













A.A. Bashkankov Chairman Of The Board of JSC RIKON

The manufacture of equipment for ports has characterised the history of today's company **JSC RIKON**. The company was founded on the order of the Maritime Minister dated 17 November, 1954, No.51, on the creation of the Central workshop. The primary goals of this consisted in mastering new samples and manufacture of replaceable spare parts for port machinery, cargo handling accessories, metal constructions for port equipment and port structures. In 1974 the interprise acquired new factory buildings and was renamed an experimental enterprise for manufacturing and installation of equipment under the Directorate for manufacture and installation of equipment of the Maritime Ministry of the USSR. After transformation into a joint-stock company at the beginning of 90s, the factory became A/S RIKON. a joint–stock company at the beginning of 90s, the factory became A/S RIKON.

The basic business area of the factory today is the manufacture of port equipment and metal constructions:

- Metal working and manufacture of tailored metal constructions
 Repairs, modification, installation and dismantling of gantry cranes

The factory production is well-known in all ports of the former USSR, from the Baltic to the Far East. Clients also include companies in Finland, Sweden and Germany. The company has its own know-how and wide experience in the field of manufacture of trans-shipping machinery for ports in the industry. All works, from planning, designing and manufacturing to installation and commissioning are carried out by the company itself. The works are supported by a reliable service.





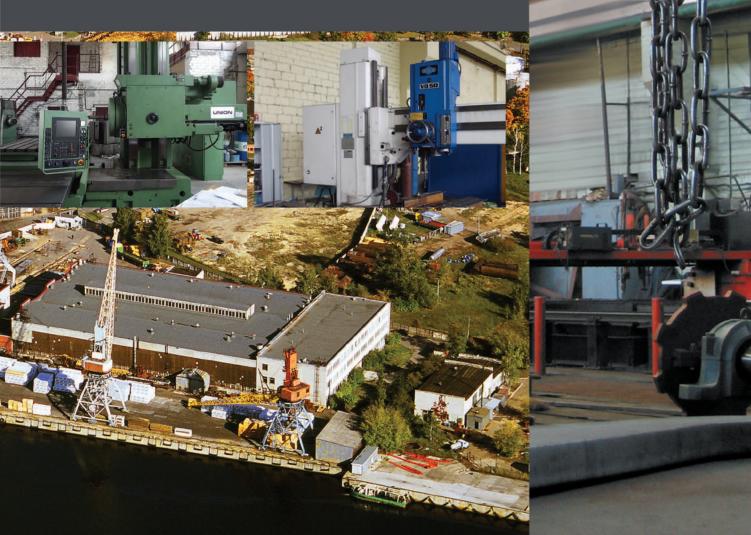
During the years of privatisation, a serious modernisation of the factory was carried out with the installation of new Italian and Finnish equipment, which in turn, attracted world- renowned manufacturers to work with the factory.

The factory has a territory of 21,000 m², wharf wall of 130 l/m. Within the territory of the factory there are well equipped shops making total floor space of more than 4,200 m².

The basic type of equipment includes universal metal-cutting machine tools, forge-press equipment, the most advanced welding equipment, flame-cutting equipment with computer control. Unique bending equipment is available, which makes for manufacturing of scantlings with a thickness of up to 20 mm and length of up to 6 m.

The application of almost half a century experience in manufacture of port machinery forms an important precondition for solving the problems of a customer. The production and service of the JSC RIKON company comply with the standards ISO 9001:2009.

Tvaika, 68b, Riga, LV-1034, Latvia Phone: +371 7393156; fax: +371 7391647 rikon@rikon.lv www.rikon.lv





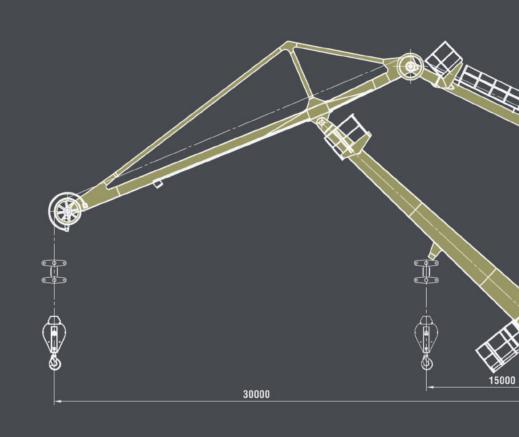
Electric Transshipment Gantry Crane









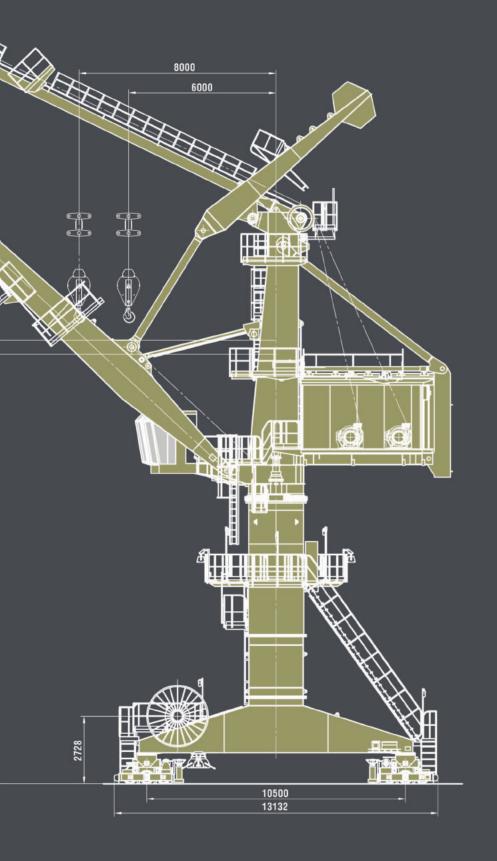


TECHNICAL SPECIFICATIONS:

