

# ZOOMLION® QY70V

ZLJ5450JQZ70V

## All Hydraulic Truck Crane performance specification

- Superstructure electro-hydraulic proportion control has adopted PLC program control and CAN bus-connecting, thus can realize fault self-diagnose.
- By means of two sections outrigger beam, span is large and stability is excellent.
- Compared with the common engine, Steyr energy saving engine with large power can help to save ten percent of energy while vehicle is running in middle/lower speed.
- The Shanxi Fuller gear-box (with slope shift) can ensure excellent performance and stable & reliable transmission.
- The durable wire Ziwu tyre is adaptive for any evil travelling conditions with heavy-loaded.

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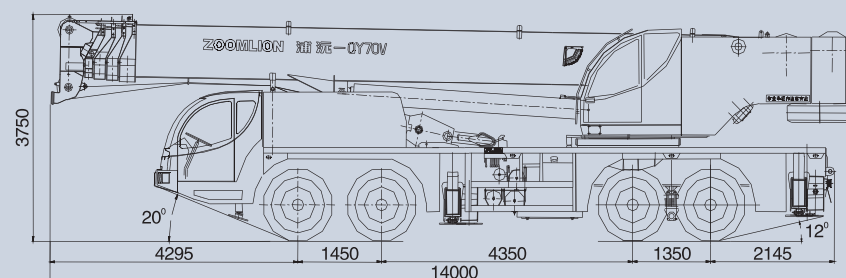
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**Table of Main Technical Performance and Specification**

|                                   |                                            |         |                          |
|-----------------------------------|--------------------------------------------|---------|--------------------------|
| Working performance specification | Max. rated lifting capacity                | Kg      | 70000                    |
|                                   | Max. lifting moment with basic boom length | kN.m    | 2352                     |
|                                   | Max. lifting moment with max. boom length  | kN.m    | 1098                     |
|                                   | Basic boom max. lifting height             | m       | 12.2                     |
|                                   | Boom max. lifting height                   | m       | 44.2                     |
|                                   | Jib max. lifting height                    | m       | 60.2                     |
| Working speed                     | Single line max. speed (main winch)        | m/min   | 120                      |
|                                   | Single line max. speed (auxiliary winch)   | m/min   | 68                       |
|                                   | Lifting boom elevating time                | s       | 57                       |
|                                   | Lifting boom extending time                | s       | 107                      |
|                                   | Slewing speed                              | r/min   | 1.6                      |
| Traveling specification           | Max. traveling speed                       | km/h    | 75                       |
|                                   | Max. gradeability                          | %       | 30                       |
|                                   | Min. turning radius                        | m       | 12                       |
|                                   | Min. clearance                             | mm      | 260                      |
|                                   | Exhaust displacement                       | FSN     | ≤2.5                     |
| Mass specification                | Oil consumption/per 100 kilometers         | L       | 58                       |
|                                   | Self-weight in traveling condition (gross) | kg      | 45000                    |
|                                   | Complete vehicle kerb mass                 | kg      | 44870                    |
|                                   | Rear axle load                             | kg      | 19000                    |
| Dimension specification           | Tandem & rear axle load                    | kg      | 26000                    |
|                                   | Overall dimensions(L × W × H)              | mm      | 14000x2750x3750          |
|                                   | Outrigger longitudinal span                | m       | 6.00                     |
|                                   | Outrigger transversal span                 | m       | 7.60                     |
|                                   | Boom length                                | m       | 11.6~44.0                |
|                                   | Boom angle                                 | °       | -2~80                    |
|                                   | Jib length                                 | m       | 9.5~16                   |
| Chassis                           | Jib offset                                 | °       | 0, 30                    |
|                                   | Type                                       |         | ZLJ5451                  |
|                                   | Engine Type                                |         | WD615.46                 |
|                                   | Rated power                                | kw/rpm  | 266/2200                 |
|                                   | Rated output torque power                  | N.m/rpm | 1460/1300 ~ 1600         |
|                                   | Manufacturer                               |         | Puyuan company, Zoomlion |
|                                   | Hydraulic oil brand                        |         | L-HV32                   |

### More choices which can satisfy more requirements

- The optional GPS locating system which can not only confirm the vehicle's location via satellite, but also long-distance and real-time monitor the equipments' operation condition and parameter, so when fault occurs, the solution can be provided.
- The Cummins NTC-350 engine is available as option.
- The interphone which can realize the convenient contact between operator and commanders is available as option.



