

QY16C汽车起重机  
QY16C TRUCK CRANE

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# 技术参数 TECHNICAL SPECIFICATIONS

|                                                                                     |                                                               |                    |          |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------|----------|
|    | 尺寸参数 Dimensions                                               | Unit               |          |
|                                                                                     | 整机全长 Overall length                                           | mm                 | 11990    |
|                                                                                     | 整机全宽 Overall width                                            | mm                 | 2500     |
|                                                                                     | 整机全高 Overall height                                           | mm                 | 3350     |
|    | 重量参数 Weight                                                   |                    |          |
|                                                                                     | 行驶状态整机质量 Dead weight in travel state                          | kg                 | 22900    |
|                                                                                     | 前轴轴荷 Front axle load                                          | kg                 | 5240     |
|                                                                                     | 后轴轴荷 Rear axle load                                           | kg                 | 17660    |
|    | 动力参数 Power                                                    |                    |          |
|                                                                                     | 发动机型号 Engine model                                            | 上柴SC8DK230Q3(国III) |          |
|                                                                                     | 发动机额定功率 Engine rated output                                   | kW/(r/min)         | 170/2200 |
|                                                                                     | 发动机额定扭矩 Engine rated torque                                   | N.m/(r/min)        | 830/1400 |
|    | 行驶参数 Travel                                                   |                    |          |
|                                                                                     | 最高行驶速度 Max.travel speed                                       | km/h               | 70       |
|                                                                                     | 最小转弯直径 Min.turning diameter                                   | mm                 | 20000    |
|                                                                                     | 最小离地间隙 Min.ground clearance                                   | mm                 | 270      |
|                                                                                     | 接近角 Approach angle                                            | °                  | 21       |
|                                                                                     | 离去角 Departure angle                                           | °                  | 10       |
|                                                                                     | 最大爬坡能力 Max.gradeability                                       | %                  | 24       |
|                                                                                     | 百公里油耗 Fuel consumption of 100km                               | L                  | ~35      |
|  | 主要性能参数 Lifting performance                                    |                    |          |
|                                                                                     | 最大额定总起重量 Max.total rated lifting load                         | t                  | 16       |
|                                                                                     | 最小额定幅度 Min.rated working radius                               | m                  | 3        |
|                                                                                     | 转台尾部回转半径 Turning radius at swing tadble tail                  | m                  | 3.12     |
|                                                                                     | 最大起重力矩 Max.load moment                                        | KN.m               | 738      |
|                                                                                     | 基本臂 Base boom                                                 | m                  | 9.9      |
|                                                                                     | 最长主臂 Full-extend boom                                         | m                  | 23.6     |
|                                                                                     | 最长主臂+副臂 Full-extend boom+Jib                                  | m                  | 30.6     |
|                                                                                     | 支腿纵向距离 Outrigger longitudinal distance span                   | m                  | 4.6      |
|                                                                                     | 支腿横向距离 Outrigger lateral distance span                        | m                  | 5.4      |
|  | 工作速度参数 Working speed                                          |                    |          |
|                                                                                     | 起重臂变幅时间 Boom elevating time                                   | s                  | 60       |
|                                                                                     | 起重臂全伸时间 Boom full elevating time                              | s                  | 75       |
|                                                                                     | 最大回转速度 Max.slewing speed                                      | r/min              | ≥2.5     |
|                                                                                     | 主起升机构满载/空载（单绳） Main winch with full/no load(single line)      | m/min              | 54/100   |
|                                                                                     | 副起升机构满载/空载（单绳） Auxiliary winch with full/no load(single line) | m/min              | 54/100   |