Boom Reach* Minimum (m) Maximum (m)	8 30	Lifting Height (m) grab bucket hook	20 22
Load Lifting Capacity Grab bucket mode (t) boom reach 30–8 m Hook mode (t)** boom reach 30–15 m	10 10-20	Lowering Depth (m) grab bucket hook Superstructure tail radius (m)	15 15 7,0
boom reach 30–15 m boom reach 16–8 m Crane Gauge (m)***	10-20 20 10,5	Operating Speeds: Lifting/lowering (m/min) Turning (rpm) Jibbing (m/min) Traveling (m/min)	64-90 1,6-2,2 64 20
Maximum load per wheel (t) Crane Weight (t)	22,5 160	Crane base (m) Crane operation mode according to ISO 4301/1	10,5 A8

*possibility of increase up to 36 m ** possibility of increase up to 30 t *** possibility of increase up to 15.3 m $\,$













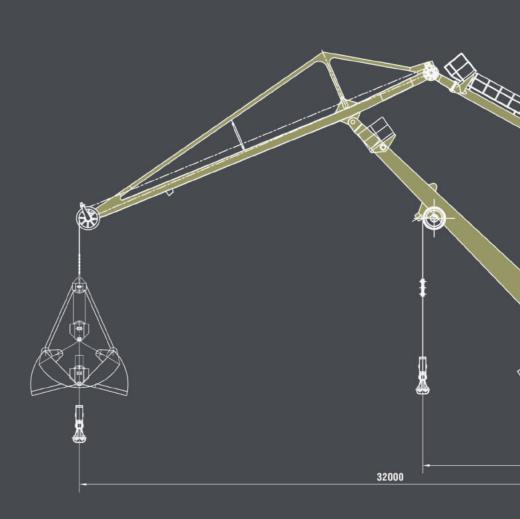










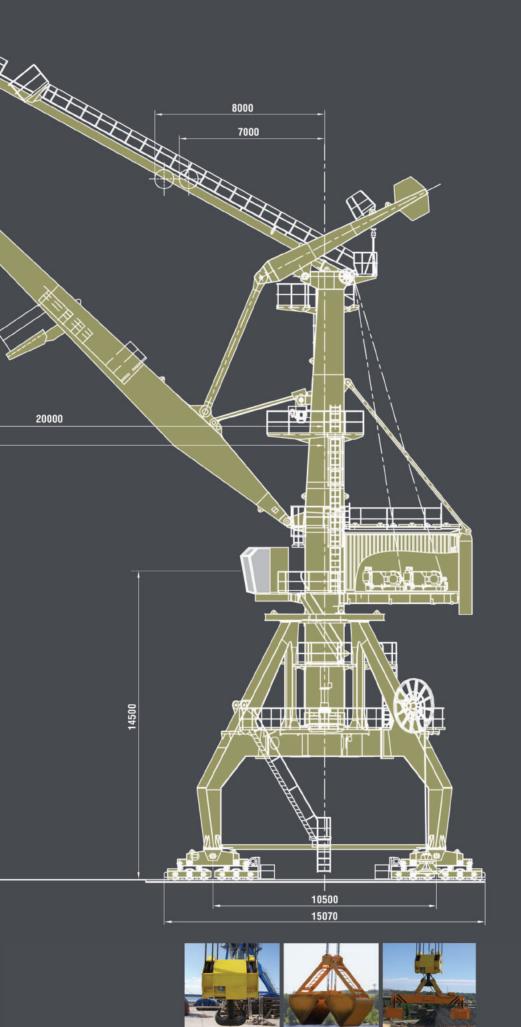


C Ν C

Boom Reach* Minimum (m) Maximum (m)	8 32	Lifting Height (m) grab bucket hook	22,9 25,6
. oad Lifting Capacity** Grab bucket mode (t)		Lowering Depth (m) grab bucket hook	23 20
boom reach 32–8 m	18	Superstructure tail radius (m)	7,0
Hook mode (t)*** boom reach 32–20 m boom reach 20–8 m	18-32 32	Operating Speeds: Lifting/lowering (m/min) Turning (rpm) Jibbing (m/min) Traveling (m/min)	64-90 1,6-2,2 63 20
Crane Gauge (m)****	10,5	, , , , , , , , , , , , , , , , , , ,	
Maximum load per wheel (t)	22,5	Crane base (m) Crane operation mode according to	10,5
Crane Weight (t)	220	ISO 4301/1	A8

* possibility of increase up to 40 m ** possibility of increase up to 20 t *** possibility of increase up to 40 t **** possibility of increase up to 15.3 m