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### Rated Lifting Capacity Table

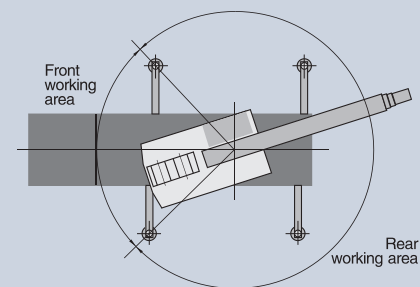
Unit: kg

| working<br>radius<br>(m) | Boom                                               |       |       |       |       |       |       | boom<br>angle<br>( ° ) | boom + jib |      |             |      |
|--------------------------|----------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------------|------------|------|-------------|------|
|                          | outrigger fully extended, side & rear working area |       |       |       |       |       |       |                        | 44.0m+9.5m |      | 44.0m+16.0m |      |
|                          | 11.6m                                              | 15.6m | 19.6m | 25.7m | 31.8m | 37.9m | 44.0m |                        | jib offset |      | jib offset  |      |
| 3.0                      | 70000                                              | 50000 | 40000 |       |       |       |       |                        | 0°         | 30°  | 0°          | 30°  |
| 3.5                      | 63000                                              | 50000 | 40000 | 28000 |       |       |       | 80                     | 5000       | 3000 | 3000        | 1300 |
| 4.0                      | 56000                                              | 47000 | 40000 | 28000 |       |       |       | 78                     | 4700       | 2850 | 2700        | 1200 |
| 4.5                      | 52000                                              | 44000 | 40000 | 28000 | 18000 |       |       | 76                     | 4400       | 2600 | 2400        | 1150 |
| 5.0                      | 48000                                              | 42000 | 38000 | 27000 | 18000 |       |       | 74                     | 4100       | 2450 | 2100        | 1100 |
| 5.5                      | 43000                                              | 39000 | 36000 | 26000 | 18000 |       |       | 72                     | 3800       | 2300 | 1850        | 1050 |
| 6.0                      | 39000                                              | 37000 | 34000 | 25000 | 18000 | 14000 |       | 70                     | 3500       | 2200 | 1700        | 1000 |
| 6.5                      | 35000                                              | 33000 | 31500 | 24000 | 18000 | 14000 |       | 68                     | 3200       | 2100 | 1600        | 970  |
| 7.0                      | 30000                                              | 28700 | 28700 | 23000 | 18000 | 14000 | 10000 | 66                     | 2800       | 2000 | 1500        | 940  |
| 7.5                      | 26500                                              | 25000 | 25000 | 22000 | 18000 | 14000 | 10000 | 64                     | 2400       | 1900 | 1400        | 910  |
| 8.0                      | 23500                                              | 22500 | 22500 | 21000 | 17500 | 14000 | 10000 | 62                     | 2100       | 1800 | 1300        | 880  |
| 9.0                      | 18500                                              | 18200 | 18200 | 18500 | 16000 | 14000 | 10000 | 60                     | 1850       | 1650 | 1200        | 850  |
| 10.0                     |                                                    | 14700 | 14700 | 15300 | 14500 | 13000 | 9800  | 58                     | 1600       | 1350 | 1100        | 800  |
| 11.0                     |                                                    | 12200 | 12200 | 12700 | 13000 | 12000 | 9500  | 56                     | 1300       | 1150 | 1000        | 750  |
| 12.0                     |                                                    | 10200 | 10200 | 11000 | 11500 | 11000 | 9000  | 54                     | 1000       | 900  | 800         |      |
| 14.0                     |                                                    |       | 7100  | 8200  | 8800  | 9300  | 8000  | 52                     | 800        |      |             |      |
| 16.0                     |                                                    |       | 5300  | 6000  | 6700  | 7200  | 7000  |                        |            |      |             |      |
| 18.0                     |                                                    |       |       | 4700  | 5200  | 5500  | 5900  |                        |            |      |             |      |
| 20.0                     |                                                    |       |       | 3500  | 4000  | 4300  | 4600  |                        |            |      |             |      |
| 22.0                     |                                                    |       |       |       | 3100  | 3300  | 3800  |                        |            |      |             |      |
| 24.0                     |                                                    |       |       |       | 2300  | 2500  | 3000  |                        |            |      |             |      |
| 26.0                     |                                                    |       |       |       | 1700  | 1190  | 2300  |                        |            |      |             |      |
| 28.0                     |                                                    |       |       |       |       | 1400  | 1800  |                        |            |      |             |      |
| 30.0                     |                                                    |       |       |       |       | 900   | 1400  |                        |            |      |             |      |
| 32.0                     |                                                    |       |       |       |       |       | 1000  |                        |            |      |             |      |
| Fall                     | 12                                                 | 9     | 9     | 5     | 5     | 3     | 3     | Fall                   | 1          |      |             |      |

**Note:**

- Above working condition is all with outrigger fully extended, never lift a load on the wheels.
- Capacities above the thick line in the table are based on the structure strength of the crane, the others, on stability of the complete machine.
- Set up the 5<sup>th</sup> outrigger, the values in the table are suitable for 360° operation.
- The values in the table are the Max. permissible values and include weight of the hook. (The main hook is 550kg, the auxiliary hook, 140kg.)

- A working radius given in the table is a horizontal distance from the centerline of the hook to the axis of the slewing ring when the hook is loaded.
- When actual boom length and working radius are between two values, determine lifting capacity according to bigger boom and radius.
- Rated lifting capacity should exclude the weight of dings and self-weight of jib (2000kg), when boom is used with jib extended.



Set up the 5<sup>th</sup> outrigger, it is suitable for 360° operation.

