



Calculation number: Cal_KD10t-19.5-12m
 Crane work number: KD10t x19.5m Hol:12m
 User/Version: RUSAT/ 4.0.39D
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CRANE DATA

1 General

Crane typeKD10t x19.5m Hol:12m
 Span 19.5m
 Crane load (SWL) 10000kg
 Number of hoists 1 ps
 Hoisting height 12m (max12m)
 Hoist typeH4104D0100M512CD05N
 Trolley rail gauge 1700mm
 Crane useIndoor

Crane groupFEM A5
 Hoist groupM5(FEM 2m)
 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 load 1.18
 Dynamic coefficient dead load 1.1
 Sideways pull factorN/A
 Crane acceleration0.12m/s²

Weight of crane (with hoists) 10246 kg
 Weight of crane bridge (without hoists) 9315 kg
 Weight of one hoist and trolley 931 kg
 Weight of one end carriage 315 kg
 Weight of one crane traveling machinery 20 kg
 Weight of bridge panel 50kg
 Weight of one main girder 3346 kg
 Weight of crane service platform 1384 kg

Main girder type (Box)410/860/6/8/6/8-Q235
 Service platform typeBottom joint
 Surface preparation typeSa2.5
 Painting typeEpoxy

2 Electrical

Main voltage380V/50Hz
 Control voltage48AC
 Nominal power of crane 12.5kW
 Maximum current of crane*)N/A
 Nominal current of crane*)30.2Ass
 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