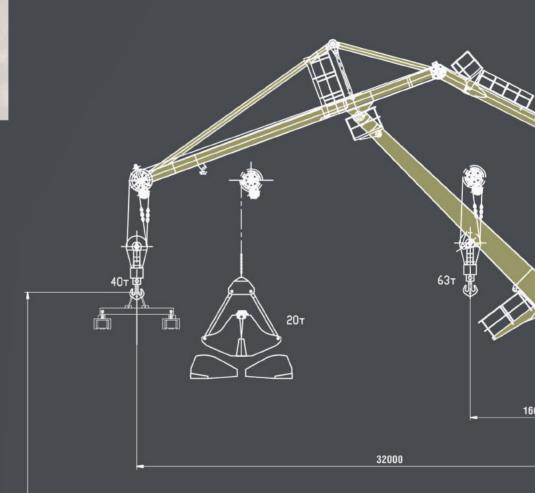








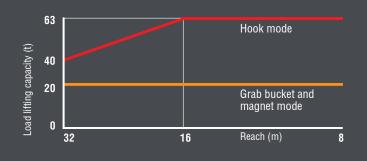




27000

Boom Reach* Minimum (m) Maximum (m)	8 32	Lifting Height (m) grab bucket hook	29 32
Load Lifting Capacity Grab bucket mode (t)** boom reach 32–8 m Hook mode (t)***	20	Lowering Depth (m) grab bucket hook Superstructure tail radius (m)	23 20 7,5
boom reach 32–16 m boom reach 16–8 m	40-63 63	Operating Speeds: Lifting/lowering (m/min) Turning (rpm) Jibbing (m/min) Traveling (m/min)	64 1,4-1,7 60 20
Crane Gauge (m)****	10,5		
Maximum load per wheel $\left(t\right)$ Crane Weight $\left(t\right)$	23 370	Crane base (m) Crane operation mode according to ISO 4301/1	10,5 A8

* possibility of increase up to 55 m ** possibility of increase up to 50 t *** possibility of increase up to 200 t **** possibility of increase up to 15.3 m







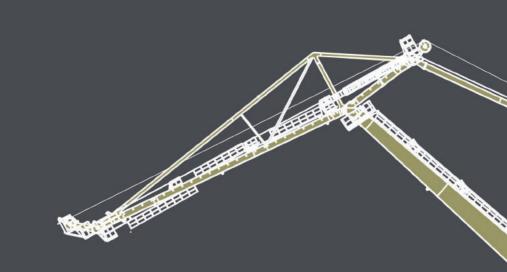


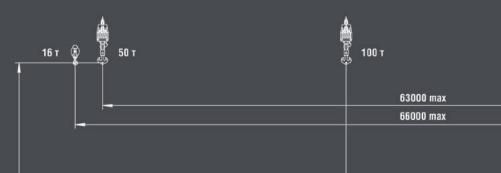


Electric Transshipment Gantry Crane









TECHNICAL SPECIFICATIONS:

50000

Boom Reach*		Crane Weight (t)	1250
Main hoist minimum (m) maximum (m)	20 63	Lifting Height (m) Main hoist (m)	50
Auxiliary hoist***		Auxiliary hoist (m)	50
minimum (m)	21		
maximum (m)	66	Lowering Depth (m)	
		Main hoist (m)	10
Load Lifting Capacity		Auxiliary hoist (m)	10
Main hoist (t)**			
63 – 45 m	50-100		
45 – 20 m	100	Crane Operating Speeds:	
Auxiliary hoist (t) 66 – 21 m	16	Main hoist (m/min) Auxiliary hoist (m/min) Turning (rpm)	6-10 24 0,3-0,45
Crane Gauge (m)****	10-16	Jibbing (m/min) Traveling (m/min)	0,3-0,43 16 32
Crane Wheelbase (m)	10,5		
		Crane operation mode as per	
Maximum load per wheel (t)	320	ISO 4301/1	A6

 * possibility of increase up to 100 m ** possibility of increase up to 250 t *** possibility of increase up to 40 t **** possibility of increase up to 25 m









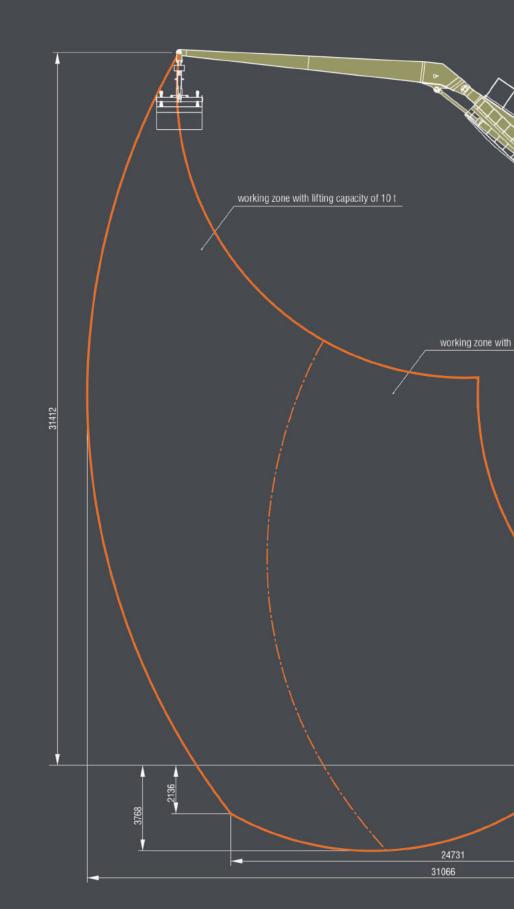










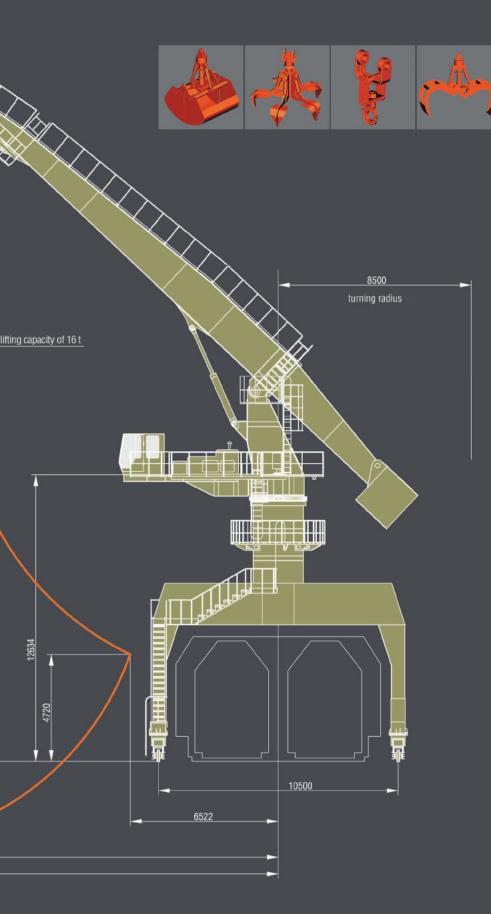


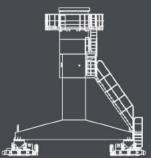
ir

R

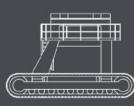
Crane type: electric hydraulic or diesel hydraulic

