



Calculation number: Cal\_KD40t-28-12m  
Crane work number: KD40t x28m Hol:12m  
User/Version: 18:08  
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## CRANE DATA

### 1 General

Crane type .....KD40t x28m Hol:12m  
Span .....28m  
Crane load (SWL) .....40000kg  
Number of hoists .....1 ps  
Hoisting height .....12m (max14m)  
Hoist type.....K6204D0400M414CD06N  
Trolley rail gauge .....2700mm  
Crane use .....Indoor

Crane group.....FEM A5  
Hoist group .....M4(FEM 1Am )  
Hoist traversing group .....M5(FEM 2m)  
Bridge traveling group .....M5(FEM 2m)

Hoisting speed .....4/0.7 2-speed  
Trolley traversing speed .....0-20 m/min Stepless  
Bridge traveling speed .....0-32 m/min Stepless

Dynamic coefficient for load .....1.18  
Dynamic coefficient dead load .....1.1  
Sideways pull factor .....N/A  
Crane acceleration .....0.13m/s<sup>2</sup>

Weight of crane (with hoists) .....28850 kg  
Weight of crane bridge (without hoists) .....26136 kg  
Weight of one hoist and trolley .....2714 kg  
Weight of one end carriage.....908 kg  
Weight of one crane traveling machinery .....38 kg  
Weight of bridge panel .....50kg  
Weight of one main girder .....10693 kg  
Weight of crane service platform .....1988 kg

Main girder type (Box) .....610/1480/6/16/6/20-Q235  
Service platform type .....Side joint  
Surface preparation type .....Sa2.5  
Painting type .....Epoxy

### 2 Electrical

Main voltage .....380V/50Hz  
Control voltage .....48AC  
Nominal power of crane .....41kW  
Maximum current of crane\*) .....N/A  
Nominal current of crane\*) .....97.6Ass  
Power factor at starting current .....0.67  
Power factor at nominal current .....0.91  
Voltage drop of trolley power supply .....<= 2%  
Voltage drop of crane power supply .....N/A