

iskar

MÜHENDİSLİK LTD.



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corporate

ISKAR, with the head offices located in Istanbul / Turkey, uses in-house know-how and innovation on all of his products.

As being an expert on basic and detailed engineering, manufacturing, assembly, start-up and after-sales services for more than 40 years on the application of various material handling projects in and out of Turkey, ISKAR provides also dedicated solutions for customer specific requirements. As a manufacturer of material handling systems, ISKAR has following main production lines:

- Crane Division, focusing on rail mounted slewing or portal cranes for harbours, quays, shipyards, floating-docks,
- Loading Unloading Division, focusing on rail mounted or mobile loaders, unloaders for silos, steel mills, coal terminals, fertilizer production factories.

our values

Our values guide us throughout our business life and outlines our behaviours. We care and work for our customer's success. We encourage our colleagues for applying their knowledge on new ideas and projects. We believe in wining together and we are open for cooperation where mutual benefit is available.

mission

To design and supply most favourable and beneficial machinery for our customers.
To focus on sustained and profitable growth.
To be a trustful equipment supplier to the world from Turkey.

vision

Our vision improves the efficiency of material handling operations with respect to customers' needs.

Our closeness to customers, local networking capabilities and market position enable us to supply innovatively our engineering and material handling equipments.

iskar
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iskar expertise

We are specialized in designing, manufacturing and putting into operation of many robust, reliable and state of the art, material handling equipment including special industrial cranes, slewing jib cranes, level luffing cranes, floating dock cranes, port machinery, derricks and tailor made material handling solutions.

Our customer service team is always available and ready to respond and support your operations. In addition, most cranes are fitted with remote monitoring and fault diagnostic equipment.

ISKAR has its own installation and commissioning team, with great technical and practical experience. Clients, working with us, are completely guaranteed for correct reception of ordered materials, safe installation works according to OHSAS 18001 regulations. The perfect coordinated team of ISKAR. is capable of developing very competitive technological turnkey projects in the world.

Every machine is delivered or handed over with appropriate training already in place. Crane drivers receive comprehensive familiarisation of the crane, its controls and operational scope. The drivers also receive an introduction to maintenance and troubleshooting.



iskar manufacturing

ISKAR relies on a well-thought-out technical concept, in depth know-how in design and control systems as well as precision in production and first-class workmanship. Our manufacturing team carefully manufactures, tests and checks all electro-mechanical sub-assemblies before leaving factory.

Our engineers uncompromisingly apply the state of the art engineering to the further development and design of all products. Designing and classification for flawless operation is carried out continuously.

Over time, crane requirements may change and thus extensive adaptations may become necessary. By using of intelligent modernisation and modification techniques, we ensure that your cranes will meet the requirements of the future.



iskar delivery programme & index



slewing cranes



floating dock cranes



deck cranes



gangways



floating barge cranes



mobile loaders



mobile hoppers



shiploaders



references



qualities and vendors

iskar single jib level luffing slewing cranes

Level luffing slewing shipyard cranes are essential machinery to work on Shipyards, Drydocks and Berths. Level luffing portal crane ensures a horizontal path of load throughout luffing and stable slewing at any angle. Hoisting, luffing and slewing mechanisms can be operated separately.

Electrical powered, VFD driven or electro-hydraulic drive systems are available as per customers requirements.

Electronic load limiter, anti-wind rail clamp, anti-wind stay rope, anchorage device, under-current and under-voltage electrical devices and other various safety devices are essential.



technical parameters

Lifting capacity	up to 100 t
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Operational speed;	
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- hoisting	60 m/min
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- travelling	30 m/min
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- luffing	30 m/min
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- slewing	1,5 rpm
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Lifting height	up to 40 m
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Rail span	5 - 12 m
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STANDARDS

- ▀ F.E.M. 1.001 3rd EDITION REVISED 1998.10.01
- ▀ Machinery Directive, Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006
- ▀ European Normalized Standards – EN14985 – Slewing Jib Cranes

FEATURES

- ▀ Jib can be luffed down to rail level
- ▀ Automatic Lubrication System
- ▀ Frequency controlled drives
- ▀ Rail Clamps
- ▀ Storm Locks
- ▀ Fire Alarm & Extinguish. Sys.
- ▀ Aviation Lights
- ▀ Fail-safe brakes
- ▀ Fail-safe limit switches
- ▀ Crane Automation System
- ▀ Overload Protection
- ▀ Telecommunication Sys.
- ▀ Mono spiral Cable Reel
- ▀ Ergonomic Op. Seat & Cabin
- ▀ Air Conditioning

iskar double jib level luffing slewing cranes



Level luffing slewing cranes are essential machinery for shipyards and ports due to their high productivity rates and low operating costs. They can efficiently and precisely move bulk material, general cargo and containers. Due to their short loading-unloading cycle, low maintenance costs and reliability, they found place in every port and shipyard without exception.

