

**ZOOMLION**

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# ZOOMLION **TRUCK** CRANE ZTC250V431



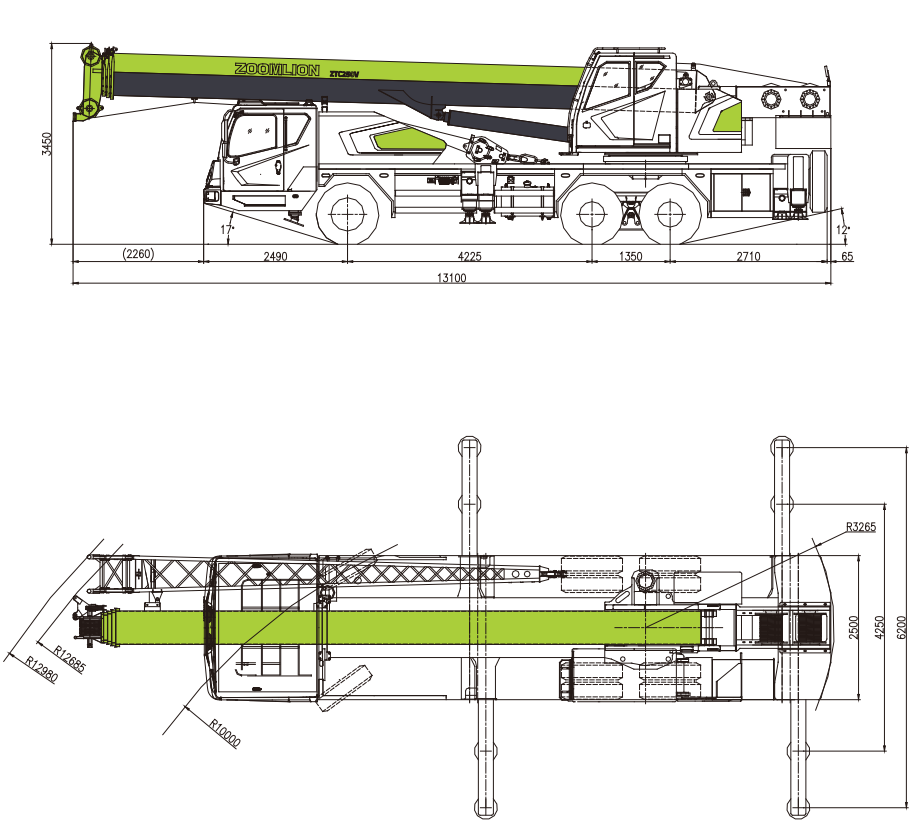
**ZOOMLION**

**4.0**  
PRODUCTS

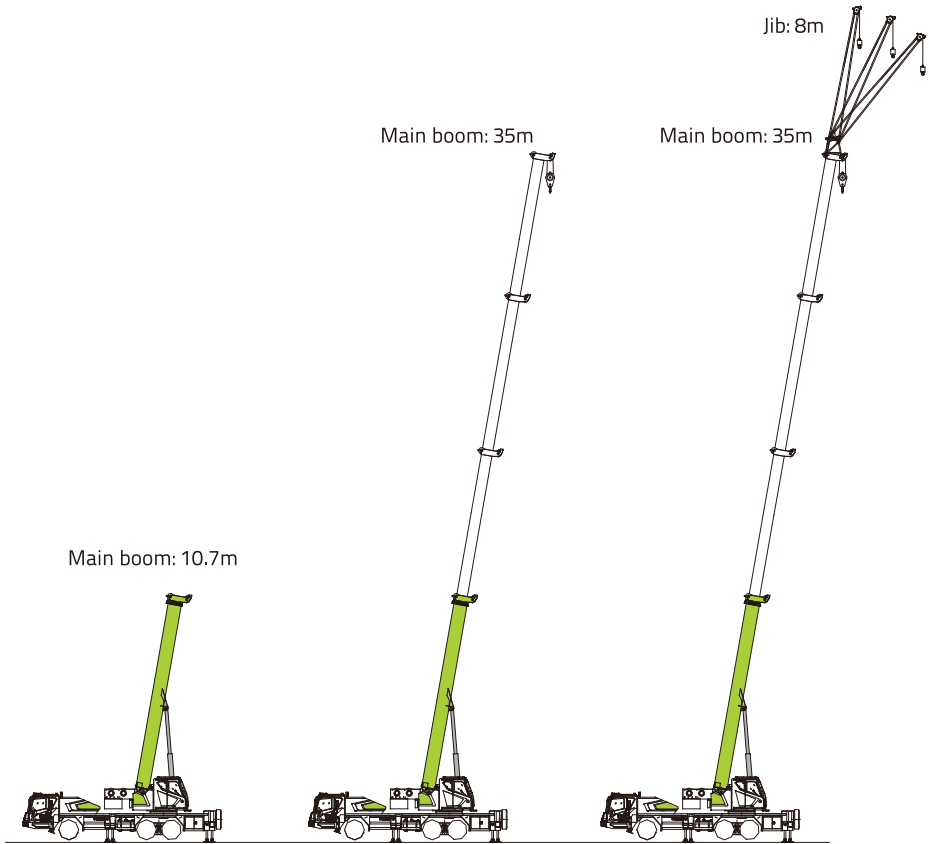
# CONTENTS

|                                   |     |
|-----------------------------------|-----|
| CRANE DIMENSIONS .....            | 2   |
| BOOM / JIBS COMBINATION .....     | 2   |
| CRANE AND COMPONENT WEIGHTS ..... | 3   |
| LIFTING CAPACITY TABLES .....     | 4-5 |
| TECHNICAL SPECIFICATIONS .....    | 5   |
| MAIN TECHNICAL PARAMETERS.....    | 6   |

## CRANE DIMENSIONS



## BOOM / JIBS COMBINATION



CRANE AND COMPONENT WEIGHTS

