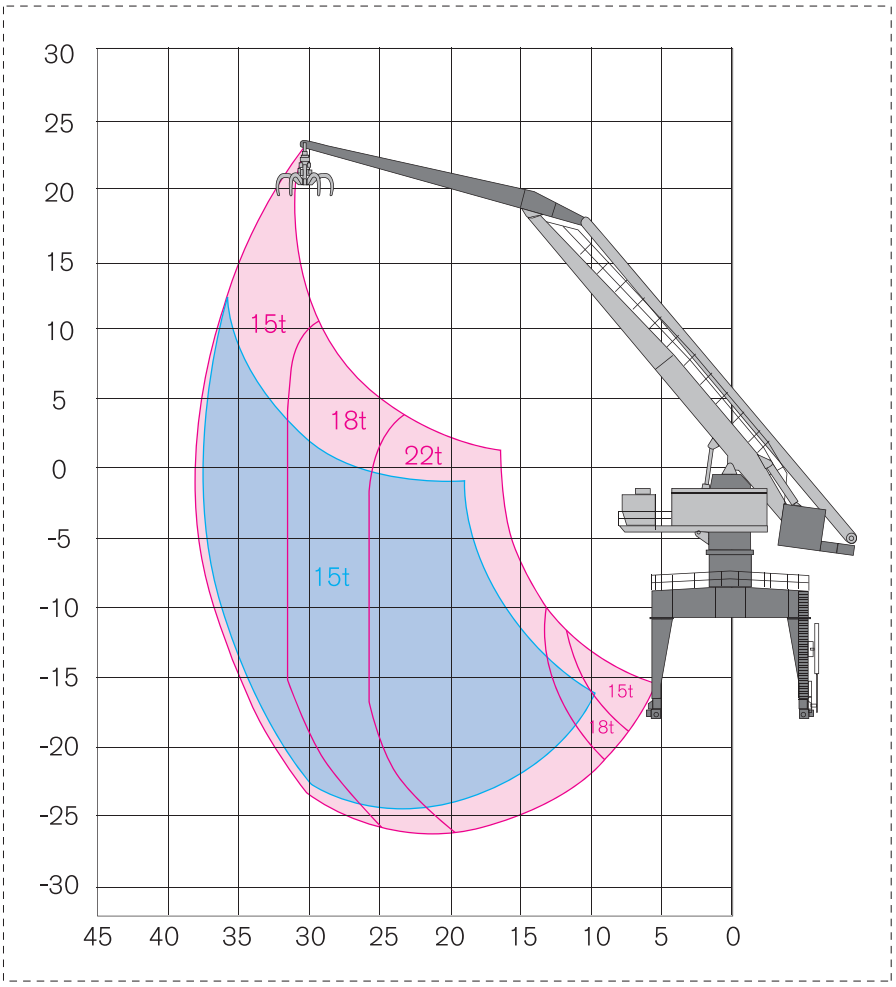
PELIKAN
500 / 600 / 800

SERIES VERSIONS

ARDELT

MORE EFFICIENCY AND HIGH PERFORMANCE:
THE NEW PELIKAN

- the movable counterweight design enables the balance of the jib system to be improved across the whole working range – reducing energy consumption
- optimised computer designed steel structure for a long service life
- high operating availability using components from market leading manufacturers
- lifting capacities increased by up to 40%, with a lower deadweight
- greater working area due to improved integration of the operating cylinders
- high working speeds – greater handling capacity
- improved operator control
- short delivery times, simple maintenance and improved spare parts availability due to a higher degree of standardisation