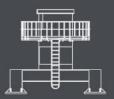
oad lifting capacity (t) the crane operation zone 8.5 to 31 m 12 to 22 m Soom Reach*	10 16	Operation speeds Boom raising/lowering (m/min) Turning (rpm) Traveling (m/min)	0-100 0-2.7 0-30
Maximum (m)	31	Operation temperature	-30 +40
Minimum (m)	8,5	range (°C)	





Versions of gantry









Traveling Bridge Container Handling Crane

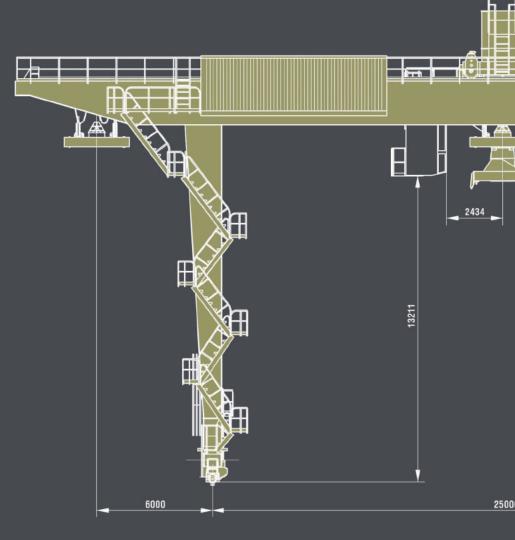










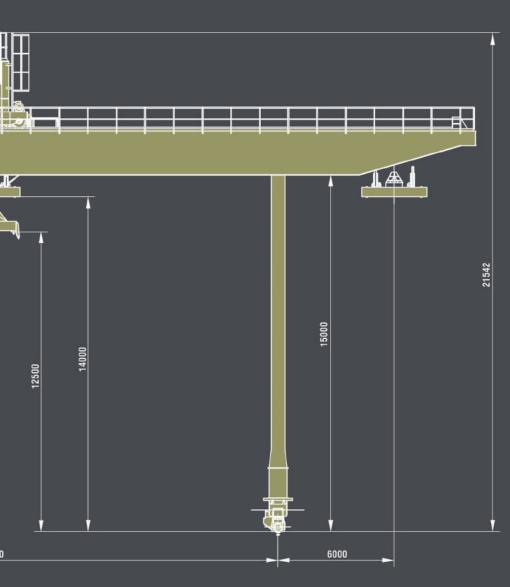


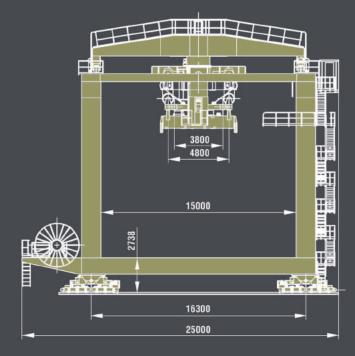
270°

TECHNICAL SPECIFICATIONS:

Load lifting capacity*	40	Spreader turning angle	270
Under the spreader (t) Under the pulley frame	43 50	Crane operation speeds	
Crane gauge (m)**	25	Maximum spreader rotation frequency (rpm)	1
Crane wheelbase (m)	16,3	Maximum load lifting/lowering speed (m/min)	25
Trolley gauge (m)	15,6	Trolley traveling speed (m/min)	80
Trolley wheelbase (m)	2,52	Crane traveling speed (m/min)	70
Distance between gantry legs in the load passage zone (m)	15,5	Crane operation mode category as per ISO 4301/1 during transshipment of:	
Right and left consoles reach $(m)^{\star\star\star}$	6	Containers, gross weight 30.5 t Containers, gross weight 43 t	A8 A5
Maximum load per wheel (t)	22,5	Breakbulk cargo, gross weight up to 50 t	

 * possibility of increase up to 50 t $\,$ $\,^{**}$ possibility of increase up to 52 m *** possibility of increase up to 16 m

