



KRNOSTROENE-ENGINEERING

Investment Opportunity in the
Bulgarian Sector of Industrial Lifting Equipment

Agenda



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Executive Summary

This summary paper presents an acquisition opportunity in the sector of industrial lifting equipment in Bulgaria - Kranostroene-Engineering.

- Kranostroene-Engineering (the “Company”) is an engineering company, specialized in concept design and manufacturing of high performance, non standard or working in extremely hazardous conditions industrial lifting equipment. The company has an over 50 years of experience with a track record of successful project in Bulgaria and 9 countries worldwide.
- The owner of the Company is evaluating the options for attracting a strategic reputable investor through a potential divestment of up to 100% of the share capital of the Company.
- Circle Capital is acting as an exclusive Corporate Finance and M&A adviser to the owner of the Company in the contemplated transaction and will structure and coordinate the transaction process.
- It is envisaged that the process of the potential transaction will involve the following distinct phases:
 - Interested parties are invited to submit a detailed preliminary unbinding proposal for the Company (the “Preliminary Proposal”) on the basis of this paper.
 - If the Preliminary Proposals are judged sufficiently attractive, shortlisted potential bidders will be granted the opportunity to conduct detailed due diligence and to submit binding offers.

Strong start in 2020

Despite the COVID 19 crisis, the company is performing successfully its operations as planned, with almost no canceled orders and concluding new contracts with clients (see slides 16-19).

For further information please contact:

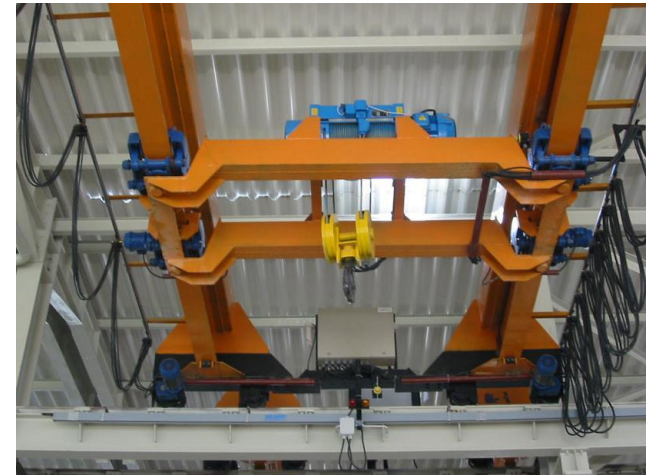
Deian Stoyanov
Managing Partner
Circle Capital

Mob.: +359 888 080 800
d.stoyanov@circlecapital.bg

Circle Capital is an advisory house providing full scope of services in the field of merges & acquisitions, equity capital markets, business / strategic advisory, valuations and opinions, debt Instruments and cross-border negotiations with focus on Bulgaria and southeastern Europe.

Key Investment Considerations

- Kranostroene-Engineering is the only engineering company on the Bulgarian market specialized in all activities related to cranes and lifting equipment including:
 - research,
 - concept design and manufacturing,
 - delivery, installation and commissioning,
 - service and trading,
 - testing by a licensed Type C control unit for legalization.
- Kranostroene-Engineering's main specialization and strength is the concept design and development of non-standard cranes, which are tailored to the individual needs of the customer.
- The Company has the necessary highly skilled and qualified staff, state of the art manufacturing technologies and organizational means to integrate the required specific variations into its production systems.
- The Company is respected and best-known for the original engineering concept designs developed by its engineers, the quality of the products, which meet the demands of high reliability, safety, ergonomically designed control units, energy efficiency, long life and trouble-free operation.
- The Company collaborates successfully with research teams from the technical universities and is attracting talented graduates who consider working at the Company as an excellent career opportunity.
- The implementation of 3D computer modeling for crane design using CAD system and other modern software solutions position the Company to meet the current requirements of the sector.



Agenda



Kranostroene-Engineering - Company Overview

The Company in Brief

Kranostroene-Engineering is a Bulgarian company operating in the sector of industrial lifting equipment.

- The Company's activity includes research, concept design, manufacturing, servicing and maintenance as well as testing and examining for the purposes of validation of cranes and other lifting equipment.
- The Company provides also additional repairs and installation works under reconstruction contracts as well as warranty and post warranty maintenance of cranes (as of end-2019, their number exceeds 250, of which over 140 cranes are on the site of the Kozloduy Nuclear Power Plant.
- The Company has over 50-years of experience and track record of successfully executed projects in Bulgaria and 9 countries worldwide.
- The Company is cooperating on the Bulgarian market and abroad with major clients from the sectors of energy, machine building, chemistry and others.
- Kranostroene-Engineering is headquartered in Sofia and operates through its main production site in Sofia, a branch in the town of Kozloduy and an office in the town of Gabrovo.
- The total number of personnel amounts to 59 employees (as of 31.12.2019) including experienced engineers and technicians.

Ownership structure

- Kranostroene-Engineering is incorporated as a sole ownership limited liability company.
- Sole owner of the Company is the joint stock company Kranostroene-Engineering-97, with 16 Bulgarian individuals being its shareholders.

The Company is an authorized distributor of:

Wabtec Corporation (AKAPP-STEMMANN), The Netherlands – multiconductor power supply

Wabtec Corporation (STEMMANN-TECHNIK), Germany – cable reels

ITOWA Radio Remote Control Systems, Spain – radio remote control systems for cranes

GALVI NEWCOMEN, Italy – brake shoes, disc brakes, accessories and rotating components for shoe brakes and disc brakes, thrusters, emergency calipers and buffers

STAHL CRANE SYSTEMS, Germany – explosion-proof cranes and components

TELECRANE, Taiwan – radio control systems for cranes

WISTRO Elektro-Mechanik, Germany – industrial fans

SENSY, Belgium – weighing transducers

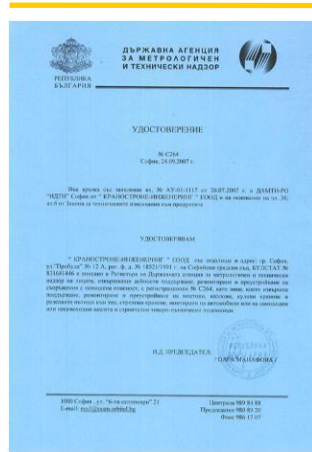
COMEGE, France – gantry cranes, jib cranes, spreaders and other lifting equipment

WALMAG MAGNETICS, Czech Republic – magnets

Selected Certificates



Certificate No BSA reg. no. 202 OKS of 31.07.2018 issued by the Executive Agency “Bulgarian Accreditation Service” for accreditation of Control Unit of type C “Cranes and Construction Equipment” of Kranostroene-Engineering according to **BDS EN ISO/IEC 17020:2012**



