

# Liebherr LHM550 Harbour Crane

NZG 1:87th Scale



*Liebherr LHM550  
Mobile Harbour  
Crane in 1:87th  
scale from NZG.*

The Liebherr maritime cranes division produces a comprehensive array of lifting equipment for efficient material handling including port equipment, offshore cranes, ship cranes and floating transfer solutions. The range of port equipment consists of mobile, rail-linked and permanently installed cranes and stackers providing trouble-free handling of materials at ports throughout the world. The mobile harbour cranes from Liebherr have lifting capacities from 42 to 208 tonnes with a model available for any loading or unloading operation, be it container handling, general cargo transfer or bulk operations. With the optimised undercarriage design and in-house designed crane control system, the LHM cranes are amongst the most powerful and universal in the world.

The LHM550 has a lifting capacity of 144 ton at a radius of 54 metre and is truly versatile when it comes to efficient cargo handling up to post-panamax-sized vessels. The undercarriage has the ability

to slew on the spot with each axle having independent steering control to allow the crane to manoeuvre into tight spaces with four large outriggers providing an X-pattern support with lowering jacks and large integrated support mats and this is all fully operational on the 1:87th scale model from NZG.

The various access stairways and steps are produced from metal and finished in silver with photo-etch materials used to form the safety cages on all the vertical ladders which certainly look good considering the crane's scale. The main body houses the winch with a hole in the side allowing the winding key to raise the hook block. Surface detailing includes outlines for the service doors with metal safety railings running around the entire

**Below:** The cabin integrated into the lower structure provides a safe environment for positioning the crane.



**Left:** The main crane operation is from the cabin perched high up to give an unobstructed view.



**Right:**  
The hook block is controlled from two ropes



**Above:**  
Operator access to the crane is via the ladder mounted to the chassis



**Above:**  
The undercarriage has individually steering axles and extending outriggers with lowering pads.

edge of the housing. The rear has fixed ballast blocks with metal support arms connecting with the tower which has a platform half way up where the operators cabin has an unobstructed view of the work area. The main mast is hydraulically height controlled with a pair of ropes looping around the pulleys and connecting to the hook block although on the review sample, there is not enough rope installed on the drum to allow the hook to lower fully. Out of the box, the mast needs to be connected and this is done using tiny nuts and bolts before the ropes are installed.

The LHM550 is an update to the previously released LHM500 and has the Pactronic hybrid power boost unit modelled, a clever device to store and release energy to increase efficiency and reduce fuel consumption.

### Model Details

Manufacturer / Scale

NZG 1:87th

Price / Availability

£250

The Good

Good detailing for the scale, functional boom and hoist.

The Not so Good

Unable to fully lower hook.

**TPM Verdict**



**Below:** Metal safety railings run around the upper edge of the body.



**Left:** Fine detailing includes all the emergency ladders, complete with photo-etch cages

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Above: Genie GS-4069RT Scissor Lift.



Above: Genie GTH2506 Telescopic Handler.



Above: Genie SX-180 Boom Lift.

## Genie Company Focus

Bud Bushnell formed the Genie Industries Company in 1966 when he bought the manufacturing rights for a compressed air operated material lift. The method of operation of the lift from a compressed air bottle resulted in the name Genie, as customers were impressed with the 'Magic in the Bottle'. The company expanded operations over time as growing demand for aerial lifts and platforms resulted in the development of numerous products including man-lifts, articulated booms, stick booms and telescopic handlers. In 2002, partly due to an economic downturn, the company was sold to the Terex Corporation. The Genie name has acquired a good reputation in the marketplace over the years so the brand was retained within the Terex Aerial work Platforms segment, a testament to the quality products that the company offer.

The main lines within the Genie portfolio include scissor lifts, telescopic boom lifts, articulated boom lifts (also referred to as cherry pickers), aerial work platforms, material lifts, vertical mast lifts, light towers and telescopic handlers.