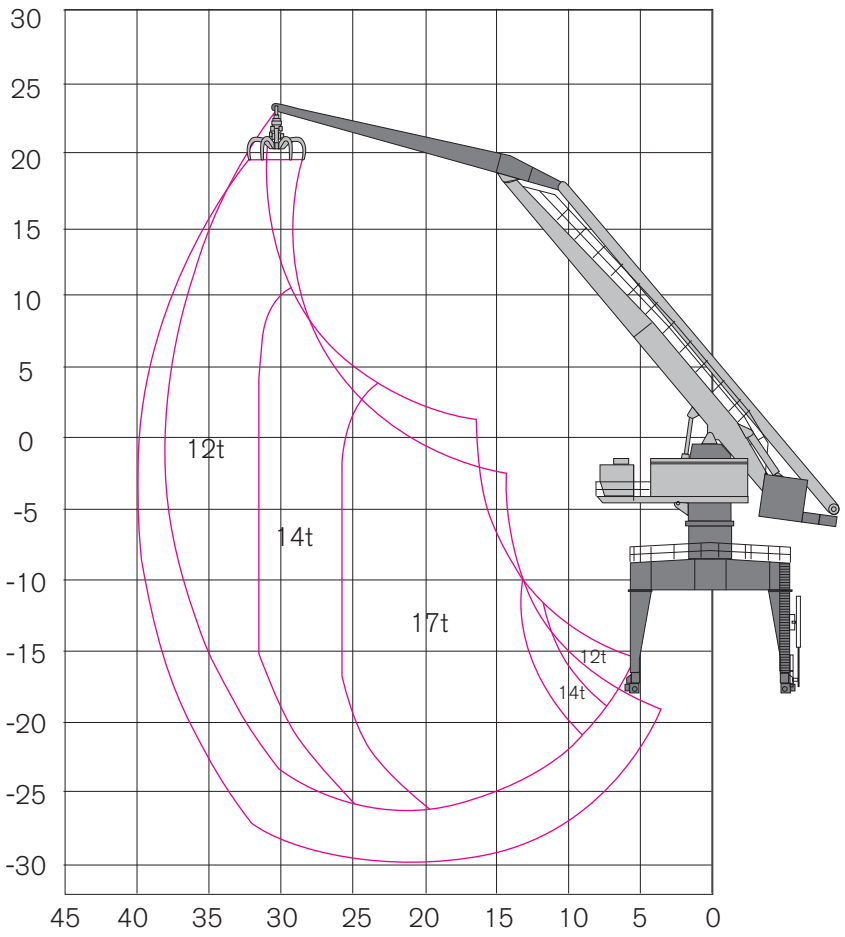
ARDELT

IMPROVED OPERATOR CONTROL: THE DRIVER'S CABIN

- spacious and comfortable environment
- heat and sound insulated walls and roof
- ergonomic, air-cushioned operator's seat with joystick control
- display controls and indicators are clearly visible and easy to use
- air-conditioned
- heating with circulating air and external air exchange options
- large windows providing maximised panorama
- floor window, manufactured in clear safety glass
- roof and side windows, manufactured in green tinted safety glass
- integrated wash-wipe capability on front and roof windows
- front panels can be cleaned from the exterior
- built-in sunshades on the upper front window
- lockable side door with gas spring fitment
- additional folding seat

LIFTING CAPACITIES:
THE PELIKAN 500

All lifting capacities are indicated in metric tons (t) in the chart below and capacities utilise 87% of the hydraulic lifting force according to ISO10567. The PELIKAN as standard offers 360° continuous rotation and positive grab penetration. Load attachment equipment such as clamshell or multi-tine grabs, load magnets etc. form part of the hoisted load.
In line with CE regulations load moment indication and limitation and pipe failure protection are offered as standard.



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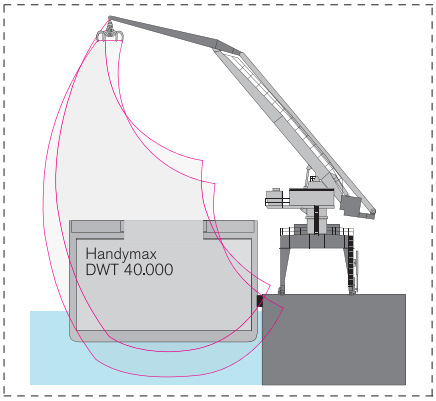
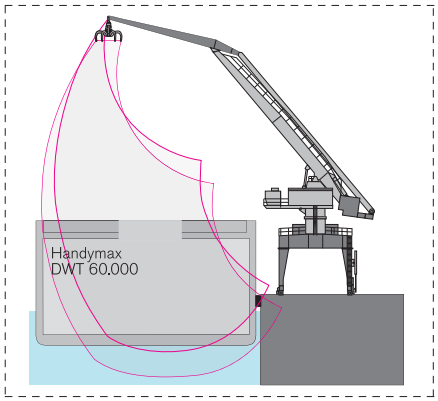
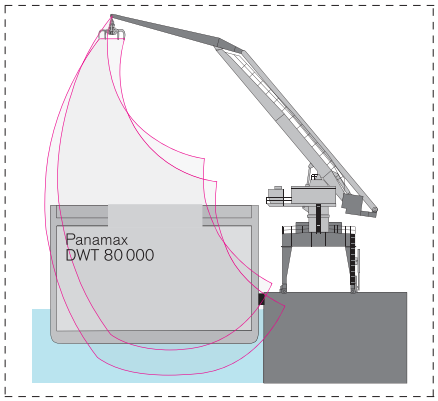
APPLICATION EXAMPLES:
THE PELIKAN 500







Hoisting height (m) in relation to the main arm	Lifting Capacity Chart Pelikan 500 - 12t*38m																			
	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
24																				
22																				
20				14,3																
18				14,3																
16			13,4	14,3																
14			13,4	14,3																
12		12,7	13,4	14,3																
10		12,7	13,4	14,3	15,2															
8		12,7	13,4	14,3	15,2	16,3														
6		12,7	13,4	14,3	15,2	16,3														
4	12,0	12,7	13,4	14,3	15,2	16,3	17,6	19,0												
2	12,0	12,7	13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,5										
0	12,0	12,7	13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,9	25,3									
-2	12,0	12,7	13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,9	25,4									
-4	12,0	12,7	13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,9	25,4	28,6								
-6		12,7	13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,9	25,4	28,6								
-8			13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,9	25,4	28,6								
-10			13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,9	25,4	28,6	20,2							
-12			13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,9	25,4	28,6	21,1	15,5						
-14			13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,9	25,4	28,6	22,6	17,2	13,5					
-16			13,4	14,3	15,2	16,3	17,6	19,0	20,8	22,9	25,4	28,1	24,3	19,0	15,4	12,9	11,1			
-18				14,0	15,2	16,3	17,6	19,0	20,6	22,4	24,5	27,0	26,3	21,0	17,4	14,9				
-20				13,0	14,4	15,6	16,9	18,2	19,8	21,4	23,4	25,6	28,3	23,2	19,5					
-22					13,2	14,6	15,9	17,2	18,6	20,2	22,0	24,0	26,4	25,5						
-24						13,2	14,6	15,9	17,3	18,7	20,3	22,1	24,1							
-26									15,6	16,9										

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TECHNICAL DATA:
THE PELIKAN 500

ELECTROMOTOR
- Capacity 2x160 kW; 400 V/50 Hz

HYDRAULIKSYSTEM
Load Sensing hydraulic system for work functions
- Pump type: 2 swash-plate piston pumps, load-independent volume control for simultaneous, independent control of the operating functions
- Pump regulation: zero stroke regulation, load-sensing control – the pumps only convey as much oil as is actually used, pressure cut-off, maximum load control
- Flow rates: 2x385 l/min max.
- Working pressure: 270 bar max.

