

## SWTC5D Main Performance Parameters

| ITEM                        |  | UNIT   | PARAMETERS                  |
|-----------------------------|--|--------|-----------------------------|
| Dimensions                  | Dimension (L x W x H)  | mm     | 5350×2260×2835              |
|                             | A Center distance between driving pulley and the driven pulley | mm     | 2269                        |
|                             | B Length of track  | mm     | 2890                        |
|                             | C Height from platform to ground                               | mm     | 780                         |
|                             | D Slewing motor of platform tail                               | mm     | 1740                        |
|                             | E Chassis width  | mm     | 2250                        |
|                             | F Width of track   | mm     | 450                         |
|                             | G Minimum ground clearance                                     | mm     | 400                         |
|                             | J Height of track  | mm     | 675                         |
|                             | K Height from control room top to ground                       | mm     | 2835                        |
| Operating speed parameter   | Max rated lifting capacity                                     | t      | 5                           |
|                             | Maximum load moment of basic boom                              | t.m    | 10.5                        |
|                             | Maximum load moment of fully extended boom                     | t.m    | 6                           |
|                             | Length of basic boom   | m      | 4.63                        |
|                             | Length of full extensional main boom                           | m      | 15.63                       |
|                             | Maximum lifting height of basic boom                           | m      | 5.3                         |
|                             | Maximum lifting height of the longest main boom                | m      | 16.5                        |
| Main performance parameters | Boom luffing time (up/down)                                    | s      | 11/9                        |
|                             | Boom telescopic time (extension/retraction)                    | s      | 17/20                       |
|                             | Swing speed  | rpm    | 4.5                         |
|                             | Speed of hoisting single rope                                  | m/min  | 110                         |
|                             | Traveling speed  | km/h   | 4.6                         |
|                             | Micro-traveling speed  | km/h   | 2.5                         |
|                             | Machine weight   | t      | 10.91                       |
| Engine                      | Max gradeability   | %      | 36.4                        |
|                             | Ground pressure  | Mpa    | 0.05                        |
|                             | Brand  |        | YANMAR                      |
|                             | Models   |        | 4TNV98C-SSU                 |
|                             | Type   |        | Water Cooling/Turbocharging |
|                             | Displacement   | L      | 3.319                       |
|                             | Power/rotating speed   | kw/rpm | 46.2KW/2200rpm              |
|                             | Capacity of fuel tank  | L      | 125                         |



### Main Technical Features of SWTC5D:

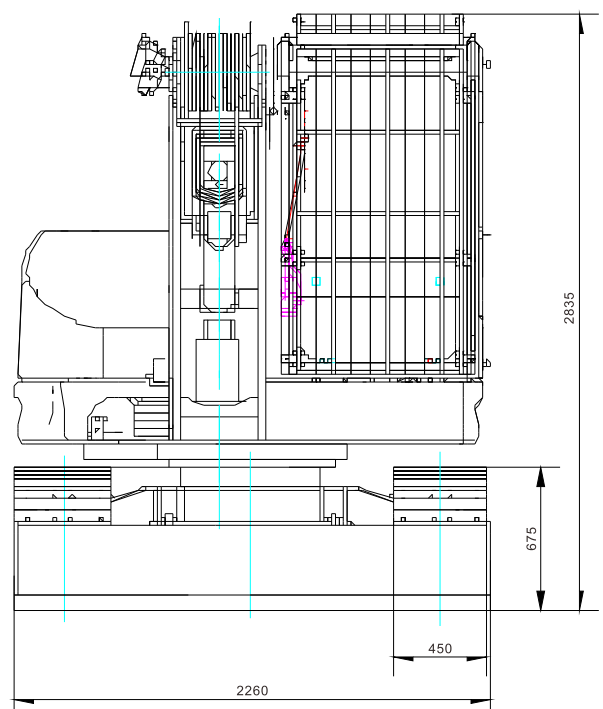
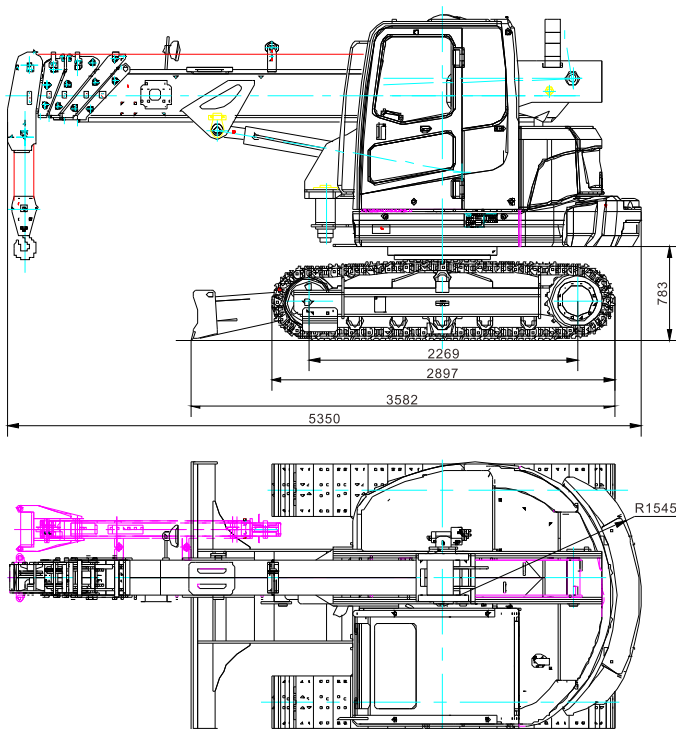
1. YANMAR engine, meet Euro V emission standards.
2. Lightweight high-strength steel with hexagonal section and five telescopic main booms.
3. Short tail and small slewing motor, suitable for operation in narrow areas.
4. Equipped with self-lifting support shovel, high stability.