|  Axle | 1   | 2     | 3     | Total weight |
|----------------------------------------------------------------------------------------|-----|-------|-------|--------------|
| T                                                                                      | 6.5 | 10.65 | 10.65 | 27.8         |

 Hook Detailed Description

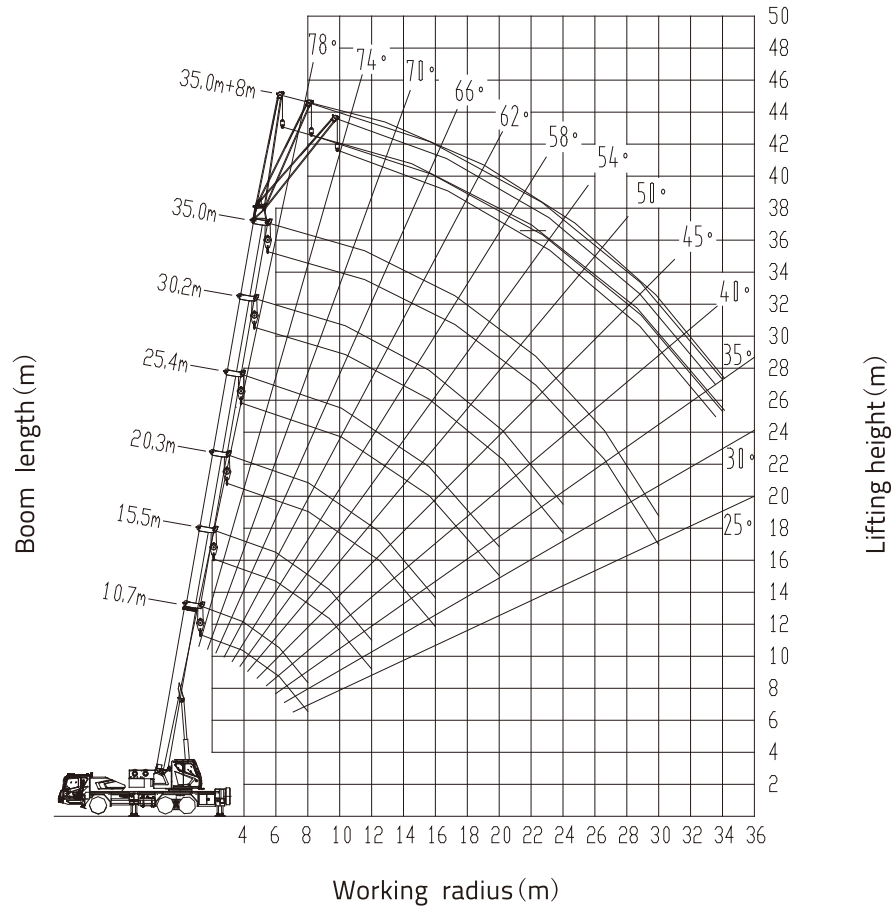
| Hook Load T | No. of Sheaves | No. of Lines | Weight Kg | Remark   |
|-------------|----------------|--------------|-----------|----------|
| 25          | 5              | 10           | 256       | standard |
| 3           | —              | 1            | 80        | standard |

