

### **MATERIAL HANDLING MACHINE**





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### MATERIAL HANDLING MACHINE

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### About SANY Marine

SANY Marine is one of the core business units of SANY Group, mainly engaged in container mobile equipment (reach stacker, empty container handler, electric terminal tractor), port equipment (quayside crane, yard crane, jib crane), logistics equipment (material handler, heavy-duty forklift, telehandler), bulk equipment (ship unloader, ship loader, stacker reclaimer), wind tower barrel and other products. We are committed to becoming a global port machinery leader and terminal automation solution provider.

Sany Marine adheres to the enterprise purpose of "to build a first-class enterprise, to foster first-class employees, and to make first-class contributions to society", and the principle of "All for customers, all from innovation" business philosophy, always puts independent innovation in the first position of enterprise development, relying on a strong international brand influence and with a global marketing service network, products are exported to more than 100 countries around the world.

Sany Marine Zhuhai Industrial Park is located in Zhuhai Special Economic District, with a total land area of 2 million m<sup>2</sup> and a coastline of 1.5 km. Intelligent as the core, the introduction of cutting, machining, welding, painting and assembly robots and other intelligent equipment create an intelligent manufacturing lighthouse factory which leads the industry with the annual planned output value of 30 billion yuan.

Sany Marine has always adhered to the spirit of "quality to change the world" and continues to forge ahead in the field of port and logistics equipment.

## QUALITY CHANGES THE



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### Production R&D System





Manufacture Technology

Testing

System

Advanced manufacturing technology is a reliable guarantee for creating excellent products. Sany Marine's 1# & 3# factories are small port machinery intelligent manufacturing factories, covering an area of 70,000 m2, with 43 production robots and a welding automation rate of 80%. Factory 2#, 6#, 7#, and 8# are for large port machinery, covering 250,000 m2 and equipped with 35 production robots to realize the automation of blanking, picking, machining, rivetingand welding. The large port machinery assembly site covers 250,000 m2. The largest 500T+900T jib cranes in the industry support the overall assembly of large port machinery.

A complete R&D test system is the strong backing for excellent performance. Sany

Marine has an R&D team of more than 500 people. It has established professional

has built multiple laboratories and test sites for simulation operation and

than 300,000 times fatigue tests.

technical committees in machinery, electronic control, hydraulics, testing, etc., and

maintenance, electrical and automation, and automated storage yards. More than 5% of revenue every year is spent on R&D, and key components must undergo more





Environmental

Protection

Equipped with an eco-friendly engine that complies with the latest National IV standards and uses environmentally friendly paint to effectively reduce pollution. A full range of new energy products have achieved large-scale mass production and delivery.

### Reliable Service



Service Outlets overseas office abound globally 35 domestic service outlets service engineer standby in major cities

### Customer APP

"Sany Customer APP" allows customers to monitor the operating status and reports of equipment in real time anywhere in the world, and provides value-added services such as online consultation, community communication, parts mall, one-click repair report, scheduled maintenance, and product knowledge learning.





### Service Team

400 service engineers 60% obtained advanced skill level or above 300+ service vehicles 365 days\*24h service

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### Accessory Storage

The four-in-one parts supply guarantee system of headquarters warehouse, regional central warehouse, provincial warehouse and municipal warehouse stores more than 100,000 kinds of spare parts

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Material handler is a kind of multi-purpose and efficient material handling equipment, which is widely

Wheel Type





SMHW48V



SMHW80

Crawler-Type



SMHC35



SMHC45V



**SMHC50V-D**(electric traction)

### The models of Sany material handler expand from 35 tons, 40 tons to 70 - 160 tons, tire and crawler chassis full coverage, o provide a new solutions for steel mills, ports, terminals, renewable resources and other customers.



SMHC70

### **SMHW30** SANY Material Handling Machine

30-series material handlers are mainly suitable for all kinds of bulk material handling the machine is light and flexible with stable performance and high work efficiency.

> Hydraulic system Independent researched and developed electronically controlled positive flow hydraulic system, fuel consumption is 10% lower than that of previous ones.

### Control program

engine automatic idle, multi-speed adjustable, throttling loss reduced by 60%.

### Faster response

the response time of each action is as low as 300ms.

### Power system

4

6

engine and hydraulic pump curves perfectly match, system simulation reduces fuel consumption in the working area.

### Larger grab weight

a single grab capacity up to 4tons, according to different cargo, the efficiency reaches 100 ~ 200 tons/hour.

Tire chassis Travel speed 20km/h, easy to move.

### Product Parameters

| Technical      | Parameter                  |                          |          |                | Configuration Parameter |                       |      |           |           |  |
|----------------|----------------------------|--------------------------|----------|----------------|-------------------------|-----------------------|------|-----------|-----------|--|
| ITEM           |                            |                          | UNIT     | SMHW30         | CONFIGUR                | ATION                 | UNIT | SMHW30    |           |  |
|                |                            | Model                    | -        | Mitsubishi     |                         | Stick Cylinder        | -    | Sany      |           |  |
|                |                            | Datad power              | k\///rom | DU6FRC         | Hydraulic               | Max. System Pressure  | MPa  | 34.5      |           |  |
| Power          | Engine                     | Torque                   | Nm/rpm   | 750/1350       | System                  | Hvdraulic Oil Tank    | L    | 230       |           |  |
| System         | Ligine                     | Emission                 | -        | com III        | Clauring                | Slewing Bearing       | -    | Sany      |           |  |
|                |                            | Oil Tank                 |          |                | Slewing<br>Gear         | May Datating Casad    |      | o         |           |  |
|                |                            | Capacity                 | L        | 465            |                         | Max. Rotating Speed   | rpm  | 8         |           |  |
|                | Track Width                |                          | mm       | 2387           | Cabin                   | Cabin Lift Height     | mm   | 2650      |           |  |
|                | Wheel Base                 |                          | mm       | 2800           |                         |                       | m    | 12        | 14        |  |
| Chassis        | Support width (lengthways) |                          | mm       | 4750           |                         | Boom Configuration    | m    | Boom 7.3  | Boom 8.6  |  |
| CIIdSSIS       | Support widt               | Support width(crosswise) |          | 4140           |                         | 5                     | m    | Stick 51  | Stick 5.6 |  |
|                | Turning Radius             |                          | mm       | 8000           | Deele                   |                       | 111  | Stick S.I | SLICK J.U |  |
|                | Max. Travellin             | ig Speed                 | km/h     | 20             | Basic                   | Max. Operating Radius | m    | 10.5      | 13.5      |  |
|                |                            |                          |          | Electronically | Parameters              | Max. Operating Height | m    | 12        | 13.5      |  |
|                | Type Of Cont               | rol                      | -        | Controlled     |                         | Max. Operating Depth  | m    | -3        | -3        |  |
| L hardware die |                            |                          |          | System         |                         | Max. Operating Radius | t    | 4.6       | 3.4       |  |
| Hydraulic      | Main Pump                  | Model                    | -        | Rexroth        |                         | (0100110111010000)    |      |           |           |  |
| System         |                            | Rated Flow               | L/min    | 2×260          |                         |                       |      |           |           |  |
|                | Main Valve                 | Main Valve               |          | Kawasaki       |                         |                       |      |           |           |  |
|                | Reducer                    |                          | -        | Sany           |                         |                       |      |           |           |  |
|                | Boom Cylinde               | er                       | -        | Sany           |                         |                       |      |           |           |  |

### Dimensions

# (A)









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1.