Double jib level luffing portal crane ensures horizontal path of load throughout luffing and stable slewing at any angle. Hoisting, luffing and slewing mechanisms can be operated separately.



technical parameters

Lifting capacity	up to 70 t
Operational speed;	
- hoisting	30-90 m/min
- travelling	30 m/min
- luffing	30 m/min
- slewing	2,0 rpm
Lifting height	up to 40 m
Rail span	5 - 12 m

Electronic full load, anti-wind rail clamp, anti-wind stay rope, anchorage device, under-current and under-voltage electrical devices and other various safety devices are essential.

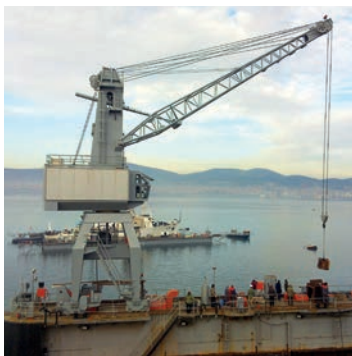
■ FEATURES

- ▶ Heavy duty gearboxes for hoisting appliances
- ▶ Pulleys, drums, couplings, gears and forged wheels for long life and rapid service works
- ▶ Failsafe brakes, switches and safety devices
- ▶ Excellent access to maintenance platforms
- ▶ Rack and pinion luffing mechanism
- ▶ Centralized lubrication system integrated with crane maintenance software >> lubricates during operation
- ▶ All above with certificated production quality
- ▶ AC squirrel cage motors with latest frequency control technology dedicated for crane applications
- ▶ Hardwired load limiting safety system for hoisting
- ▶ Seperate, insulated electrical room
- ▶ PLC automation system and easy to use diagnostics
- ▶ Crane operation history record
- ▶ Operator cabin having a wide view, equipped with all necessary devices and ergonomic control seat
- ▶ Air conditioning and fire extinguishing system

iskar floating dock cranes

ISKAR has supplied a vast number of floating dock cranes around its region. This Expertise in slewing jib cranes allows us to supply cost-effective, turnkey machinery with proven mechanical systems combined with the latest automation technology.

Floating dock cranes work on floating dock walls with a narrow rail span down to 2,5 meters. In order to overcome the worst heel and trim angles of the dock, a very fine design, and stability calculation is required for this type of cranes.



Cranes of YHV series are suitable for floating dock applications. Handling of hook loads for general ship repair and maintenance works are common operation modes. Typical of the YHV type crane design is the narrow rail span length and the feature to luff the jib down to rail level during towing of the dock on open seas. Floating dock cranes are the main power of ship repair yards and therefore shall be carefully engineered to achieve its duties.

■ SERVICE DETAILS

The cabin is ergonomically designed for the operator, with customized controls and high visibility to improve efficiency and safety. Components and walkways are inside structures wherever practical to improve safety for operators even in harsh weather conditions. Real-time data about wind speed, for example, helps to ensure safe crane operation.

ISKAR also supplies floating dock crane preliminary design and calculations for new build dock projects. According to end users requirements, turnkey cranes will be delivered in due time including transport, erection, training and commissioning.

technical parameters

Lifting capacity	up to 50 t
Operational speed;	
- hoisting	10-30 m/min
- travelling	30 m/min
- luffing	15 m/min
- slewing	0,5-1,5 rpm
Lifting height	up to 25 m
Rail span	3 - 6 m

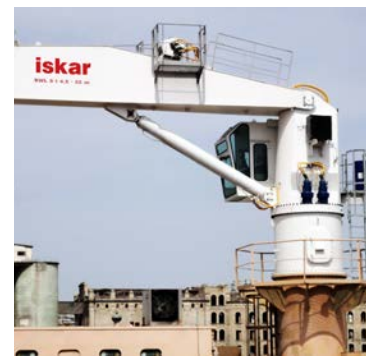
iskar deck cranes



ISKAR supplies up to 1000 mt capacity slewing jib cranes which can be installed on fixed pedestals, on floating docks, jetties, barges or any material handling base.

GPDC type Cranes are fully factory tested and delivered as a complete unit together with operator cabin, air conditioning unit, ergonomic seat, load limiting system, external lighting, audio communication system as standard.

