

# THE NEW GENERATION FLOATING GRAB CRANES OF NKM NOELL

Discover the new generation of floating grab cranes brought to you by NKM Noell. Designed and optimised to meet today's demanding requirements for bulk vessel loading and unloading. A redesign of the classic floating grab crane that offers a great many improvements. Resulting in faster, more flexible, more effective and thus more profitable bulk transshipments.

# THE FLOATING POWER OF NKMNOELL



## DESIGN, BUILDING AND AFTER-SALES SERVICE

Continuous innovations in combination with the use of proven technology are the key to our success, leading to cost-effective crane operations. Daily practice and the requirements of profitable bulk handling drive our in-house engineers to come up with optimum crane concepts based on innovative technology. This results in a perfectly operating, 100% reliable crane – without the risk of fall-out. Safe and environmentally friendly.

The NKM Noell floating grab crane makes it possible to tranship more tonnes per hour at lower cost per tonne with a smooth, economical performance. Each crane is completely custom-built and thereby perfectly adapted to the specifications and wishes of the client. NKM Noell then puts together an after-sales plan and maintenance package, focused on the needs of the client.

In short, NKM Noell handles the production process from the drawing table all the way to putting the crane into operation on site at the client's.

## MAXIMUM FLEXIBILITY AND

## THE PROFITABLE POSSIBILITIES OF FLOATING BULK TRANSHIPMENTS

The NKM Noell floating grab crane is the most profitable solution for economical bulk cargo handling. It loads and unloads cargo anywhere in a port area, even with low waters or no quay facilities, from ship-to-ship, from ship-to-shore, and on the open sea with full working comfort and safety.

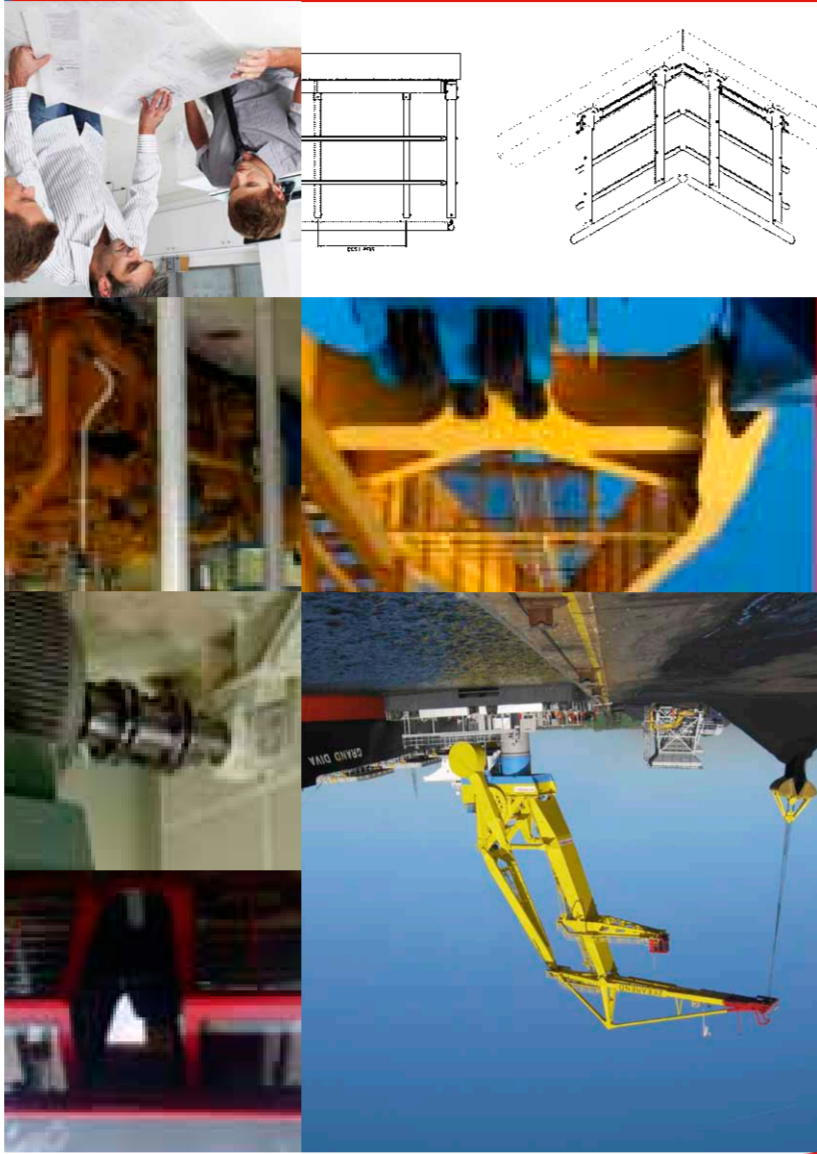
With little loss of capacity due to optimal visibility in every hold. Whether it's coal, ores, agri-bulk, metals & scrap, minerals....