### SMHW30 Lift capacities of material handler (Boom 7.3m, Stick 5.1m, Unit:t)



### SMHW30 Lift capacities of material handler (Boom 8.6m, Stick 5.6m, Unit:t)





35-series material handlers are mainly used in steel mills for scrap and bulk cargo loading, unloading and stacking operations, can offer high efficiency, with excellent machine performance, safety and reliability.



Hydraulic system Independent researched and developed electronically controlled positive flow hydraulic system, fuel consumption is 10% lower than that of last year.

### Control program

engine automatic idle, multi-speed adjustable, throttling loss reduced by 60%.

### Faster response time o

the response time of each action is as low as 300ms.

### Power system engine and hydraulic pump curves perfectly match, system simulation reduces fuel consumption in the working area.

Larger grab weight

4

6

a single grab capacity is up to 4 tons, according to different cargo, the efficiency reaches 100 ~ 200 tons/hour.

Track chassis steady and efficient.

### Product Parameters

| Technical | Parameter      |                      |        |                     | Configurat | tion Parameter        |       |           |
|-----------|----------------|----------------------|--------|---------------------|------------|-----------------------|-------|-----------|
| ITEM      |                |                      | UNIT   | SMHC35              | CONFIGUR   | ATION                 | UNIT  | SMHC35    |
|           |                | Model                | -      | Mitsubishi D06FRC   | Hydroulic  | Stick Cylinder        | -     | Sany      |
|           |                | Rated                | kW/rpm | 147/2100            | System     | Max. System Pressure  | MPa   | 34.5      |
| Dowor     |                | power                | Kimpin | 111/2100            | oyotom     | Hydraulic Oil Tank    | L     | 230       |
| System    | Engine         | Torque               | Nm/rpm | 750/1350            | Slewing    | Slewing Bearing       | -     | Sany      |
| oyotom    |                | Emission             | -      | com III             | Gear       | Max. Rotating Speed   | rpm   | 8         |
|           |                | Oil Tank<br>Canacity | L      | 465                 | Cabin      | Cabin Lift Height     | mm    | 2650      |
|           | Track width    | oupdoity             | mm     | 2590                |            |                       | m     | 12        |
| Traveling | Wheel Base     |                      | mm     | 3830                |            | Boom Configuration    | m     | Boom 6.8  |
| Gear      | Track Width    |                      | mm     | 600                 |            |                       | m     | Stick 5.6 |
|           | Max. Travellin | g Speed              | km/h   | 5                   | Basic      | Max. Operating Radius | m     | 10.5      |
|           | Turan Of Carat | rol .                |        | Electronically      | Parameters | Max Operating Height  | m     | 10 5      |
|           | Type Of Conti  | ſOI                  | -      | Controlled Positive |            | Max. Operating Height | - 111 | 10.5      |
|           |                | Madal                |        | FIOW System         |            | Max. Operating Depth  | m     | -6        |
| Hydraulic | Main Pump      | Nodel<br>Datad Flaw  | -      | Rexroth             |            | Max. Operating Radius | +     | Z /.      |
| System    |                | Rated Flow           | L/min  | 2×200               |            | (Grab Not Included)   | L     | 54        |
|           | Main Valve     |                      | -      | Kawasaki            |            |                       |       |           |
|           | Reducer        |                      | -      | Sany                |            |                       |       |           |
|           | Boom Cylinde   | er                   | -      | Sany                |            |                       |       |           |

### Dimensions





5

### Scope Of Work

### SMHC35 Lift capacities of material handler (Boom 6.8m, Stick 5.6m, Unit:t)





45V material handlers are widely used for hadling loading and unloading operations of scrap steels and bulk cargo, the machine is light and flexible with stable performance and high work efficiency.

Hydraulic system Independent researched and developed electronically controlled positive flow hydraulic system, fuel consumption is 10% lower than that of last year.

### 7

5

Control program engine automatic idle, multi-speed adjustable; The throttling loss in linkage condition is reduced by 60%.

### Faster response

the response time of each action is as low as 300ms

### Power system

engine and hydraulic pump curves perfectly match, system simulation reduces fuel consumption in the working area.

### Larger grab weight

4

6

a single grab capacity is up to 4tons, according to different cargo, the efficiency is 120 ~ 260 tons/hour.

Track chassis stable and efficient.

### Product Parameters

| Technical         | Parameter             |            |        |  | Configuration Parameter |  |      |           |          |  |
|-------------------|-----------------------|------------|--------|--|-------------------------|--|------|-----------|----------|--|
| ITEM              |                       |            | UNIT   | SMHC45V  | CONFIGUR                | ATION  | UNIT | SMHC45V   | SMHC45V  |  |
|                   |                       | Model      | -      | Isuzu 6HK1   | Slewing                 | Slewing Bearing                              | -    | Sany      |          |  |
|                   |                       | Rated      | kW/rpm | 212/2000   | Gear                    | Max. Rotating Speed                          | rpm  | 8         |          |  |
| Power             |                       | power      |        | 1000//500  | Cabin                   | Cabin Lift Height                            | mm   | 2650      |          |  |
| System            | Engine                | lorque     | Nm/rpm | 1080/1500  |                         |  | m    | 11        | 1/.      |  |
| - /               |                       | Emission   | -      | com III  |                         |  |      | 11        | 14       |  |
|                   |                       | Oil Tank   | 1      | 600  |                         | Boom Configuration                           | m    | Boom 7    | Boom 8.6 |  |
|                   |                       | Capacity   | -      | 000  |                         |  | m    | Stick 4.5 | Stick 6  |  |
|                   | Working Gauge         |            | mm     | 2590   | <b>_</b> .              | Max Operating Padius                         | m    | 10.5      | 13 5     |  |
| Traveling<br>Gear | Wheel Base            |            | mm     | 4140   | Basic                   | Max. Operating Radius                        | 111  | 10.5      | 15.5     |  |
|                   | Track Width           |            | mm     | 600  | Parameters              | Max. Operating Height                        | m    | 12        | 15       |  |
|                   | Max. Travelling Speed |            | km/h   | 5  |                         | Max. Operating Depth                         | m    | -1.5      | -3       |  |
|                   | Type Of Control       |            | -      | Electronically<br>Controlled Positive<br>Flow System |                         | Max. Operating Radius<br>(Grab Not Included) | t    | 5.9       | 4.1      |  |
|                   |                       | Model      | -      | Kawasaki   |                         |  |      |           |          |  |
| Hydraulic         | Iviain Pump           | Rated Flow | L/min  | 2×320  |                         |  |      |           |          |  |
| System            | Main Valve            |            | -      | Kawasaki   |                         |  |      |           |          |  |
|                   | Rotary Motor          |            | -      | Sany   |                         |  |      |           |          |  |
|                   | Max. System I         | Pressure   | MPa    | 32   |                         |  |      |           |          |  |
|                   | Hydraulic Oil 7       | ank        | L      | 310  |                         |  |      |           |          |  |

