



Calculation number: Cal_KD10t-22.5-12m
Crane work number: KD10t x22.5m Hol:12m
User/Version: RUSAT/ 4.0.37
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CRANE DATA

1 General

Crane type	KD10t x22.5m Hol:12m	
Span	22.5m	
Crane load (SWL)	10000kg	
Number of hoists	1 ps	
Hoisting height	12m (max12m)	
Hoist type.....	K4104D0100M512DD05N	
Trolley rail gauge.....	1400mm	
Crane use	Indoor	
Crane group.....	FEM A5	
Hoist group	M5(FEM 2m)	
Hoist traversing group	M5(FEM 2m)	
Bridge traveling group	M5(FEM 2m)	
Hoisting speed	5/0.8	2-speed
Trolley traversing speed	0-20 m/min	Stepless
Bridge traveling speed	0-32 m/min	Stepless
Dynamic coefficient for load	1.19	
Dynamic coefficient dead load	1.1	
Sideways pull factor	N/A	
Crane acceleration	0.12m/s ²	
Weight of crane (with hoists).....	12270 kg	
Weight of crane bridge (without hoists)	11375 kg	
Weight of one hoist and trolley	895 kg	
Weight of one end carriage.....	351 kg	
Weight of one crane traveling machinery	20 kg	
Weight of bridge panel	50kg	
Weight of one main girder	4194 kg	
Weight of crane service platform	1597 kg	
Main girder type (Box)	410/980/6/8/6/8-Q235	
Service platform type	Bottom joint	
Surface preparation type	Sa2.5	
Painting type	Epoxy	

2 Electrical

Main voltage	380V/50Hz
Control voltage	48AC
Nominal power of crane	12.5kW
Maximum current of crane*)	N/A
Nominal current of crane*)	30.2Ass
Power factor at starting current.....	0.77
Power factor at nominal current.....	0.93
Voltage drop of trolley power supply	<= 2%
Voltage drop of crane power supply	N/A