 Working Speed

|  |  km/h MAX. |  |  |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 12R22.5/ 11.00R20                                                                 | 85                                                                                          | 42                                                                                | 9 / R1                                                                            |

| Drive                                                                               | Operation Speed | Rope Diameter/length | Max. Single Line Pull |
|-------------------------------------------------------------------------------------|-----------------|----------------------|-----------------------|
|  | 135m/min        | Φ 14mm/170m          | 3000Kg                |
|  | 135m/min        | Φ 14mm/105m          | 3000Kg                |
|  | 0 ~ 2.7r/min    |                      |                       |
|  | 25s / 35s       |                      |                       |
|  | 45s / 60s       |                      |                       |

LIFTING HEIGHT CURVE



LIFTING CAPACITY TABLES

| Main boom (m) |                                                |       |       |       |      |      |
|---------------|------------------------------------------------|-------|-------|-------|------|------|
| Radius (m)    | Outriggers fully extended, over sides and rear |       |       |       |      |      |
|               | 10.7                                           | 15.5  | 20.3  | 25.4  | 30.2 | 35   |
| 3.0           | 25000                                          | 16500 |       |       |      |      |
| 3.5           | 20000                                          | 16500 | 15500 |       |      |      |
| 4.0           | 20000                                          | 16500 | 15500 |       |      |      |
| 4.5           | 20000                                          | 16500 | 15500 |       |      |      |
| 5.0           | 19000                                          | 16500 | 15500 | 12800 |      |      |
| 5.5           | 17400                                          | 16500 | 15500 | 12100 |      |      |
| 6.0           | 16000                                          | 15500 | 15500 | 11400 | 9500 |      |
| 6.5           | 14000                                          | 14000 | 14000 | 10700 | 9000 |      |
| 7.0           | 12500                                          | 12500 | 12500 | 10200 | 8600 |      |
| 7.5           | 11500                                          | 11500 | 11500 | 9600  | 8200 | 7100 |
| 8.0           | 10500                                          | 10500 | 10500 | 9100  | 7900 | 6800 |
| 9.0           |                                                | 8900  | 9000  | 8200  | 7200 | 6200 |
| 10.0          |                                                | 7700  | 7800  | 7500  | 6500 | 5800 |
| 11.0          |                                                | 6600  | 6800  | 6800  | 6000 | 5400 |
| 12.0          |                                                | 5600  | 5800  | 5900  | 5500 | 5000 |
| 13.0          |                                                | 4800  | 5000  | 5100  | 5000 | 4600 |
| 14.0          |                                                |       | 4400  | 4500  | 4600 | 4200 |
| 15.0          |                                                |       | 3800  | 3900  | 4000 | 3900 |
| 16.0          |                                                |       | 3300  | 3400  | 3500 | 3600 |
| 18.0          |                                                |       |       | 2700  | 2800 | 2900 |
| 20.0          |                                                |       |       | 2100  | 2200 | 2300 |
| 22.0          |                                                |       |       | 1600  | 1700 | 1800 |
| 24.0          |                                                |       |       |       | 1400 | 1500 |
| 26.0          |                                                |       |       |       | 1100 | 1200 |
| 28.0          |                                                |       |       |       |      | 1000 |
| 30.0          |                                                |       |       |       |      | 800  |
| Reeving       | 10                                             | 6     | 6     | 5     | 4    | 3    |
| Hook          | 25t                                            |       |       |       |      |      |

