



Calculation number: Cal_KD30t-28-12m
Crane work number: KD30t x28m Hol:12m
User/Version: RUSAT/ 4.0.39D
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CRANE DATA

1 General

Crane type	KD30t x28m Hol:12m	
Span	28m	
Crane load (SWL)	30000kg	
Number of hoists	1 ps	
Hoisting height	12m (max12m)	
Hoist type	K5106D0300M412AD06N	
Trolley rail gauge	2400mm	
Crane use	Indoor	
Crane group	FEM A5	
Hoist group	M4(FEM 1Am)	
Hoist traversing group	M5(FEM 2m)	
Bridge traveling group	M5(FEM 2m)	
Hoisting speed	2.5/0.4	2-speed
Trolley traversing speed	0-20 m/min	Stepless
Bridge traveling speed	0-32 m/min	Stepless
Dynamic coefficient for load	1.17	
Dynamic coefficient dead load	1.1	
Sideways pull factor	N/A	
Crane acceleration	0.12m/s ²	
Weight of crane (with hoists)	23189 kg	
Weight of crane bridge (without hoists)	21250 kg	
Weight of one hoist and trolley	1939 kg	
Weight of one end carriage	678 kg	
Weight of one crane traveling machinery	20 kg	
Weight of bridge panel	50kg	
Weight of one main girder	8516 kg	
Weight of crane service platform	1988 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	20.7kW
Maximum current of crane*)	N/A
Nominal current of crane*)	48.2Ass
Power factor at starting current	0.67
Power factor at nominal current	0.91
Voltage drop of trolley power supply	<= 2%
Voltage drop of crane power supply	N/A