The type and details of a crane depends on customers' requirements and can be satisfied with wide range of options provided by ISKAR.



technical parameters

Lifting capacity	up to 70 t
Operational speed;	
- hoisting	30-90 m/min
- travelling	30 m/min
- luffing	30 m/min
- slewing	2,0 rpm
Lifting height	up to 40 m
Rail span	5 - 12 m

OPTIONAL FEATURES

- ▀ Constant tensioning system
- ▀ MOPS (manual overload protection system)
- ▀ AO PS (Automatic overload protection system)
- ▀ Radio or Cabin operation
- ▀ Diesel driven power pack
- ▀ LE BUS grooved winch drum
- ▀ Operation in low temperature
- ▀ Stainless steel fittings
- ▀ PLC safety system



iskar continuous ship loaders

ISKAR offers turnkey ship loaders for handling continuous bulk materials up to 2000 t/h.

High-capacity and environment-friendly ship loaders are specially developed for handling grain, urea and other fertilizer minerals.

Common features for the ISKAR loaders are latest conveying technology, high capacity, environment-friendly material handling with their easy operation robust design and easy maintenance.

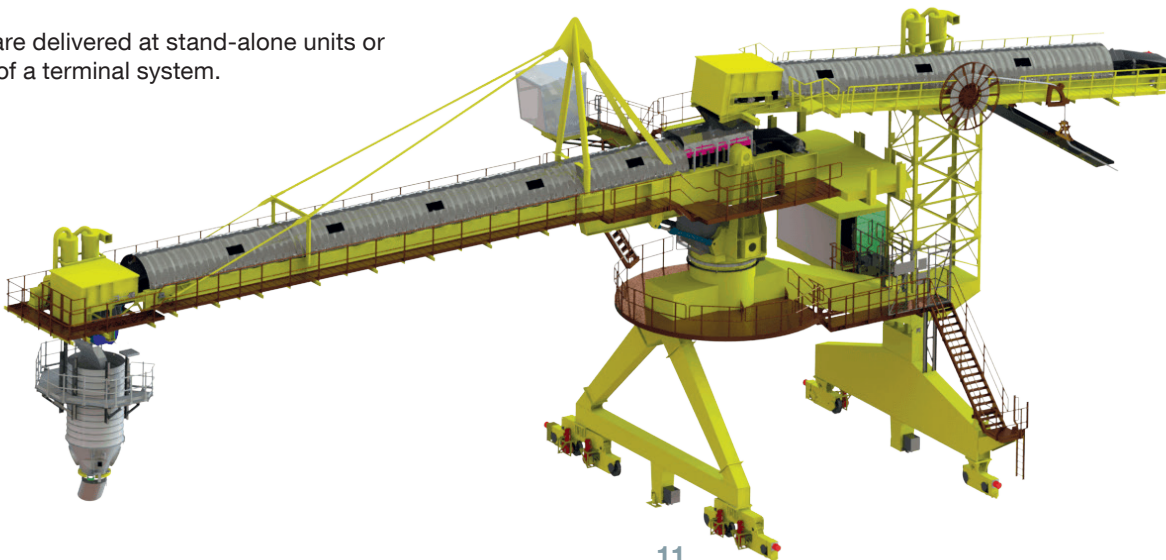


■ The ISKAR ship loaders offer:

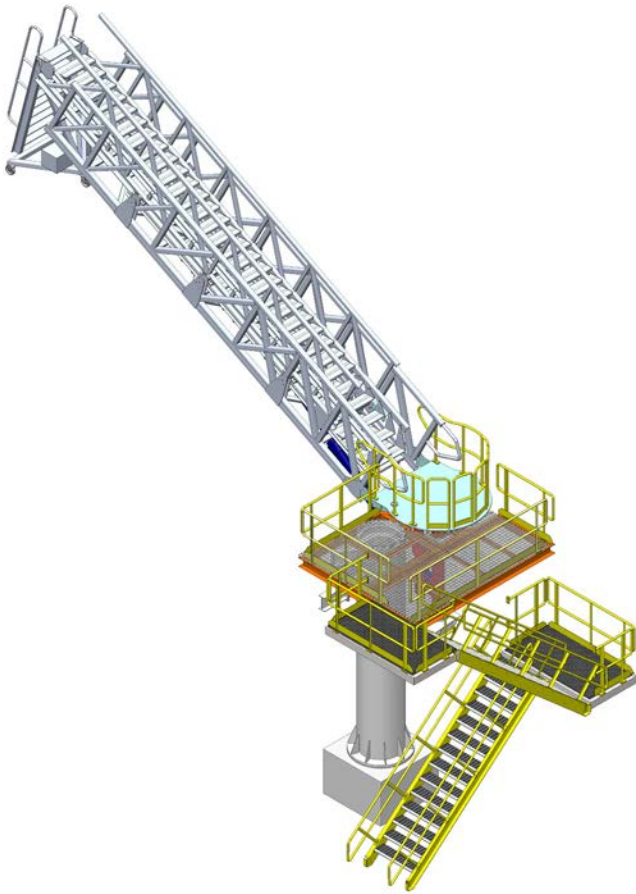
- ▶ Dust and spillage free loading
- ▶ Compact design and low weight
- ▶ Loading capacities up to 2,000 tph
- ▶ Loading of different materials with the same machine