Certificate No S 264 of 24.09.2007 issued by the **State Agency for Metrological and Technical Supervision** for entry as an entity which performs maintenance, repair and reconstruction of overhead, gantry, tower cranes and track roads to them, jib cranes, mounted on cars or on self-propelled or non-self-propelled chassis and construction hoist lifts



Certificate No S 899 of 24.01.2019 issued by the **State Agency for Metrological and Technical Supervision** for entry as an entity which performs maintenance, repair and reconstruction of :

- Suspended man baskets;
- Mobile work platforms



Certificate QMS CERT № **141410/2775** of 14.02.2017 for a registered quality management system in accordance with **EN ISO 9001: 2015**, applicable to the design, development, production, delivery and after-sales service of cranes and lifting equipment

Other certificates:

Official distributor of STAHL CraneSystems with Certificate No 18051 of 01.05.2018 authorized to negotiate and to deliver products to Russia, Bulgaria, Northern Macedonia, Serbia and Kosovo

Certificate for membership for 2019 to the **Bulgarian Atomic Forum**

Diploma from the “Metalwork. Welding — Ural’ exhibition

Certificate of conformity **C-BG.MB11.V.00002** with No **0527702** – of a certification body for lifting equipment

Сертификат за съответствие **C-BG.MB11.V.00002** with No **076966** on voluntary application of national standards

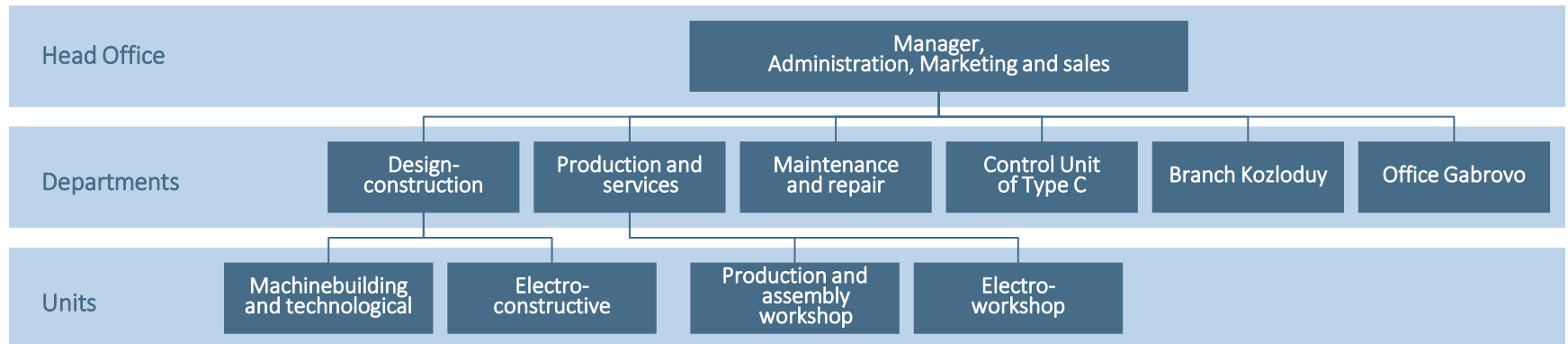
Key Milestones

- Kranostroene-Engineering is one of the legal successors of the Crane Manufacturing State Industrial Association, which has been established in **1964** as a state-owned structural unit for development and implementation in the crane manufacturing sector.
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- In **1989**, the state-owned company Kranostroene – Sofia has been established. Its division, the Institute on Crane Manufacturing – Sofia, has been responsible for the production of technical documentation and experimental samples of 80% of the cranes manufactured in Bulgaria.
-
- The company Kranostroene – Sofia has been dissolved in **1991** and the state-owned company Kranostroene-Engineering-Sofia has been established as a legal successor of the Institute on Crane Manufacturing – Sofia. Later in the same year, Kranostroene-Engineering-Sofia was transformed into a limited liability company Kranostroene-Engineering, solely owned by the state. Kranostroene-Engineering assumed the rights and duties of the predecessor entity.
-
- In **1997**, the company has been privatized, and the capital of Kranostroene-Engineering was acquired by the joint stock company Kranostroene Engineering - 97.
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- Following the privatization, Kranostroene Engineering has evolved into an engineering company providing turn key solutions including cranes for nuclear power plants, for the metallurgy and other sectors, non-standard cranes and products.

Corporate Structure

- The operative management of Kranostroene-Engineering is being conducted by the head office in Sofia.
- The manufacturing of original parts, metal structures, key and final assembly are being carried out at the production site of Kranostroene-Engineering in Sofia.
- The corporate structure includes a Control Unit of Type C “Cranes And Construction Equipment”, authorized according to BDS EN ISO/IEC 17020:2012 by the Executive Agency “Bulgarian Accreditation Service”. This unit is authorized to perform control on lifting equipment; load attaching devices, below-the-hook lifting devices; general purpose electric hoists; hand load-lifting pulleys; mobile work platforms; crane tracks; electrical systems and equipment up to 1000 V.
- The Kozloduy branch’s main activity is maintenance under long-term contracts of the cranes of the Kozloduy Nuclear Power Plant.
- The office in Gabrovo has been established for the purposes of carrying out commercial activity and manufacturing of telfers.

Organizational structure



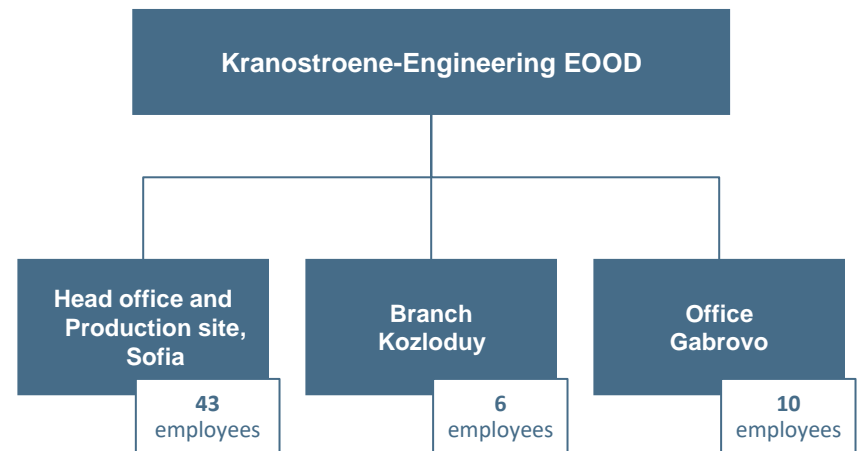
Management and Personnel Structure

The total number of personnel amounts to 59 employees (as of 31.12.2019)

