



Calculation number: Cal_KD12.5t-16.5-12m
Crane work number: KD12.5t x16.5m Hol:12m
User/Version: RUSAT/ 4.0.39D
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CRANE DATA

1 General

Crane typeKD12.5t x16.5m Hol:12m
Span 16.5m
Crane load (SWL) 12500kg
Number of hoists 1 ps
Hoisting height 12m (max12m)
Hoist type.....H4104D0125M412CD05N
Trolley rail gauge2000mm
Crane useIndoor

Crane group.....FEM A5
Hoist groupM4(FEM 1Am)
Hoist traversing groupM5(FEM 2m)
Bridge traveling groupM5(FEM 2m)

Hoisting speed4/0.7 2-speed
Trolley traversing speed0-20 m/min Stepless
Bridge traveling speed0-32 m/min Stepless

Dynamic coefficient for load1.18
Dynamic coefficient dead load1.1
Sideways pull factorN/A
Crane acceleration0.12m/s²

Weight of crane (with hoists)8701 kg
Weight of crane bridge (without hoists)7663 kg
Weight of one hoist and trolley 1038 kg
Weight of one end carriage.....351 kg
Weight of one crane traveling machinery20 kg
Weight of bridge panel50kg
Weight of one main girder2631 kg
Weight of crane service platform 1171 kg

Main girder type (Box)410/740/6/8/6/10-Q235
Service platform typeBottom joint
Surface preparation typeSa2.5
Painting typeEpoxy

2 Electrical

Main voltage380V/50Hz
Control voltage48AC
Nominal power of crane 15.6kW
Maximum current of crane*)N/A
Nominal current of crane*)39.8Ass
Power factor at starting current0.77
Power factor at nominal current0.93
Voltage drop of trolley power supply<= 2%
Voltage drop of crane power supplyN/A