They are delivered at stand-alone units or parts of a terminal system.

ISKAR Ship Loaders are equipped with VFD motor control units, remote control systems, dust suppressing filters, 3G teleservice service module and other optional accessories available to the customers choice.

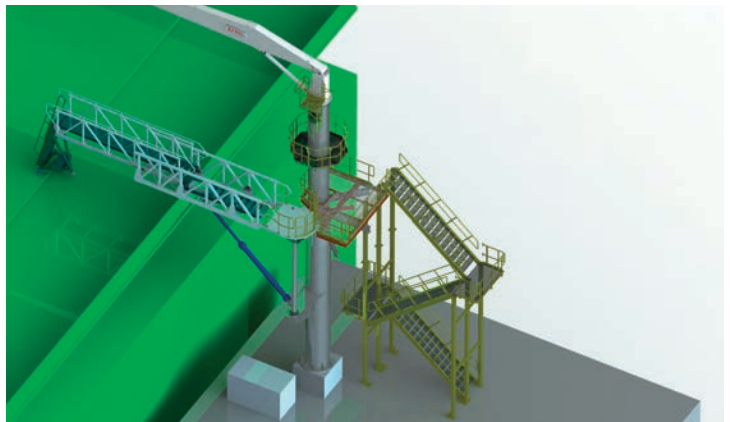


iskar gangways



Gangways provide optimum and safe access, between shore and ship. Even under severe conditions vice-versa continuous path is present.

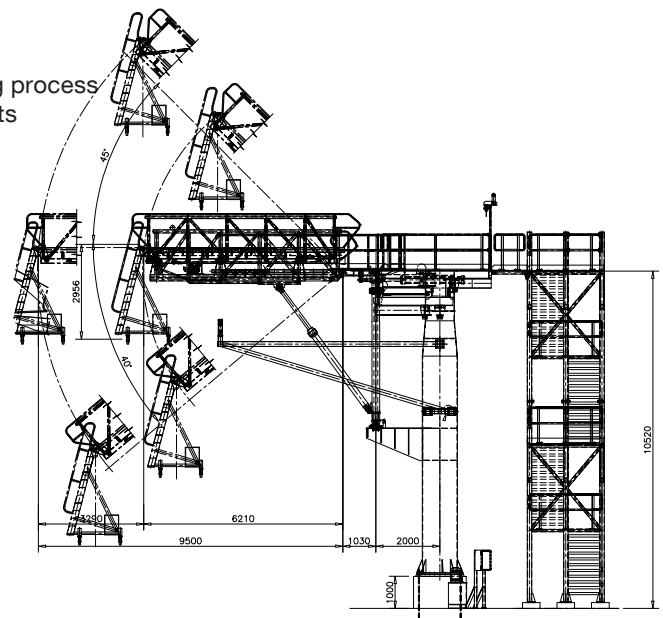
ISKAR gangways are capable of performing luffing motions by means of hydraulic cylinders, slewing motions by means of a slewing bearing with slewing gears and a single stage telescopic motion by means of a winch that can pull the telescopic gangway back and forth. Every type of operation requires its own solution. Therefore, our gangways are available in tailored sizes. Also, due to our experience in tailor-made systems, we can offer our gangways specifically according to any clients' specifications.



technical parameters

■ FEATURES

- ▶ Robust electro-hydraulic systems for safe, efficient, continuous transfer
- ▶ Certified materials and accessories as well as testing and manufacturing process
- ▶ Easy to operate device with self following control of the ship's movements
- ▶ Optional cabin control and electro-hydraulic service crane
- ▶ Optimum inclinations and self aligning steps
- ▶ Integrated or external fire-fighting systems
- ▶ Occupying minimum space, suitable for all terminals
- ▶ Easy, quick and simple maintenance tasks
- ▶ Durable anticorrosive treatment
- ▶ Acoustic and visual warnings
- ▶ Walkway lighting, area lighting
- ▶ Lightning protection systems



iskar floating barge cranes

ISKAR floating barge crane types are focused to have a high capacity and a long outreach, up to 200 tons and 40 meters. The benefit of the barge cranes is that they offer flexible solutions for cargo and bulk material handling in harbors or on rivers, where there are few quays or none at all.