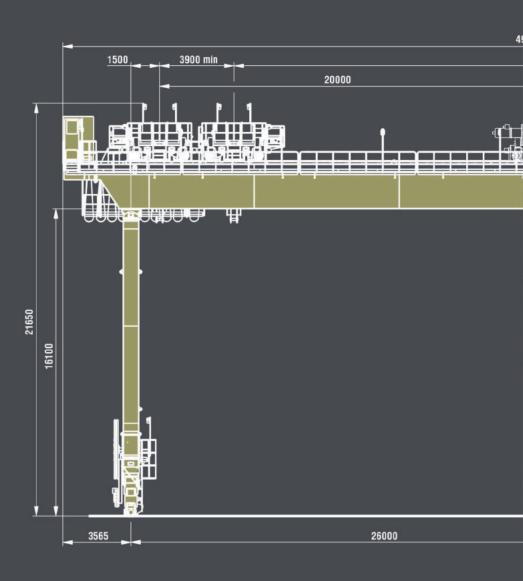






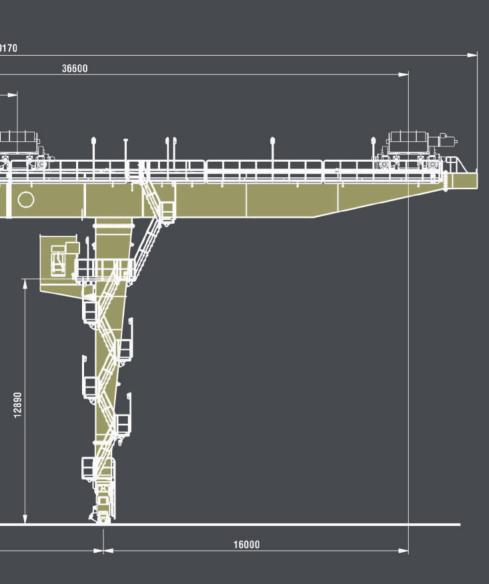


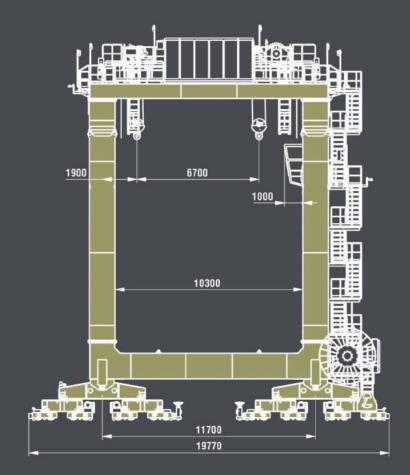
1.1 **h**IIIII 1.1



TECHNICAL SPECIFICATIONS:

Load lifting capacity* (t) During axial spreaders operation		Lifting height (m)***	15
inside the gantry	150	Maximum load lifting/lowering speed (m/min)	4
During small spreaders operation on a console	45	Idle lifting/lowering speed (m/min)	6
Crane gauge (m)** Crane wheelbase (m)	26 11,7	Trolley traveling speed (m/min)	15
Trolley gauge (m)	10,9	Crane traveling	
Trolley wheelbase (m)	2,52	speed (m/min)	20
Distance between gantry legs in the load passage zone	10.3	Crane operation mode according ISO 4301/1:	A5 (U4, Q3)
Right console reach (m)	16	Climatic category as per GOST 15150-69	U1
()			







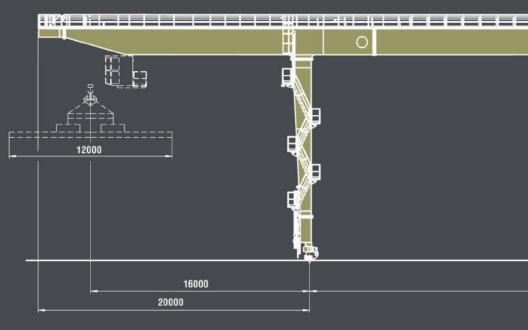












Load lifting capacity $(t)^{\star}$		Maximum
Main hoist Auxiliary hoist	50 12,5	load per wheel, (t)
		Crane operation speeds:
Crane gauge, (m)**	48	
		Main hoist, (m/min)
Crane wheelbase , (m)	14,2	Auxiliary hoist, (m/min) Trolley
Trolley gauge, (m)	14,2	traveling speed, (m/min)
		Crane
Trolley wheelbase (m)	4,5	traveling speed, (m/min)
Distance between gantry legs		Hook rotation frequency, (rpm)
in the load passage zone	13	
Right console reach, (m)***	16	Crane operation mode according ISO 4301/1:

