



Calculation number: Cal_KD80t-16.5-12m
 Crane work number: KD80t x16.5m Hol:12m
 User/Version: RUSAT/ 4.0.39D
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CRANE DATA

1 General

Crane typeKD80t x16.5m Hol:12m
 Span 16.5m
 Crane load (SWL)80000kg
 Number of hoists 1 ps
 Hoisting height 12m (max14m)
 Hoist type.....K6208D0800M414AD06N
 Trolley rail gauge3800mm
 Crane useIndoor

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

Hoisting speed2/0.3 2-speed
 Trolley traversing speed0-20 m/min Stepless
 Bridge traveling speed0-32 m/min Stepless

Dynamic coefficient for load 1.17
 Dynamic coefficient dead load 1.1
 Sideways pull factorN/A
 Crane acceleration0.13m/s²

Weight of crane (with hoists)21739 kg
 Weight of crane bridge (without hoists) 17209 kg
 Weight of one hoist and trolley4530 kg
 Weight of one end carriage 1531 kg
 Weight of one crane traveling machinery38 kg
 Weight of bridge panel50kg
 Weight of one main girder6168 kg
 Weight of crane service platform 1171 kg

Main girder type (Box)490/1230/8/20/8/20-Q235
 Service platform typeBottom joint
 Surface preparation typeSa2.5
 Painting typeEpoxy

2 Electrical

Main voltage380V/50Hz
 Control voltage48AC
 Nominal power of crane43.2kW
 Maximum current of crane*)N/A
 Nominal current of crane*) 105.4Ass
 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