Lattice boom type barge cranes can be delivered in hook duty heavy load configuration or 4-rope grab duty configuration. Hook duty – heavy load cranes are lightweight with large counterweights designed for ease of mobilization and stability. Grab duty cranes are designed for stability with oversized components that can withstand the shock loads of starting and reversing a counterweight and payload without overheating.

Single Layer Winches

4-rope grab duty applications require wire rope on one layer of the drum, including the boom hoist wire, to ensure long rope life.

Grab

The grab is equipped with an internal reeving wire that connects to the closing ropes. The two holding ropes attach with chain sections to the top frame of the clam.

Line Speed

In order to achieve high v times, hoisting velocity of the full load should be as much as 60 m/min and hoisting down should be in excess of 90 m/min. The engine must be sized to allow hoisting, swing and luff at full speed simultaneously without exceeding 85% of the engine rating.



The dimensions and specifications of a floating barge crane is highly related to its duty and customers' requirements. ISKAR offers FBC Models cranes as main specs are given on the table right. Capacities and dimensions different than the FBC models can be designed and manufactured on request

Crane Size	FBC.4010	FBC.7008	FBC.2008
Max. SWL (t)	40	70	200
Outreach (m)	22	30	25
Hook Travel (m)	15	30	18
Hook Speed (m/s)	12	9	4
Weight Appx. (t)	38	56	92

technical parameters

Maximum lifting capacity 70 t

Working radius;

- maximum outreach 30.0 m
- minimum outreach 7.0 m

Hoisting height of hook above deck level at;

- max outreach (jib angle 15°) 8.0 m
- min outreach (jib angle 80°) 27.0 m
- lowering depth below deck. 4 m

Pedestal diameter, approx. 2.4 m

Pedestal height from deck level 1.2 m

Total crane weight 50 t

Operational heel / trim 3 / 5°

Working speeds (+/-5%);

- hoisting 0 - 9.0 m/min
- slewing 0 - 0.7 rpm
- luffing 90 sec

iskar mobile loaders

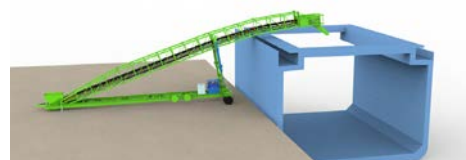
Full Function Mobile Shiploaders offer a cost effective and fast track solution with complete flexibility. By combining the Truck Unloading Apron Feeder Unit and comprehensive range of options for travel system, drive options and trimming equipment the ISKAR Mobile Ship Loaders offer reliable and robust machinery as a cost effective solution. Since no special civil works are required the Mobile Shiploader can be operated on any suitable existing quay area.

Mobile Shiploader with independent multi-entry Truck Unloading Apron Feeders Units can load cereals to Handy size ships at rates up to 1,000 t.p.h.



technical parameters

Loader Size	MSL-350	MSL-500	MSL-800	MSL-1000
Vessel Free Board (m)	5,5	6,5	9,7	12,3
Vessel Beam (m)	14	18	25	32
Outreach (m)	7	25	15	20
Length (m)	18	10,5	35	45



Standart Features	Optional Features
Rubber tyred travel system, with active steering drives	Wireless remote control
Hydraulic jacking cylinders for stable operation	Diesel generator set
Operators control cabin for all loader controls	Jet pulse bag filter on boom tip
Electrical conveyor drives (VFD)	Telescopic cascade cone type loading chute
Truck unloading apron feeder with dust filter	All hydraulic drives
Enclosed conveyor line through the loading unit	Stainless steel panels, accessories
Telescopic loading chute, dustless loading unit	Special corrosion protection
C5M Corrosion Resistant Paint	Cable reel for shore supply
Electro Hydraulic Power Pack	Air conditioned operator cabin
Shore supply power socket	Double truck unloading apron feeder
IP56 Electrical Panels	Safety equipment, audio-visual warning devices

iskar mobile hoppers

It is common that bulk material handling operations create dust which affects whole port and neighboring areas. Whether it is coal, grain, fertiliser or chemical powders, particle sizes range from 1 um up to 50 mm diameter creates a health hazard and pollution to nature.

