



Calculation number: Cal_KD25t-28.5-12m
Crane work number: KD25t x28.5m Hol:12m
User/Version: RUSAT/ 4.0.37
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CRANE DATA

1 General

Crane type	KD25t x28.5m Hol:12m	
Span	28.5m	
Crane load (SWL)	25000kg	
Number of hoists	1 ps	
Hoisting height	12m (max12m)	
Hoist type	K5106D0250M512CD07N	
Trolley rail gauge	2400mm	
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	4/0.7	2-speed
Trolley traversing speed	0-20 m/min	Stepless
Bridge traveling speed	0-32 m/min	Stepless
Dynamic coefficient for load	1.18	
Dynamic coefficient dead load	1.1	
Sideways pull factor	N/A	
Crane acceleration	0.12m/s ²	
Weight of crane (with hoists)	23586 kg	
Weight of crane bridge (without hoists)	21647 kg	
Weight of one hoist and trolley	1939 kg	
Weight of one end carriage	674 kg	
Weight of one crane traveling machinery	20 kg	
Weight of bridge panel	50kg	
Weight of one main girder	8695 kg	
Weight of crane service platform	2023 kg	
Main girder type (Box)	610/1480/6/10/6/10-Q235	
Service platform type	Side joint	
Surface preparation type	Sa2.5	
Painting type	Epoxy	

2 Electrical

Main voltage	380V/50Hz	
Control voltage	48AC	
Nominal power of crane	24.2kW	
Maximum current of crane*)	N/A	
Nominal current of crane*)	54.2Ass	
Power factor at starting current	0.62	
Power factor at nominal current	0.92	
Voltage drop of trolley power supply	<= 2%	
Voltage drop of crane power supply	N/A	