### Dimensions

6 h

### Scope Of Work

### (m) 135 10.5 -45



SMHC45V Lift capacities of material handler (Boom 7m, Stick 4.5m, Unit:t)



SMHC45V Lift capacities of material handler (Boom 8.6m, Stick 6m, Unit:t)





48V series is widely used in railway, inland wharf for bulk material loading and unloading, a variety of boom combination for railway bulk material. steel mills, inland wharf, general cargo and other working conditions, can offer wide range of operation and high efficiency 

### Product Parameters

| Technical   | Parameter                  |             |        |                | Configurat | tion Parameter        |        |          |           |
|---|----------------------------|-------------|--------|----------------|------------|-----------------------|--------|----------|-----------|
| ITEM  |                            |             | UNIT   | SMHW48V        | CONFIGUR   | ATION                 | UNIT   | SMHW48V  |           |
|   |                            | Model       | -      | lsuzu 6HK1     |            | Stick Cylinder        | -      | Sany     |           |
| _   |                            | Rated power | kW/rpm | 212/2000       | Hydraulic  | Max. System Pressure  | MPa    | 32       |           |
| Technical Pa   ITEM   Power<br>System E   Power<br>System I   M   Chassis S   S S   M   System M   Hydraulic<br>System M   M M   N< | Engine                     | Iorque      | Nm/rpm | 1080/1500      | System     | Hydraulic Oil Tank    | L      | 310      |           |
|   | -                          | Oil Tank    | -      | com III        | Slowing    | Slewing Bearing       | -      | Sanv     |           |
|   | Capacity                   |             | L      | 600            | Gear       | Max Rotating Speed    | rom    | 8        | 8         |
|   | Track Width                |             | mm     | 2746           | Cabin      |                       | mm     | 2650     |           |
|   | Wheel Base                 |             | mm     | 3200           | Cabin      |                       | 111111 | 2000     | 10        |
| Chassie   | Support width (lengthways) |             | mm     | 5400           |            |                       | m      | 14       | 18        |
| U 192212  | Support width (crosswise)  |             | mm     | 4800           |            | Boom Configuration    | m      | Boom 8.6 | Boom 10.5 |
| Chassis   | Turning Radiu              | sL          | mm     | 8800           |            |                       | m      | Stick 6  | Stick 7.5 |
|   | Max. Travellin             | ng Speed    | km/h   | 20             | Basic      | Max. Operating Radius | m      | 13.5     | 16.5      |
|   |                            |             |        | Electronically | Parameters | Max. Operating Height | m      | 15       | 16.5      |
|   | Type Of Cont               | rol         | -      | Positive Flow  |            | Max. Operating Depth  | m      | -4.5     | -4.5      |
| Hydraulic   |                            |             |        | System         |            | Max Operating Radius  |        | 6.1      | <b>F1</b> |
| System  | Main Pump                  | Model       | -      | Rexroth        |            | (Grab Not Included)   | τ      | b.I      | 5.1       |
| System  |                            | Rated Flow  | L/min  | 2×260          |            |                       |        |          |           |
|   | Main Valve                 |             | -      | Kawasaki       |            |                       |        |          |           |
|   | Reducer                    |             | -      | Sany           |            |                       |        |          |           |
|   | Boom Cylinde               | er          | -      | Sany           |            |                       |        |          |           |

### Dimensions





### Larger grab weight

a single grab capacity can reach 4 tons, according to different cargo, the efficiency is 150 ~ 520 tons/hour.

### 3

Tire chassis Travel speed 20km/h, easy to move. Faster response the response time of each action is as low as 300ms

1200

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### Scope Of Work

SMHW48V Lift capacities of material handler (Boom 8.6m, Stick 6m, Unit:t)



SMHW48V Lift capacities of material handler (Boom 10.5m, Stick 7.5m, Unit:t)



### SMHC50V-D SANY Material Handling Machine

50V-D series is fully electric, equipped with different grabs for the loading and unloading of bulk cargo and steel scrap at inland ports. The whole machine is driven by electric motor, zero emission, green and eco-friendly, compared with the conventional internal combustion engine, the power cost is 50% decreased.

Product Parameters

| Technical         | Parameter   |                   |        |                     | Configurat | tion Parameter        |      |  |          |
|-------------------|---|-------------------|--------|---------------------|------------|-----------------------|------|--|----------|
| ITEM              |   |                   | UNIT   | SMHC50V-D           | CONFIGUR   | ATION                 | UNIT | SMHC50V  | -D       |
|                   |   | Model             | -      | XEMC                | Slewing    | Slewing Bearing       | -    | Sany   |          |
| Dowor             |   | Rated<br>Capacity | kW/rpm | 160/1480            | Gear       | Max. Rotating Speed   | rpm  | 8  |          |
| System            | E-Motor   | Input<br>voltage  | V/Hz   | 380/50              | Cabin      | Cabin Lift Height     | mm   | 2650   |          |
|                   |   | Type Of           | -      | Soft Start          |            | Boom Configuration    | m    | 11   | 14       |
|                   |   | Start             |        | SUITSTAIL           |            |                       | m    | Boom 7   | Boom 8.6 |
|                   | Working Gauge   |                   | mm     | 2590                |            | Ŭ                     | ~    | Ctick / E  | Stick 6  |
| Traveling         | Wheel Base  |                   | mm     | 4140                |            |                       | 111  | SLICK 4.5  | SLICK O  |
| Traveling<br>Gear | Track Width   |                   | mm     | 600                 | Basic      | Max. Operating Radius | m    | 10.5   | 13.5     |
|                   | Be-Motor<br>Working Gaug<br>Wheel Base<br>Track Width<br>Max. Travellir<br>Type Of Cont<br>Main Pump<br>Main Valve<br>Reducer<br>Max. System<br>Hydraulic Oil | g Speed           | km/h   | 5                   | Parameters | Max Operating Height  | m    | 10   | 15       |
|                   |   |                   |        | Electronically      |            | Max. Operating height | 111  | 8   2650   11 14   Boom 7 Boom 8.6   Stick 4.5 Stick 6   10.5 13.5   12 15   -1.5 -3   5.9 4.1 |          |
|                   | Type Of Cont  | rol               | -      | Controlled Positive |            | Max. Operating Depth  | m    | -1.5   | -3       |
|                   | Main Dump   | Model             | -      | Kawasaki            |            | Max. Operating Radius | t    | 5.9  | 4.1      |
| Hydraulic         | Iviain Pump   | Rated Flow        | L/min  | 2×297               |            | (Grab Not included)   |      |  |          |
| System            | Main Valve  |                   | -      | Kawasaki            |            |                       |      |  |          |
|                   | Reducer   |                   | -      | Sany                |            |                       |      |  |          |
|                   | Max. System   | pressure          | MPa    | 32                  |            |                       |      |  |          |
|                   | Hydraulic Oil   | Fank              | L      | 310                 |            |                       |      |  |          |

