



Calculation number: Cal_KS2t-4.5-9.5m
Crane work number: KS2t x4.5m Hol:9.5m
User/Version: RUSAT/ 4.0.37
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CRANE DATA

1 General

Crane typeKS2t x4.5m Hol:9.5m
Span4.5m
Crane load (SWL)2000kg
Number of hoists1 ps
Hoisting height9.5m (max9.5m)
Hoist type.....K2104L0020M609DD01N
Trolley rail gauge.....N/A
Crane useIndoor

Crane group.....FEM A5
Hoist groupM6(FEM 3m)
Hoist traversing groupM5(FEM 2m)
Bridge traveling groupM5(FEM 2m)

Hoisting speed5/0.8 2-speed
Trolley traversing speed0-20 m/min Stepless
Bridge traveling speed0-32 m/min Stepless

Dynamic coefficient for load1.19
Dynamic coefficient dead load1.1
Sideways pull factorN/A
Crane acceleration0.13m/s²

Weight of crane (with hoists)1134 kg
Weight of crane bridge (without hoists)872 kg
Weight of one hoist and trolley262 kg
Weight of one end carriage108 kg
Weight of one crane traveling machinery14 kg
Weight of bridge panel50kg
Weight of one main girder393 kg
Weight of crane service platformN/A

Main girder type (Box)300/410/6/12/6/6-Q235
Service platform typeN/A
Surface preparation typeSa2.5
Painting typeEpoxy

2 Electrical

Main voltage380V/50Hz
Control voltage48AC
Nominal power of crane2.75kW
Maximum current of crane*)N/A
Nominal current of crane*)8.7Ass
Power factor at starting current0.8
Power factor at nominal current0.78
Voltage drop of trolley power supply<= 2%
Voltage drop of crane power supplyN/A