



Container crane

Questionnaire

Technical specifications

1. Type of crane in structure	Gantry double-girder container crane
	Semi-gantry container crane
2. Crane group	General purpose gantry container crane
	Assemble gantry crane
	Gantry crane with magnets
	Gantry crane with magnets and grab
	Gantry crane with grab
	Container gantry crane
	Special gantry crane for hydroelectric power plants and hydraulic structures
	Special gantry crane for nuclear facilities
	Special gantry crane

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 in general (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 trolleys		
	of spreader		
	other:		
3.4	Crane span, m		
3.5	Lifting height, m		
3.6	Work radius on consoles (L≥0), m	L1	L2
3.7	Crane size along its way (with uncompressed buffers), m	Offered by the manufacturer	
3.8	Quantity of cargo trolleys and lifting mechanisms		
	with one trolley and one lifting mechanism		
	with one trolley and several lifting mechanisms		
	with two trolleys and any number of lifting mechanisms		
	with one or two trolleys and a hoist		
3.9	Load-handling device rotation:		
	not provided		
	together with a load-handling device rotating mechanism		
	together with rotating trolley		

3.10	Rotating angle limitations: hook/trolley/traverse/spreader/other:		
3.10.1			
3.11 Mechanisms speed			
3.11.1	Main crane hoist, m/sec (m/min)	V=	
3.11.2	Auxiliary crane hoist, m/sec (m/min)	V=	
3.11.3	Trolley travel mechanism, m/sec (m/min)	V=	
3.11.4	Trolley/load-handling device (hook, traverse, spreader etc.) rotating mechanism, rpm	V=	
3.11.5	Crane travel, m/sec (m/min)	V=	
3.11.6	Other:	V=	
3.12 Height from the rail head level			
3.12.1	Of load lifting, m		
3.12.2	Of load lowering, m		
3.13	Distance from rail head level up to lower truss elements (for indoor cranes and cranes located under the roof), m		
3.14	Distance from rail head level axis up to pillars and other crane travelling way elements, m		
3.15	Crane rail type		
3.16	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:				
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/traverse/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	
	Assembly operations		Other:	
6 Load characteristics				
6.1.1	General cargo or load package of the 1 st 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		Calculated by the manufacturer
		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	
		Location			
		Other:			
7.5	Traverse	Characteristics are offered by the manufacturer			
		Permanent		Mounted on a hook	
		Vacuum traverse	Hook traverse		Magnet traverse
		Located along bridge girder	Located across bridge girder		Need for rotation
		Complete set of traverse			
		<u>7.5.1 with hooks</u>	Quantity, pcs.		Lifting capacity. t
		<u>7.5.2 with magnets</u>			
		<u>7.5.3 with claws</u>	Separate crane mechanism		
			Electric drive		
			Hydraulic drive		
		<u>7.5.4 with slings</u>	Lifting capacity,t		
			Sling's length, mm		
			Sling type		
			Quantity, pcs.		
		<u>7.5.5 Other</u>			
7.6	Pliers	Characteristics are offered by the manufacturer			
		Permanent		Mounted on a 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	Need 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	Complete set of the crane				
No.	Name	Unit	Qty.	Trade mark	Manufacturer
1					
2					
3					
4					
9.2	Technical documentation, provided by the Customer				
Dimensional drawing			Other:		
9.3	Painting				
9.3.1	Enamel				

9.3.2	Enamel color: yellow /	
9.4	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