## NKM NOELL: THE RIGHT FLOATING CRANE FOR ANY CHALLENGE

Equipped with a 36-tonne, 40-tonne or even a 50-tonne grab and a crane reach of up to 47 metres, our cranes can handle even the largest bulk carriers. With a discharge capacity of more than 2,000 tonnes per hour, the lemniscate principle ensures easy operation with an exceptionally high output. And with our 16-tonne and 25-tonne grab cranes we provide the best, most flexible and most economical solution for every transhipment of bulk cargo, even in smaller harbours. In other words, whether the challenge is loading and unloading the world's biggest seagoing bulk carriers or the smaller coasters, a NKM Noell floating grab crane always handles more tonnes an hour at lower costs per tonne. This makes the NKM Noell floating grab crane the fastest and most flexible solution for any transhipment of bulk cargo.

The combination of purchase costs, life span, operational costs and maintenance translates to more favourable costs of ownership (T.C.O.). Due to its refined engineering, durability and high reliability, the NKM Noell floating grab crane is the most economical and efficient crane for handling bulk cargo. This means that our cranes work every day worldwide to 'lift' your profits.

Discover the power behind economical bulk transshipment and lift your profits with NKM Noell's new generation Floating Grab Cranes...



## FLEXIBILITY

NKM Noell's floating grab cranes are fitted with heavy-duty portions for flexible operations everywhere in the port area, on inland waterways and on the open sea.

## PROGRESSIVE CRANE DESIGN

Continuous innovations in combination with the use of proven technology lead to cost-effective crane operations. Daily practice and the requirements of profitable bulk cargo handling drive our engineers' innovative designs.

## ENVIRONMENTALLY FRIENDLY AND ENERGY-EFFICIENT

A combination of optimised balance, energy buffering and 30% and a considerable reduction of CO2 emissions.

## ERGONOMICS IN CAB

The wellbeing of the operator contributes to high capacities and lower costs. That is why NKM Noell offers a completely new crane driver's cabin. The dynamic suspension of the entire cab provides the highest level of ergonomic comfort and easy operation to the operator. The improved cabin position ensures a 100% overview of the operation under all conditions anywhere in the hold.

## CAPACITY

From 16, up to 50 tonnes of payload at a hoisting/lifting speed of up to 160m/min, the NKM Noell floating grab cranes provide a capacity of up to 2,000 tonnes per hour.

## MAINTENANCE PACKAGE AND REFURBISHMENT

NKM Noell offers a special after-sales and maintenance package. We can provide the entire package of maintenance and thus enable you to continue to deploy your cranes as effectively as possible in the most cost-efficient manner. Whether it concerns a NKM Noell crane or not, our specialised division for maintenance, retrofit and refurbishment can fully upgrade your existing cranes.

## THE FLOATING GRAB CRANE OF NKM NOELL IS LEADING IN TECHNOLOGY, DISCHARGE CAPACITY AND PROFITABILITY...

## NKM NOELL - WORLDWIDE DELIVERY AND SERVICE

NKM Noell has a treasure trove of experience building high-quality cranes for the aluminium industry, nuclear industry and the bulk transshipment industry. Active in more than 30 countries, with more than 1,000 cranes in operation and more than 80 years of experience, NKM Noell is the global supplier of handling systems, process equipment and solutions.

