



Calculation number: Cal_KD20t-19.5-12m
 Crane work number: KD20t x19.5m Hol:12m
 User/Version: RUSAT/ 4.0.39D
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CRANE DATA

1 General

Crane typeKD20t x19.5m Hol:12m
 Span 19.5m
 Crane load (SWL)20000kg
 Number of hoists 1 ps
 Hoisting height 12m (max12m)
 Hoist type.....K5104D0200M412CD06N
 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 acceleration0.13m/s²

Weight of crane (with hoists)12967 kg
 Weight of crane bridge (without hoists)11422 kg
 Weight of one hoist and trolley1545 kg
 Weight of one end carriage.....719 kg
 Weight of one crane traveling machinery20 kg
 Weight of bridge panel50kg
 Weight of one main girder3976 kg
 Weight of crane service platform1384 kg

Main girder type (Box)410/1080/6/8/6/8-Q235
 Service platform typeBottom joint
 Surface preparation typeSa2.5
 Painting typeEpoxy

2 Electrical

Main voltage380V/50Hz
 Control voltage48AC
 Nominal power of crane 18.9kW
 Maximum current of crane*)N/A
 Nominal current of crane*)44.6Ass
 Power factor at starting current0.67
 Power factor at nominal current0.91
 Voltage drop of trolley power supply<= 2%
 Voltage drop of crane power supplyN/A