* possibility of increase up to 200 t *** possibility of increase up to 32 m

** possibility of increase up to 80 m

26

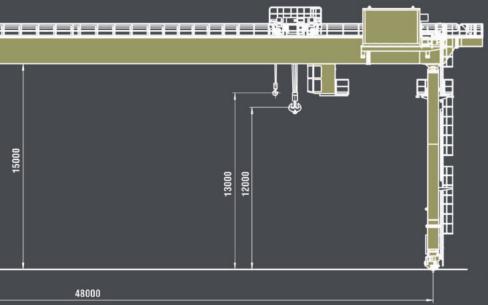
20 20

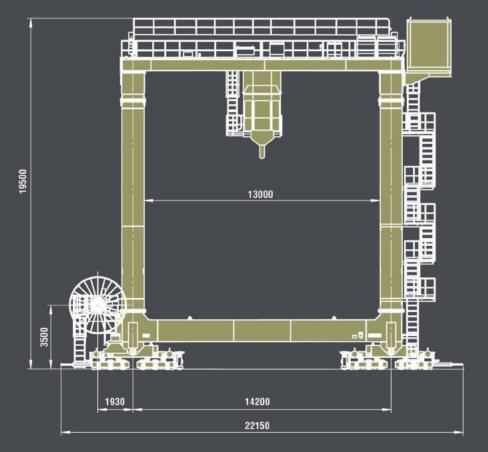
40

40

A7





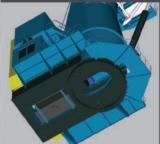




Mobile Harbor Crane



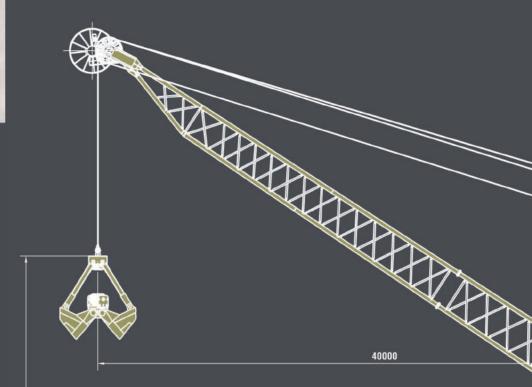










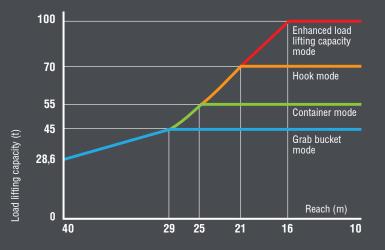


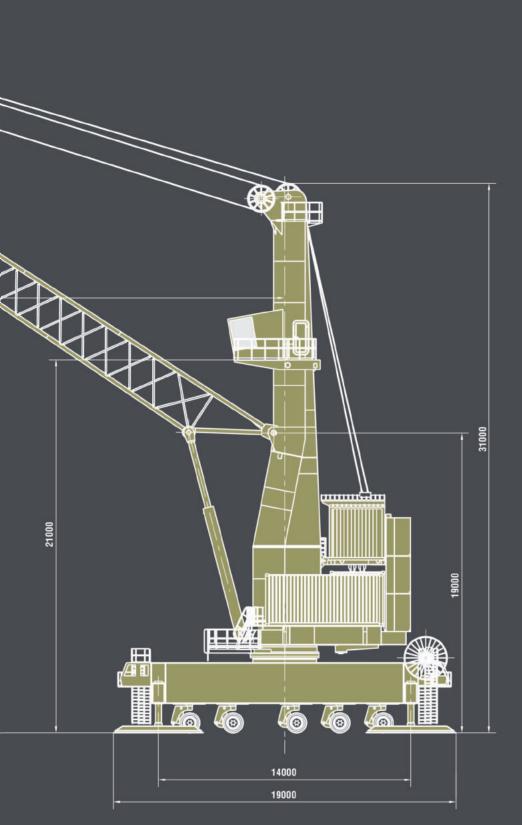
TECHNICAL SPECIFICATIONS:

32000

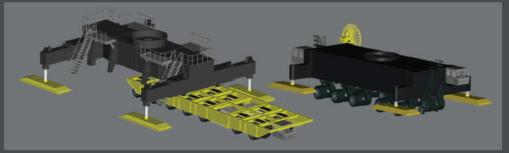
Boom Reach Minimum (m) Maximum (m)	10 40	Lifting Height (m) grab bucket hook	max. 37 max. 42
Load Lifting Capacity Grab bucket mode (t) boom reach 10 – 29 m boom reach 29 – 40 m	45 45 - 28,6	Lowering Depth (m) grab bucket hook	15 15
Container mode, (t) boom reach 10 – 25 m boom reach 25 – 40 m Hook mode (t) boom reach 10 – 21 m	55 55 - 28,6 70	Superstructure tail radius (m) Operating Speeds: Lifting/lowering (m/min) Turning (rpm)	7,0 10 - 80 max. 1.6
boom reach 16 – 8 m Enhanced weight lifting capacity hook mode (t) boom reach 10 – 16 m	70 - 28,6 100	Jibbing (m/min) Traveling (m/min) Crane operation mode according IS	60 max. 90
boom reach 16 – 40 m Crane wheelbase (m) longitudinal (m)	100 - 28,6 14	Maximum soil load (kgf/cm)	8,7
transverse (m)	13	Crane weight (t)	3330

Lifting capacity vs. outreach of the boom





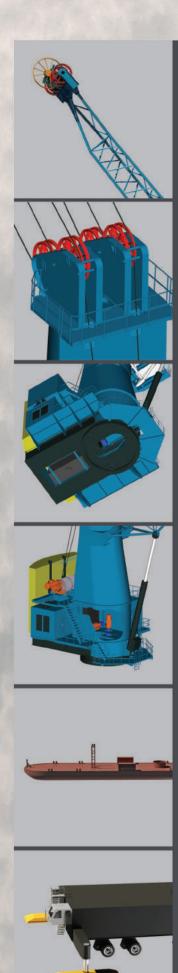
Chassis Versions





«PERESVET 50-130»

Mobile Harbor Crane



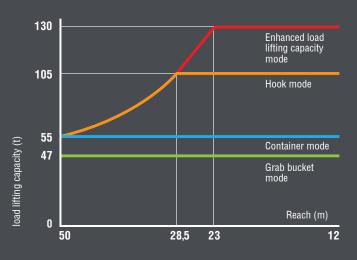


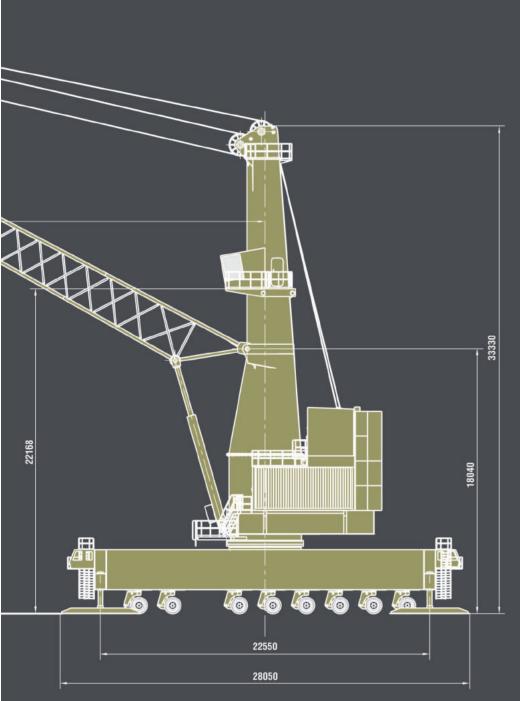
TECHNICAL SPECIFICATIONS:

