NEMAG

Presentation





INTRODUCTION NEMAG

Nemag handles your bulk

NEMAG Introduction

- Specialized in 4 rope grabs for high occupancy degree installations
- Standardized and tailor made bulk handling solutions
- Experience since 1924
- Export to 60+ countries world wide
- Focus on research & development
- 6300 m² production facility





OUR SOLUTIONS

Nemag handles your bulk



THE DIFFERENT GRAB TYPES

clamshell grab







THE CLAMSHELL GRAB

Characteristics

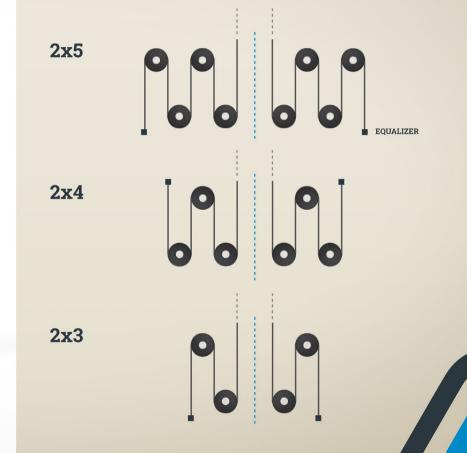
- Suitable for a wide range of cargoes, including coal, ore, minerals, grains and fertilizer
- Favourable payload / dead weight ratio
- Long lifespan of grab's close ropes
- Environmentally friendly execution







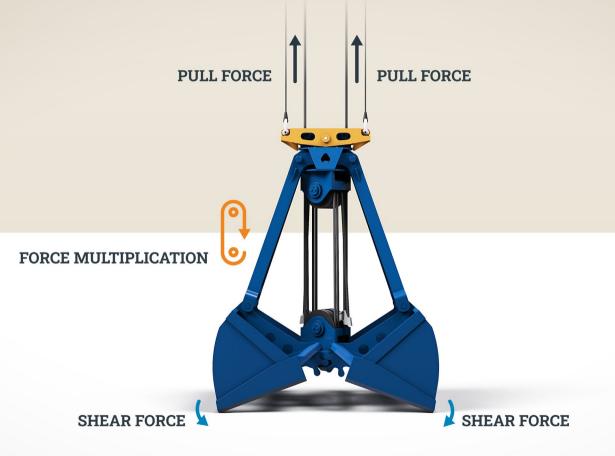
Possible configurations

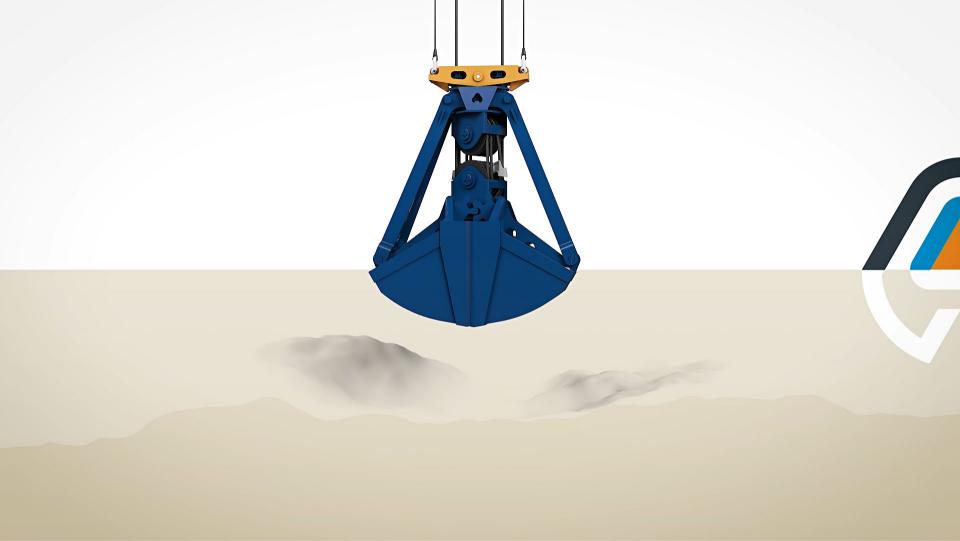


Strands	Bulk density	Materials
2 x 3	< 0,8 t/m3	Grains and other free flowing lightweight materials
2 x 4	0,8 - 1,8 t/m3	Various bulk materials like: Sand, fertilizers, limestone, etc
2 x 5	> 1,8 t/m3	Materials such as Iron ore, minerals, concentrates etc.