In order to prevent creation and spreading of dust during bulk material unloading operations with grab, ISKAR has developed the "Dust Lock" mobile hopper. The Mobile hopper, equipped with dust suppressing grids, high capacity bag filters and truck loading telescopic chute(s) for a complete dustless operation is perfect choice for bulk unloading operations.



Hopper Model	DSTL-6	DSTL-7	DSTL-8
Grab Size (m³)	1-10	8-20	15-28
Hopper Top O.P. (m)	6x6	7x7	8x8
Total Height (m)	12	15	17



Dustless Mobile Hopper Features	Standard	Optional
6000 x 6000 Hopper dimension	✓	
Dust supressing flap type grid	✓	
Bag filters for increased fust supression	✓	
Sea-side folding tray		☐
Compressed air tank and compressor	✓	
Diesel generator with insulation cabin		☐
Tubeless tires	✓	
Idler bogies	✓	
Driven Bogies and steering system		☐
Telescoping truck loading unit	✓	
Ladders and maintenance platforms	✓	
Steel shroud panels over bunker head		☐
Towing arrangement	✓	
Parking arrangement	✓	
Cable reel for power supply		☐
Separate operator cabin		☐
Area lighting		☐
Outer cover panels		☐
Freefall telescopic truck loading chute	✓	
Cascade cones type truck loading chute		☐
Food grade stainless steel wear plates		☐
Wireless remote control		☐
Maintenance and Operation manuals	✓	
On-Site training	✓	
1 year spares	✓	

iskar references

Place	Type of Crane
Taskizak Shipyard	LLF Port Crane
Main Data	
Capacity	35 t x 32 m
Height of lift	20.0 m above rail 16.0 m below rail
Rail span	7.50 m
Wheels per corner/total	4/16
Operating Speeds	
Hoisting	10 m/min
Travelling	25 m/min
Luffing	5 m/min
Slewing	1.5 rpm



Place	Type of Crane
Gölcük Shipyard	Floating Dock Cranes
Main Data	
Capacity at the ropes	5/15 t x 23 m
Height of lift	21.5 m above rail 17.5 m below rail
Rail span	3.5 m
Wheels per corner/total	2/8
Operating Speeds	
Hoisting	30 m/min
Travelling	25 m/min
Luffing	5 m/min
Slewing	1.5 rpm



iskar references

Place	Type of Crane
Khulna Shipyard, Bangladesh	Slewing Jib Crane
Main Data	
Capacity at the ropes	40/5 t x 5/25 m
Height of lift	21.5 m above rail 10.0 m below rail
Rail span	6.0 m
Number of wheels per corner	2
Operating Speeds	
Hoisting and lowering	0-20 m/min
Gantry travelling	25 m/min
Luffing	15 m/min
Slewing	1.0 rpm



Place	Type of Crane
Mongla Port Shipyard, Bangladesh	Slewing Jib Crane
Main Data	
Capacity at the ropes	6t x 25 m
Height of lift	21.5 m above rail 12.0 m below rail
Rail span	6.0 m
Number of wheels per corner	4
Operating Speeds	
Hoisting and lowering	0-90 m/min
Gantry travelling	20 m/min
Luffing	15 m/min
Slewing	1.5 rpm



iskar references

Place	Type of Crane
Samsun Port, Turkey	DBLL Slewing Jib Crane
Main Data	
Capacity at the ropes	5/10/35t x 25.0 m
Height of lift	15.0 m above rail 5.5 m below rail
Rail span	7.5 m
Wheels per corner/total	5/20
Operating Speeds	
Hoisting	45 m / min
Travelling	20 m/min
Luffing	50 m/min
Slewing	1.5 rpm



Place	Type of Crane
Port Cranes / ICDAS Erection Works	DBLL Slewing Jib Crane
Main Data	
Capacity	22/55 t x 35/25 m
Height of lift	21.0 m above rail 10.0 m below rail
Rail span	10.0 m
Wheels per corner/total	5/20
Operating Speeds	
Hoisting	0-25 m/min
Travelling	30 m/min
Luffing	50 m/min
Slewing	1.5 rpm



iskar references

Place	Type of Crane
Port Cranes / ISDEMIR Erection Works	DBLL Slewing Jib Crane
Main Data	
Capacity	22/55 t x 35/25 m
Height of lift	21.0 m above rail 10.0 m below rail
Rail span	10.0 m
Wheels per corner/total	5/20
Operating Speeds	
Hoisting	0-25 m/min
Travelling	30 m/min
Luffing	50 m/min
Slewing	1.5 rpm