Closed-loop hydraulic system for the slewing gear
- Pump type: reversible swash-plate piston pump
- Pump control: moment control, energy recovery under braking
- Flow rates: 2x250 l/min max.
- Working pressure: 330 bar max.
- Filtration: high-duty filtration with long-term interval and superfine filter system with water separation
- Cooling: large capacity cooling unit with thermostatically regulated fan drives
- Hydraulic tank: 1600 l
- Control: proportional, sensitive activation of movements, 2 joysticks and switches provide all control functions.

All hydraulic circuits are protected by safety valves. Large section hydraulic valves and lines ensure high energy efficiency is achieved. Pipe burst lock valves are installed in the hydraulic cylinders.

SLEWING GEAR:
2 off compact planetary gears with axial piston motors.
- Holding brake: spring actuated multi-disc brake
- Slewing bearing: large sealed internal tooth roller slewing bearing with central lubrication system
- Slewing speed: 0 – 2.5 min-1, infinitely variable

The drive units are installed within the A-structure and thereby protected from environmental conditions.

SLEWABLE PART:
- Design: torsion-resistant box construction, precision-processed, service-friendly configuration, accessible machinery house (Power Pack) and main arm

WORKING PRINCIPLE:
- Bearing points: special low-maintenance bearing bushings, lubrication via a central lubrication system
- Cylinders: hydraulic cylinders with high-grade sealing and guide elements

CABIN:
Large cabin, flexibly mounted, with excellent all-round visibility, large floor pane, deluxe sprung seat, cutting-edge ergonomic controls, high-capacity heating and air-conditioning, sun screens, ventilation through hinged and sliding windows, filters for external air and recirculating-air ventilation, storage space, emergency seat.

SERVICE WEIGHT:
The PELIKAN 500 has a weight of approx. 200 t.
The service weight varies depending on the execution of the crane and its equipment. Subject to technical modifications.

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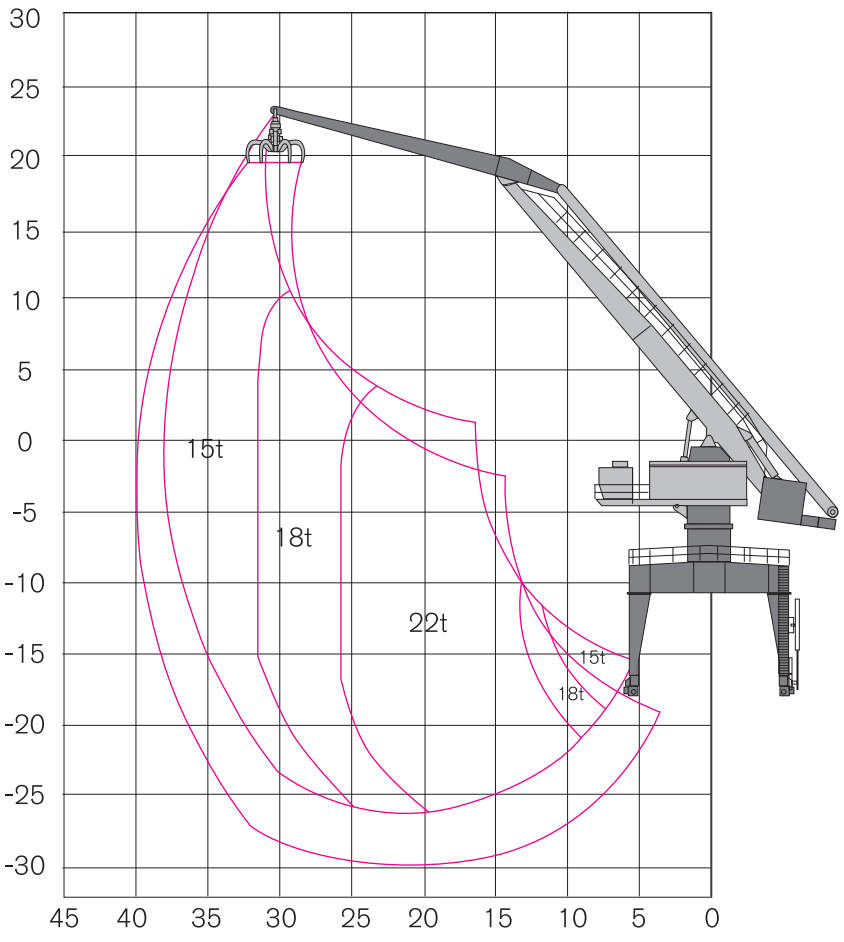
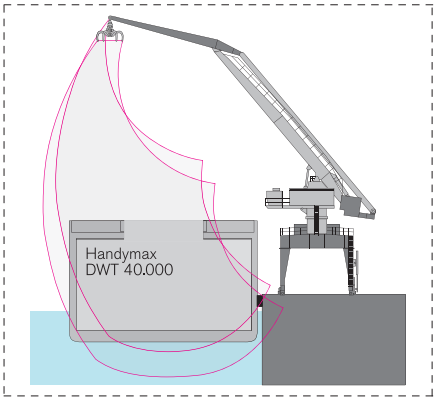
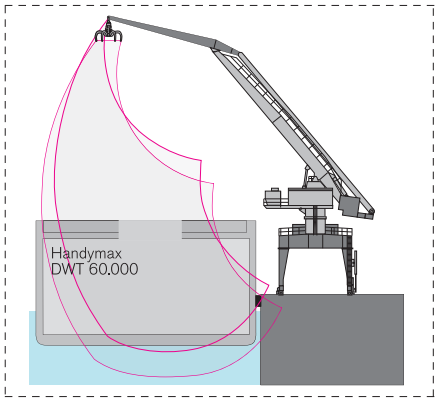
LIFTING CAPACITIES:
THE PELIKAN 600