COMPARING CLOSING MECHANISMS





THE SCISSORS GRAB

Characteristics

- Mainly suitable for coal, iron ore and bauxite
- Excels through a very high productivity combined with very low maintenance
- High average productivity by extended free digging phase
- Superb stability by low position centre of gravity, no time loss due to toppling over of the grab
- Extremely good cleaning-up performance, big savings on trimming equipment and staff
- Used at high berth occupancy degrees





THE CACTUS GRAB

Characteristics

- Designed for handling coarse materials, like heavy metal scraps, shredded scraps, pig iron, stones, household waste
- Favourable volume in relation to its own weight
- Extremely robust design





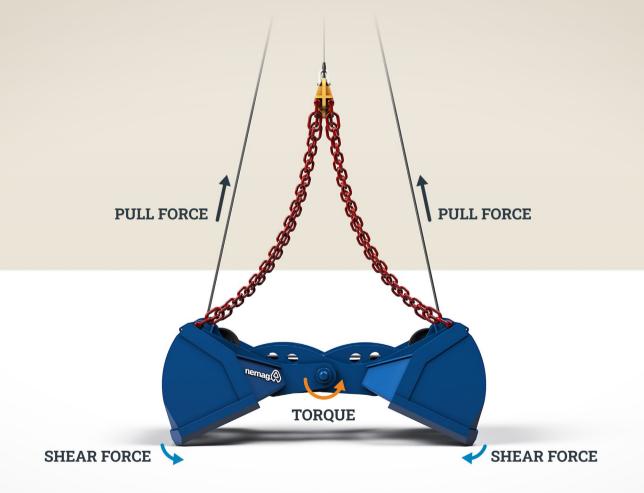
NEMAX Characteristics

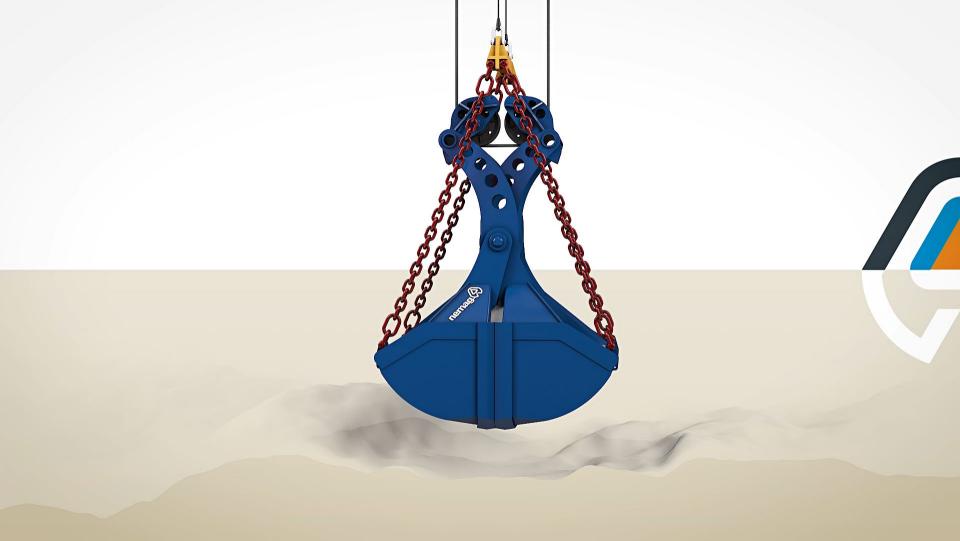
- Suitable materials of 1.3 t/m3 and upwards
- Low deadweight
- High average productivity by extended free digging phase
- Superb stability by low position centre of gravity, no time loss due to toppling over of the grab
- Extremely good cleaning-up performance, big savings on trimming equipment and staff