Personnel breakdown by function

Function	Employees
Management personnel	10
Analytical experts	16
Associate professionals	4
Administrative personnel	5
Qualified production workers	18
Low-skilled workers	6
TOTAL	59

Personnel breakdown by departments



Products and Services

Products

- Kranostroene-Engineering is specialized in the production of general- and special-purpose cranes, regardless of their capacity and span, as well as in the design and manufacture of crane components, which allows to complete cranes in many modifications and with different parameters, tailored to the individual needs of the customer (special cranes or non-standard cranes).
- The main product range of the company covers the design and manufacture of:
 - Single-girder and double-girder, supported and suspension overhead travelling cranes;
 - Single-girder and double-girder gantry cranes.
 - All the cranes mentioned above can be equipped with hoists or classic trolleys;
 - Jib cranes – Pillar jib cranes and wall jib cranes or such mounted to the ceiling;
 - Crane manipulators (stacker cranes) with varying degrees of automation;
 - Explosion-proof and fire-proof cranes;
 - Various movable mechanisms (roofs etc.).
- At client's request the Company prepares concept designs and manufactures cranes for specific operation conditions for metallurgy, energy sector, explosive and chemical aggressive environments.
- The Company performs modernization of the crane mechanisms in order to ensure low and stable operating speeds and smoothness of the starting and braking processes, as well as reconstruction and repair of existing cranes.
- For some clients the Company delivers lifting equipment, which restores part of the used energy back into the network.
- The company manufactures also small metal structures as well as metal components according to specific designs and client's documentation.

Services

- The Company provides subscription maintenance of all types of load-lifting cranes, crane tracks, electric hoists, mobile working platforms, etc., across the country.
- The service includes:
 - Monthly inspection and check up of the equipment by qualified experts;
 - Yearly tests and control of the equipment by the Control Unit of Type C;
 - Failures removing in case of break down;
 - Emergency repairs.

Selected Examples of Executed Projects

The Company's success is based on its highly skilled and qualified staff combined with state of the art manufacturing technologies allowing the implementation of large strategic projects to the amount of hundreds of millions of dollars across the world like:

Energy sector / nuclear power plants

- Modernization of the fifth and sixth unit of **NPP Kozloduy**, Bulgaria;
- Manufacturing of 160/20t cranes at **NPP Kozloduy**, Bulgaria;
- **Leningrad NPP**, St. Petersburg, Russia, project for delivery and installation of double girder overhead cranes;
- **Kudankulam NPP**, India – manufacturing of a crane, designed and built to withstand wind speed up to 200 km/h.;
- Modernization of **Mosenergo**, Moscow, Russia (supplier of electricity and heat for the Moscow city)
- Repair of cranes in **TPP Maritsa East 2**, Bulgaria

Aviation and aircraft maintenance

- Concept design, construction and installation of cranes at the of a state-of-the-art aircraft overhauls base of **Lufthansa Technik**, Sofia, Bulgaria;
- **Terem Letets**, Sofia, Bulgaria (company conducting overhauls and repairs of Mi helicopters, their units and equipment; repairs of piston aircraft engines, units and equipment for the civil aviation etc.);
- Delivery of cranes and provision of subscription services for the **Bulgarian Airforce**

Explosion-proof cranes

- For clients in Far North (Russia) – oil and gas plants, as well as in Bulgaria – **Glavbolgarstroy** and **Lukoil Neftochim**, Burgas

Metallurgy and trade in metals

- **Revda non-ferrous metal processing works**, Russia;
- Construction of **KSP Steel**, Pavlodar, Kazakhstan (producer of steel seamless pipes for oil and gas sector);
- Modernization of the metallurgical plant **Abu Zaabal Engineering Industries**, Egypt;
- Construction of a plant for production of pipes, **Hus**, Bulgaria
- **Metal Group Elite**, Sofia, Bulgaria (metal and metal ware trading company with own warehouse and production facilities)

Other sectors

- Modernization of the **Railway Repair Plant OJD**, St. Petersburg, Russia
- **Euromarket Group**, Sofia, Bulgaria (a leading trade-engineering company for industrial and construction equipment in Bulgaria)
- **Keramika Burgas**, Burgas, Bulgaria (a building-materials manufacturer)
- **Cordeel Bulgaria**, Sofia, Bulgaria (a general contractor of industrial, logistics, commercial and office buildings, as well as in the construction of refineries in Bulgaria)
- **Coats Bulgaria**, Sofia, Bulgaria (a subsidiary of the global manufacturer and distributor of industrial threads and zips and needlecraft)
- **Agropolychim**, Devnya, Bulgaria (a leading manufacturer of nitrogen and phosphorus fertilizers)

Production Site and Equipment

- The main production site is located in the city of Sofia, in the northwestern industrial zone of the city, and includes:
 - A plot with an area of approx. 10 000 sqm, owned by the Company;
 - A production workshop building, a 3-floor administrative building and a warehouse owned by the Company. The total built-up area of the three buildings is approx. 3 500 sqm.
- There is an opportunity for enlargement of the production site thorough acquisition of an adjacent plot.
- The company owns also an apartment of 77.6 sqm in the town of Kozlodui (where the company's branch office is housed).



Machinery and equipment

- Lathes and mills;
- Drilling machines (upright, magnetic, radial);
- Slotting machine;
- Hydraulic press
- Welding portal machine, stroke length 30 m;
- Welding machines CO2; invertor; portable;
- Guillotine shears – up to 16mm, up to 6mm;
- Gas cutting machine.

Cranes:

- overhead – capacity: 5t (2pcs);1t (1pc);
- gantry - capacity: 8t; 5t; 2t;
- jib - capacity: 5t (2pcs)

Vehicles:

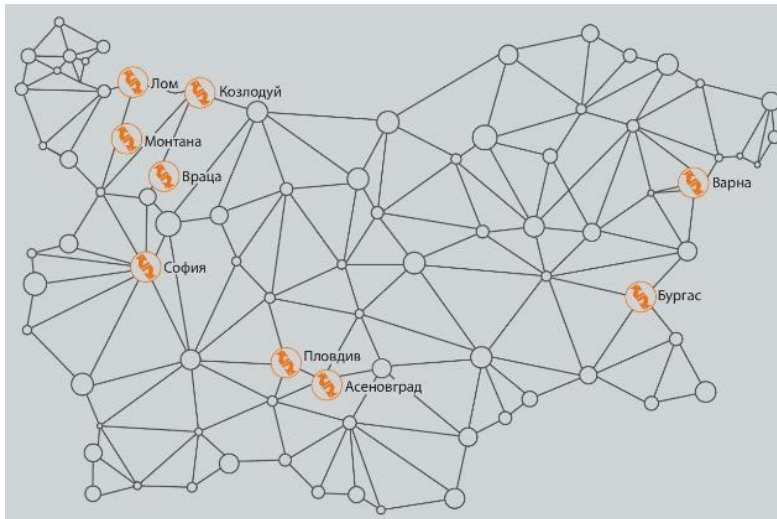
- 1 truck; 1 buss; 1 van; 7 service cars, 2 MPVs;
- 4 forklifts

Other – a truck mounted platform MAN, 32m

Key Markets and Clients (1/2)

Key clients on the domestic market

- Kozloduy Nuclear Power Plant
- Maritsa East 2 Thermal Power Plant
- Glavbolgarstroy International (a leading construction company)
- Aurubis Bulgaria (a copper production plant subsidiary of Aurubis Group)
- Major clients of subscription maintenance of cranes: Lufthansa Technik, Montana Hydraulics, ZSK Stomanobeton, Castello Precast, etc.



