



ABSTRAC

Maximal lifting capacities of this tower crane equal to 6 tons with distance 8,5 metres from the mast. Maximal height of lifting is 37 metres with maximal reach length equal to 45 metres. To take care of stability of crane is attached counterweight at counterjib. The heavy of counterweight burden is 7,5 tons with arm length 13 metres.

Speed of lifting is 30 m / mnt and speed of trolley is equal to 55 m / mnt. Rotation speed for movement to turn around is equal to 2 rpm. Activator which is used in this movement mechanism is by using the speed and electromotor of reduced with gear transmission system at lifting mechanism and horizontal movement. While at movement mechanism turn around to be used by transmission of v belt and gear with last discount unit in the form of planet gear.

Calculation of structure construction using Structural Analysis Program (SAP) 2000 version 8.08. Analysis calculation is encumbering 6 tons at reach 8,5 metres.