35000

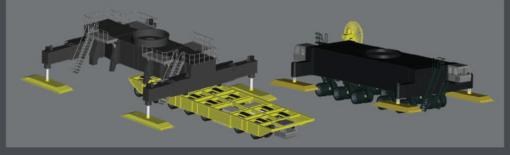
Boom Reach		
Minimum (m)	12	
Maximum (m)	50	
Load Lifting Capacity		
Grab bucket mode (t)		
boom reach 12 – 50 m	47.5	
Container mode, (t)		
boom reach $10 - 25$ m	55	
Hook mode (t)		
boom reach $12 - 28.5$ m	105	
boom reach 28.5 – 50 m	105 - 55	
Enhanced weight lifting capacity		
hook mode (t)		
boom reach 12 – 23 m	130	
boom reach 16 – 40 m	130 - 55	I
Crane wheelbase (m)		
longitudinal (m)	22,55	_
transverse (m)	13.5	
	10,0	

12	grab bucket hook	30 35
50	Lowering Depth (m) grab bucket hook	20 15
7,5	Superstructure tail radius (m)	8,0
55	Operating Speeds:	
05 55 30	Lifting/lowering (m/min) Turning (rpm) Jibbing (m/min) Traveling (m/min)	10 - 80 max. 1.5 60 max. 80
55	Crane operation mode according ISO 4301/1	A7
55	Maximum soil load (kgf/cm)	8,7
3,5	Crane weight (t)	500





Chassis Versions





Gripping devices



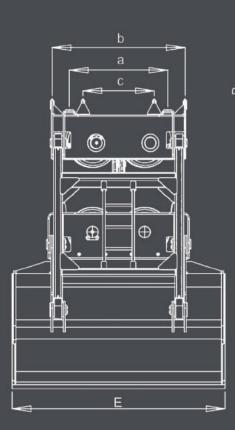


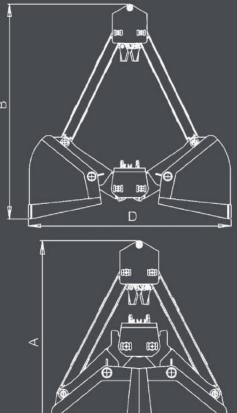












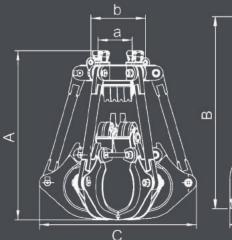
C

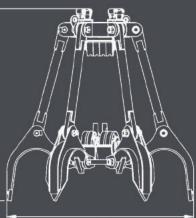
FOUR ROPE TWO CLAMSHELL GRAB

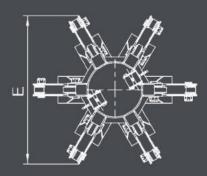
Crane lifting capacity	t	16	16	16	16	16	16	16	16	18
Grab volume	m ³	15,0	9,0	5,8	4,7	3,5	345,25	14,0	9,0	10,0
Apparent density of material	t/m ³	0,55	1	1,6	2,1	3,0	1,75ч3	0,61	0,9	1
Dimension [A]	mm	3875	3640	3255	3215	2990	3298	3875	3650	3802
Dimension [B]	mm	4405	4540	3715	3615	3410	3768	4406	4600	4760
Dimension [C]	mm	3205	3550	2705	2415	2250	2568, 2608	3205	3550	3718
Dimension [D]	mm	4680	4250	3505	3380	2825	3248	4680	4250	4453
Dimension [E]	mm	3580	2350	2390	2370	2390	2330	3340	2350	2350
Dimension [a]	mm	1106	1106	1106	1106	1106	1106	1106	1106	1106
Dimension [b]	mm	1492	1492	1492	1492	1492	1492	1492	1492	1492
Dimension [c]	mm	800	800	800	800	800	800	800	800	800
Diameter of polyspast rope	mm	27,0	27,0	27,0	27,0	27,0	27,0	27,0	27,0	28
Diameter of polyspast sheaves	mm	480	480	480	480	480	480	480	480	480

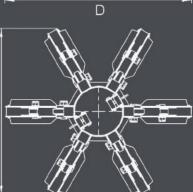
FOUR ROPE TWO CLAMSHELL GRAB

Crane lifting capacity	t	10	10	10	10	20	25	32	32
Grab volume	m ³	5,8	4,5	3,0	2,3	12,0	5,5	20,0	10,0
Apparent density of material	t/m ³	1,0	1,25	2,0	2,6	1	3	0,99	2,2
Dimension [A]	mm	3135	3125	2655	2660	3985	4019	4523	4581
Dimension [B]	mm	3680	3520	3120	3120	4961	4465	5874	5092
Dimension [C]	mm	2700	2410	2190	2190	3940	2734	4620	3299
Dimension [D]	mm	3510	3165	2590	2590	4718	3504	4572	4384
Dimension [E]	mm	2330	2382	2350	1900	2350	2350	3700	2500
Dimension [a]	mm	940	940	940	940	1106	680	760	760
Dimension [b]	mm	1324	1324	1324	1324	1496	1460	1460	1460
Dimension [c]	mm	654	654	654	654	800	-	-	-
Diameter of polyspast rope	mm	23,5	23,5	23,5	23,5	28	33,5	33,5	33,5
Diameter of polyspast sheaves	mm	410	410	410	410	480	630	710	710









