



MODEL SPM-200*9 TELESCOPIC

MAST OPERATION MANUAL

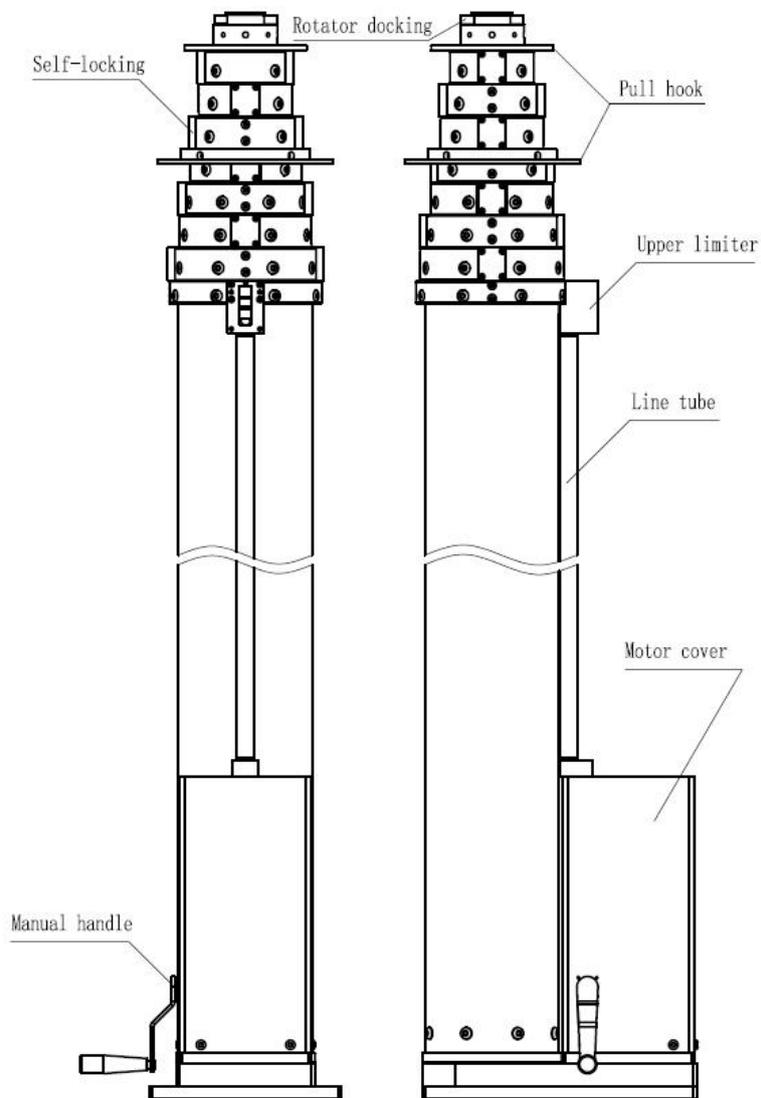


Figure 1

1>Operator must read this manual before operation , all mishandling and not read before using the mast is not subjected to the liability of TIANHEMAST LIMITED (TIANHE TELESCOPIC MAST FACTORY)

2> SPM-200*9 TELESCOPIC MAST Brief Technical Indicates:

- 1、 Retracted height: 3m
- 2、 Extended height: 20m
- 3、 No of section :9
- 4、 Guy rope stages :2 level
- 5、 Elevation speed: $\approx 28\text{mm/s}$
- 6、 Vertical load capacity: $\leq 60\text{kgs}$
- 7、 Way of operation: Manual/Electric
- 8、 Power supply: 24volt DC

3> Steps to Operate the Mast

- 1、 Before using the mast , the mast should be installed upright on the base and screwed to the mounting hole of the solid chassis whether it is vehicle or ground. Adjust the mast vertically to ensure that the mast is perpendicular to the horizontal position.
- 2、 Make sure that the load objects (rotator and antenna) is securely fasten or bolted to the mast

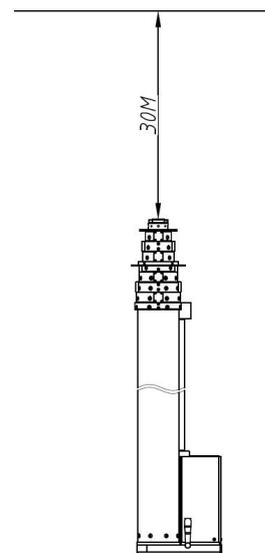


Figure 2

top section platform in order not to fall down or drop the object to cause major injury.