Unit: kg

| Main boom (m) |                                                         |       |       |       |      |      |
|---------------|---------------------------------------------------------|-------|-------|-------|------|------|
| Radius (m)    | Outriggers intermediately extended, over sides and rear |       |       |       |      |      |
|               | 10.7                                                    | 15.5  | 20.3  | 25.4  | 30.2 | 35   |
| 3.0           | 25000                                                   | 16500 |       |       |      |      |
| 3.5           | 20000                                                   | 16500 | 15500 |       |      |      |
| 4.0           | 20000                                                   | 16500 | 15500 |       |      |      |
| 4.5           | 18000                                                   | 16500 | 15500 |       |      |      |
| 5.0           | 15000                                                   | 15500 | 15500 | 12800 |      |      |
| 5.5           | 12500                                                   | 13000 | 13500 | 11900 |      |      |
| 6.0           | 10500                                                   | 11000 | 11500 | 11000 | 9500 |      |
| 6.5           | 9200                                                    | 9600  | 9900  | 10000 | 9000 |      |
| 7.0           | 8000                                                    | 8400  | 8600  | 8800  | 8600 |      |
| 7.5           | 7000                                                    | 7400  | 7600  | 7800  | 8000 | 7100 |
| 8.0           | 6200                                                    | 6600  | 6800  | 6900  | 7000 | 6600 |
| 9.0           |                                                         | 5300  | 5500  | 5600  | 5700 | 5800 |
| 10.0          |                                                         | 4300  | 4500  | 4600  | 4700 | 4800 |
| 11.0          |                                                         | 3600  | 3700  | 3800  | 3900 | 4000 |
| 12.0          |                                                         | 3000  | 3100  | 3200  | 3300 | 3400 |
| 13.0          |                                                         | 2500  | 2600  | 2700  | 2800 | 2900 |
| 14.0          |                                                         |       | 2200  | 2300  | 2400 | 2500 |
| 15.0          |                                                         |       | 1900  | 2000  | 2100 | 2200 |
| 16.0          |                                                         |       | 1600  | 1700  | 1800 | 1900 |
| 18.0          |                                                         |       |       | 1200  | 1300 | 1400 |
| 20.0          |                                                         |       |       | 850   | 950  | 1000 |
| 22.0          |                                                         |       |       |       | 700  | 750  |
| 24.0          |                                                         |       |       |       |      | 550  |
| Reeving       | 10                                                      | 6     | 6     | 5     | 4    | 3    |
| Hook          |                                                         |       |       |       |      |      |

Unit: kg

LIFTING CAPACITY TABLES

Unit: kg

| Main boom<br>angle (°) | Main boom + jib          |                     |                     |
|------------------------|--------------------------|---------------------|---------------------|
|                        | Outrigger fully extended |                     |                     |
|                        | 35.0+8.0                 |                     |                     |
|                        | 0°                       | 15°                 | 30°                 |
|                        | Over sides and rear      | Over sides and rear | Over sides and rear |
| 80                     | 3000                     | 2600                | 2000                |
| 78                     | 3000                     | 2400                | 1900                |
| 76                     | 3000                     | 2200                | 1800                |
| 74                     | 2800                     | 2100                | 1700                |
| 72                     | 2600                     | 2000                | 1600                |
| 70                     | 2400                     | 1900                | 1500                |
| 68                     | 2200                     | 1800                | 1450                |
| 66                     | 2000                     | 1700                | 1400                |
| 64                     | 1900                     | 1600                | 1350                |
| 62                     | 1800                     | 1500                | 1300                |
| 60                     | 1700                     | 1400                | 1250                |
| 58                     | 1600                     | 1350                | 1200                |
| 56                     | 1450                     | 1300                | 1150                |
| 54                     | 1300                     | 1250                | 1100                |
| 52                     | 1150                     | 1100                | 1000                |
| 50                     | 1000                     | 950                 | 900                 |
| 45                     | 750                      | 700                 | 650                 |
| 40                     | 550                      | 500                 | 450                 |
| 35                     | 400                      | 350                 | 300                 |
| Reeving                | 1                        |                     |                     |
| Hook                   | 3t                       |                     |                     |

TECHNICAL SPECIFICATIONS

| Crane Superstructure |                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main boom            | 4 section U-shaped main boom can telescope via ropes and sheaves, main boom length: 10.7~35.0m.                                                                |
| Jib                  | One section jib, jib length 8m, offset 0°, 15°, 30°.                                                                                                           |
| Slewing gear         | Hydraulic fixed displacement motor, planetary reducer and slewing bearing. Free swing function.                                                                |
| Hoisting gear        | Dual winches with variable displacement piston motors and planetary reducers. Wire rope diameter:14mm.                                                         |
| Hydraulic system     | Advanced hydraulic proportional control system with mechanical lever control. Quadruple gear pumps offer oil for all the movements. Hydraulic tank 500 liters. |
| Electrical system    | DC 24V, superstructure and chassis electrical system offers a comfortable and safe operation.                                                                  |
| Operator's cab       | Spacious cab and man-machine friendly layout offers a comfortable operating experience. AC and heater.                                                         |
| Safety devices       | LMI, limit switch, relief valve, emergency stop button etc.                                                                                                    |
| Counterweight        | 3.8T counterweight.                                                                                                                                            |

