ground until it can fully be hoisted.

IMC's Mammoet CC 2800 is really one of the first die-cast models of a crawler crane coming with this windmill fly jib. In this configuration, the crane would need the additional outriggers when used without superlift.

Together with the superlift boom, the superlift counterweight would be needed. The counterweight frame is connected to the extendible stinger. Depending on the load that needs to be lifted, the amount of counterweight and outreach to the back is calculated by the control system. An auxiliary crane is then needed to place the required counterweight. While lifting a load in reality, typically the load itself and the counterweight do not vary that much. The whole crane is well balanced.

The stinger can also be extended to a length of 18.9 meters from the center of rotation and is fixed with a little screw. Just as an example, the real crane could lift with an 84-meter main boom and 12-meter windmill fly jib at a reach of 34 meters an impressive 63.5 tonnes. The superlift counterweight would be 150 tonnes at 15 meters reach.

For safety reasons, the backstop boom cylinders are included to avoid the boom or superlift flipping backward.

All crane winches feature enough rope for all various crane options. IMC's new rope is twist free and has a thickness to allow good movement, but still looks authentic and valuable on the model. The locking mechanism on all the winches works really well and holds the boom in each position, but still allows easy operation with the included tool.

The CC 2800 Mammoet crawler crane model is delivered with two hook blocks meeting all assembly requirements. The main hook consisting of two 300-tonne sections allows to lift the maximum capacity of 600 tonnes. The hook comes with 11 white sheaves each. All are also rotating free. The hook then would be reeved with 22 lines on each hook. Reeving takes time. The small

frame would ensure that both hook blocks would move parallel. Small screws can be loosened and the 600-tonne hook can be easily changed to a 300-tonne version.

The second hook block is a smaller one with five white sheaves. This hook will be used with the windmill fly jib and would be capable of lifting 150 tonnes in reality. As on the real hook, the sideways weights are really an eye-catcher. They would be needed especially with long boom systems to lower the hook from the top without loads due to the weight of the rope.

IMC realized great and comprehensive decals on the entire model. Warning signs can be found on the undercarriage outriggers, superstructure and crawler frames as well as the identification plate on the cab. Mammoet's brand logo is printed on the cab and the company's name can be read on the A-frame. The mix of the red and black color of Mammoet looks awesome.

IMC's mix of details, functionality and versatility is superior, while keeping the assembly of the model easy. And the first company livery in Mammoet colors looks great! TT&C

 **more** photos
at: www.toytrucker.com/features

Windmill boom LF.

