

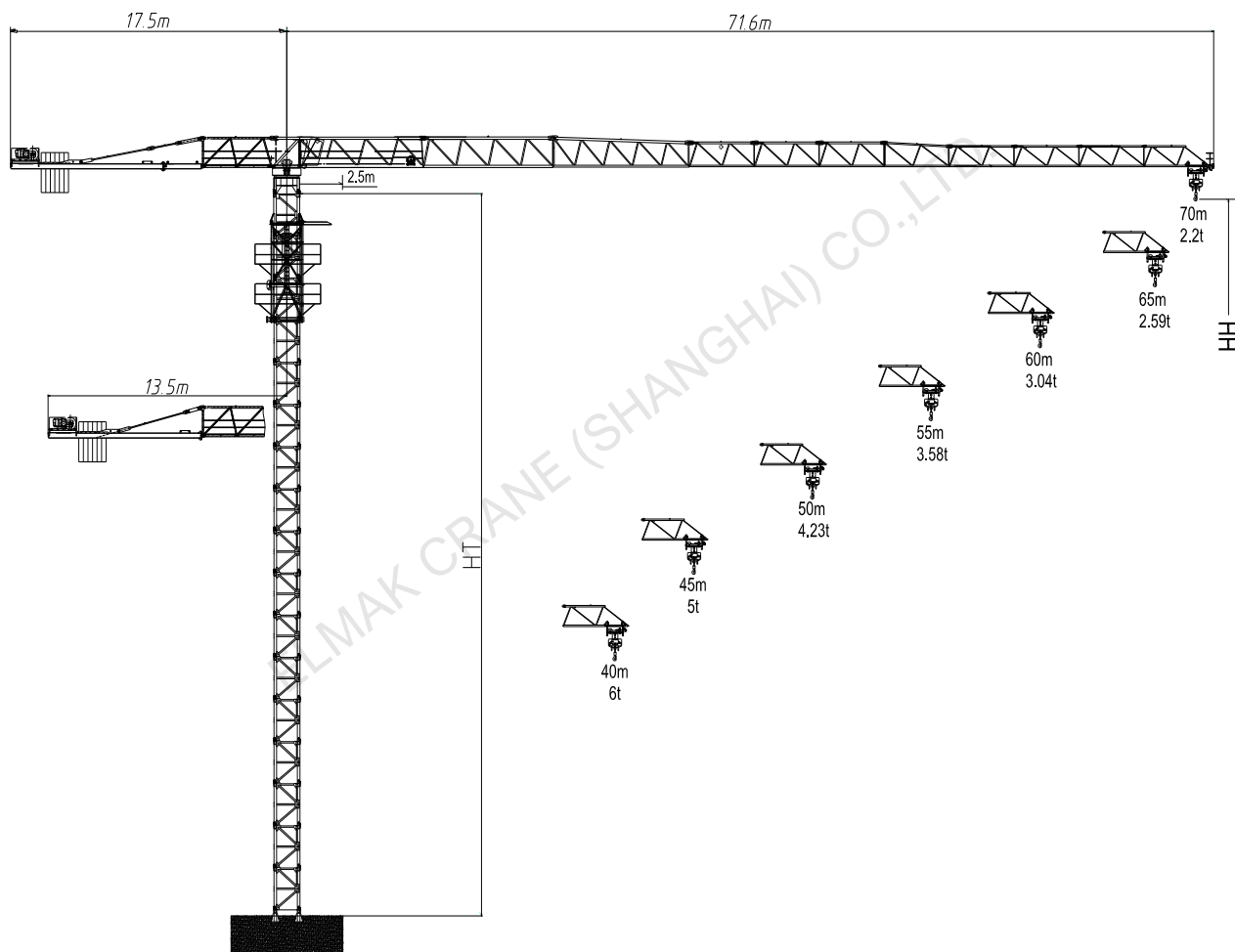
# ELMAK<sup>®</sup>

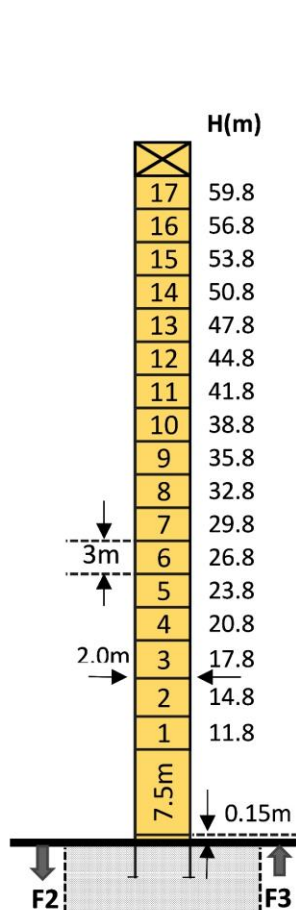
ELMAK CRANE (SHANGHAI) CO.,LTD.

## TOPLESS TOWER CRANE

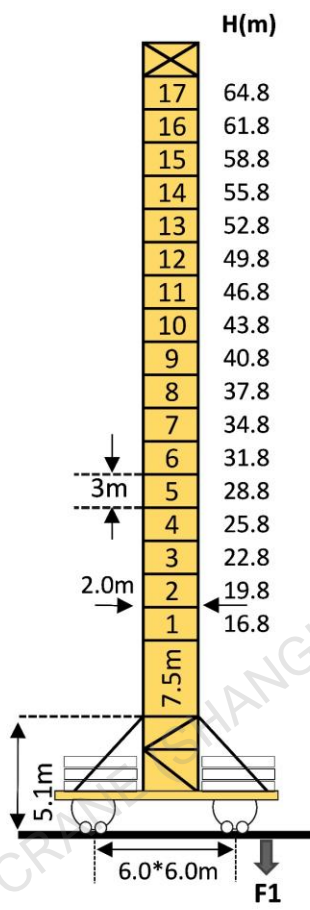
[www.elmaktowercrane.com](http://www.elmaktowercrane.com)

EMT7020-10

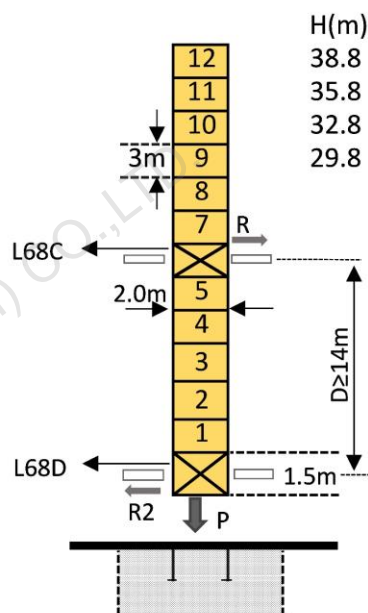


**Mast-Reaction**


|           | ●      | ■      |
|-----------|--------|--------|
| <b>F2</b> | 148.0t | 205.0t |
| <b>F3</b> | 98.0t  | 161.0t |
| ⊿         | 88.8t  |        |

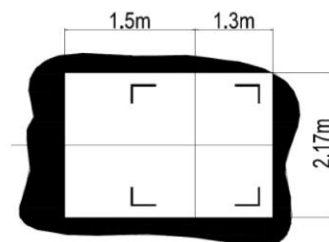


|           | ●      | ■      |
|-----------|--------|--------|
| <b>F1</b> | 105.0t | 138.0t |
| ⊿         | 102.0t |        |



| Amin  | Rmax  | Pmax    |
|-------|-------|---------|
| 14.0m | 28.0t | 83.2.0t |

- ⊿ Total weight of free standing height(exclude counter weight ballast)  
 ● In service      ■ Out of service      F Reactions

