

Stationary transfer crane from NZG in 1:50

Baljer & Zembrod LBX II

The biggest model surprise in 2022 came from NZG with the Baljer & Zembrod stationary transfer crane LBX II ...



by Carsten Bengs

The mid-sized company from Altshausen near Ravensburg is a leader in the manufacture of wood processing machines for the log storage yards of saw mills as well as electric-operated transfer technology for the scrap and recycling industry branches. It is the first model from B&Z a company which, until now, has been completely unknown. B&Z was founded in 1951 as an agricultural machine shop in Ebenweiler. 2006 saw the development of the heavy-load crane LGX and the second generation LGX II with knee levers followed in 2016. This latter unit has been now made in model form.

Included in their successful product line of log sorter and transport

trolleys are de-barkers or root trimmers. Their core products are stationary cranes. Because of the high demand for them, the company moved into a new production hall for final assembly in 2020.

The stationary heavy-duty cranes are often used in tandem when sorting rail trolleys in various wood processing industries and are also found in recycling and scrap material transfer applications.

NZG has produced a detailed, functional model of the LGX II (Second Generation) crane from their extensive crane program. The model comes on a plinth and is semi-mobile. This makes it easy to move the prototype around using a mobile crane. Small support feet with threads ensure that the crane always stands straight.

The huge cabin is markedly larger than an excavator cabin. The size allows for both the operator and a trainer to stand in it. NZG has replicated the interior with seat, levers, and a very detailed mock-up of the control computer screen which is not legible because of its size. Window wipers are present on the cabin.

A special feature of the B&Z LBX crane is notable here: because the cabin has the option of remaining on the crane it provides optimal view of the workspace. The cabin can also be removed to a separate operating stand from which the whole machine park is centrally controlled. NZG has solved this feature perfectly because the cabin sits securely on the crane with three small lugs and three



The cabin has been exactly detailed. Like the original it can.....

... be taken off. The crane then functions with remote control.



Close up

Photo-etched window wipers and detailed supply lines.

small magnets. After removing the cabin, the area that is now bare can be closed in with the included cover plate.

The whole crane boom has been modeled in very detailed manner. The very extensive runs of supply hoses, including some very dainty-looking simulated pipes, run along the whole lifting and jib arms. These arms on the prototype are not made from square box profiles but from two U profiles. With

this technology, longer boom and jib systems are possible since there are no welding seams on the stress points of the arms.

The knee levers between boom and jib are modeled. Different from loading cranes, these give more power to the jib arm when extending and a more even speed during retraction. All hydraulic cylinders hold the outrigger arm in any position and are equipped with fine hydraulic hoses. The boom has a length of 18 cm or 9.0 m, and the jib arm of 17 cm or 8.2 m. In this configuration the model achieves a reach of 32 cm or 15.6 m. In this latter position, the maximum carrying capacity is still 4.0 t at a 15.0 m reach.

The model comes with a log tong and a multi-tine grab which can be

exchanged using the small bolts included. This way the crane can be shown working in either scrap transfer or wood industry settings. Both tools are convincingly heavy and open and close easily using the cylinders.

There is also a massive counterweight at the rear of the crane; on the original this weighs 8.6 t. The slewing motors are easy to make out. They are situated just below the slewing ring at the slewing column.

The detailed and functional Baljer & Zembrod LBX II stationary transfer crane from NZG is a fun and exciting addition to the model offerings. As we are used from NZG, the model convinces with its many fine details and perfect functionality.

At a glance

- + Detailing
- + Functionality
- + Exchangeable tool attachments