Key clients in Bulgaria (2019)	Turnover* ('000 EUR)
Client 1	232
Client 2	217
Client 3	192
Client 4	123
Client 5	628
Client 6	115
Client 7	139
Client 8	75
Client 9	69

*Included amounts on already issued invoices under contract.
Source: Company data

The main competitor of the Company on the domestic market is Podemcrane (manufacturer of cranes and supplier of crane components and services in Bulgaria and the region).

Key Markets and Clients (2/2)

Presence abroad

Over the years, the Company has successfully cooperated with clients in more than 20 countries across the world – Russia (incl. Sahalin Island), Egypt, Kazakhstan, India, Cuba, Jordan, Syria, etc.

- Before year 2010, 80-90% of the production was exclusively destined to the markets in Russia, Kazakhstan and Ukraine.
- Due to the global financial and political crisis, which began a decade ago, the Russian, Ukrainian and Kazakhstan's markets have been closed and in 2014 the Company's deliveries to these markets have ceased completely or partially.
- Top international markets of Kranostroene Engineering over the last three years were:
 - **Egypt** - the Company implemented a contract for manufacturing of a bridge crane with 45 tons capacity
 - **Russia**
 - **Serbia**
 - **Georgia**



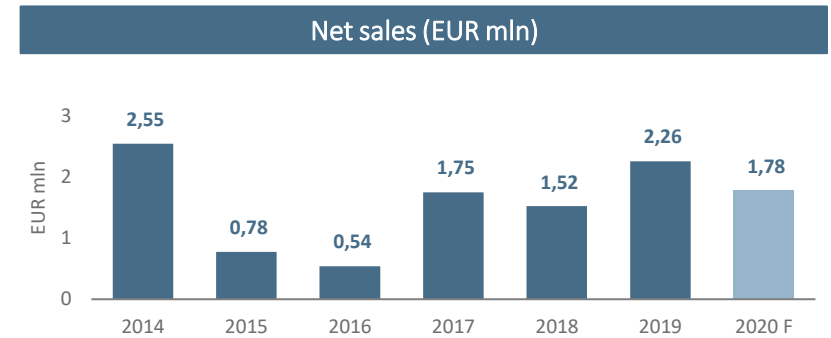
	Clients abroad (2019)	Turnover ('000 EUR)
Client 1		141
Client 2		74
Client 3		32
Client 4		16
Client 5		3
Client 6		2

*Included amounts on already issued invoices under contract.
Source: Company data

The international competitors of Kranostroene Engineering include companies from Germany and Spain active in the design of non-standard cranes and in the field of reconstructions.

Sales

- The closure in the previous years of some key foreign markets for the Company (Russia, Ukraine, Kazakhstan) resulted in a decrease in the sales revenues.
- A significant increase of the net sales was achieved in 2017 (224.81% compared to the previous year). It was mainly attributable to the completed construction of two cranes with a 160 ton capacity for the Kozloduy Nuclear Power Plant and to the implementation of several reconstructions on the site of the NPP.
- In 2018, the net sales amounted to EUR 1.52 million (down 13.1% from the previous year) and in 2019 they exceeded EUR 2.26 million (up 48.5% y-o-y). The largest share in the sales revenues is formed by the contracts with Kozloduy NPP for maintenance, repair and reconstruction of lifting equipment and for the modernization of bridge cranes.



Successful operations in 2020

- The Company is successful in coping with the challenges of the COVID 19 crisis – currently it is performing its operations as planned, with almost no canceled orders and concluding new contracts with clients.
- As of August 2020, the Company reported net sales of near EUR 1.04 mln* (169.9% compared to the same period in the previous year).
- Considering the portfolio of ongoing projects (see the next slide), the management forecasts that the net sales will reach EUR 1.78 mln by the end of 2020, which is down 21.4% from the previous year, but still exceeding the amounts in 2017 and 2018.

Strategy and Work Pipeline

The Company's strategy envisages:

- To actively participate in the public procurements.
- To rekindle the business relations to the partners in Russia, Ukraine and Kazakhstan.
- To intensify the market research in the field of crane production, reconstruction and modernization.

Ongoing projects, 09-12.2020

Contracting entity	Country	Scope of the contract	Total value of the contract* ('000 EUR)	Completion term
<i>Client 1</i>	Bulgaria	Delivery and replacement of wheels	128	2020
		Service and maintenance of cranes	117	2021
		Project for reconstruction of a hydroelectric power plant	15	2020
<i>Client 2</i>	Bulgaria	Cranes, 6 pcs	123	2020
<i>Client 3</i>	Bulgaria	Repair of overhead cranes 115 t	87	2020
<i>Client 4</i>	Bulgaria	Delivery and replacement of a lifting rope - crane Q=250 t	77	2020
<i>Client 5</i>	Bulgaria	Delivery and installation of a crane and a crane track	70	2020
<i>Client 6</i>	Bulgaria	Design and manufacturing of 2 jib cranes	31	2020

Future projects (expected conclusion of contracts) with projected completion in 1H 2021

Contracting entity	Country	Scope of the contract	Total value of the contract* ('000 EUR)	Completion term
<i>Client 1</i>	Bulgaria	Production, delivery and installation of a grab crane	639	2021
<i>Client 2</i>	Bulgaria	Electric systems of cranes	399	2021
		Balancers design	12	2021
<i>Client 3</i>	Bulgaria	Reconstruction of a grab crane	153	2021
<i>Client 4</i>	Bulgaria	Movable roof drive system	153	2021
<i>Client 5</i>	Bulgaria	Crane trolley	46	2021
<i>Client 6</i>	Bulgaria	Delivery and installation of consoles for cranes	10	2021