Place	Type of Crane
Port Cranes / Toros Terminal Adana, Erection Works	DBLL Slewing Jib Crane
Main Data	
Capacity	16/20 t x 32/23 m
Height of lift	22.0 m above rail 6.0 m below rail
Rail span	6.0 m
Wheels per corner/total	7/20
Operating Speeds	
Hoisting	0-60 m/min
Travelling	20 m/min
Luffing	75 m/min
Slewing	1.5 rpm



iskar references

Place	Type of Crane
Iskenderun Port, Turkey	Ship Loader
Main Data	
Capacity	300 tph
Rail Span	5.5 m
Material	Grain, cereal
Wheel per corner/total	4/16
Operating Speeds	
Conveyor Speed	1,7 m/s
travelling	20 m/min
Slewing	+/- 95°
Vessel Size	25000 dwt



Place	Type of Crane
Derince Port, Turkey	Ship Loader
Main Data	
Capacity	1200 tph
Rail Span	6.0 m
Material	Grain, cereal
Wheel per corner/total	4/16
Operating Speeds	
Conveyor Speed	1,7 m/s
travelling	20 m/min
Slewing	+/- 100°
Vessel Size	40000 dwt



iskar references

Place	Type of Crane
Derince Port, Turkey	2 x Ship Unloader
Main Data	
Capacity	600 tph
Rail Span	6.0 m
Material	Grain, cereal
Wheel per corner/total	4/16
Operating Speeds	

Complete renovation of automation hardware and software from S4 Siemens to Siemens S7 PLC System. Complete renovation of sensors & limit switches and programming.



Place	Type of Crane
BN Navy Chittagong, Bangladesh	Offshore Telescopic Crane
Main Data	
Capacity at the ropes	25/50 t x 16,5/3 m
Height of lift	21.5 m
Pedestal diameter	Ø 3000 mm
Prime motor	Diesel Engine
Operating Speeds	

Hoisting and lowering 0-12 m/min
Telescoping 0-90 sec
Luffing 0-90 sec
Slewing 1.0 rpm

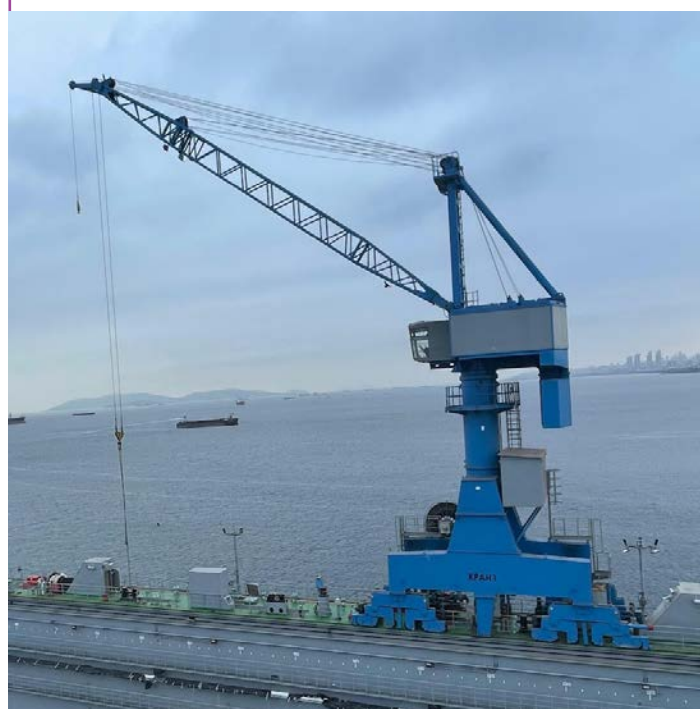


iskar references

Place	Type of Crane
Baku, Azerbaijan	Electro Hydraulic Deck
Main Data	
Capacity at the ropes	5 t x 32 m
Height of lift	25 m
Pedestal Diameter	Ø 1800 mm
Prime Motor	Electric Motor
Operating Speeds	
Hoisting	0-20 m/min
Luffing	0-90 sec
Slewing	0.5 rpm