### Dimensions





### (m



Cost saving

Track chassis:

3

electric drive, high efficiency and energy saving, saving more than 65% per hour compared to fuel vehicles.

Travel speed is 5km/h, easy to move.



Faster response: the response time of each action is as low as 300ms.

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### Scope Of Work

SMHC50V-D Lift capacities of material handler (Boom 7m, Stick 4.5m, Unit:t)



SMHC50V-D Lift capacities of material handler (Boom 8.6m, Stick 6m, Unit:t)



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SMHC70 is a dual powered, mainly used in bulk material handling operations in inland ports, equipped with a large bucket shell grabber, a variety of boom options, a wide loading and unloading range, and is highly efficient.

### High load

a single cycle of only costs 30 seconds, a single grab capacity reaches 6 tons, the average efficiency is twice higher than a 16-ton portal crane, easily covers 5000 tons of ship operations.

### Excellent process:

bulk materials are unloaded and loaded directly, without the aid of funnel or loader.

### Light self weight:

little pressure on the dock, no need to lay track

S 11

### More flexible:

Grab clearance is more convenient.

### Product Parameters

| Technical           | Parameter       |                      |                   |                                       | Configura             | tion Parameter                               |          |              |              |              |  |
|---------------------|-----------------|----------------------|-------------------|---------------------------------------|-----------------------|--|----------|--------------|--------------|--------------|--|
| ITEM                |                 |                      | UNIT              | SMHC70                                | CONFIGUR              | ATION  | UNIT     | SMHC         | 70           |              |  |
|                     |                 | Model<br>Rated       | -                 | DCEC QSL8.9                           | Traveling             | Working Gauge<br>Wheel Base                  | mm<br>mm | 4000<br>4691 |              |              |  |
|                     | Engine          | power                | Nm/rom            | 1900/1500                             | Gear                  | Track Width                                  | mm       | 762          |              |              |  |
|                     | LIIGIIIE        | Emission             | min               | com III                               | Clowing               | Slewing Bearing                              | KIII/II  | Sany         | Sanv         |              |  |
| _                   |                 | Oil Tank<br>Capacity | L                 | 600                                   | Gear                  | Max. Rotating Speed                          | rpm      | 8            | 8            |              |  |
| Power<br>System     |                 | Model                | -                 | XEMC<br>YE3-355M-4                    | Cabin                 | Cabin Lift Height                            | mm<br>m  | 2650<br>18   | 20           | 22           |  |
|                     | E-Motor         | Rated<br>Capacity    | kW/rpm            | 250/1486                              |                       | Boom Configuration                           | m        | Boom<br>10.5 | Boom<br>12.5 | Boom<br>12.5 |  |
|                     |                 | Input<br>voltage     | V/Hz              | 380/50                                |                       |  | m        | Stick        | Stick        | Stick        |  |
|                     |                 | Type Of<br>Start     | -                 | Soft Start                            |                       |  |          | 7.5          | 7.5          | 10           |  |
|                     | Type Of Control |                      | -                 | Electronically<br>Controlled Positive | Basic<br>Parameters   | Max. Operating Radius                        | m        | 18           | 19.5         | 21           |  |
|                     |                 |                      | Engine connection |                                       | Max. Operating Height | m  | 16.5     | 18           | 19.5         |              |  |
|                     | Main Pump       | Model                | - E               | E-motor<br>connection                 |                       | Max. Operating Depth                         | m        | -6           | -6           | -9           |  |
| Hydraulic<br>System |                 | Rated Flow           | L/min             | While Using Engine:<br>2×400          |                       | Max. Operating Radius<br>(Grab Not Included) | t        | 5.6          | 6.1          | 5.8          |  |
|                     |                 |                      |                   | WhileUsingE-Motor:<br>2×416           |                       |  |          |              |              |              |  |
|                     | Main Valve      |                      | -                 | Hengli                                |                       |  |          |              |              |              |  |
|                     | Reducer         |                      | -                 | Sany                                  |                       |  |          |              |              |              |  |
|                     | Boom Cylinde    | er                   | -                 | Sany                                  |                       |  |          |              |              |              |  |
|                     | Stick Cylinder  | -                    | -                 | Sany                                  |                       |  |          |              |              |              |  |
|                     | Max. System     | Pressure             | MPa               | 34.3                                  |                       |  |          |              |              |              |  |
|                     | Hydraulic Oil 7 | Fank                 | L                 | 500                                   |                       |  |          |              |              |              |  |

### Dimensions

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### Scope Of Work







7

### SMHC70 Lift capacities of material handler (Boom 10.5m, Stick 7.5m, Unit:t)

### SMHC70 Lift capacities of material handler Boom 12.5m, Stick10m, Unit:t)



### **SMHW80** SANY Material Handling Machine

SMHW80 series is large tonnage tire material handler, equipped with different arm combinations and grabbers, can be applied to the loading and

### **High load**

a single cycle takes only 30 seconds, a single grab capacity reaches 9 tons, loading and unloading operations can be up to 800tons/h, easily covering 10,000 tons of ship operations.

### 2

### Low energy consumption

The application of energy recovery technology, the boom system adopts multi-body dynamics simulation design, energy-saving efficiency of more than 20%.

### More flexible

tire type chassis makes transition more convenient.

### Wide range

maximum operating depth is 14 meters, maximum operating height reaches 23 meters, maximum operating radius is 24 meters.

### Full coverage

12meters amplitude load capacity of more than 15 tons, covering more than 90% of the lifting needs of general cargo, replacement of attachments, a multi-purpose machine.