5. Short luffing and telescopic time, fast lifting speed of heavy objects and high operation efficiency.

6. Equipped with Hirschmann force limiter system and CAN bus control. The system conforms to EN13000 standard.

7. Complete safety protection device; equipped with unloading solenoid valve for dangerous actions such as protection on winch's winding procedure, height limit, amplitude limit, etc. Equipped with rotary and traveling alarm devices; According to the user's requirements, the interlocking function of getting on and off, the maximum angle limit of the boom frame, the left and right rotation angle limit, etc. can be added.

8. with micro-traveling function; A micro-traveling switch is provided, which can reduce the pilot pressure to realize tiny actions of each operation.



# SWTC5D Lifting Capacity Table

| Working radius ( m ) | Boom length 4.63m<br>Lifting capacity (kg) |           | Boom length 7.38m<br>Lifting capacity (kg) |           | Boom length 10.13m<br>Lifting capacity (kg) |           | Boom length 12.88m<br>Lifting capacity (kg) |                                  | Boom length 15.63m<br>Lifting capacity (kg) |                                  |
|----------------------|--|-----------|--|-----------|---|-----------|---|----------------------------------|---|----------------------------------|
|                      | Static                                     | Traveling | Static                                     | Traveling | Static                                      | Traveling | Static                                      | Traveling                        | Static                                      | Traveling                        |
| 2                    | 5000                                       | 2000      | 5000                                       | 2000      | 2600  | 1300      | 2000  | Traveling on load is not allowed |   | Traveling on load is not allowed |
| 2.5                  | 3800                                       | 1900      | 3800                                       | 1900      | 2600  | 1300      | 2000  |                                  | 1400  |                                  |
| 3                    | 3000                                       | 1500      | 3000                                       | 1500      | 2350  | 1175      | 2000  |                                  | 1400  |                                  |
| 3.5                  | 2300                                       | 1150      | 2300                                       | 1150      | 2050  | 1025      | 1900  |                                  | 1400  |                                  |
| 4                    |  |           | 2000                                       | 1000      | 1750  | 875       | 1650  |                                  | 1400  |                                  |
| 4.5                  |  |           | 1700                                       | 850       | 1550  | 775       | 1450  |                                  | 1320  |                                  |
| 5                    |  |           | 1400                                       | 700       | 1350  | 675       | 1300  |                                  | 1200  |                                  |
| 6                    |  |           | 1000                                       | 500       | 980   | 525       | 950   |                                  | 900   |                                  |
| 7                    |  |           |  |           | 780   | 390       | 750   |                                  | 700   |                                  |
| 8                    |  |           |  |           | 580   | 290       | 550   |                                  | 520   |                                  |
| 9                    |  |           |  |           | 410   | 205       | 400   |                                  | 380   |                                  |
| 10                   |  |           |  |           |   |           | 380   |                                  | 350   |                                  |
| 11                   |  |           |  |           |   |           | 320   |                                  | 300   |                                  |
| 12                   |  |           |  |           |   |           |   |                                  | 280   |                                  |
| 13                   |  |           |  |           |   |           |   |                                  | 220   |                                  |
| 14                   |  |           |  |           |   |           |   |                                  | 200   |                                  |
| 14.53                |  |           |  |           |   |           |   |                                  | 200   |                                  |

- Notes:
1. The value given in the table is the rated lifting capacity of the crane, including the weight of the hook(70kg), under the condition of solid and smooth ground;
  2. The actual lifting capacity is the rated lifting capacity shown in the above table minus the weight of lifting appliances such as lifting hooks;
  3. The working range in the table refers to the actual range after lifting;
  4. The whole machine shall be horizontal and the working slope shall not be more than 5%. The traveling speed shall not be greater than the minimum speed;
  5. When the actual boom length and the working range are both between two values, the weight should be determined according to the larger ones;
  6. When climbing the slope, the main boom is retracted and placed at the minimum angle, and the counterweight is placed in the uphill direction.

# SWTC5D Jib Lifting Performance Table

| Jib 1                             |                        |     |     |     |
|-----------------------------------|------------------------|-----|-----|-----|
| Angle of main boom (longest boom) | Deflection angle (Deg) |     |     |     |
| 80°                               | 5                      | 20  | 40  | 60  |
| 75°                               | 500                    | 500 | 350 | 250 |
| 70°                               | 480                    | 450 | 325 | 225 |
| 65°                               | 450                    | 350 | 300 | 150 |
| 60°                               | 350                    | 300 | 250 | 125 |
| 55°                               | 250                    | 200 |     |     |
| 50°                               | 150                    | 100 |     |     |
| 40°                               | 50                     |     |     |     |

| Jib 1 + 2                         |                        |     |     |     |
|-----------------------------------|------------------------|-----|-----|-----|
| Angle of main boom (longest boom) | Deflection angle (Deg) |     |     |     |
| 80°                               | 5                      | 20  | 40  | 60  |
| 75°                               | 400                    | 400 | 300 | 200 |
| 70°                               | 380                    | 350 | 250 | 150 |
| 65°                               | 350                    | 300 | 200 | 100 |
| 60°                               | 300                    | 200 | 150 | 80  |
| 55°                               | 200                    | 150 |     |     |
| 40°                               | 100                    | 75  |     |     |