*Net of VAT
Source: Company data

Balance Sheet and Income Statement

Balance sheet					
('000 EUR)	2017	2018	2019	8.2020*	2020 F
Intangible assets	2	1	-	-	-
Long-term assets	1 883	1 719	1 527	1 412	1 357
Long-term financial assets	76	76	85	85	86
Deferred taxes	2	2	-	-	-
Total non-current assets	1 962	1 797	1 612	1 498	1 443
Inventory	1 174	1 110	879	957	782
Receivables	188	253	461	571	109
Investments	-	-	-	-	-
Cash and cash equivalents	124	90	38	44	219
Total Current Assets	1 486	1 453	1 378	1 572	1 111
Deferred expenses	21	5	10	-	-
Total Assets	3 470	3 255	3 000	3 070	2 554
Issued capital	3	3	3	3	3
Reserves	67	67	67	67	67
Retained earnings	1 657	1 706	1 760	1 818	1 818
Current profit/loss	49	55	57	35	216
Total Equity	1 776	1 830	1 888	1 923	2 104
Payables to financial institutions	635	590	421	720	319
Advance payments received	44	44	86	186	-
Trade payables	85	80	356	157	82
Payables to group entities	-	-	-	-	-
Other payables	70	94	121	83	49
Total Liabilities	960	807	984	1 147	450
Financing and deferred income	734	617	128	-	-
Total Liabilities and Equity	3 470	3 255	3 000	3 000	2 554

Income Statement					
('000 EUR)	2017	2018	2019	8.2020*	2020 F
Net sales	1 754	1 523	2 262	1 038	1 778
<i>production</i>	-	-	228	547	677
<i>goods</i>	-	-	-	-	-
<i>services</i>	1 754	1 523	2 035	491	1 101
Increase of inventory and work in progress	-	176	55	105	-
Costs of acquisition of assets in econ. manner	-	-	-	-	-
Other revenue	164	148	248	198	212
Total operating income	1 918	1 847	2 566	1 341	1 990
					-
Decrease in inventory and work in progress	-	-	-	-	-
Expenditure on raw materials and hired services	955	1 030	1 607	771	1 027
Salaries and social security	472	441	496	339	496
Depreciation	321	208	224	132	188
Other expenses	84	86	150	47	51
Total operating expenses	1 832	1 766	2 477	1 289	1 761
EBITDA	407	289	313	184	417
Financial revenue /net/	(31)	(19)	(22)	(17)	(13)
Extraordinary costs /net/	-	-	-	-	-
EBT	55	62	66	35	216
Taxes	7	7	9	-	22
Profit/(Loss)	49	55	57	35	194

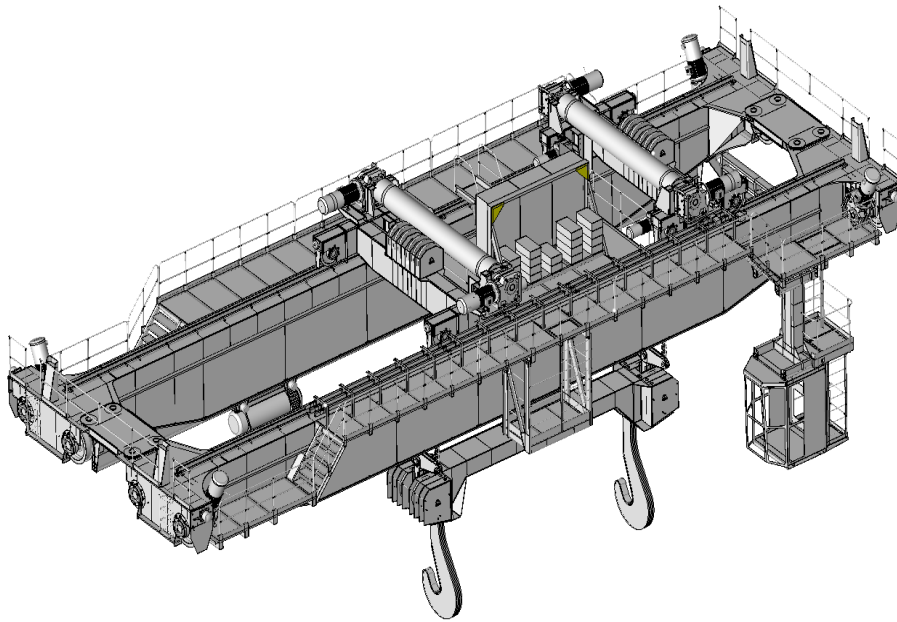
*Unaudited data
Source: FS and Company data

Appendix



Appendix: Selected Examples of the Company's Portfolio

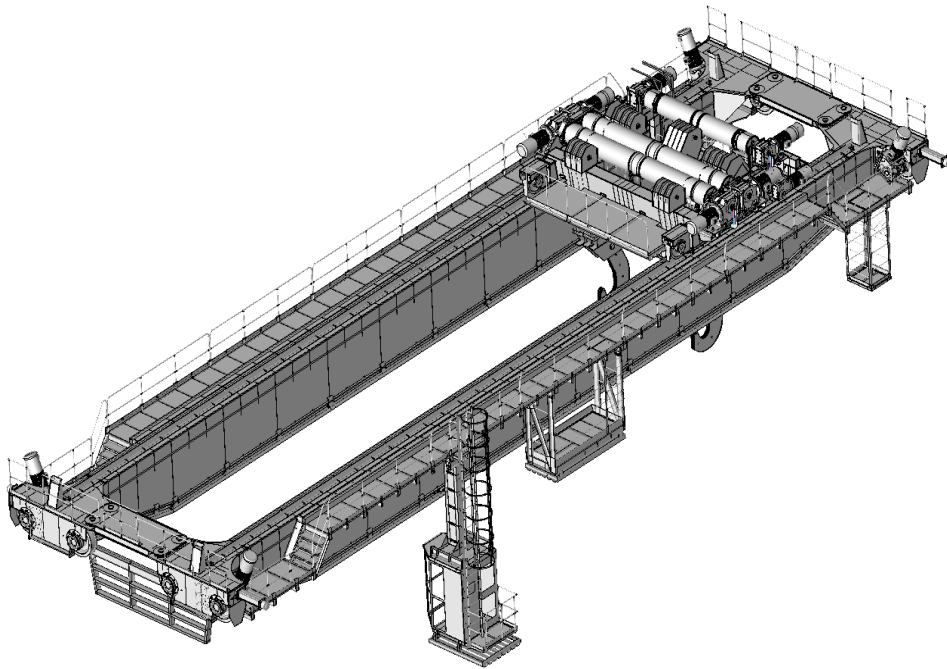
Selected examples of the Company's portfolio