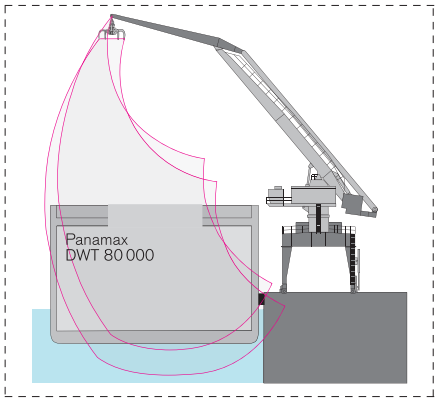
All lifting capacities are indicated in metric tons (t) in the chart below and capacities utilise 87% of the hydraulic lifting force according to ISO 10567. The PELIKAN as standard offers 360° continuous rotation and positive grab penetration. Load attachment equipment, such as clamshell or multi-tine grabs etc. form part of the hoisted load. In line with CE regulations load moment indication and limitation and pipe failure protection are offered as standard.



APPLICATION EXAMPLES:
THE PELIKAN 600







Hoisting height (m) in relation to the main arm	Lifting Capacity Chart Pelikan 600 - 15t*38m																			
	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
24																				
22																				
20				16,4																
18				16,2																
16			16,1	16,1																
14			16,0	16,1																
12		15,8	16,0	16,2																
10		15,8	16,0	16,3	16,6															
8		15,8	16,1	16,4	16,8	17,3														
6		15,9	16,2	16,6	17,1	17,6														
4	15,0	15,9	16,3	16,8	17,3	18,0	18,7	19,5												
2	15,0	15,9	16,5	17,0	17,6	18,3	19,2	20,2	21,4	22,8										
0	15,0	15,9	16,6	17,2	17,9	18,7	19,6	20,7	22,1	23,8	26,0									
-2	15,0	15,9	16,7	17,4	18,1	19,0	20,1	21,3	22,8	24,7	27,1									
-4	15,0	15,9	16,8	17,5	18,4	19,3	20,4	21,8	23,4	25,5	28,1	31,5								
-6		15,9	16,8	17,6	18,5	19,5	20,7	22,2	23,9	26,1	28,8	32,3								
-8		15,9	16,8	17,7	18,6	19,7	21,0	22,5	24,3	26,5	29,3	30,5								
-10		15,9	16,8	17,7	18,7	19,8	21,1	22,7	24,5	26,8	29,6	28,7	19,3							
-12		15,7	16,7	17,6	18,7	19,8	21,2	22,7	24,6	26,9	29,7	28,4	20,1	14,9						
-14			16,5	17,5	18,5	19,7	21,1	22,7	24,6	26,8	29,6	29,0	21,3	16,4	13,0					
-16			16,1	17,2	18,3	19,5	20,9	22,5	24,4	26,6	29,3	30,1	22,7	18,0	14,7	12,3	10,7			
-18				16,8	18,0	19,2	20,6	22,2	24,0	26,2	28,8	31,8	24,4	19,7	16,4	14,1				
-20				16,1	17,4	18,7	20,1	21,7	23,5	25,6	28,1	31,1	26,4	21,5	18,2					
-22					16,6	18,0	19,5	21,0	22,8	24,8	27,1	30,0	28,7	23,5						
-24						17,0	18,5	20,1	21,8	23,7	25,9	28,6	31,4							
-26									20,5	22,4										

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TECHNICAL DATA:
THE PELIKAN 600

ELECTROMOTOR
- Capacity 2x200 kW; 400 V/50 Hz

HYDRAULIC SYSTEM
Load sensing hydraulic system for work functions
- Pump type: 2 swash-plate piston pumps, load-independent volume control for simultaneous, independent control of the operating functions
- Pump regulation: zero stroke regulation, load-sensing control – the pumps only convey as much oil as is actually used, pressure cut-off, maximum load control
- Flow rates: 2x525 l/min max.
- Working pressure: 270 bar max.

