



Calculation number: Cal_KS5t-8-12m
Crane work number: KS5t x8m Hol:12m
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CRANE DATA

1 General

Crane typeKS5t x8m Hol:12m
Span8m
Crane load (SWL)5000kg
Number of hoists1 ps
Hoisting height12m (max12m)
Hoist type.....K3104L0050M512DD03N
Trolley rail gauge.....N/A
Crane useIndoor

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

Hoisting speed5/0.8 2-speed
Trolley traversing speed0-20 m/min Stepless
Bridge traveling speed0-32 m/min Stepless

Dynamic coefficient for load1.19
Dynamic coefficient dead load1.1
Sideways pull factorN/A
Crane acceleration0.13m/s²

Weight of crane (with hoists)1747 kg
Weight of crane bridge (without hoists)1360 kg
Weight of one hoist and trolley387 kg
Weight of one end carriage108 kg
Weight of one crane traveling machinery14 kg
Weight of bridge panel50kg
Weight of one main girder859 kg
Weight of crane service platformN/A

Main girder type (Box)300/410/6/20/6/6-Q235
Service platform typeN/A
Surface preparation typeSa2.5
Painting typeEpoxy

2 Electrical

Main voltage380V/50Hz
Control voltage48AC
Nominal power of crane6.25kW
Maximum current of crane*)N/A
Nominal current of crane*)14.5Ass
Power factor at starting current0.84
Power factor at nominal current0.93
Voltage drop of trolley power supply<= 2%
Voltage drop of crane power supplyN/A