



Bridge crane

Questionnaire

Technical specifications

1. Type of crane in structure	Bridge single-girder crane
	Bridge double-girder crane
	Bridge four-girder crane
2. Crane group	Special bridge crane with magnets
	Special bridge crane with a grab
	Special bridge crane with magnets and a grab
	Special bridge crane with magnets and a mold
	Special bridge crane with a grab and a mold
	Special bridge crane with a flexible traverse suspension
	Special bridge crane with a rigid traverse suspension
	Special bridge crane with a flexible traverse suspension and a rotatable trolley
	Special bridge crane with a rigid traverse suspension and a rotatable trolley
	Special bridge crane with two trolleys

		Metallurgical casting bridge crane
		Metallurgical mold charging bridge crane
		Metallurgical forge bridge crane
		Other
3. Using of crane and crane's mechanisms		
3.1	Type of drive	Electrical
3.2 Estimated qualification groups of the crane and its mechanisms according to ISO 4301-1		
3.2.1	Crane in general (A3-A8)	A
3.2.2	Main crane hoist (M1-M8)	M
3.2.3	Auxiliary crane hoist (M1-M8)	M
3.2.4	Trolley travel mechanism (M1-M8)	M
3.2.5	Trolley rotating mechanism/load-handling device (jaws, hook etc.) (M1-M8)	M
3.2.6	Crane travel mechanism (M1-M8)	M
3.2.7	Other groups:	M
3.3	Lifting capacity, t with removable load-handling device	
	with stationary load-handling device (hook, etc.)	
	of ropes	
	of trolley	
	other:	
	other:	
3.4	Crane span, m	
3.5	Lifting height, m	
3.6	Crane size along its way (with uncompressed buffers), m	Offered by the manufacturer
3.7	Load-handling device rotation: Not provided	
	Together with a load-handling device rotating mechanism	
	Together with rotating trolley	

3.8	Rotating angle limitations : hook/trolley/traverse/spreader/other:	
3.8.1	Full-turn/Non-full-turn ($\pm 90^\circ$ / $\pm 180^\circ$ / $\pm 270^\circ$ / $\pm 370^\circ$)	
3.9 Mechanisms speed		
3.9.1	Main crane hoist, m/sec (m/min)	V=
3.9.2	Auxiliary crane hoist, m/sec (m/min)	V=
3.9.3	Trolley traveling mechanism, m/sec (m/min)	V=
3.9.4	Trolley/load-handling device (hook, traverse, spreader, etc.) rotating mechanism, rpm	V=
3.9.5	Crane travel, m/sec (m/min)	V=
3.9.6	Other:	V=
3.10 Height from the rail head level		
3.10.1	Of load lifting, m	
3.10.2	Of load lowering, m	
3.11	Distance from rail head level up to lower truss elements (for indoor cranes and cranes located under the roof), m	
3.12	Distance from rail head level axis up to pillars and other crane travelling way elements, m	
3.13	Crane rail type	
3.14	Permissible wheel load, kN (t)	
4 Operating conditions		
4.1	Operating temperature range, °C	from up to
4.2	Placement category: (outdoor – «1», under the roof – «2», not heating zone – «3», heating zone – «4», high humidity zone – «5»)	
4.3 Wind load		
4.3.1	Maximum wind speed In crane operation mode, m/sec	V=
	Out of use, m/sec	V=

4.4	Seismic resistance, (Richter scale)		up to	
4.5	Dustiness level (in case of increased dustiness):			
4.5.1	Type of the dust (material)			
4.5.2	Density, mg/m ³			
4.6	Heatstroke possibilities			
4.6.1	Source (no source / load / furnace etc.)			
4.6.2	Main impact on (suspension/travers/bridge girder/ trolley, etc.)			
4.6.3	Temperature, °C	from	up to	
4.6.4	Duration, min	from	up to	
4.7	Other special conditions			
5	Crane purpose			
5.1	Load handling:			
	Bulk load, specify:			
	General cargoes, specify:			
5.2	Execution of technological operations:			
	Warehouse maintenance	Freight transport loading		
	Freight train loading	Furnace loading		
	Continuous casting machines maintenance	Rolling mill maintenance		
	Assembly operations	Other:		
6	Load characteristics			
6.1.1	General cargoes or load package of the 1st type			
6.1.1.1	Maximum weight on a load-handling device, t			
6.1.1.2	Maximum dimensions, mm	length	width (diameter)	height (depth)