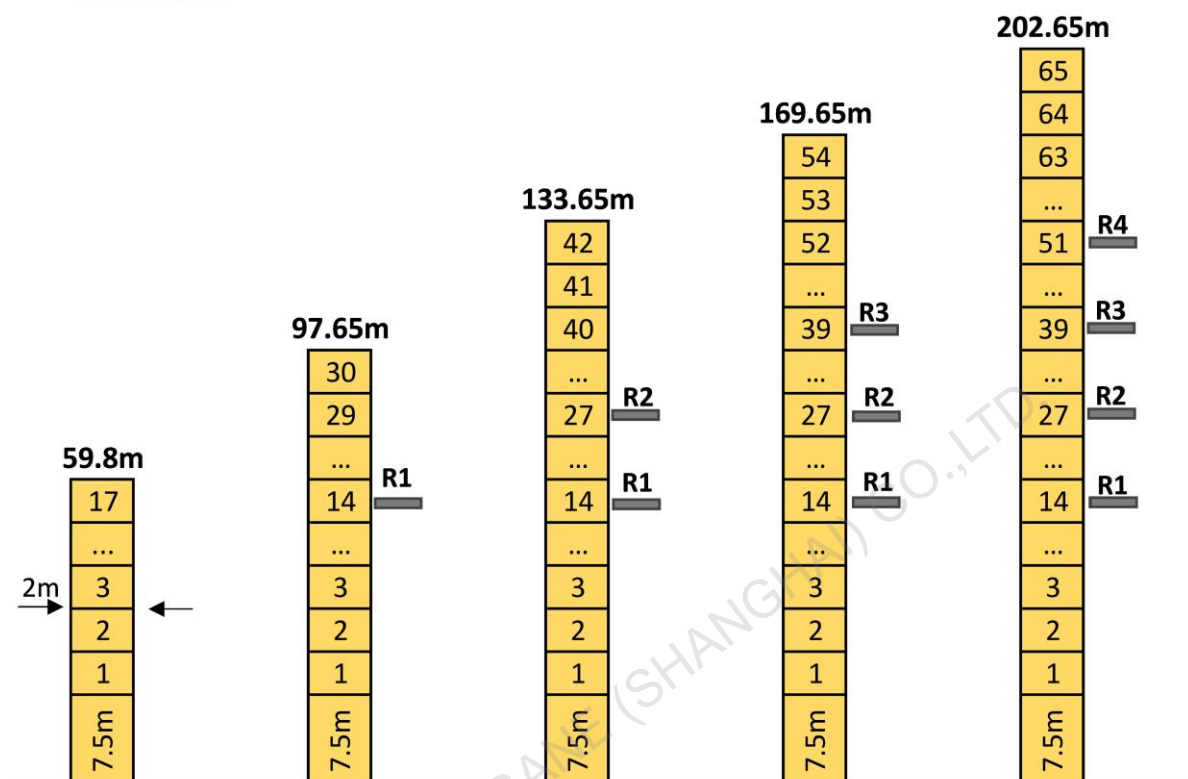


**Loading Diagrams**

|                                                                                     | Fall                                                                                | R(Cmax)<br>m | C(max)<br>t | 20.0  | 25.0  | 30.0  | 35.0 | 40.0 | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|-------------|-------|-------|-------|------|------|------|------|------|------|------|------|
| <b>70m</b>                                                                          |    | 19.06        | 10.00       | 10.00 | 7.74  | 6.25  | 5.19 | 4.39 | 3.77 | 3.28 | 2.87 | 2.53 | 2.25 | 2.00 |
|    | 35.58                                                                               | 5.00         | 5.00        | 5.00  | 5.00  | 5.00  | 5.00 | 4.59 | 3.97 | 3.48 | 3.07 | 2.73 | 2.45 | 2.20 |
| <b>65m</b>                                                                          |    | 21.87        | 10.00       | 10.00 | 8.12  | 6.57  | 5.46 | 4.63 | 3.98 | 3.46 | 3.06 | 2.69 | 2.39 |      |
|    | 40.67                                                                               | 5.00         | 5.00        | 5.00  | 5.00  | 5.00  | 5.00 | 4.83 | 4.18 | 3.66 | 3.24 | 2.89 | 2.59 |      |
| <b>60m</b>                                                                          |    | 23.27        | 10.00       | 10.00 | 8.49  | 6.88  | 5.73 | 4.86 | 4.19 | 3.65 | 3.21 | 2.84 |      |      |
|    | 43.62                                                                               | 5.00         | 5.00        | 5.00  | 5.00  | 5.00  | 5.00 | 4.39 | 3.85 | 3.41 | 3.04 |      |      |      |
| <b>55m</b>                                                                          |    | 24.68        | 10.00       | 10.00 | 8.87  | 7.19  | 5.99 | 5.10 | 4.40 | 3.84 | 3.38 |      |      |      |
|    | 46.53                                                                               | 5.00         | 5.00        | 5.00  | 5.00  | 5.00  | 5.00 | 5.00 | 5.00 | 4.04 | 3.58 |      |      |      |
| <b>50m</b>                                                                          |    | 26.18        | 10.00       | 10.00 | 10.00 | 7.50  | 6.26 | 5.33 | 4.61 | 4.03 |      |      |      |      |
|    | 49.57                                                                               | 5.00         | 5.00        | 5.00  | 5.00  | 5.00  | 5.00 | 5.00 | 5.00 | 4.23 |      |      |      |      |
| <b>45m</b>                                                                          |    | 27.56        | 10.00       | 10.00 | 10.00 | 7.82  | 6.53 | 5.57 | 4.81 |      |      |      |      |      |
|   | 45.00                                                                               | 5.00         | 5.00        | 5.00  | 5.00  | 5.00  | 5.00 | 5.00 | 5.00 |      |      |      |      |      |
| <b>40m</b>                                                                          |  | 28.85        | 10.00       | 10.00 | 10.00 | 8.13  | 6.80 | 5.80 |      |      |      |      |      |      |
|  | 40.00                                                                               | 5.00         | 5.00        | 5.00  | 5.00  | 5.00  | 5.00 | 5.00 |      |      |      |      |      |      |
| <b>35m</b>                                                                          |  | 30.61        | 10.00       | 10.00 | 10.00 | 10.00 | 8.60 |      |      |      |      |      |      |      |
|  | 35.00                                                                               | 5.00         | 5.00        | 5.00  | 5.00  | 5.00  | 5.00 |      |      |      |      |      |      |      |
| <b>30m</b>                                                                          |  | 30.00        | 10.00       | 10.00 | 10.00 | 10.00 |      |      |      |      |      |      |      |      |
