



Calculation number: Cal_KD20t-13.5-12m
 Crane work number: KD20t x13.5m Hol:12m
 User/Version: RUSAT/ 4.0.39D
 Printing date: 2024/02/15
 Printing time: 20:11

CRANE DATA

1 General

Crane typeKD20t x13.5m Hol:12m
 Span 13.5m
 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 acceleration0.11m/s²

Weight of crane (with hoists)8534 kg
 Weight of crane bridge (without hoists)6989 kg
 Weight of one hoist and trolley 1545 kg
 Weight of one end carriage.....608 kg
 Weight of one crane traveling machinery20 kg
 Weight of bridge panel50kg
 Weight of one main girder2183 kg
 Weight of crane service platform958 kg

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

2 Electrical

Main voltage380V/50Hz
 Control voltage48AC
 Nominal power of crane 18.5kW
 Maximum current of crane*)N/A
 Nominal current of crane*)42.2Ass
 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