6.1.1.3	Availability of special slinging points: :		yes	no
6.1.1.4	Load temperature, °C		from	up to
6.1.1.5	Other:			
6.1.2	General cargo or load package of the 2nd type			
6.1.2.1	Maximum weight on a load-handling device, t			
6.1.2.2	Maximum dimensions, mm	length	width (diameter)	height (depth)
6.1.2.3	Availability of special slinging points		yes	no
6.1.2.4	Load temperature, °C		from	up to
6.1.2.5	Other:			
6.2.1	Bulk load of the 1st type			
6.2.1.1	Name of material			
6.2.1.2	Load conditions (normal, frozen, caked, in pieces etc.)			
6.2.1.3	Density, t/m ³		Maximum temperature, °C	
6.2.1.4	Other:			
6.2.2	Bulk load of the 2nd type			
6.2.2.1	Name of material			
6.2.2.2	Load conditions (normal, frozen, caked, in pieces etc.)			
6.2.2.3	Density, t/m ³		Maximum temperature, °C	
6.2.2.4	Other:			
7 Load handling device type and characteristics				
7.1	Hooks	Main hook I	One-horn hook	Double-horn hook
		Main hook II	One-horn hook	Double-horn hook
		Auxiliary hook I	One-horn hook	Double-horn hook
		Auxiliary hook II	One-horn hook	Double-horn hook

7.2	Grab	Characteristics are offered by the manufacturer		
		Double-rope		Four-rope
		Permanent		Mounted on a hook
		Manual drive	Electric drive	Hydraulic drive
		Foreign drive		Russian drive
		Drive trade mark		
		Intended for unloading wagons		Not intended for unloading wagons
		Double jaw		Multi jaw
		Orientation regarding crane ropes (for double-jaw four-rope grab)		Longitudinal opening Lateral opening
		Volume capacity, m ³		
		Other:		
7.3	Magnet	Characteristics are offered by the manufacturer		
		Rectangular profile shape	Round profile shape	Special profile shape
		Load capacity, t		
		Quantity, pcs.		
		Foreign drive		Russian drive
		Drive trade mark		
		Type		
		Load temperature, °C		from up to
		Other:		
7.4	Spreader	Characteristics are offered by the manufacturer		
		Permanent		Mounted on a hook
		Foreign made		Russian made
		Spreader trade mark		
		Manual drive	Electric drive	Hydraulic drive

		Container standard size		
		Replaceable by standard size		Sliding
		Located along the crane runway		Located across the crane runway
		Other:		
7.5	Traverse	Characteristics are offered by the manufacturer		
		Permanent		Mounted on hook
		Vacuum traverse	Hook traverse	Magnet traverse
		Located along bridge girder	Located across bridge girder	Need for rotation
		<u>Complete set of traverse</u>		
		7.5.1 With hooks	Quantity, pcs.	Lifting capacity, t
		7.5.2 With magnets	(fill in item 7.6)	
		7.5.3 With claws	Separate crane mechanism	
			Electric drive	
			Hydraulic drive	
		7.5.4 With slings	Lifting capacity, t	
			Sling's length, mm	
			Sling type	
			Quantity, pcs.	
		7.5.5 Other		
7.6	Pliers	Characteristics are offered by the manufacturer		
		Permanent		Mounted on hook
		Foreign made		Russian made
		Trade mark		
		Manual drive	Electric drive	Hydraulic drive
		Located along the crane runway		Located across the crane runway
		Other		

7.7	Mold	Characteristics are offered by the manufacturer			
		Double Hook suspension		Four Hook suspension	
7.8	Automatic capture				
7.9	Other (load-handling device)				
8 Constructional requirements					
8.1	Alignment restrictions for working movements of mechanisms:				
8.2	Necessity for synchronization speeds when working together		yes	no	
8.3	Crane's current supply type	Trolley			
		Cable	Reel	Tracking	
8.4	Control cabin	Mobile		Stationary	
8.5	Control cabin location				
8.6	Type of the control system	Frequency			
8.7	Complete set of the control cabin				
9 Additional requirements					
9.1	Lifting capacity limiter availability	For each winch		Other requirements	
9.2	The parameter recorder setting is necessary (Obligatory for cranes with 10t or more lifting capacity (A6-A8))	yes		no	
9.3	Complete set of the crane				
No.	Name	Unit	Qty.	TM	Manufacturer
1					
2					
3					
4					
5					

9.4	Technical documentation, provided by the Customer	
	Dimensional drawing	Other:
9.5	Painting	
9.5.1	Enamel + primer	
9.5.2	Enamel color: yellow /	
9.6	Additional requirements of the Customer	
10 Customer information		
10.1	Company name	
10.2	Address	
10.3	Contact person	
10.4	Phone	
10.5	E-mail	

Thank you for the provided information!

Please, send us this form to our e-mail address: info@tehnoros.com