| Crane Carrier |                                                                                                                           |
|---------------|---------------------------------------------------------------------------------------------------------------------------|
| Chassis frame | Made by ZOOMLION with high-tensile steel plate.                                                                           |
| Outrigger     | 1 stage H-type outriggers with wide spread 5.4m(W)*6.2m(L). 5th outrigger.                                                |
| Engine        | WEICHAI WP7.240E31 diesel engine, output 176KW, max. torque 1050N*m. Fuel tank 250 liters.                                |
| Transmission  | FAST mechanical gear box with 9 forward gears and 1 reverse gear.                                                         |
| Axles         | Front steering axle, rear tandem axles are driving axles.                                                                 |
| Suspension    | Front axle leaf steel spring suspension and rear axle rubber suspension with thrust rod and balanced beams.               |
| Steering      | Front axle steering with power steering assistant system.                                                                 |
| Brake         | Service brake, parking brake and emergency brake and auxiliary brake.                                                     |
| Tires         | Total 10 tires with one spare tire, tire size: 12R22.5 / 11.00R20.                                                        |
| Driver's cab  | Modern and luxury driver's cab with man-machine friendly layout offers a comfortable operating experience. AC and heater. |

MAIN TECHNICAL PARAMETERS

| Item                |                                           | Value | Remarks                                                                                   |
|---------------------|-------------------------------------------|-------|-------------------------------------------------------------------------------------------|
| Working performance | Max. rated lifting capacity               | kg    | 25000                                                                                     |
|                     | Max. load moment of basic boom            | kN.m  | 960                                                                                       |
|                     | Max. load moment of Max. length main boom | kN.m  | 600                                                                                       |
|                     | Max. lifting height of basic boom         | m     | 11.4                                                                                      |
|                     | Max. lifting height of main boom          | m     | 35.4                                                                                      |
|                     | Max. lifting height of jib                | m     | 43.0                                                                                      |
| Working speeds      | Max. hoist rope speed (Main winch)        | m/min | 135                                                                                       |
|                     | Max. hoist rope speed (Auxiliary winch)   | m/min | 135                                                                                       |
|                     | Boom derricking up time                   | s     | 25                                                                                        |
|                     | Boom telescoping out time                 | s     | 45                                                                                        |
|                     | Slewing speed                             | r/min | 0 - 2.7                                                                                   |
|                     | Max. operation altitude                   | m     | 2000                                                                                      |
| Driving             | Max. driving speed                        | km/h  | 90                                                                                        |
|                     | Max. gradeability                         | %     | 42                                                                                        |
|                     | Min. turning diameter                     | m     | ≤ 20                                                                                      |
|                     | Min. ground clearance                     | mm    | 250                                                                                       |
|                     | Oil consumption per hundred kilometer     | L     | 28                                                                                        |
|                     | Deadweight in driving condition           | kg    | 27800                                                                                     |
| Mass                | Complete vehicle kerb mass                | kg    | 27670                                                                                     |
|                     | Front axle load                           | kg    | 6500                                                                                      |
|                     | Rear axle load                            | kg    | 21300                                                                                     |
|                     | Overall dimensions (L×W×H)                | mm    | 13100×2500×3450                                                                           |
| Dimension           | Longitudinal distance between outriggers  | m     | 5.40                                                                                      |
|                     | Transversal distance between outriggers   | m     | For completely extended outrigger: 6.2 m<br>for intermediately extended outrigger: 4.25 m |
|                     | Tail slewing radius                       | mm    | 3265                                                                                      |
|                     | Main boom length                          | m     | 10.7 - 35.0                                                                               |
|                     | Main boom angle                           | °     | -1 - 80                                                                                   |
|                     | Jib length                                | m     | 8                                                                                         |
|                     | Offset                                    | °     | 0, 15, 30                                                                                 |
|                     |                                           |       |                                                                                           |