Double-girder overhead crane Q=150/10t

Capacity	Q	t	2x75	10
Span	L_k	m	21,5	
Lifting height	H_{hoist}	m	15	
Classification ISO 4301/1	A7 heavy duty			
Speeds:	Hoist	m/min	0,6 ÷ 6	0,6 ÷ 6
	Trolley		4 ÷ 40	
	Crane travelling		6 ÷ 60	
Power supply			Alternating, three-phase 380 V; 50H	
Control mode			Cabin with air conditioning	
Track load capacity		P	kN	480
Environmental conditions	- temperature	° C	-20 ÷ +40	
	- air moisture	%	80	
	- explosion and fire danger, chemical aggressiveness, radioactivity, etc	yes/no	no	
Crane mass		kg	116700	

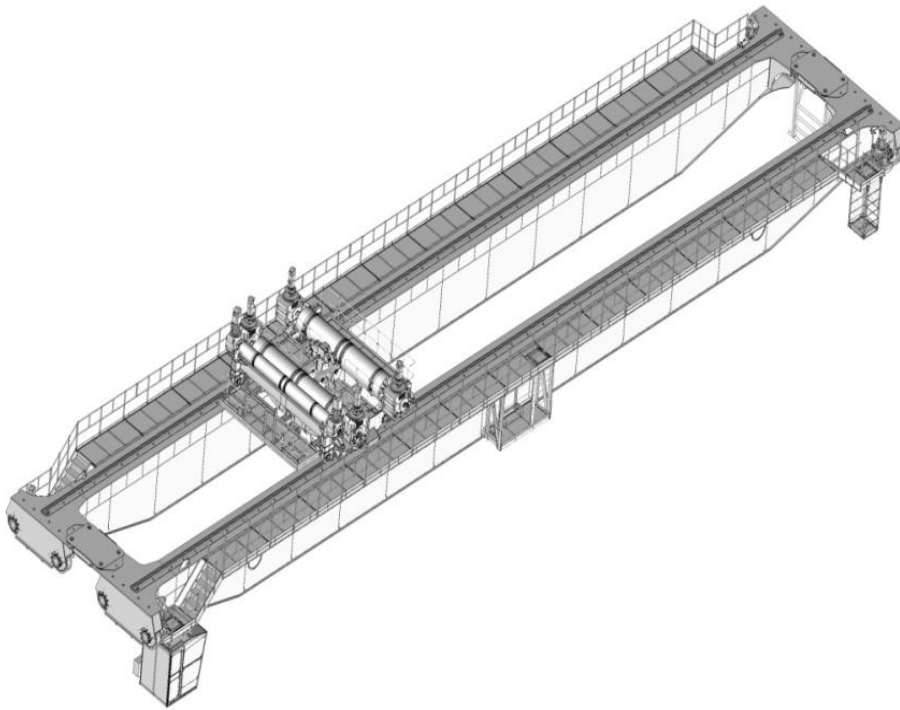
Selected examples of the Company's portfolio



Double-girder overhead crane Q=100/30t

Capacity	Q	t	100	30
Span	L_k	m	28	
Lifting height	H_{hoist}	m	22	
Classification ISO 4301/1	A7 Heavy duty			
Speeds:	Hoist	m/m in	7 ÷ 7,7	2 ÷ 12
	Trolley		4 ÷ 40	
	Crane travelling	7,5 ÷ 75		
Power supply			Alternating, three-phase 380 V; 50H	
Control mode			Cabin with air conditioning	
Track load capacity		P	kN	425
Environmental conditions	- Temperature		° C	-20 ÷ +40
	- Air moisture		%	80
	- Explosion and fire danger, chemical aggressiveness, radioactivity, etc		Yes/no	no
Crane mass		kg	126000	

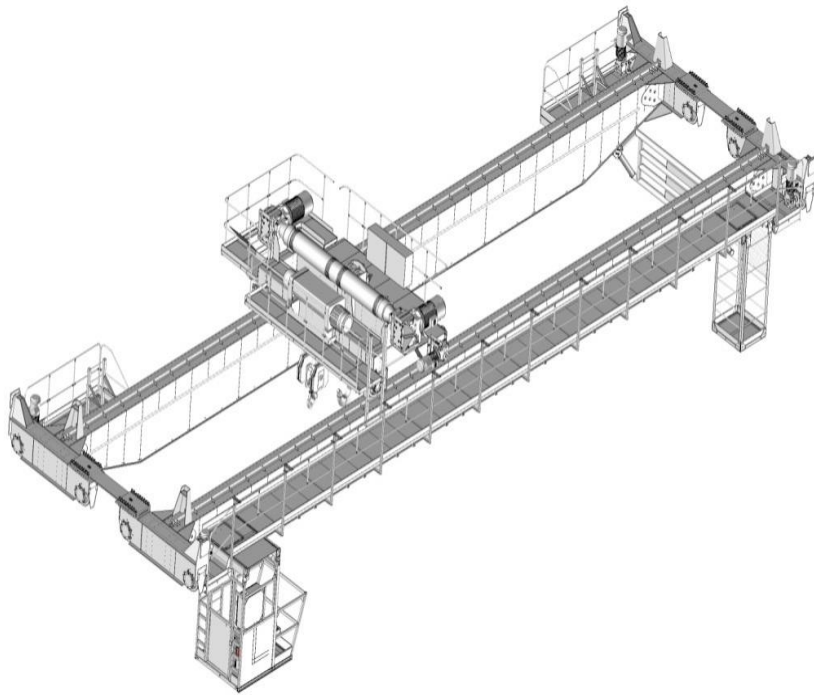
Selected examples of the Company's portfolio



Double-girder overhead crane 160/20t

Capacity	Q	t	160	20
Span	L_k	m	42	
Lifting height	H_{hoist}	m	32	34
Classification ISO 4301/1	A5			
Speeds	Hoist	m/min	0,08 ÷ 0,8	0,8 ÷ 8
	Trolley		1,25 ÷ 12,5	
	Crane travelling		3,0 ÷ 30	
Power supply			Alternating, three-phase 380 V; 50H	
Control mode			Cabin	
Track load capacity		P	kN	129
Environmental conditions	- Temperature	° C	0 ÷ +55	
	- Air moisture	%	80	
	- Explosion and fire danger, chemical aggressiveness, radioactivity, etc	Yes/no	no	
Crane mass		kg	184 000	