Closed-loop hydraulic system for the slewing gear
- Type of pump: reversible swash plate piston pump
- Pump control: moment control, energy recovery under braking
- Flow rates: 2x250 l/min max.
- Working pressure: 330 bar max.
- Filtration: high-duty filtration with mit long-term interval and superfine filter system with water separation
- Cooling: large capacity cooling unit with thermostatically regulated fan drives
- Hydraulic tank: 1600 l
- Control: proportional, sensitive activation of movements, 2 joysticks and switches provide all control functions

All hydraulic circuits are protected by safety valves. Large section hydraulic valves and lines ensure high energy efficiency is achieved. Pipe burst lock valves are installed in the hydraulic cylinders.

SLEWING GEAR:
2 off compact planetary gears with axial piston motors.
- Holding brake: spring actuated multi-disc brake
- Slewing bearing: large sealed internal tooth roller slewing bearing with central lubrication system
- Slewing speed: 0-2.2 min-1, infinitely variable

The drive units are installed within the A-structure and thereby protected from environmental conditions.

SLEWABLE PART:
- Design: torsion-resistant box construction, precision-processed, service-friendly configuration, accessible machinery house (Power Pack) and main arm

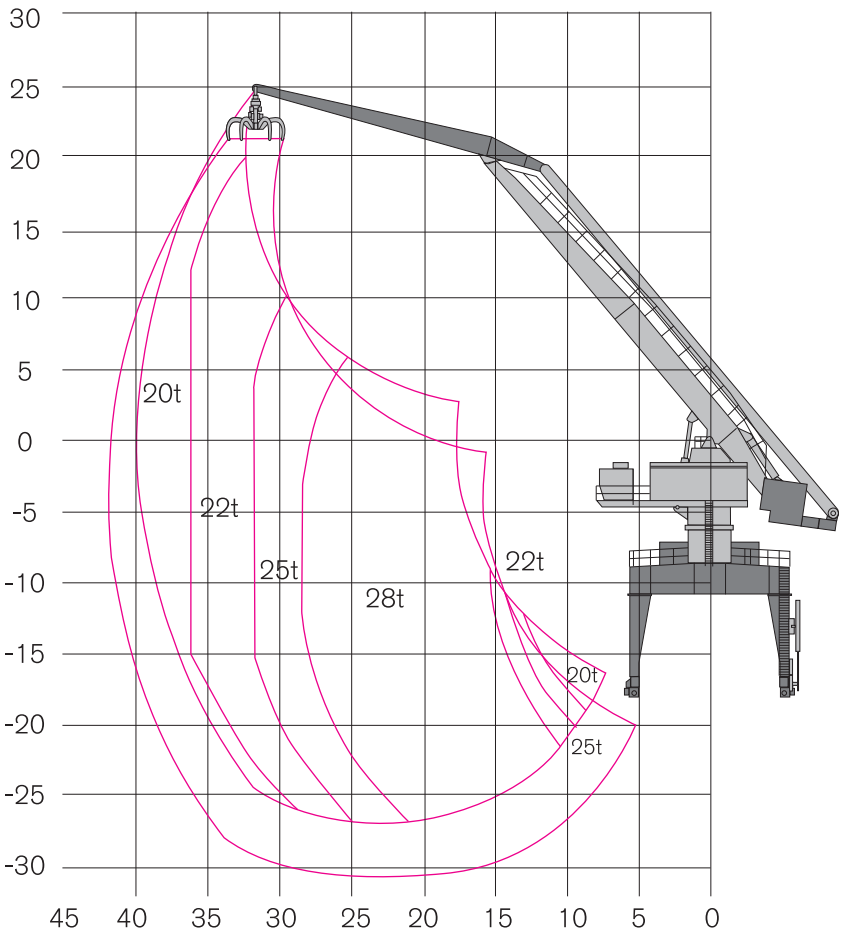
WORKING PRINCIPLE:
- Bearing points: special low-maintenance bearing bushings, lubrication via a central lubrication system
- Cylinders: hydraulic cylinders with high-grade sealing and guide elements

CABIN:
Large cabin, flexibly mounted, with excellent all-round visibility, large floor pane, deluxe sprung seat, cutting-edge ergonomic controls, high-capacity heating and air-conditioning, sun screens, ventilation through hinged and sliding windows, filters for external air and recirculating-air ventilation, storage space, emergency seat.

SERVICE WEIGHT:
The PELIKAN 600 has a weight of approx. 235 t.
The service weight is depending on the execution of the crane and its equipment. Subject technical modifications.

LIFTING CAPACITIES:
THE PELIKAN 800

All lifting capacities are indicated in metric tons (t) in the chart below and capacities utilise 87% of the hydraulic lifting force according to ISO 10567. The PELIKAN as standard offers 360° continuous rotation and positive grab penetration. Load attachment equipment, such as clamshell or multi-tine grabs etc. form part of the hoisted load. In line with CE regulations load moment indication and limitation and pipe failure protection are offered as standard.