NZG has been commissioned to produce a new range of high

quality 1:32nd scale die-cast replicas from the Genie product range, starting with the GS-4069 RT scissor lift which has been produced in both European and US versions which is accompanied by the flagship SX-180 telescopic boom lift with two versions of the compact GTH2506 telescopic handler due to be released shortly.

Right:

*All the safety railings are metal with a textured floor panel.*



Below: Both European and US versions of the model have been produced.



Above: The stabilisers can be lowered and the chassis has a steering axle.



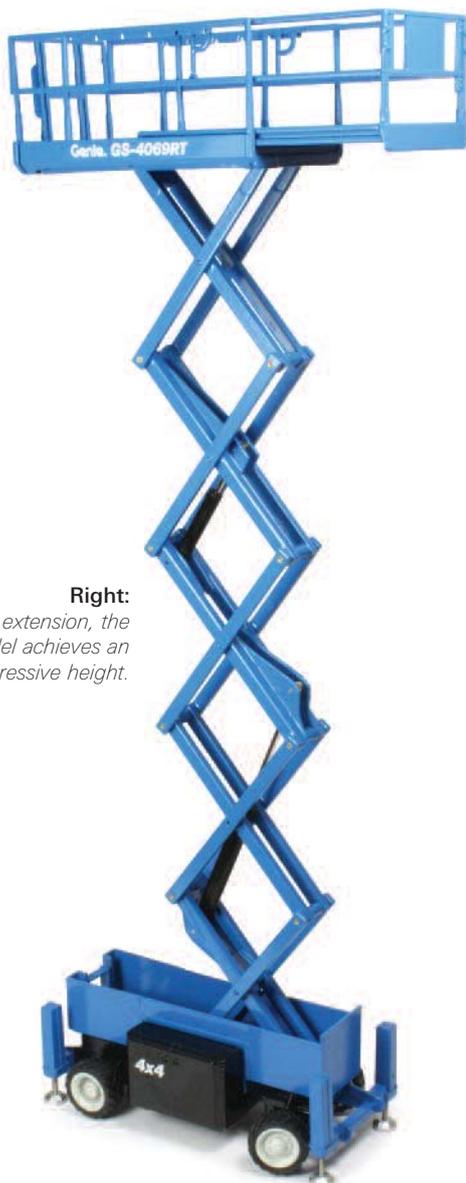
### Genie GS-4069RT Scissor Lift

The range of scissor lifts from Genie are available as electric or diesel powered, offering high performance and versatility, no matter what the job at hand. Rough terrain lifts provide exceptional traction and are ideal

for outdoor jobs. The GS 4069RT self propelled scissor lift has a 14 metre working height with a 363kg lifting capacity. The deck is 1.6 metres wide and 2.79 metres long with an additional 1.5 metre extension possible. Power is derived from a Kubota D-1105 diesel or DF-972 Gas/LGP engine delivering 24.5hp and 29hp respectively with all-wheel drive providing a maximum travel speed of 5.6km/h.

The GS-4069RT scissor lift from NZG is a nicely constructed replica with a high metal content. It has been produced in two slightly different versions, one for the US market and one for the European market which has protective safety panels fitted to the chassis enclosing the scissor arms to prevent anything getting trapped as the platform is lowered. The chassis has four height adjustable stabilisers which have circular pads and screw down to steady the model. One axle has working steering and all four wheels have rough terrain treaded tyres. The engine and control modules are simplistically modelled on the sides with a small ladder on the end providing access to the platform. The scissor arms adjust

Above: Access steps are integrated into the base and the European version has a protective safety screen to prevent trapping in the scissor elements



Right: At full extension, the model achieves an impressive height.



Left: The deck can be extended for a larger working area.

#### Model Details

Manufacturer / Scale

NZG 1:32nd

Price / Availability

£85

The Good

Sturdy construction, good functionality.

The Not so Good

Not 1:50th scale.

**TPM** Verdict



to a good height with one main and one secondary hydraulic cylinder providing good resistance to allow the platform to remain at the chosen height. The platform itself is surrounded by metal safety railings and has a silver finished textured floor plate with the ability to extend the work area of the platform on one end which is fully functional on the model. The finish is to the usual high standards from NZG with crisply applied Genie markings. It is presented in a printed cardboard box with inner polystyrene tray to keep the model secure.