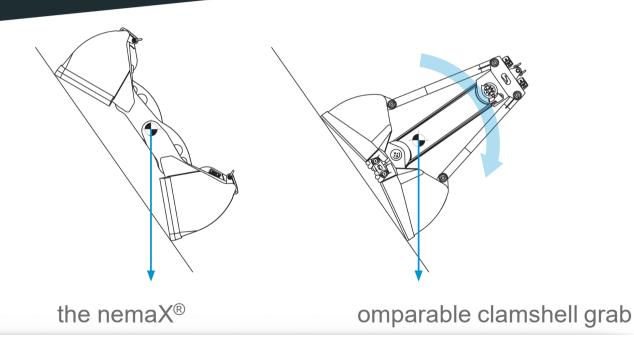




Higher productivity



High productivity at steep slopes due to stability and low centre of gravity

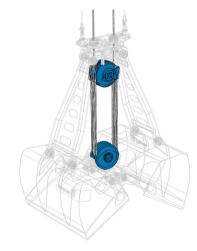




Low maintenance by fewer moving parts



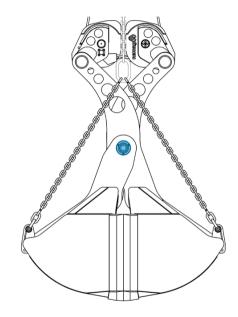
the nemaX® - 2 sheaves



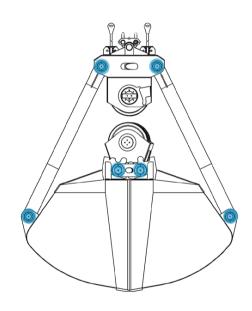
comparable clamshell grab 6 – 8 sheaves



Low maintenance by only 1 pivot point



the nemaX® - 1 main pivot point



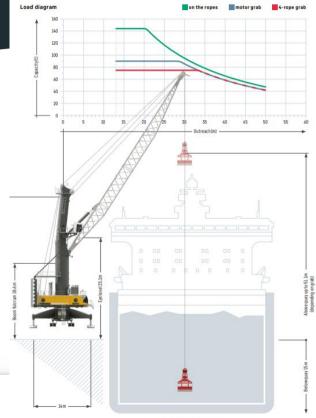
comparable clamshell grab – 6 main pivot points



CRANE – GRAB COMBINATION

Selecting the right grab

SEARCHING THE RIGHT GRAB



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	Hook operation	Grab operation	
Outreach	on the ropes	4-rope grab	motor grab
(m)	(t)	(t)	(t)
13-18	144.0	75.0	90.0
19	144.0	75.0	90.0
20	144.0	75.0	90.0
22	133.0	75.0	90.0
24	121.1	75.0	90.0
25	115.9	75.0	90.0
26	111.6	75.0	90.0
28	103.1	75.0	90.0
29	98.8	75.0	89.0
30	94.8	75.0	85.3
31	91.0	75.0	81.9
32	87.3	75.0	78.6
33	83.9	75.0	75.5
34	80.6	72.5	72.5
36	74.9	67.4	67.4
38	70.0	63.0	63.0
40	65.4	58.8	58.8
42	61.0	54.9	54.9
44	57.0	51.3	51.3
46	53.4	48.1	48.1
48	50.1	45.1	45.1
50	47.1	42.4	42.4

Weight ramshorn hook 3.81; Weight rotator 4.01

BUSINESS CASE VLI PECEM - BRASIL

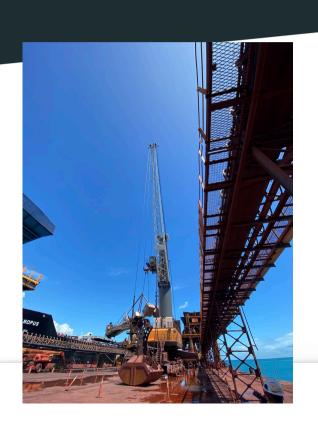
results

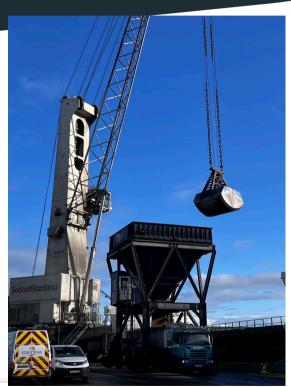
SEARCHING THE RIGHT GRAB

Competitors clamshell grab	Nemag clamshell grab	NemaX
94 seconds per cycle	92 seconds per cycle	60 seconds per Cycle
12m3	12m3	12.9m3
Max. productivity 1.000 Ton /hour	Max. productivity 1.200 Ton /hour	Max. productivity 1.500 Ton /hour
Often Overloads during operation.	½ of the overloads of the original grab	Close to zero overloads while operating



EXISTING CONVEYER AND HOPPER SYSTEM







CONTACT DETAILS

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THANK YOU FOR YOUR ATTENTION

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