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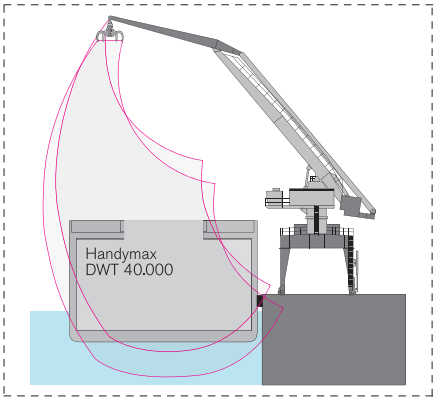
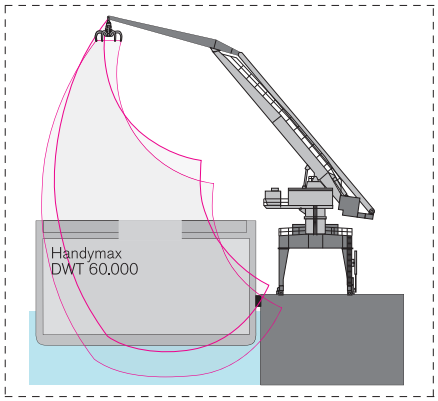
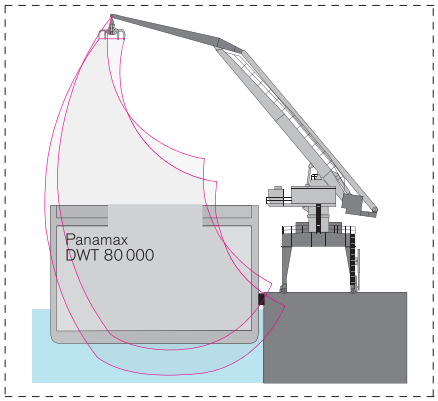
APPLICATION EXAMPLES:
THE PELIKAN 800







Hoisting height (m) in relation	Lifting Capacity Chart Pelikan 800 - 20t*40m Radius (m)																				
	40	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
24					24,3																
22				23,9	24,0																
20				23,6	23,8																
18			22,4	23,5																	
16			22,3	23,3																	
14			22,3	23,5	24,0																
12		21,1	22,3	23,6	24,2																
10		21,1	22,3	23,6	24,4	25,1															
8		21,1	22,3	23,6	24,6	25,4	26,3														
6		21,1	22,3	23,6	24,9	25,8	26,8	27,9													
4	20,1	21,1	22,3	23,6	25,1	26,1	27,2	28,5	30,0												
2	20,1	21,1	22,3	23,6	25,1	26,4	27,6	29,0	30,7	32,7	35,2	37,5									
0	20,1	21,1	22,3	23,6	25,1	26,7	28,0	29,5	31,3	33,5	36,2	38,4									
-2	20,1	21,1	22,3	23,6	25,1	26,8	28,3	29,9	31,8	34,2	37,0	39,8									
-4	20,1	21,1	22,3	23,6	25,1	26,8	28,5	30,2	32,2	34,7	37,6	41,3									
-6		21,1	22,3	23,6	25,1	26,8	28,7	30,4	32,5	35,0	38,0	41,8									
-8		21,1	22,3	23,6	25,1	26,8	28,7	30,5	32,6	35,1	38,2	41,9									
-10		21,1	22,3	23,6	25,1	26,8	28,7	30,5	32,6	35,1	38,1	41,8	31,3								
-12		21,1	22,3	23,6	25,1	26,8	28,5	30,4	32,5	34,9	37,9	41,4	32,5	24,6							
-14			22,3	23,6	25,1	26,6	28,2	30,1	32,1	34,6	37,4	40,8	34,1	26,7	21,6						
-16			21,9	23,3	24,7	26,2	27,8	29,6	31,7	34,0	36,8	40,0	36,2	29,0	24,0	20,4	19,3				
-18				22,6	24,1	25,6	27,2	29,0	31,0	33,3	35,9	39,0	38,7	31,5	26,6	23,0	20,4				
-20				21,7	23,3	24,8	26,5	28,2	30,2	32,3	34,8	37,7	41,1	34,2	29,2	25,5					
-22					22,2	23,8	25,5	27,2	29,1	31,2	33,5	36,2	39,3	37,1	31,8						
-24					20,6	22,5	24,2	26,0	27,8	29,8	31,9	34,4	37,2	40,3							
-26							22,6	24,3	26,1	28,0	30,0	32,3									

TECHNICAL DATA:
THE PELIKAN 800

ELECTROMOTOR
- Capacity 2x315 kW; 400 V/50 Hz

HYDRAULIC SYSTEM
Load sensing hydraulic system for work functions
- Pump type: 4 swash-plate piston pumps, load-independent volume control for simultaneous, independent control of the operating functions
- Pump regulation: zero stroke regulation, load-sensing control – the pumps only convey as much oil as is actually used, pressure cut-off, maximum load control
- Flow rates: 4x385 l/min max.
- Working pressure: 270 bar max.

Closed-loop hydraulic system for the slewing gear
- Pump type: reversible swash-plate piston pump
- Pump control: moment control, energy recovery under braking
- Flow rates: 2x360 l/min max.
- Working pressure: 330 bar max.
- Filtration: high-duty filtration with long-term interval and superfine filter system with water separation
- Cooling: large capacity cooling unit with thermostatically regulated fan drives
- Hydraulic tank: 2x1600 l
- Control: proportional, sensitive activation of movements, 2 joysticks and switches provide all control functions.

All hydraulic circuits are protected by safety valves. Large section hydraulic valves and lines ensure high energy efficiency is achieved. Pipe burst lock valves are installed in the hydraulic cylinders.

SLEWING GEAR:
2 off compact planetary gears with axial piston motors.
- Holding brake: spring actuated multi-disc brake
- Slewing bearing: large sealed internal tooth roller slewing bearing with central lubrication system
- Slewing speed: 0-2.2 min-1, infinitely variable

The drive units are installed within the A-structure and thereby protected from environmental conditions.