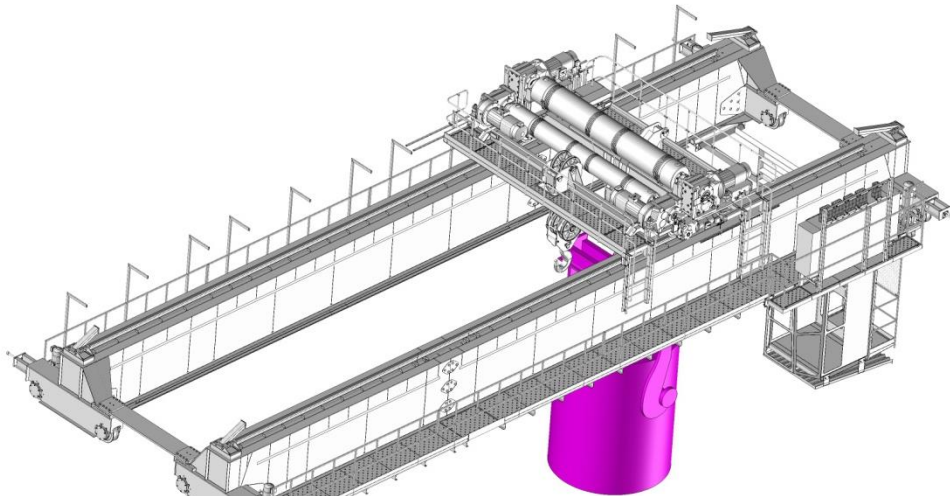
Selected examples of the Company's portfolio



Double-girder overhead crane 30/5t

Capacity	Q	t	30	5
Span	L_k	m	20	
Lifting height	H_{hoist}	m	12	
Classification ISO 4301/1	A5			
Speeds:	Hoist	m/min	6/1,5	8/2
	Trolley		3,8 ÷ 38	
	Crane traveling		6,8 ÷ 68	
Power supply			Alternating, three-phase 380 V; 50H	
Control mode			Cabin	
Track load capacity		P	kN	120
Environmental conditions	-Temperature	° C	-20 ÷ +40	
	- Air moisture	%	80	
	- Explosion and fire danger, chemical aggressiveness, radioactivity, etc	Yes/no	No	
Crane mass		kg	28000	

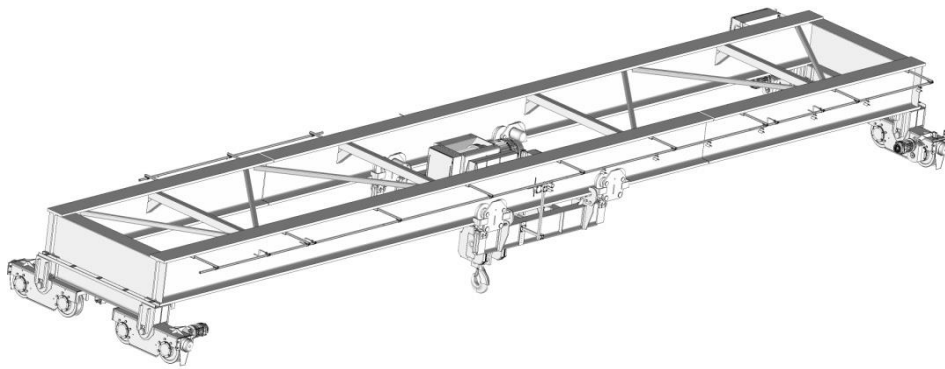
Selected examples of the Company's portfolio



Double-girder overhead crane 45/20t

Capacity	Q	t	45	20
Span	L_k	m	17	
Lifting height	H_{hoist}	m	16	
Classification ISO 4301/1	A6			
Speeds:	Hoist	m/min	0,3 ÷ 3	0,6 ÷ 6
	Trolley		2,5 ÷ 25	
	Crane travelling		4,0 ÷ 40	
Power supply			Alternating, three-phase 380 V; 50H	
Control mode			Cabin	
Track load capacity		P	kN	143
Environmental conditions	- Temperature	° C	0 ÷ +55	
	- Air moisture	%	80	
	- Explosion and fire danger, chemical aggressiveness, radioactivity, etc	Yes/no	No	
Crane mass		kg	38000	

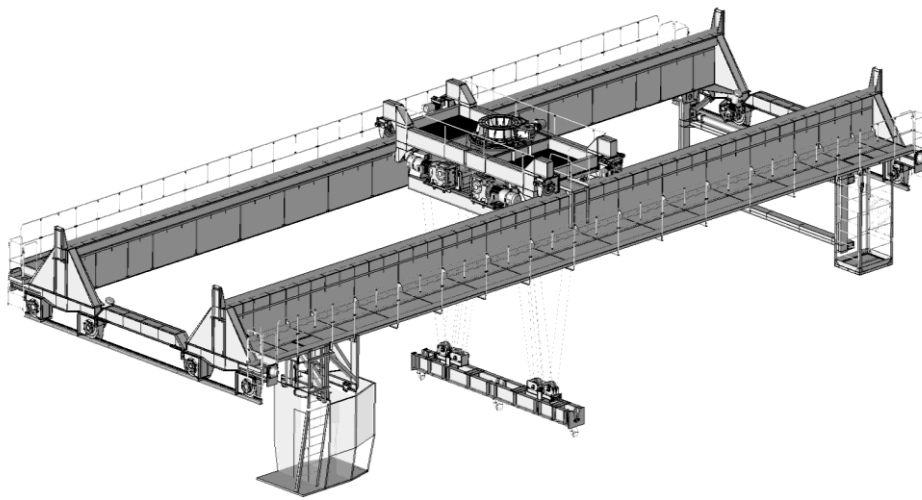
Selected examples of the Company's portfolio



Double-girder overhead crane 32t

Capacity	Q	t	32
Span	L_k	m	16,5
Lifting height	H_{HOIST}	m	7
Classification ISO 4301/1	A5		
Speeds	Hoist	m/min	1,2/5
	Trolley		2,0 ÷ 20
	Crane travelling		4,5 ÷ 40
Power supply			Alternating, three-phase 380 V; 50H
Control mode			Radio remote control
Track load capacity		P	kN
			105
Environmental conditions	- Temperature	° C	-20 ÷ +40
	- Air moisture	%	80
	- Explosion and fire danger, chemical aggressiveness, radioactivity, etc	Yes/no	no
Crane mass		kg	19300

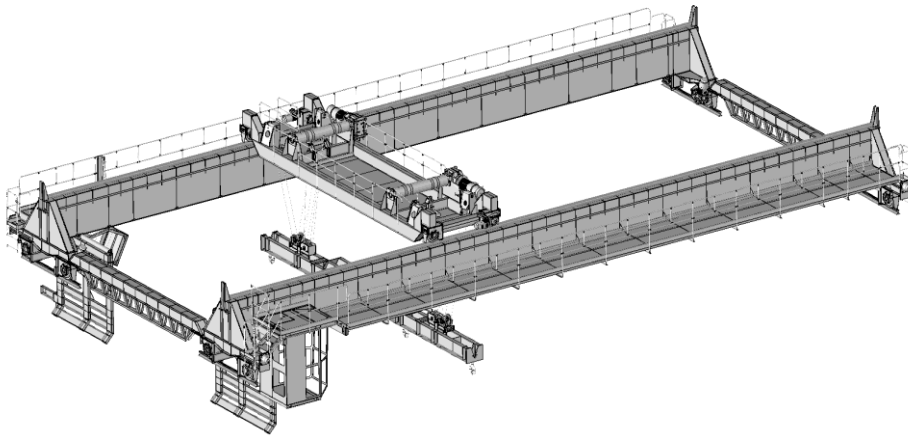
Selected examples of the Company's portfolio



