



Calculation number: Cal_KD25t-22.5-12m
 Crane work number: KD25t x22.5m Hol:12m
 User/Version: RUSAT/ 4.0.39D
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CRANE DATA

1 General

Crane typeKD25t x22.5m Hol:12m
 Span22.5m
 Crane load (SWL)25000kg
 Number of hoists1 ps
 Hoisting height12m (max12m)
 Hoist type.....K5106D0250M512AD06N
 Trolley rail gauge2400mm
 Crane useIndoor

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

Hoisting speed2.5/0.4 2-speed
 Trolley traversing speed0-20 m/min Stepless
 Bridge traveling speed0-32 m/min Stepless

Dynamic coefficient for load1.17
 Dynamic coefficient dead load1.1
 Sideways pull factorN/A
 Crane acceleration0.12m/s²

Weight of crane (with hoists)15507 kg
 Weight of crane bridge (without hoists)13568 kg
 Weight of one hoist and trolley1939 kg
 Weight of one end carriage.....409 kg
 Weight of one crane traveling machinery20 kg
 Weight of bridge panel50kg
 Weight of one main girder5212 kg
 Weight of crane service platform1597 kg

Main girder type (Box)490/1230/6/8/6/8-Q235
 Service platform typeBottom joint
 Surface preparation typeSa2.5
 Painting typeEpoxy

2 Electrical

Main voltage380V/50Hz
 Control voltage48AC
 Nominal power of crane20.7kW
 Maximum current of crane*)N/A
 Nominal current of crane*)48.2Ass
 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