SLEWABLE PART:
- Design: torsion-resistant box construction, precision-processed, service-friendly configuration, accessible machinery house (Power Pack) and main arm

WORKING PRINCIPLE:
- Bearing points: special low-maintenance bearing bushings, lubrication via a central lubrication system
- Cylinders: hydraulic cylinders with high-grade sealing and guide elements

CABIN:
Large cabin, flexibly mounted, with excellent all-round visibility, large floor pane, deluxe sprung seat, cutting-edge ergonomic controls, high-capacity heating and air-conditioning, sun screens, ventilation through hinged and sliding windows, filters for external air and recirculating-air ventilation, storage space, emergency seat.

SERVICE WEIGHT:
The PELIKAN 800 has a weight of approx. 310 t.
The service weight varies depending on the execution of the crane and its equipment. Subject to technical modifications.

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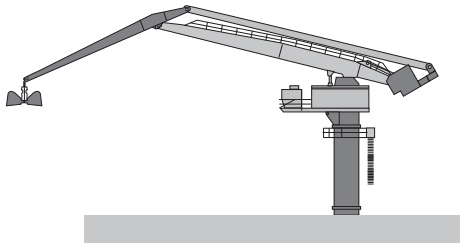
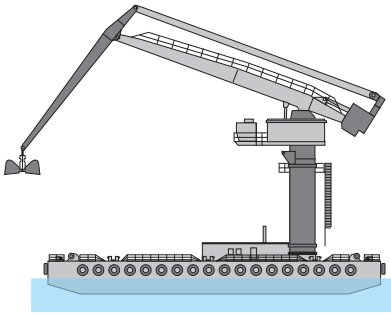
APPLICATION EXAMPLES:
THE PELIKAN