### Product Parameters

| ITEMUNITSMHW80CONFIGURATIONUNITSMHW80PowerRated powerkw/rpm260/2000 $rm$   | Technical   | Parameter                 |                       |                  |   | Configurat      | tion Parameter                   |          |           |            |       |       |  |
|---|---|---------------------------|-----------------------|------------------|---|-----------------|----------------------------------|----------|-----------|------------|-------|-------|--|
| Power<br>SystemModel-Deutz<br>Dogs479<br>SpeedSlewing Bearing<br>Speed-Sary<br>rpmSupportPower<br>SystemTorqueNm/rpm1530/1200-<br>14001630/1200-<br>1400Cabin Liftmm26502224Power<br>SystemEmissionmincomIIICabin Liftmm265012.512.513.5Model-Sany<br>YE3-355M-4600Sany<br>YE3-355M-4m18.00202224Model-Sany<br>YE3-355M-4Mac. Operating<br>Radiusm18.00202125Track width<br>Whee baseRated<br>CapacitySoft StartSoft StartMax. Operating<br>Radiusm18.00202124Max. Oraceability9%20Max. Operating<br>Radiusm18.00202124Max. Craceability9%20Max. Operating<br>Radiusm18.00202124Max. Craceability9%20Max. Operating<br>Radiusm-4.5-4.5-7-10Max. Craceability9%20Controlled<br>Positive Flow<br>System-SanySany10HydraulicMain PumpModel-HengjiSany4.5-4.5-7-10Max. SystemTurning radiusm9800  | ITEM  |                           |                       | UNIT             | SMHW80  | CONFIGUR        | ATION                            | UNIT     | SMHV      | V80        |       |       |  |
| Power<br>System     Frace power<br>Engine     KW/rpin     200/2000<br>150/1020-1400     Cabin Lift<br>Height     mm     260       Power<br>System     Troup     Nm/rpin     1530/1200-1400     Cabin Lift<br>Height     mm     260     22     24       Oil Tank     Capacity     L     600     Cabin Lift<br>Height     mm     250     125     125     13       Model     -     Sany<br>YE3-355M-44     Sany<br>YE3-355M-44     Sany<br>YE3-355M-44     mm     380,50     m     Not     Not<  |   |                           | Model                 | -                | Deutz<br>D09S4T9  | Slewing<br>Gear | Slewing Bearing<br>Max. Rotating | -<br>rpm | Sany<br>8 |            |       |       |  |
| Power<br>SystemImage: Construct on the construc |   | Engine                    | Rated power<br>Torque | kw/rpm<br>Nm/rpm | 260/2000<br>1530/1200-                                  | Cabin           | Speed<br>Cabin Lift              | mm       | 2650      | 2650       |       |       |  |
| Power<br>System     Image: Finance in the contrained capacity     Image: Finance in the capacity     Image: Finance  |   | 5                         | Emission              | min              | 1400  |                 | Height                           |          | 10        | 00         | 00    | 0/    |  |
| Model      Sany<br>YES-355M-4<br>(E-Motor     No.     No. <td>Power<br/>System</td> <td></td> <td>Oil Tank<br/>Capacity</td> <td>L</td> <td>600</td> <td></td> <td>Boom</td> <td>m</td> <td>Boom</td> <td>20<br/>Boom</td> <td>Boom</td> <td>Boom</td>  | Power<br>System   |                           | Oil Tank<br>Capacity  | L                | 600   |                 | Boom                             | m        | Boom      | 20<br>Boom | Boom  | Boom  |  |
| Hated<br>CapacitykW/rpm250/1486non  |   |                           | Model                 | -                | Sany<br>YE3-355M-4                                      |                 | Configuration                    | m        | Stick     | Stick      | Stick | Stick |  |
| Imput Voltage     V,HZ     380,50     Maduls     Radius     Imput Voltage     Vision       Track width     Track width     mm     3135     Max. Operating     m     18     20     21     24       Chassis     Support width(lengthways)     mm     6300     Max. Operating     m     -4.5     -4.5     -7     -10       Max. Spearaing     Max. Createability     %     20     Max. Operating     m     -4.5     -4.5     -7     -10       Max. Gradeability     %     20     Max. Operating     m     -4.5     -6.5     5       Max. Gradeability     %     20     Max. Operating     m     -4.5     -6.5     5       Max. Travelling Speed     km/h     10     Max. System     -     -     System     -     -     -     -     -     -     System     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -  |   | E-Motor                   | Rated<br>Capacity     | kW/rpm           | 250/1486  | Basic           | Max. Operating                   | m        | 18        | 20         | 21    | 23    |  |
| Track width     mm     Solt Start     Max. Operating<br>Height     m     18     20     21     24       Chassis<br>System     Track width<br>Wheel base     mm     3135     Max. Operating<br>Depth     m     18     20     21     24       Chassis<br>System     Support width(lengthways)     mm     6300     Max. Operating<br>Depth     m     -4.5     -4.5     -7     -10       Max. Gradeability     %     20     Max. Operating<br>Depth     m     -4.5     -4.5     -6     5       Max. Gradeability     %     20     Max. Operating<br>Depth     m     -4.5     -6     5       Max. Gradeability     %     20     Max. Operating<br>Controled<br>Positive Flow<br>System     Max. Operating<br>Max. Depth     t     9     5     6     5       Hydraulic<br>System     Main Pump     Model     -     Height     Max. Operating<br>Positive Flow<br>System     t     9     5     6     5       Max. Operating<br>Reducer     -     Sany<br>Boom Cylinder     -     Sany<br>Stick Cylinder     -     Sany<br>Max. System Pressure  |   |                           | Input voltage         | V,HZ             | 380,50<br>Soft Stort                                    | Parameters      | Raulus                           |          |           |            |       |       |  |
| Wheel base   mm   3600     Support width(lengthways)   mm   6300     Support width(crosswise)   mm   5600     Turning radius   mm   9800     Max. Gradeability   %   20     Max. Travelling Speed   km/h   10     King Pump   Km/h   10     Main Pump   Model   -     Main Pump   Model   -     Main Valve   -   Hengli     Reducer   -   Sany     Stick Cylinder   -   Sany     Max. System Pressure   MPa   34     Hydraulic Oil Tank   L   500   |   | Track width               |                       | mm               | 3135  |                 | Max. Operating<br>Height         | m        | 18        | 20         | 21    | 24    |  |