- 3、 Make sure that the spaces 25 meters above the mast installation place is clear without electricity lines or bridges etc (Figure 2)
- 4、 With the radius of the mast as the center radius equal to 6.5-7 meters, find an average of 3 or 4 (Ffigure 3) equal parts, insert the ground nail into the soil at the appropriate position on the ground, and hook the end of the belt take-up to the upper

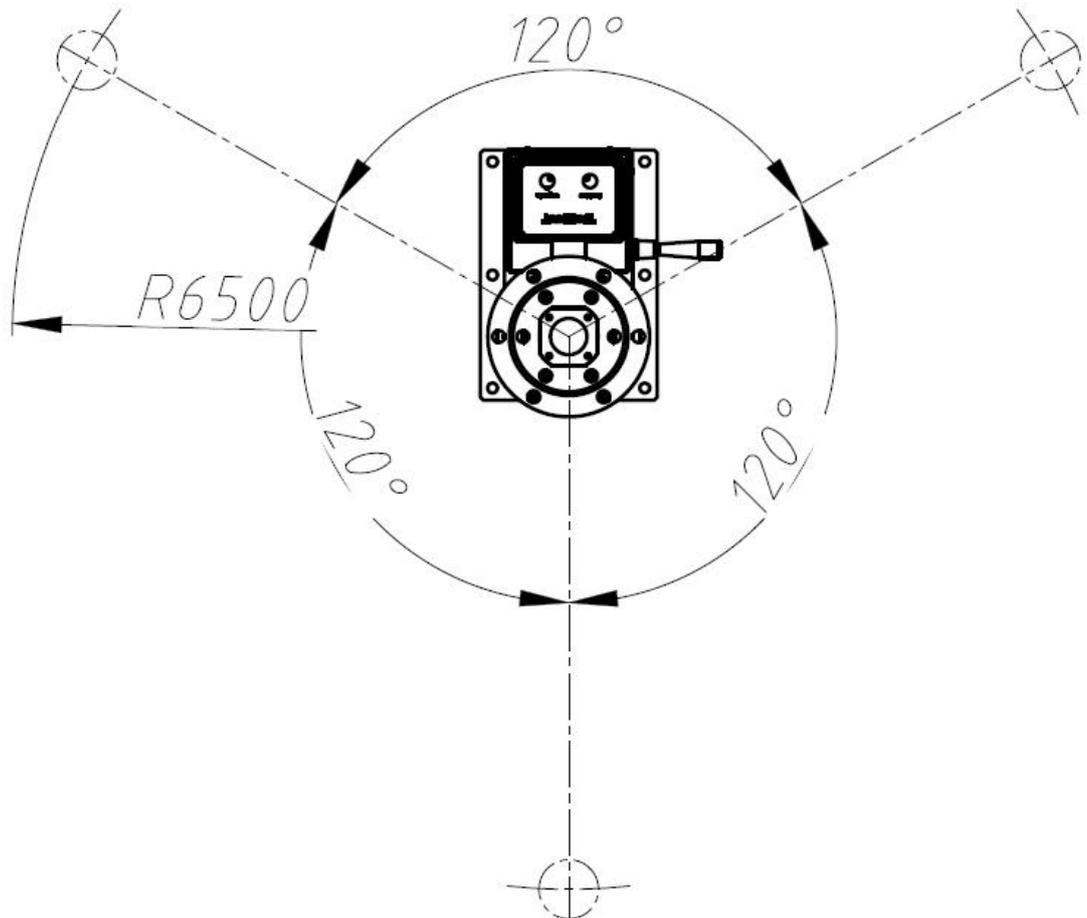


Figure 3

- 5、 end of the ground nail. Inside the ring, fasten the other end of the drawstring into the corresponding lock hole of the cable tray at the upper end of the mast to ensure correct and reliable connection between the two ends of the drawstring between the

ground nail and the mast.