Place	Type of Crane
KS Shipyard, Turkey	Floating Dock Cranes
Main Data	
Capacity at the ropes	15/20 t x 27/20 m
Height of lift	30.0 m above rail 18.0 m below rail
Rail span	4.2 m
Wheels per corner/total	6/24
Operating Speeds	
Main Hoisting	0-30 m/min
Auxiliary Hoisting	0-50 m/min
Travelling	30 m/min
Luffing	25 m/min
Slewing	1.0 rpm



iskar references

Place	Type of Crane
Chittagong Port, Bangladesh	DBLL Slewing Jib Crane
Main Data	
Capacity	22/55 t x 35/25 m
Height of lift	21.0 m above rail
	5.0 m below rail
Rail span	6.7 m
Wheels per corner/total	5/20
Operating Speeds	
Hoisting	0-60/90 m/min
Travelling	25 m/min
Luffing	40 m/min
Slewing	1.5 rpm



Place	Type of Crane
BN Navy, Chittagong, Bangladesh	Slewing Jib Crane
Main Data	
Capacity	5/12 t x 36/29 m
Height of lift	35.0 m above rail
	5.0 m below rail
Rail span	5.28 m
Wheels per corner/total	5/20
Operating Speeds	
Hoisting	0-40 m/min
Travelling	25 m/min
Luffing	30 m/min
Slewing	1.0 rpm



iskar references

Place

Batum Port, Georgia

Type of Crane

Ship Loader

Main Data

Capacity	1100 tph
Material	Urea, Sulphur
Rail span	10.5 m
No of wheels seaside/landside	8/6

Operating Speeds

Belt Conveyors	2,4 m/min
Slewing	0.5 rpm
Luffing	0-60 sec
Travelling	25 m/min



qualities and vendors

ISKAR Mühendislik Ltd. makes permanent efforts in order to achieve excellence in the quality level of its products.

With the help of our vendors, we make use of quality material in developing robust and durable products.



iskar

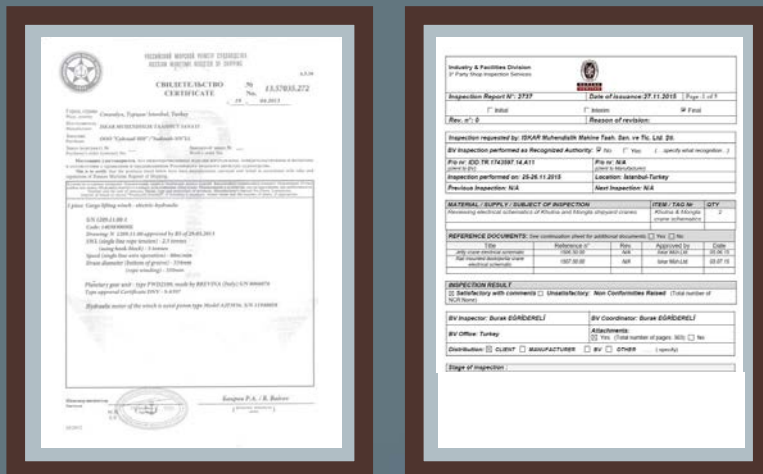
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iskar quality management

ISKAR Mühendislik Ltd. makes permanent efforts in order to achieve excellence in the quality level of its products.

We at ISKAR Ltd. Engineers are committed to design, manufacture, put into operation and service ensuring safety and reliability

of cranes to meet applicable National & International standards, statutory requirements and other customer specifications and continually improve the effectiveness of Quality Management System so as to consistently achieve customer satisfaction.



iskar our vendors

With the help of our vendors, we make use of quality material in developing robust and durable products. Purchased goods account for a large share of the added value of our products. Therefore, we regard our Vendors and Suppliers alike – as crucial key players to the success of ISKAR.

Known for features, such as application specific design, sturdy construction, durability and temperature tolerance, these products are widely catering to the requirements of the clients belonging to the marine and engineering sector.

ISKAR is committed to maintain and improve a mutually beneficial, trusted and long-term relationship with all Vendors that prove capable to add value to the services we provide to our Customers.

SEW
EURODRIVE

 **Telemecanique**
GROUPE SCHNEIDER

Schneider
Electric

SIEMENS

Rexroth
Bosch Group

CONDUCTIX
wampfler

ABB

3S
SolidWorks

galvi
BRAKING FORCE

 **International**

ExxonMobil

 **Stromag**

PAT
KRÜGER

HELUKABEL

 **Spohn+Burkhardt**
Elektrotechnische Fabrik Blaubeuren

 **dinamic oil**

 **BREVINI**
Motion Systems



The logo for iskar, featuring the word "iskar" in a bold, red, sans-serif font.

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