Double-girder overhead crane 20t

Capacity	Q	t	20
Span	L_k	m	22,5
Lifting height	H_{hoist}	m	8
Classification ISO 4301/1	A5		
Speeds:	Hoist	m/min	0,8 ÷ 8
	Trolley		3,5 ÷ 35
	Crane travelling		8 ÷ 80
	Rotation	min ⁻¹	1,5
Power supply			Alternating, three-phase 380 V; 50H
Control mode			Cabin with air conditioner
Track load capacity	P	kN	114,5
Environmental conditions	- Temperature	° C	-20 ÷ +40
	- Air moisture	%	80
	- Explosion and fire danger, chemical aggressiveness, radioactivity, etc	Yes/no	No
Crane mass			kg 39000

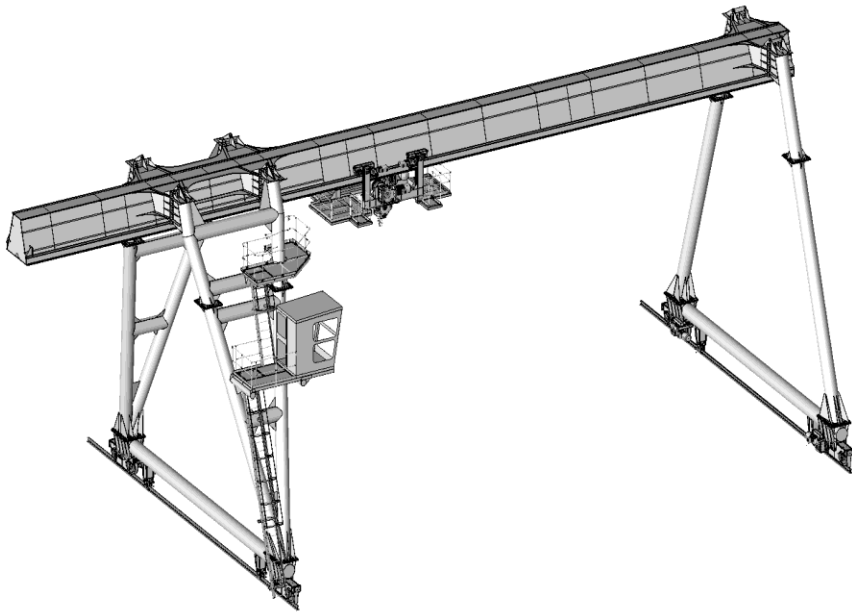
Selected examples of the Company's portfolio



Double-girder overhead crane 25t

Capacity	Q	t	25
Span	L_k	m	22,5
Lifting height	Hhoist	m	11
Classification ISO 4301/1	A6		
Speeds	Hoist	m/min	0,8 ÷ 8
	Trolley		3,5 ÷ 35
	Crane travelling		8 ÷ 80
Power supply			Alternating, three-phase 380 V; 50H
Control mode			Cabin with air conditioner
Track load capacity		P	kN
			119
Environmental conditions	- Temperature		° C
	- Air moisture		%
	- Explosion and fire danger, chemical aggressiveness, radioactivity, etc		Yes/no
			No
Crane mass		kg	37650

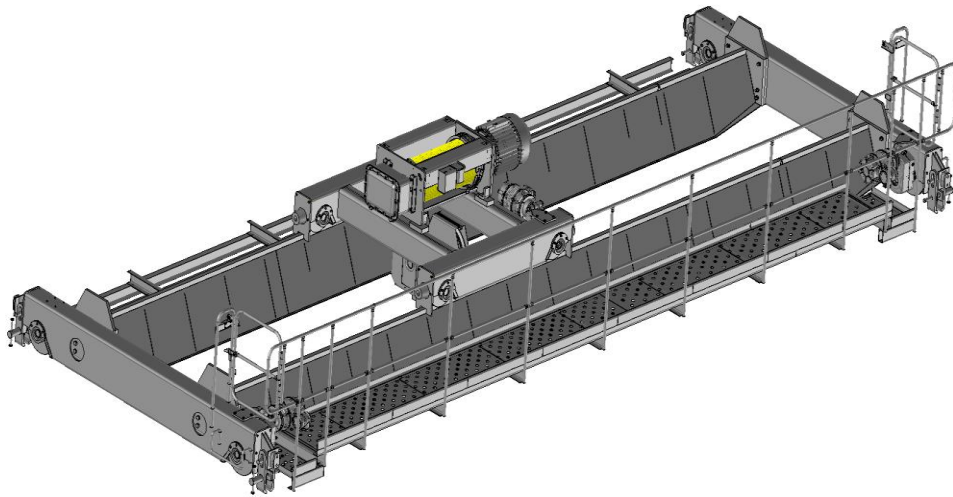
Selected examples of the Company's portfolio



Single – girder gantry crane 32/5t

Capacity	Q	t	32	5
Span	L_k	m	25+8,5	
Lifting height	H_{noA}	m	10	
Classification ISO 4301/1	A5			
Speeds:	Hoist	m/min	8/4	8/2
	Trolley		3 ÷ 30	
	Crane travelling		5 ÷ 48	
Power supply			Alternating, three-phase 380 V; 50H	
Control mode			Cabin with air conditioner	
Track load capacity		P	kN	240
Environmental conditions	- Temperature		° C	-20 ÷ +40
	- Air moisture		%	80
	- Explosion and fire danger, chemical aggressiveness, radioactivity, etc		Yes/no	No
Crane mass		kg	67300	

Selected examples of the Company's portfolio



Double – girder overhead supported crane 15t Ex

Capacity	Q	t	15	
Span	L_k	m	8,4	
Lifting height	Hhoist	m	9,0	
Classification	A3			
Speeds:	Hoist	m/min	4/1	
	Trolley		2÷20	
	Crane travelling		2÷15	
Power supply	Alternating, three-phase 380 V; 50H			
Control mode	Radio and panel			
Track load capacity	P	kN	95	
Environmental conditions	- Temperature	° C	-20 ÷ +40	
	- Air moisture	%	80	
	- explosion and fire danger, chemical aggressiveness, radioactivity, etc	Yes/no	II B T3	
Crane mass			kg	5500

Contacts

Ivan Komitov

Mob.: +359 882 490 401

podemgroupbulgaria@gmail.com>

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