- 6、 When ready, connect the DC24V power supply correctly (the red cable on the mast is connected to the positive pole and the blue is connected to the negative pole). **Note: It is forbidden to connect the positive and negative cable reversed .**

- 7、 Hold the remote control (Figure 4) ,pull out the antenna, press “△” in the remote control mast will go up . Press “□” mast will stop. Press “ ▽ ” mast will going down.

Figure 4



Note: Do not click the down button on the remote control

while the mast is rising. To lower the mast, you should first press the stop button and wait for the mast to stop moving before you click the down button on the remote control.

- 8、 The mast is fully raised to the desired height and locked. Immediately tighten the guy rope. Make sure that each guy rope has a certain pulling force on the mast, improve the stability and bending resistance of the mast, and strengthen the wind resistance of the mast. Note: The pulling force of the guy rope should be adjusted according to the direction of the tilt of the mast to adjust its proper pulling force. The tensioned mast is re-adjusted vertically by the pulling force of the guy rope to keep the mast

perpendicular to the horizontal position. (Figure5)

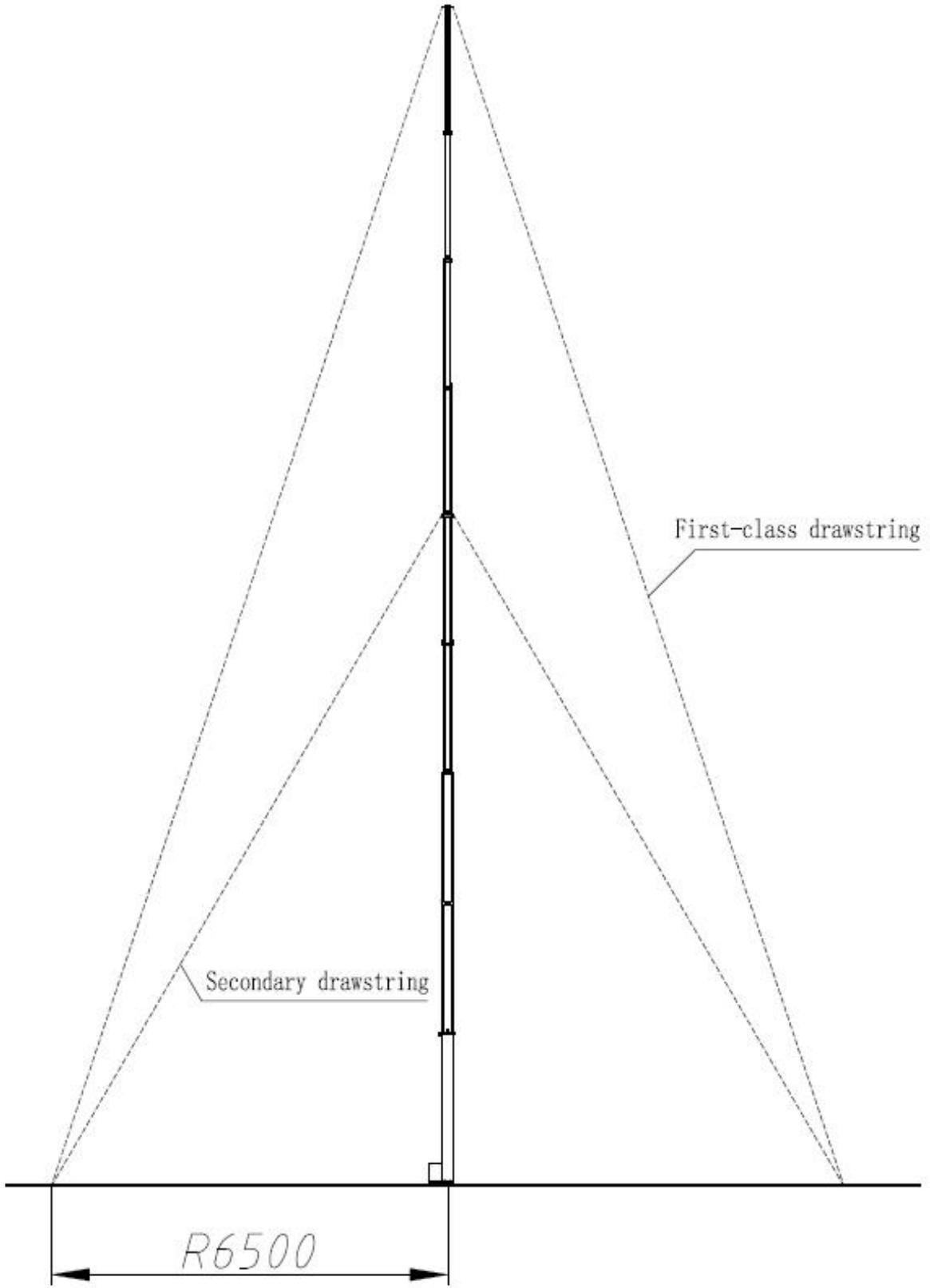


Figure 5

4>Manually operation without electricity

- 1、 Press the emergency button before manually operation
- 2、 Open and unscrew the black plastic socket beside the motor case
- 3、 Insert the manual handle into the right position and you can up and down the mast

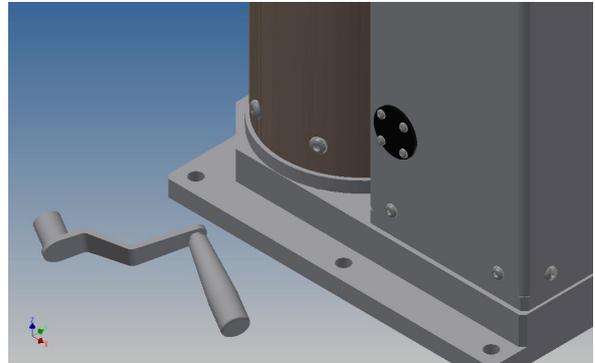


Figure 6

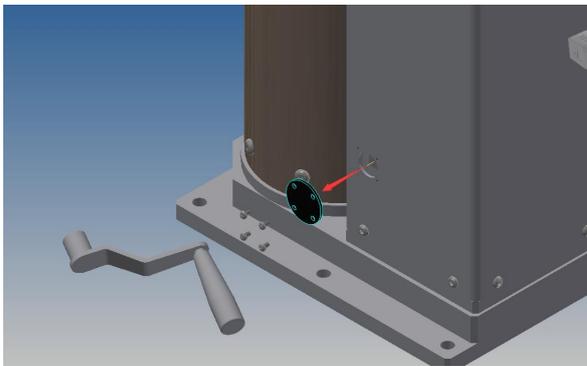


Figure 7

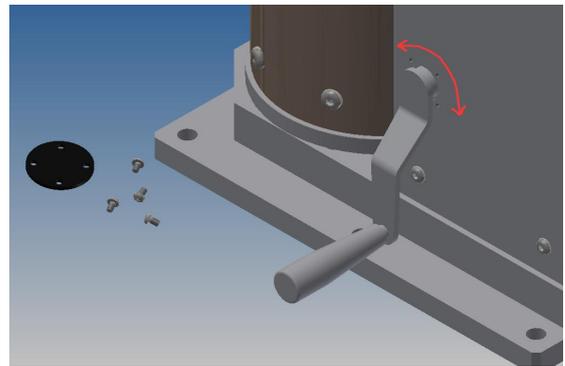


Figure 8

5> Safe operation and precautions

- 1、 It is strictly forbidden for people stand within the radius of 15 meters to the center of mast when mast is extending or retracting.
- 2、 Operation during windy or hurricane day is prohibited
- 3、 When after heavy rain, we have to connect the drain valve to guide the water out of the mast to prevent the water accumulated inside the mast tube to hurt the electric parts .