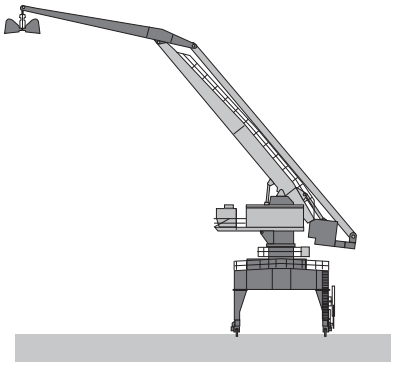
Pedestal-mounted



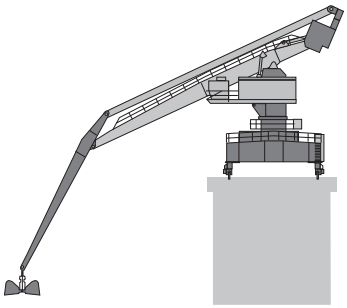
Barge-mounted



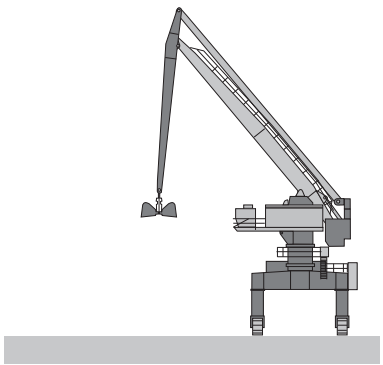
Rail-mounted with a high gantry



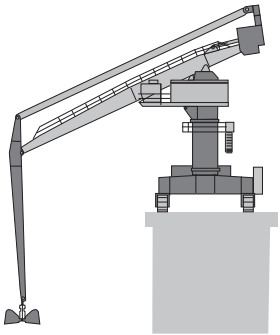
Rail-mounted with a low gantry



Crawler-mounted with a high gantry



Crawler-mounted with a low gantry



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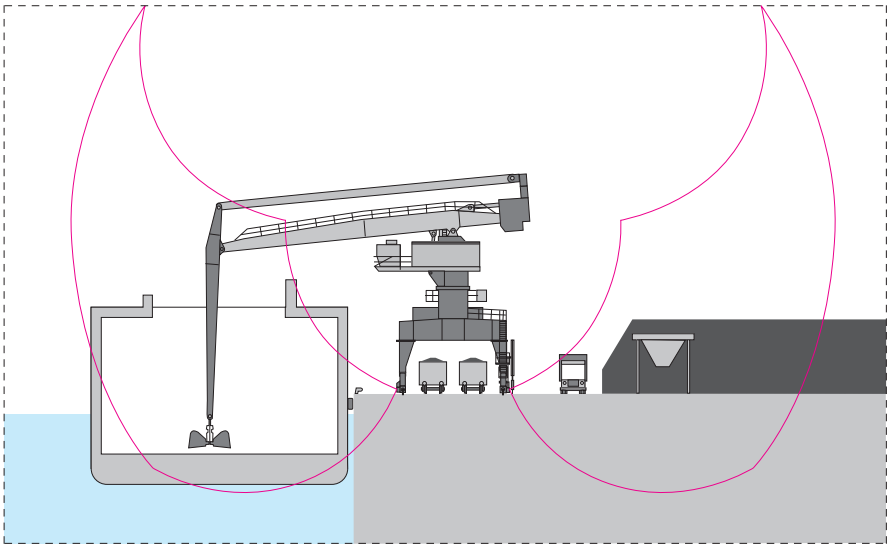
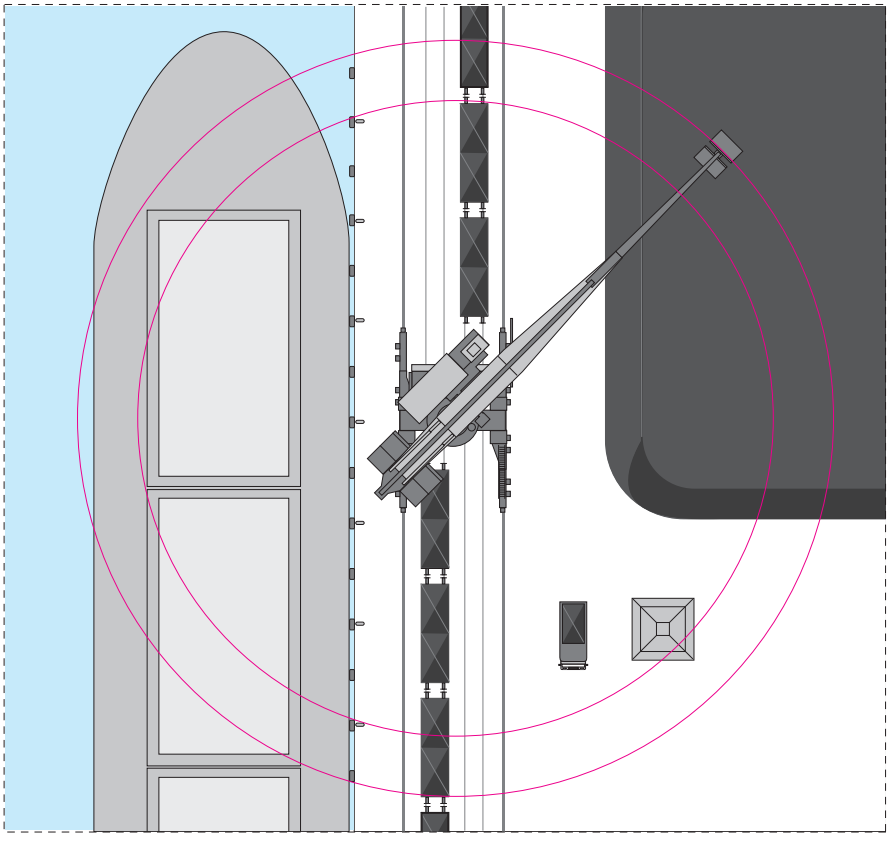
INTEGRATED LOGISTICS SYSTEM: THE PELIKAN

Example: port application





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THE PELIKAN:
SERIES VERSIONS

PELIKAN 380 / 500

TSR Bottrop, Federal Republic of Germany

Lifting capacity	10 / 20 T
Maximum radius	38 / 20 M
Total lifting height	39 M
Gantry gauge	12 M
Year of production	2011
Handling	mixed scrap

PELIKAN 580 / 600

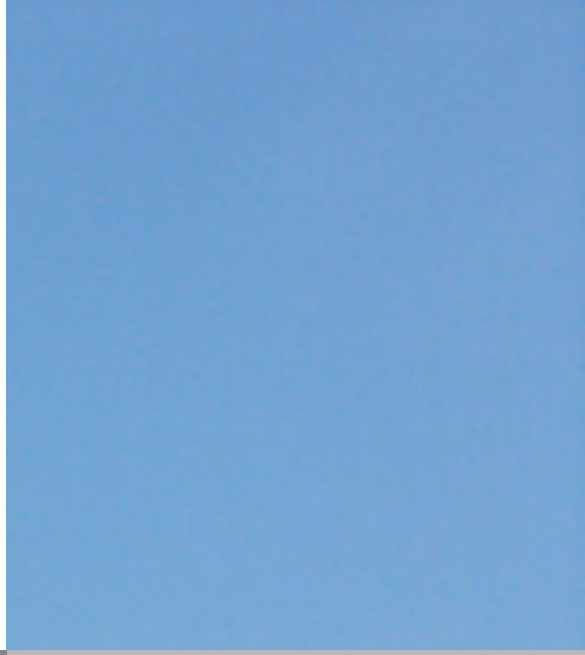
Odense Havn, Denmark

Lifting capacity	15 T
Maximum radius	38 M
Total lifting height	39 M
Gantry gauge	12 M
Year of production	2005
Handling	mixed scrap

PELIKAN 780 / 800

Samho Shipbuilding, Korea

Lifting capacity	25 T
Maximum radius	31 M
Total lifting height	38 M
Gantry gauge	12 M
Year of production	1994
Handling	steel plates



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WORLD MARKET LEADERS UNITED.

Kranunion is an association of three crane manufacturers who have specialised in lifting and transporting heavy loads.

KIROW is the world market leader for railway cranes and slag pot carriers

ARDELT is the world market leader for double jib level luffing cranes

KOCKS is the world market leader for Goliath cranes and a pioneer in the development of container cranes

Central to all Kranunion products are the technical design concepts created by our experts. Of course, we continue to optimise those fundamental concepts even further in the interests of our customers. Kranunion products are therefore based on practical requirements and are a symbiosis of tradition and innovation combining the tried and tested with the new.

Customers who choose Kranunion choose great German engineering skill: for environmentally-friendly and safe, modern technology, for low operating costs, for high performance and reliability.

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