



Calculation number: Cal_KD63t-28-12m
Crane work number: KD63t x28m Hol:12m
User/Version: RUSAT/ 4.0.39D
Printing date: 2024/02/15
Printing time: 19:01

CRANE DATA

1 General

Crane typeKD63t x28m Hol:12m
Span28m
Crane load (SWL)63000kg
Number of hoists1 ps
Hoisting height12m (max14m)
Hoist type.....K6208D0630M514AD06N
Trolley rail gauge3800mm
Crane useIndoor

Crane groupFEM A5
Hoist groupM5(FEM 2m)
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 load1.17
Dynamic coefficient dead load1.1
Sideways pull factorN/A
Crane acceleration0.13m/s²

Weight of crane (with hoists)34737 kg
Weight of crane bridge (without hoists)30207 kg
Weight of one hoist and trolley4530 kg
Weight of one end carriage1558 kg
Weight of one crane traveling machinery38 kg
Weight of bridge panel50kg
Weight of one main girder12079 kg
Weight of crane service platform1988 kg

Main girder type (Box)610/1780/8/12/8/16-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