



Calculation number: Cal_KD50t-25-12m
 Crane work number: KD50t x25m Hol:12m
 User/Version: RUSAT/ 4.0.39D
 Printing date: 2024/02/15
 Printing time: 18:49

CRANE DATA

1 General

Crane typeKD50t x25m Hol:12m
 Span25m
 Crane load (SWL)50000kg
 Number of hoists1 ps
 Hoisting height12m (max12.6m)
 Hoist type.....K6206D0500M512AD06N
 Trolley rail gauge2700mm
 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 acceleration0.13m/s²

Weight of crane (with hoists)27423 kg
 Weight of crane bridge (without hoists)24260 kg
 Weight of one hoist and trolley3163 kg
 Weight of one end carriage.....899 kg
 Weight of one crane traveling machinery38 kg
 Weight of bridge panel50kg
 Weight of one main girder9911 kg
 Weight of crane service platform1775 kg

Main girder type (Box)490/1480/8/16/8/18-Q235
 Service platform typeSide 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