**Right:**  
1:32nd scale Genie SX-180 boom lift from NZG is an impressive replica.



**Above:** The chassis has pivoting arms with individual steering of each wheel.



**Above:** The chassis can be reduced in width for transport and this is fully functional on the model.



**Right:**  
Even without extending the boom, the height is impressive.

## Genie SX-180 Boom Lift

They don't get much bigger than the flagship Genie SX-180 telescopic boom lift, engineered to provide a greater horizontal reach than any other type of aerial platform with the ability to customise for the specific task in hand from a variety of options and add-on packages. The unit has a maximum working height of 56.86 metres with a max horizontal reach of 24.38 metres and a lifting capacity of 340kg, tipping the scales at 25 ton. Two power options are available, either a Deutz TD2.9 L4 or Perkins 854F-E34T Tier 4 final diesel engine generating 74hp.

The extending X-chassis provides a stable base and this has been modelled well on the 1:32nd scale replica from NZG, with all four wheels individually steering with small hydraulic cylinders. The arms can be extended and are linked with a single hydraulic controlling each pair, allowing the model to be displayed ready for transport or in the working configuration. The main body is simplistic, just like the full sized machine with the Genie name embossed on the side and rear panels. The main telescopic boom is metal with the intermediary sections all made from plastic to

reduce the weight to ensure the boom remains raised without toppling with the plastic and metal colours a very good match. The tip of the boom has a jib attached; allowing a number of positions to be simulated and the range of movement of the various elements accurately mimics that of the real machine. The cylinders are reasonably stiff so the boom holds position well. The platform is constructed of metal with all-metal safety railings and a photo-etched mesh floor panel with the main control housing produced from plastic. As with the GS-4069RT, the paint finish is of a high standard with authentic printing of the Genie markings and machine designation.

### Model Details

#### Manufacturer / Scale

NZG 1:32nd

#### Price / Availability

£110

#### The Good

Authentic movements of the boom.

#### The Not so Good

Not 1:50th scale.

### TPM Verdict



**Above:** The metal platform has a mesh flooring and replicated control panel.



**Left:** The telescopic boom extends smoothly and locks at full extension.



**Below:** The jib can achieve a multitude of positions, fully capturing the range of movement.

# Mercedes Benz Unimogs

The 400 series Unimog is the ultimate implement carrier, uniquely versatile to be equipped for specialist and customised roles while capable of travelling on road up to 56 mph. Off-road, the vehicle offers exceptional all-wheel drive performance with a powerful Mercedes Euro IV engine and a specialist designed chassis allowing multiple mounting points for a vast array of add-on equipment. The standard version of the 400 series Unimog in 1:50th scale from NZG was reviewed in the winter 2014/2015 issue of PMMW and now, I take a look at two additional highway maintenance versions highlighting the versatility of the 400 series vehicle perfectly, both in summer use with the Mulag combination mower and in winter use with the Schmidt plow and spreader package.



**Left:**  
*Unimog and Mulag MKM700 in perfect harmony.*



**Below:**  
*An impressive model, the 1:50th scale U430 Unimog with Mulag MKM700 combination mower.*



**Left:**  
*Attention to detail, the rear counterweight has been installed.*

## Unimog 430 with Mulag MKM700 Combination Mower

The Mulag MKM 700 combination mower is the perfect companion for the 400 series Unimog, powered from the vehicles front PTO and capable of mowing verges at the sides of highways with the boom mounted cutter head and low mounted verge cutter. NZG has done a great job in the engineering of the mower with a fully functional boom that features a full range of movement coupled with a detailed cutter head with roller and main cutter bar with simulated protective skirting. When not in use, the boom can be rotated to the rear out of the way. The verge cutter is again mounted to a pivoting arm with height and angular adjustment allowing it to simulate an authentic range of movement. The entire unit can be easily detached from the vehicle and the

rear chassis has a counterweight ballast assembly fitted to keep the vehicle balanced. One slight issue with the mower is that if the boom is rotated towards the rear, the unit comes away from the hitch and falls off. A more secure way of securing the attachment may have been better.