NKM Noell is part of the Reel Group. Reel is an independent company that develops, builds, installs and maintains complex handling systems designed to slot into the core operations in the Energy, Aeronautics, Defence and Metallurgy sectors.



-  NKMNOELL CRANES
-  NKMNOELL OFFICES

## CONTACT

Contact us for custom new build or retrofit, refurbishment and the complete upgrade of existing cranes. Our wide experience with harbour cranes guarantees that we always have the best solutions.

**NKMNOELL**  
SPECIAL CRANES

NKM Noell Special Cranes GmbH  
Kruisweg 643, 2132 NC Hoofddorp, Netherlands  
Tel: +31 20 655 0030 • Fax: +31 20 655 0040  
info@nkmnoell.com • www.nkmnoell.com



**NKMNOELL**  
SPECIAL CRANES

# THE NKMNOELL FLOATING GRAB CRANE WINS ON ALL POINTS...

SPECIAL HOIST WINCH ON TOP ARM FOR EMERGENCY AND SPECIAL DUTIES

SEPARATE HOUSING FOR HOISTING WINCH

IMPROVED CABLE ROUTING ON TOP ARM WITH HIGH-GRADE POLYAMIDES

OPTIMUM VIEW OVER SHIP'S HOLD AND HIGH COMFORT FOR THE OPERATOR.

LOW VIBRATION IN CABIN

LUFFING SPEED OF 160M/MIN WITH A MIN. FLIGHT OF 13M AND MAX OF 43M

HOIST CAP. OF A 40-TONNE LOADED GRAB, A SPEED OF 150M/MIN.

GRAB CAN BE CLOSED DURING FULL SPEED LOWERING

LOAD-DEPENDENT HOISTING SPEED PROVIDING BETTER CYCLE TIMES

SEPARATE HOUSING FOR ELECTRICAL EQUIPMENT

IMPROVED ROPE GUIDING

IMPROVED BALLASTING ENSURES MINIMUM PONTOON MOVEMENT AND MAKES SMALLER PONTOONS POSSIBLE

## TECHNICAL AND OPERATIONAL HIGHLIGHTS

MAXIMUM CAPACITY OF 40 TONNES GRAB CRANE: ca. 2000 TONNES PER HOUR

40-TONNE PAYLOAD AT HOISTING/CLOSING SPEED OF 150M/MIN

IMPROVED VELOCITY CURVE FOR LUFFING

REDUNDANCY FOR BOTH SLEWING AND LUFFING, WORKING WITH ONE FAILED DRIVE IS STILL POSSIBLE

100% CUSTOM -MADE

FUEL-SAVING OF UP TO 30%

MANUFACTURING OF CRANE AT OWN EXPERIENCED FACTORY

RADICAL REDUCTION OF NOISE AND CO2 EMISSIONS

HIGH CRANE CAPACITY THROUGHOUT THE ECONOMIC INVESTMENT WITH A LOW DEPRECIATION

ELECTRONIC WEIGHING SYSTEM RECORDS EACH GRAB LOAD, STORES THE DATA AND SENDS IT WIRELESSLY TO A RECEIVER ON SHORE.

IMPROVED ACCESS TO CAB, BY COMFORTABLE STAIRWAY WITH INTEGRATED PLATFORMS

IMPROVED VENTILATION AND COOLING

FLYWHEEL SAVES FUEL

FIRST FLOATING CRANE WITH ELEVATOR AT ENTRANCE

EASY ACCESS TO THE RELEVANT PARTS AND DURABLE DESIGN ENSURE THE SYSTEM HAS A LOW OPERATIONAL COST



LIFT YOUR PROFITS WITH  
THE FLOATING POWER OF NKMNOELL

**NKMNOELL**  
SPECIAL CRANES