| <div> 主臂起重性能表</div> <div>Total rated lifting load for boom</div> |                                |                                  |                                 |                                  |                                 |                                  |                                 |                                  |                                |                                  |                                        |                                  |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|--------------------------------|----------------------------------|----------------------------------------|----------------------------------|------|
| 全伸支腿（侧方、后方作业） full-extend outrigger with boom at the side or the rear                                                                               |                                |                                  |                                 |                                  |                                 |                                  |                                 |                                  |                                |                                  |                                        |                                  |      |
| 工作幅度<br>Working<br>radius<br>m                                                                                                                      | 基本臂<br>Base boom<br>9.8m       |                                  | 中长臂<br>Mid-extend boom<br>13.4m |                                  | 中长臂<br>Mid-extend boom<br>16.9m |                                  | 中长臂<br>Mid-extend boom<br>20.5m |                                  | 全伸臂<br>Full-extend boom<br>24m |                                  | 主臂+副臂<br>Full-extend boom+Jib<br>24+7m |                                  |      |
|                                                                                                                                                     | 起重量<br>Lifting<br>Load<br>(kg) | 起升高度<br>Lifting<br>Height<br>(m) | 起重量<br>Lifting<br>Load<br>(kg)  | 起升高度<br>Lifting<br>Height<br>(m) | 起重量<br>Lifting<br>Load<br>(kg)  | 起升高度<br>Lifting<br>Height<br>(m) | 起重量<br>Lifting<br>Load<br>(kg)  | 起升高度<br>Lifting<br>Height<br>(m) | 起重量<br>Lifting<br>Load<br>(kg) | 起升高度<br>Lifting<br>Height<br>(m) | 起重量<br>Lifting<br>Load<br>(kg)         | 起升高度<br>Lifting<br>Height<br>(m) |      |
|                                                                                                                                                     |                                |                                  |                                 |                                  |                                 |                                  |                                 |                                  |                                |                                  |                                        |                                  |      |
| 3.0                                                                                                                                                 | 16000                          | 9.9                              |                                 |                                  |                                 |                                  |                                 |                                  |                                |                                  |                                        |                                  |      |
| 3.5                                                                                                                                                 | 16000                          | 9.6                              | 13500                           | 13.5                             |                                 |                                  |                                 |                                  |                                |                                  |                                        |                                  |      |
| 4.0                                                                                                                                                 | 16000                          | 9.3                              | 13500                           | 13.3                             |                                 |                                  |                                 |                                  |                                |                                  |                                        |                                  |      |
| 4.5                                                                                                                                                 | 15500                          | 9.0                              | 13500                           | 13.1                             | 11900                           | 16.9                             |                                 |                                  |                                |                                  |                                        |                                  |      |
| 5.0                                                                                                                                                 | 15000                          | 8.6                              | 12900                           | 12.9                             | 11100                           | 16.7                             |                                 |                                  |                                |                                  |                                        |                                  |      |
| 5.5                                                                                                                                                 | 13700                          | 8.2                              | 12100                           | 12.6                             | 10500                           | 16.5                             |                                 |                                  |                                |                                  |                                        |                                  |      |
| 6.0                                                                                                                                                 | 12100                          | 7.7                              | 11400                           | 12.3                             | 9800                            | 16.3                             | 8100                            | 20.2                             |                                |                                  |                                        |                                  |      |
| 7.0                                                                                                                                                 | 9200                           | 6.5                              | 9500                            | 11.6                             | 8700                            | 15.8                             | 7300                            | 19.8                             | 6000                           | 23.6                             |                                        |                                  |      |
| 8.0                                                                                                                                                 | 7400                           | 4.6                              | 7700                            | 10.8                             | 7800                            | 15.2                             | 6700                            | 19.3                             | 5600                           | 23.2                             |                                        |                                  |      |
| 9.0                                                                                                                                                 |                                |                                  | 6400                            | 9.8                              | 6500                            | 14.5                             | 6100                            | 18.8                             | 5200                           | 22.7                             | 2000                                   | 30.8                             |      |
| 10.0                                                                                                                                                |                                |                                  | 5300                            | 8.5                              | 5500                            | 13.7                             | 5500                            | 18.2                             | 4800                           | 22.2                             | 1900                                   | 30.5                             |      |
| 11.0                                                                                                                                                |                                |                                  | 4500                            | 6.7                              | 4700                            | 12.8                             | 4700                            | 17.5                             | 4200                           | 21.7                             | 1630                                   | 30.1                             |      |
| 12.0                                                                                                                                                |                                |                                  |                                 |                                  | 4000                            | 11.6                             | 4000                            | 16.7                             | 3700                           | 21.1                             | 1550                                   | 29.6                             |      |
| 14.0                                                                                                                                                |                                |                                  |                                 |                                  | 3000                            | 8.5                              | 3100                            | 14.8                             | 3200                           | 19.6                             | 1300                                   | 28.6                             |      |
| 16.0                                                                                                                                                |                                |                                  |                                 |                                  |                                 |                                  | 2400                            | 12.3                             | 2500                           | 17.8                             | 1060                                   | 27.4                             |      |
| 18.0                                                                                                                                                |                                |                                  |                                 |                                  |                                 |                                  | 1900                            | 8.4                              | 2000                           | 15.5                             | 830                                    | 26.0                             |      |
| 20.0                                                                                                                                                |                                |                                  |                                 |                                  |                                 |                                  |                                 |                                  | 1600                           | 12.4                             | 600                                    | 24.3                             |      |
| 22.0                                                                                                                                                |                                |                                  |                                 |                                  |                                 |                                  |                                 |                                  |                                |                                  |                                        | 370                              | 22.3 |
| 24.0                                                                                                                                                |                                |                                  |                                 |                                  |                                 |                                  |                                 |                                  |                                |                                  |                                        | 170                              | 19.8 |
| 吊钩重量<br>Weight of hook block                                                                                                                        |                                | 216kg                            |                                 |                                  |                                 |                                  |                                 |                                  |                                |                                  |                                        |                                  |      |
| 倍率<br>Parts of line                                                                                                                                 |                                | 6                                | 6                               | 5                                | 4                               | 3                                | 1                               |                                  |                                |                                  |                                        |                                  |      |

- 注：对表中起重量的说明
- 表中额定起重量所表示的数值，是在平整的坚固地面上本起重机能够保证的最大起重量。
  - 表中额定起重量包括吊钩和吊具的重量；
  - 表中的工作幅度是包括吊臂的变形量在内的实际值；应以工作幅度为依据进行起重作业，起升高度为参考值。
  - 主臂端部若装有副臂时，主吊钩起重量应将表中相应数值减少400kg。
  - 臂端单滑轮的起重性能用24m的主臂，但以2t为其上限。
  - 起重作业前，必须完全支好支腿。
  - 允许风力达6级以下的情况下作业
- Notes:
- The data in the table are the max.lifting capacity when the crane is set up on level and firm ground.
  - The total rated lifting load in the table includes weight of hook block and slings.
  - The working radius in the table is the actual value including boom deflection under load.So lifting operation should be performed according to the working radius,inreference of lifting height.
  - Lifting capacity of main hook block should be subtracted 400kg if the jib is mounted on the main boom head.
  - The lift capability of the single pulley at the top of the boom is same to the 24m main boom,but its top limit is 2t.
  - You must set up the legs safely before you begin to work.
  - permitting to work under the 6 grade wind.