| Support width (lengthways)   mm   6300     Support width (crosswise)   mm   5600     Turning radius   mm   9800     Max. Gradeability   %   20     Max. Traveling Speed   km/h   10     Max. Traveling Speed   km/h   10     Type Of Control   -   Electronically<br>Controlled<br>Positive Flow<br>System   t   9   5   6   5     Main Pump   Model   -   Hengli   -   Hengli   -   +   +   9   5   6   5     Main Valve   -   Sany   -   Sany   -   Sany   -  |   | Wheel base                |                       | mm               | 3600  |                 | Max Operating                    |          |           |            |       |       |  |
| Support width (crosswise)   mm   5600     Turning radius   mm   9800     Max. Gradeability   %   20     Max. Travelling Speed   km/h   10     Karting Radius (Grab Not Included)   %   20     Max. Travelling Speed   km/h   10     Karting Radius (Grab Not Included)   %   20     Max. Travelling Speed   km/h   10     Karting Radius (Grab Not Included)   %   20     Main Travelling Speed   km/h   10     Main Pump   Model   -     Rated Flow   L/min   2×400     Main Valve   -   Hengli     Reducer   -   Sany     Boom Cylinder   -   Sany     Stick Cylinder   -   Sany     Max. System Pressure   MPa   34     Hydraulic Oil Tank   L   500   | Obassia   | Support width(lengthways) |                       | mm               | 6300  |                 | Depth                            | m        | -4.5      | -4.5       | -7    | -10   |  |
| Turning radiusmm9800Max. Gradeability%20Max. Travelling Speedkm/h10Electronically<br>Controlled<br>Positive Flow<br>SystemHydraulic<br>SystemModel-Main PumpModel-Main PumpModel-Main Valve-Reducer-Reducer-Stick Cylinder-Stick Cylinder-Stick Cylinder-Max. System PressureMPaHydraulic Oil TankLL500   | Chassis   | Support width(crosswise)  |                       | mm               | 5600  |                 | Max Operating                    |          |           |            |       |       |  |
| Max. Gradeability % 20   Max. Travelling Speed km/h 10   Type Of Control -   Boom Cylinder -   Hydraulic Oil Tank -   | System  | Turning radiu             | Turning radius        |                  | 9800  |                 | Radius                           | t        | 9         | 5          | 6     | 5     |  |
| Max. Travelling Speed   km/h   10     Max. Travelling Speed   km/h   10     Type Of Control   Sector   Sector     Main Pump   Model   -     Main Pump   Model   -     Main Valve   -   Hengli     Reducer   -   Hengli     Reducer   -   Sany     Boom Cylinder   -   Sany     Stick Cylinder   -   Sany     Max. System Pressure   MPa   34     Hydraulic Oil Tank   L   500   |   | Max. Gradea               | bility                | %                | 20  |                 | (Grab Not Included)              |          | Ũ         | Ũ          | Ũ     | U     |  |
| HydraulicType Of Controlled<br>Positive Flow<br>SystemModel-Electronically<br>Controlled<br>Positive Flow<br>SystemHydraulicMain PumpModel-HengliRated FlowL/min2×400Main Valve-HengliReducer-HengliBoom Cylindtroll-SanyStick Cylindtroll-SanyMax. System PressureMPa34Hydraulic Oil TankL500  | Power<br>System<br>Chassis<br>System<br>Hydraulic<br>System | Max. Travellir            | ng Speed              | km/h             | 10  |                 |                                  |          |           |            |       |       |  |
| Main PumpModel-HengliNain PumpRated FlowL/min2×400Main Valve-HengliReducer-SanyBoom Cylinder-SanyStick Cylinder-SanyMax. System PressureMPa34Hydraulic Oil TankL500   |   | Type Of Control           |                       | -                | Electronically<br>Controlled<br>Positive Flow<br>System |                 |                                  |          |           |            |       |       |  |
| Hydraulic<br>SystemMain Pump<br>Rated FlowL/min2×400Main Valve-HengliReducer-SanyBoom Cylinder-SanyStick Cylinder-SanyMax. System PressureMPa34Hydraulic Oil TankL500   |   |                           | Model                 | -                | Hengli  |                 |                                  |          |           |            |       |       |  |
| SystemMain Valve-HengliReducer-SanyBoom Cylinder-SanyStick Cylinder-SanyMax. System PressureMPa34Hydraulic Oil TankL500   | Hydraulic   | Main Pump                 | Rated Flow            | L/min            | 2×400   |                 |                                  |          |           |            |       |       |  |
| Reducer-SanyBoom Cylinder-SanyStick Cylinder-SanyMax. System PressureMPa34Hydraulic Oil TankL500  | System  | Main Valve                |                       | -                | Hengli  |                 |                                  |          |           |            |       |       |  |
| Boom Cylinder-SanyStick Cylinder-SanyMax. System PressureMPa34Hydraulic Oil TankL500  | ,   | Reducer                   |                       | -                | Sany  |                 |                                  |          |           |            |       |       |  |
| Stick Cylinder-SanyMax. System PressureMPa34Hydraulic Oil TankL500  |   | Boom Cylind               | er                    | -                | Sany  |                 |                                  |          |           |            |       |       |  |
| Max. System PressureMPa34Hydraulic Oil TankL500   |   | Stick Cylinde             | er                    | -                | Sany  |                 |                                  |          |           |            |       |       |  |
| Hydraulic Oil Tank L 500  |   | Max. System               | Pressure              | MPa              | 34  |                 |                                  |          |           |            |       |       |  |
|   |   | Hydraulic Oil             | Tank                  | L                | 500   |                 |                                  |          |           |            |       |       |  |