|  | 30.00                                                                               | 5.00         | 5.00        | 5.00  | 5.00  | 5.00  |      |      |      |      |      |      |      |      |

**Counter Weight(t)**

| Counter Weight(t)    |          |       |       |       |       |       |       |       |       |       |
|----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Jib Length(m)        |          | 30    | 35    | 40    | 45    | 50    | 55    | 60    | 65    | 70    |
| Type of ballast      | A(2.37t) | 5A    | 6A    | 5A+B  | 4A+2B | 7A    | 6A+B  | 5A+B  | 8A    | 8A    |
|                      | B(3.20t) |       |       |       |       |       |       |       |       |       |
| Weight of ballast(t) |          | 11.85 | 14.22 | 15.05 | 15.88 | 16.59 | 17.42 | 18.25 | 18.96 | 18.96 |

**Anchorage**
**Mast :L68B2**

**Mechanisms**

| Items                                                                        | Mechanisms | Speed/Hoist weight                                                                  |      |                                                                                     |       | Rope Capacity | Motor(KW)  |
|------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-------|---------------|------------|
|                                                                              |            | M/min                                                                               | t    | M/min                                                                               | t     |               |            |
| Hoisting                                                                     | 60LVF25    |  |      |  |       | 600m          | 45         |
|                                                                              |            | 0-45                                                                                | 5.00 | 0-22.5                                                                              | 10.00 |               |            |
|                                                                              |            | 0-90                                                                                | 2.50 | 0-45                                                                                | 5.00  |               |            |
| Trolley                                                                      | 5D3V4      | 0-58m/min                                                                           |      |                                                                                     |       |               | 3.7        |
| Slewing                                                                      | RCV145     | 0-0.88rpm                                                                           |      |                                                                                     |       |               | 25.6       |
| Traveling                                                                    | RT443      | 12-24m/min                                                                          |      |                                                                                     |       |               | 4*3.14/1.7 |
| Power supply : 380V 50Hz/ 440V 60Hz                                          |            |                                                                                     |      | Necessary Power: 85KVA                                                              |       |               |            |
| Main electrical components: Schneider (Frequency converter, Contactor,Relay) |            |                                                                                     |      |                                                                                     |       |               |            |