

## CCM's largest model so far in 1:48

# Caterpillar 6090 FS

by Daniel Wietlisbach

Exclusive and accordingly expensive models of the legendary O&K RH400 in 1:50 were only available from Keim and OHS and were recently announced by KPS. This will remain so, because the new Caterpillar 6090 FS model from CCM shows the latest evolution of the giant excavator and therefore cannot just be repainted in a different color.

That a model of the 6090 was going to come sometime or another was inevitable. Already, during the TWH bankruptcy proceedings in the middle of 2013, a prototype was thought to be in existence and looking for a customer willing to pay for further development to the model stage. However, CCM had nothing to do with this because the original had too many updates in the previous five years to make adaptations to a 2013 prototype economically feasible. Therefore, the newly-released model has been made even more precisely than otherwise possible.

The true-to-scale CCM model shines with the expected quality of its finish so that it comes close to being a 'perfect' model, like no other white metal model of a mining excavator currently available. Thanks to the almost euphoric reaction over the announcement

**The world's largest hydraulic excavator has long topped the wish list of many collectors. Now CCM has released the Caterpillar 6090 FS model ...**

of the model, the relatively high number of 1,090 were made resulting in an attractive price. The very heavy model gave the maker some challenges regarding packaging and delivery, but they have been brilliantly solved so that almost all of the models arrived at their destinations without any damage.

The Cat 6090 FS has been made true to scale and sits very solidly on the exactly-copied lower carriage. The engraving of the drive wheel, the drilled-out holes in the guide wheel as well as the fittings of the X frame with the crawler tracks are quite exactly copied. To move the giant, the support and running wheels turn. Because Caterpillar just recently adapted the track segments, the model shows the second-newest variation.

### Upper carriage

The upper carriage is massive and has the 'complete furniture' in the engine room which can be seen through the many pierced openings and radiator grilles. The lowest level is reached on each side by double

folding stairs which do not quite rest in the uppermost position. Additionally, there is an emergency ladder from the cabin straight down, however, it does not fully extend. The half-round protective cage is a photo-etched part. The engines, coolers and other drives have supply lines and the engines and oil coolers have been modeled with ventilators, including their drives.

The cabin deck invites the viewer to take an exciting stroll to look around. Besides the noticeable fire extinguishing containers there are extensive filter and exhaust plants to discover. The six exhaust pipes for each engine are surely very impressive. Between them is a very detailed replica of the central lubrication plant. The finely detailed white crane for service work turns and telescopes out. It is powered by the exactly copied motor just beside it. All safety railings and fixed supply lines are made from solid wire soldered together.

Thanks to the big windows and the two openable doors, the very roomy cabin allows for an interesting view of the working environment.

All operating elements are correctly placed and some have tiny printed-on gauges. The air conditioning unit is situated behind the cabin.

## Equipment

The high degree of detailing is continued on the jib and arm. Es-

### At a glance

- + Choice of prototype
- + Metal content
- + Detailing



pecially the hydraulic valve plant on the outrigger arm is a real joy to behold and the completely modeled supply lines have all the correct hook-ups. The hydraulic cylinders are complete with all the fittings as per the original. At the central pivoting point on the Tripower-Kinematic developed by O&K, one can even make out the hex-shaped bolt heads.

Allen screws in the lifting cylinders hold the equipment in any desired position; jib and bucket cylinders are rather sluggish to move and therefore very stable. Invisible

on the original, a replica of the cylinder for the opening mechanism of the shovel was omitted. The bottom discharge shovel itself is very nicely engraved and almost gives the impression that the teeth have been individually attached.

The paint has been applied without any faults and the lettering is fine and legible. It shows all the smallest details and so makes the model even finer. CCM has splashed out big with the Cat 6090 FS and the model deserves to get a brother with electric propulsion.

# From O&K RH 400 to Caterpillar 6090

## Four producers

by Urs Peyer

The German makers always seemed to be a nose ahead at the finish, when the race was on to build the world's largest hydraulic excavator. Therefore, over the years, Demag and O&K took turns when building larger and larger excavators. With the 114.5 t heavy RH 60, O&K crossed the 100 t mark in 1971. Demag followed a year later with their H101. In 1978, Demag introduced the H241 with a working weight of 238 t. O&K took a year to double that weight. With its 500 t weight, the RH 300 was a step too far at

**Developed in 1977, the O&K RH 400/Cat 6090, with a working weight of almost 1000 t and a shovel capacity of 52 m<sup>3</sup>, remains the world largest hydraulic excavator ...**

the time; only two units were ever delivered.

In 1986 Demag presented the commercially much more successful and still heavier 560 t H485. Over the next 10 years, 20 of these record-holders left the factory assembly floor in Düsseldorf.

On the 18th of July 1997, O&K regained the title of 'World's Lar-

gest Hydraulic Excavator Maker' with the introduction of their RH 400. The 825 t giant was the crowning achievement from the house of O&K. With its 42 m<sup>3</sup> bottom dump shovel capacity, the RH 400 was, at the time, a serious competitor in the large front scoop cable-controlled excavators. Engineering teams from O&K and Syn-