### Dimensions

### Scope Of Work



5



### SMHW80 Lift capacities of material handler (Boom 13m, Stick 11m, Unit:t)



### **SMHW30G5** SANY Material Handling Machine

30-series material handlers are mainly suitable for all kinds o bulk material handling the machine is light and flexible with stable performance and high work efficiency.

The SMHW30G5 equipped Cummins L6.7 engine (EU Stage V) with high efficiency and low consumption performance. The SMHW30G5 with reinforced undercarriage stability and comprehensive security features. It is comfortable to operate in scrap, timber, and waste recycling handling.

### Product Parameters

| Technical Parameter |   |                                |                         | Configuration Parameter             |                          |   |          |              |              |
|---------------------|---|--------------------------------|-------------------------|-------------------------------------|--------------------------|---|----------|--------------|--------------|
| ITEM                | ITEM  |                                | UNIT                    | SMHW30G5                            | CONFIGUR                 | CONFIGURATION                             |          | SMHW30G5     |              |
| Power               | For size s  | Model<br>Rated power<br>Torque | -<br>kw/rpm<br>Nm/rpm   | CumminsL6.7<br>145/2000<br>847/1500 | Slewing<br>Gear<br>Cabin | Slewing Bearing<br>Max. Rotating<br>Speed | -<br>rpm | Sany<br>8    |              |
| System              | Engine  | Emission<br>Oil Tank           | min                     | EU stage V                          |                          | Cabin Lift<br>Height                      | mm       | 2650         |              |
|                     |   | Capacity                       | L                       | 405                                 |                          |   | m        | 12           | 14           |
|                     | Track width<br>Wheel base                             |                                | mm<br>mm                | 2387<br>2800                        | Basic<br>Parameters      | Boom<br>Configuration                     | m        | Boom<br>7.3  | Boom<br>8.6  |
| Chassis<br>System   | Support width(lengthways)<br>Support width(crosswise) |                                | mm<br>mm                | 4720<br>3973                        |                          |   | m        | Stick<br>5.1 | Stick<br>5.6 |
|                     | Max. Gradeability                                     |                                | mm<br>%                 | 3146<br>35                          |                          | Max. Operating<br>Radius                  | m        | 12           | 13.5         |
| Ber                 | Gearbox   |                                | -                       | DANA360                             |                          | Max. Operating<br>Height                  | m        | 12           | 13.5         |
|                     | Type Of Control                                       |                                |                         | Electronically<br>Controlled        |                          | Max. Operating<br>Depth                   | m        | -3           | -3           |
|                     |   |                                | Positive Flow<br>System | Positive Flow<br>System             |                          | Max. Operating<br>Radius                  | t        | 4.5          | 3.2          |
|                     | Main Pump   | Pated Flow                     | -                       | 2x260                               |                          | (Grab Not Included)                       |          |              |              |
| Hydraulic           | Main Valve  | Nated How                      | -                       | Kawasaki                            |                          |   |          |              |              |
| System              | Reducer   | Reducer                        |                         | Sanv                                |                          |   |          |              |              |
|                     | Boom Cylinder   |                                | -                       | Sany                                |                          |   |          |              |              |
|                     | Stick Cylinder  |                                | -                       | Sany                                |                          |   |          |              |              |
|                     | Max. System   | Max. System Pressure           |                         | 32                                  |                          |   |          |              |              |
|                     | Hydraulic Oil   | Tank                           | L                       | 230                                 |                          |   |          |              |              |

Dimensions

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|              |                     |            | -         |
|--------------|---------------------|------------|-----------|
| SMI<br>(Boor | <b>HW3</b><br>m7.3n | 00<br>n, S | 35<br>tic |
| (m)          |                     |            |           |
| 13.5         |                     |            |           |
| 12           |                     |            |           |
| 10.5         |                     |            |           |
| 9            |                     |            |           |
| 7.5          |                     | 5,8        |           |
| 6            |                     | /5.5       |           |
| 45           | 4.6                 | 5.1        |           |
| 3            | 4,6                 | 5.         |           |
| 15           | 4.5                 | 5.2        |           |
| 0            | 4.5                 | 5.1        |           |
| -15          |                     | 5.1        |           |
| 2            |                     | X          |           |
| - )          |                     |            |           |
|              |                     |            |           |

### Scope Of Work

5 Lift capacities of material handler k5.1m, Unit:t)



### SMHW30G5 Lift capacities of material handler (Boom 8.6m, Stick5.6m, Unit:t)



### SMHW48G5

SANY Material Handling Machine

48 series is widely used in railway, inland wharf for bulk material loading and unloading, a variety of boom combination for railway bulk material, steel mills, inland wharf, general cargo and other working conditions, can offer wide range of operation and high efficiency.

SANYTIL

The SMHW48G5 is a versatile material handler that can be deployed wherever large quantities of material need to be moved.

It's a real powerhouse that impresses on account of its high efficiency and cost effectiveness. One of its signature features is its high load capacity, which allows even the greatest of tasks to be handled swiftly. No matter whether the SMHW48G5 is deployed in a Port or a timber yard, for materials handing or for sorting tasks on a demolition site, to handle recycling material or scrap-the range of task-appropriate attachment devices guarantee the maximum in performance and reliability for any application.

### Product Parameters

| Technical Parameter |                            |                       |                  | Configuration Parameter      |                          |                             |       |              |              |              |
|---------------------|----------------------------|-----------------------|------------------|------------------------------|--------------------------|-----------------------------|-------|--------------|--------------|--------------|
| ITEM                | ITEM                       |                       |                  | SMHW48G5                     | CONFIGURATION            |                             | UNIT  | SMHW4        | SMHW48G5     |              |
| Power<br>System     |                            | Model                 | -                | Cummins SL9                  | Slewing<br>Gear<br>Cabin | Slewing Bearing             | -     | Sany         |              |              |
|                     | Engine                     | Rated power<br>Torque | kw/rpm<br>Nm/rpm | 252/1800<br>1526/1400        |                          | Gear Max. Rotating<br>Speed |       | rpm          | 8            |              |
|                     |                            | Emission              | min              | EU stage V                   |                          | Cabin Lift<br>Height        | mm    | 2650         |              |              |
|                     |                            | Capacity              | L                | 540                          |                          | lingine                     | m     | 17           | 18           | 20           |
|                     | Track width                |                       | mm               | 2445                         |                          |                             |       | Boom         | Boom         | Boom         |
|                     | Wheel base                 |                       | mm               | 3200                         |                          | Boom<br>Configuration       | m     | 9.6          | 10.5         | 10.5         |
| Chassis             | Support width (lengthways) |                       | mm               | 5300                         | Basic<br>Parameters      |                             | m     | Stick<br>7.5 | Stick<br>7.5 | Stick<br>9.5 |
| System              | Support width(crosswise)   |                       | mm               | 4600                         |                          |                             |       |              |              |              |
| oyocom              | Turning radius             |                       | mm               | 8800                         |                          | Max. Operating<br>Radius    | m     | 16.5         | 17           | 19.5         |
|                     | Max. Gradeability          |                       | %                | 35                           |                          |                             |       |              |              |              |
|                     | Max. Travelling Speed      |                       | km/h             | 20                           |                          | May Operating               |       |              |              |              |
|                     | Type Of Control            |                       |                  | Electronically<br>Controlled |                          | Height                      | m     | 16.5         | 18           | 19.5         |
|                     |                            |                       | -                | Positive Flow<br>System      |                          | Max. Operating<br>Depth     | m     | -6           | -6           | -9           |
|                     | Main Pumn                  | Model                 | -                | Kawasaki                     |                          | Max. Operating<br>Radius    | t 3.9 |              |              | 3.5          |
| Hydraulic           |                            | Rated Flow            | L/min            | 2×320                        |                          |                             |       | 3.9          | 4.1          |              |
| System              | Main Valve                 |                       | -                | Kawasaki                     |                          | (Grab Not Included)         |       |              |              |              |
| -                   | Reducer                    |                       | -                | Sany                         |                          |                             |       |              |              |              |
|                     | Boom Cylinder              |                       | -                | Sany                         |                          |                             |       |              |              |              |
|                     | Stick Cylinder             |                       | -                | Sany                         | Dimensions               |                             |       |              |              |              |
|                     | Max. System                | Pressure              | MPa              | 32                           |                          |                             |       |              |              |              |
|                     | Hydraulic Oil              | Hydraulic Oil Tank    |                  | 340                          |                          |                             |       |              |              |              |