**Above:**  
*NZG has authentically captured the range of movement of both the boom and verge cutter.*

**Right:**  
*During transport, the boom can be rotated above the cabin, just like the full sized unit.*



**Right:**  
*The main cutter head is nicely detailed.*



### Model Details

#### Manufacturer / Scale

NZG 1:50th

#### Price / Availability

£95

#### The Good

Great detailing and working movements.

#### The Not so Good

Front hitch coupling could be better.

### TPM Verdict





Above: Schmidt plows and spreaders are a recognised brand in snow clearance.



The 1:50th scale version by NZG looks the part, capturing the looks of the Schmidt equipment perfectly.



Left: The frame allows left or right angular adjustment of the blade.

## Unimog U430 with Schmidt Winter Package

Schmidt is a company that specialise in snow clearance equipment with a varied product range covering all snow clearance eventualities, from truck mounted plows and spreaders to snow blowers and sweeper brooms. NZG has modelled the Tarron plow and Stratos spreader in 1:50th scale as the perfect accessories for the Unimog 430 carrier.

The Tarron plow is a detachable unit that connects to the front plate of the U430. The frame construction allows for left and right angle adjustment although the height adjustment of the full sized unit is only

simulated on the model. The frame has modelled stabiliser wheels with a plastic upper guard and a pair of safety marker boards simulating flags on the upper corners. At the rear, the Stratos spreader has a detachable top cover revealing the internal structure of the hopper with a rear chute and rotary discharge head all faithfully modelled. Added detailing includes the folding access ladder. True to the original, a mixture of metal and plastic components make up the spreader assembly with the blue and orange colours contrasting well.



Above: The rear spreader has a folding ladder for access and detailed chute and rotary dispenser.

### Model Details

Manufacturer / Scale

NZG 1:50th

Price / Availability

£95

### The Good

Highly detailed plow, detachable hopper cover, realistic finish.

### The Not so Good

None to mention.

**TPM** Verdict



Above: The Tarron design plow is detachable from the vehicle.

Below: Interior detailing of the hopper can be seen once the cover is removed.





The new 5000 series Unimog has been replicated well by NZG in 1:50th scale.



Above:  
The plastic tarpaulin cover can be removed, revealing a low sided carrying platform.



Above:  
The cabin has a finished interior with mirrors and snorkel added to the frame.

### Unimog 5023 off-roader Truck

The Unimog U 5000 series is the ultimate off-roader with a compact design for practicality combined with exceptional manoeuvrability and brute power for the most demanding of applications. It is the ideal workhorse in difficult conditions, excelling both on-road and off-road. The flexible ladder type frame ensures rigidity with great torsional flexibility for controlled driving coupled with long spring travel and extreme axle articulation for the most arduous off-road conditions. The OM934LA 4- cylinder in-line diesel engine delivers 231hp

adhering to Euro VI exhaust gas emissions while the fully synchronised gearbox has eight forward and six reverse gears.

The 1:50th scale model from NZG has captured the rugged looks of the U5023 very well, with a fairly detailed underside highlighting the chassis and drivetrain to both axles and steering front axle. The side mounted fuel tank and silencer are nicely done with a protective heat shield fitted to the exhaust stack. The plastic tarpaulin cover can be removed, revealing the loading platform with low sides. The cabin has been authentically

#### Model Details

##### Manufacturer / Scale

NZG 1:50th

##### Price / Availability

£75

##### The Good

Good detailing, rugged construction, removable tarpaulin cover.

##### The Not so Good

None to mention.

#### TPM Verdict



replicated, both inside and out with a quality paint finish. The model is available finished in orange or blue while a white version is also available with a slight casting difference to the cab roof. The model has also been produced in an exclusive version for Mercedes Benz and a fire & rescue version of the model is also available.



Above: Underside detailing includes the replicated drivetrain and steering axle.

#### Below:

The cabin has a finished interior with mirrors and snorkel added to the frame.