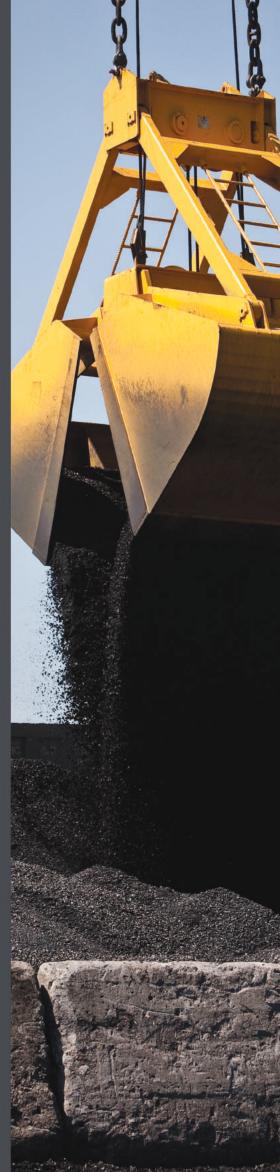
FOUR ROPE SIX CLAMSHELL GRAB

Crane lifting capacity	t	10	10	16	16	16
Grab volume	m ³	1,5	1,5	2,5	3,5	3,7
Apparent density of material	t/m ³	2,0	3,2	3,2	1,5	2,0
Variant	open / close	open	close	close	close	open
Dead weight	t	4,7	4,95	6,5	8,1	6,8
Dimension [A]	mm	2465	2465	2855	3260	3030
Dimension [B]	mm	3025	3025	3195	3920	3540
Dimension [C]	mm	2430	2430	2825	3100	3160
Dimension [D]	mm	3085	3085	4230	4425	4515
Dimension [E]	mm	2195	2195	2535	2775	2830
Dimension [F]	mm	2765	2765	3670	4020	3910
Dimension [a]	mm	610	610	674	674	674
Dimension [b]	mm	975	975	975	975	975
Multiplicity of polyspast	n	5	5	5	5	5
Diameter of polyspast rope	mm	23,5	23,5	27,0	27,0	27,0
Diameter of polyspast sheaves	mm	410	410	480	480	480

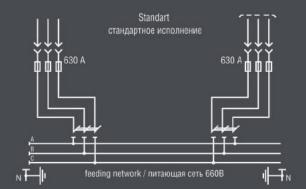


FOUR ROPE THREE CLAMSHELL TIMBER GRAB

Nomination, drawing					
Crane lifting capacity	t	10			
Clearance area of normally closed grab	m²	2,0			
Clearance area of fully closed grab	m²	0,3			
Dead weight	t	3,3			
Cargo weight (max.)	t	6,7			
Length of cargo (max.)	m	6,0			
Multiplicity of polyspast	pcs	4			
Number of polyspasts	pcs	2			
Diameter of polyspast rope	mm	23,5			







COLU MN ELECTRI CAL FOR CRANE

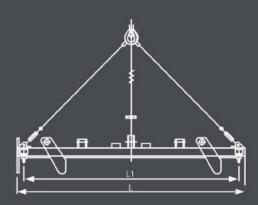
Columns electrical standard for crane are assigned to connect electrical mobile lifting-transport machines to the underground three-phase electrical current with a frequency of 50 Hz with a linear voltage 660V and 500V in temperate climate

EPP-2-660/630						
Linear voltage to	V	660,0				
Rated current	А	630,0				
Length	mm	1800,0				
Width	mm	780,0				
Height	mm	590,0				
Weight	kg	250,0				
EPP-2-500/1000						
Linear voltage to	V	500,0				
Rated current	А	1000,0				
Length	mm	1800,0				
Width	mm	780,0				
Height	mm	590,0				
Weight	kg	270,0				

COLUMN ELECTRICAL FOR VESSEL

Column electrical for vessel is to connect the ship`s electrical equipment to mains on shore						
EPS-400						
		Dime	nsio	ns		
Length					mm	780,0
Width					mm	780,0
Height					mm	570,0
Weight					kg	140,0
Height above silk					mm	205,0
Heating conter Local				Coverage		
Frequency	Hz	50,0		Frequency	Hz	50,0
Rated voltage	V	12,0		Nominal lamp vol.	V	12,0
Power	W	60,0		Power	W	250,0
The power of						
Frequency				Hz	50	
Rated voltage between phases				V	400	
Rated current findings, no more than				А	400	
Rater current of transformers, no more than				А	400/5	
Simultaneously ensuring energy supply vessels, no more than					pcs.	1
Simultaneously connected cables (coastal)				pcs.	1–2	
Simultaneously connected cables (ship)				pcs.	1–2	
(=====;				240		
Nominal cross-section of each of the main core (cable vessel)				mm ²	35–120	
The diametr of vessel cables on the outside cover mm 32–56				32–56		





SPREADER FOR CONTAINERS

Spreader is designed for handling of containers of type 1C and 1A with the help of a crane without support workers. Spreader works in the range of temperatures of 30-400C. Spreader can be used on transshipment sites at sea and river ports and wharves, railway stations etc.

ZKL - 1A						
Lifting capacity	t	35				
The distance between the axles of bayonet locks (longitudinal) L1	mm	11985				
The distance between the axles of bayonet locks (transverse)	mm	2259				
Working height	mm	7120				
Weight	kg	3880				
L	mm	12198				
ZKL - 1C						
Lifting capacity	t	30				
The distance between the axles of bayonet locks (longitudinal) L1	mm	5853				
The distance between the axles of bayonet locks (transverse)	mm	2259				
Working height	mm	4100				
Weight	kg	2375				
L	mm	6052				





JSC <RIKON> 68 b Tvaika Str. Riga, LV-1034, Latvia Tel. +371 67393156 Fax +371 67391647 E-mail: rikon@rikon.lv www.rikon.lv