Scope Of Work

SMHW48G5 Lift capacities of material handler (Boom9.6m, Stick 7.5m, Unit:t)









SMHW48G5 Lift capacities of material handler (Boom10.5m, Stick 7.5m, Unit:t)

SMHW48G5 Lift capacities of material handler (Boom10.5m, Stick 9.5m, Unit:t)



### Attachments

### Orange-peel grab

| Technical Parameter             |                   |      |  |  |  |  |
|---------------------------------|-------------------|------|--|--|--|--|
| Capacity(m <sup>3</sup> )       | 0.8m <sup>3</sup> | 1m³  |  |  |  |  |
| Self-weight(kg)                 | 1902              | 1952 |  |  |  |  |
| Self weight without rotator(kg) | 1675              | 1725 |  |  |  |  |
| Width when expanded(mm)         | 2550              | 2933 |  |  |  |  |
| Width when closed (mm)          | 1625              | 1822 |  |  |  |  |
| Height with rotator(kg)         | 3093              | 3286 |  |  |  |  |
| Height without rotator(kg)      | 2829              | 3022 |  |  |  |  |
| Working pressure(Mpa)           | 25                | 25   |  |  |  |  |



| Technical Parameter             |           |  |  |  |
|---------------------------------|-----------|--|--|--|
| Looping area (m <sup>2</sup> )  | Parameter |  |  |  |
| Self weight with rotator (kg)   | 2211      |  |  |  |
| Looping area when expanded (mm) | 3251      |  |  |  |
| Looping area when closed (mm)   | 1638      |  |  |  |
| Height/length(mm)               | 4028/810  |  |  |  |
| Working pressure(Mpa)           | 28        |  |  |  |

### Clamshell grab

| Technical Parameter             |                   |                   |                   |                   |                   |  |  |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|
| Capacity(m <sup>3</sup> )       | 2.0m <sup>3</sup> | 2.5m <sup>3</sup> | 3.5m <sup>3</sup> | 4.0m <sup>3</sup> | 5.0m <sup>3</sup> |  |  |
| Self-weight(kg)                 | 2216              | 2404              | 2566              | 2752              | 2924              |  |  |
| Self weight without rotator(kg) | 1888              | 2090              | 2243              | 2318              | 2795              |  |  |
| Length(mm)                      | 1500              | 1602              | 1804              | 2000              | 2000              |  |  |
| Width expanded (mm)             | 2470              | 2865              | 3112              | 2918              | 3228              |  |  |
| Width closed (mm)               | 2218              | 2298              | 2668              | 2696              | 2595              |  |  |
| Height with rotator (kg)        | 3270              | 3468              | 3597              | 3652              | 3629              |  |  |
| Height without rotator(kg)      | 3006              | 3204              | 3333              | 3234              | 3458              |  |  |
| Working pressure(Mpa)           | 28                | 28                | 28                | 28                | 28                |  |  |



### Steel tube grab

| Technical Parameter         |                    |  |
|-----------------------------|--------------------|--|
| Item                        | Parameter          |  |
| Rated load(t)               | 8                  |  |
| Max. Rotate speed (r/min)   | 10                 |  |
| Rated working pressure(MPa) | 25                 |  |
| Stretch Itinerary (mm)      | single side 1420   |  |
| Lateral distance(mm)        | left 360/right 360 |  |
| Steel tube length(m)        | 6-8.5              |  |
| Spreader self weight(t)     | 2.5                |  |

### Pulp grab

| Technical Parameter             |            |
|---------------------------------|------------|
| Item                            | Parameter  |
| Rated load(t)                   | 6          |
| Max. Rotate speed(r/min)        | 10         |
| Movable hook open/close time(s) | <1         |
| Rated working pressure(mpa)     | 25         |
| Spreader length(mm)             | 2600       |
| Spreader width (mm)             | 1300       |
| Spreader height(mm)             | 2150       |
| Hook distance range (mm)        | 840 - 2000 |
| Spreader self weight(t)         | 1.5        |

### Generator system

| Technical Farameter                  |                                 |                          |             |  |  |  |
|--------------------------------------|---------------------------------|--------------------------|-------------|--|--|--|
| Item                                 | WM5-110L \                      | VM5-130L WI              | M5-160L     |  |  |  |
| Rate of power kW                     | 25                              |                          |             |  |  |  |
| Electromagnet                        |                                 |                          |             |  |  |  |
| Item                                 | ZKZL-19E-D                      |                          |             |  |  |  |
| Shape(mm)                            | 520×350×75                      | 520×350×750 ( dimension) |             |  |  |  |
| Output rate of work(kW)              | 25                              |                          |             |  |  |  |
| Input voltage(V)                     | AC380                           |                          |             |  |  |  |
| Output voltage(V)                    | DC220                           |                          |             |  |  |  |
| Protection level                     | IP45 (suitable for outdoor use) |                          |             |  |  |  |
| Magnetization & demagnetization time | ≤3s                             |                          |             |  |  |  |
| Control cabinet                      |                                 |                          |             |  |  |  |
| Item                                 | WM5-110L                        | WM5-130L                 | WM5-160L    |  |  |  |
| Rated voltage(DC)                    | 220V                            | 220V                     | 220V        |  |  |  |
| Input rate of power(kW)              | 8.14                            | 13.4                     | 17.8        |  |  |  |
| Diameter(m)                          | 1.1                             | 1.3                      | 1.6         |  |  |  |
| Self weight(kg)                      | around 1310                     | around 2100              | around 3050 |  |  |  |
| Cold current(a)                      | 37                              | 60.9                     | 81          |  |  |  |
| Protection level                     | IP67                            | IP67                     | IP67        |  |  |  |
| Insulation level                     | H level                         | H level                  | H level     |  |  |  |
| Cast iron mold(kg)                   | 800                             | 1100                     | 2300        |  |  |  |
| Cutting bits (kg)                    | 800                             | 1100                     | 2300        |  |  |  |
| No.1 Steel scalp(kg)                 | 400                             | 600                      | 1100        |  |  |  |
| No.2 Steel scrap(kg)                 | 100                             | 200                      | 400         |  |  |  |
| Type of connection                   | chain                           | chain                    | chain       |  |  |  |
| Electromagnet outlet                 | YC2×10                          | YC2×16                   | YC2×16      |  |  |  |





Engine



Hydraulic motor



Control cabinet



Magnetic plate

### Construction Cases steel mills & renewable resources







### Construction Cases inland wharf



### Construction Cases railways







### Construction Cases bulk cargo













Sany Marine Heavy Industry

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Considering the continuous progress and update of SANY Marine technology, the technical parameters and configuration of products are modified and adjusted at any time, so this brochure is for reference only. The appearance, configuration and technical parameters of the specific model are subject to the actual model sold.

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