



Jindal Infrastructures Pvt. Ltd.

SANY

**PILING MACHINERY
PRODUCTS COLLECTION**

Quality Changes the World



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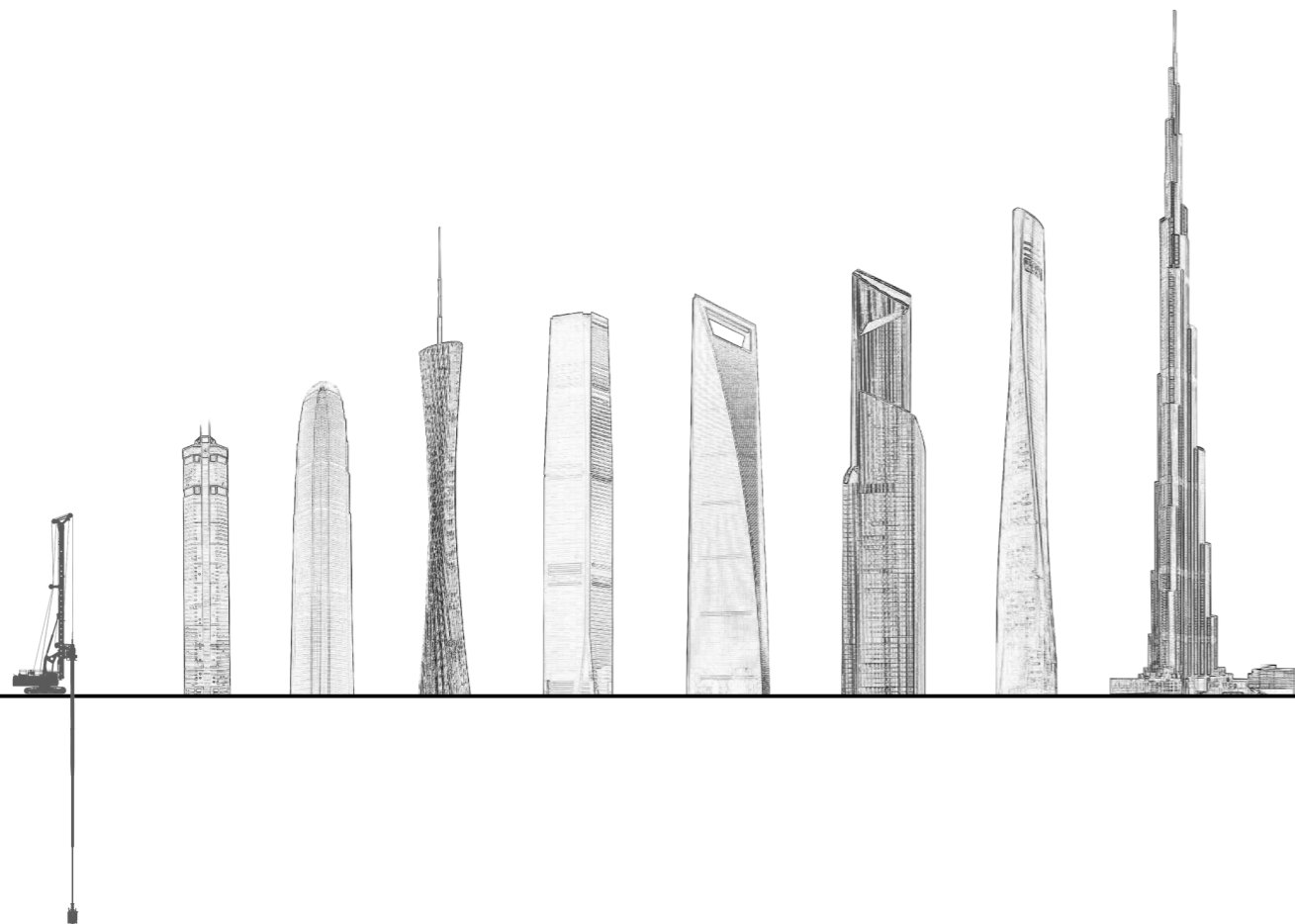
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SANY HEAVY INDUSTRY CO., LTD.



Jindal Infrastructures Pvt. Ltd.

The world's height is determined by our drilling depth



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Jindal Infrastructures Pvt. Ltd.

INNOVATION HISTORY OF SANY PILING MACHINERY

As a subsidiary corporation of Sany Group, Beijing Sany Heavy Machinery Co., Ltd. has always been focusing on the design, manufacturing, sales and service of foundation construction equipment. The main products are rotary drilling rig, diaphragm wall grab, electro-hydraulic pile driver and tunnel boring equipment which cover the whole area of pile foundation, pit supporting and underground construction. With the principle of Quality Changes the World, Beijing Sany has always been dedicating to providing the professional total solution of foundation construction to global customers.



- 2003**
The first Sany rotary drilling rig SYR220 was born.
- 2005**
Beijing Sany passed ISO 9001 and CE certifications and became the first Chinese rotary drilling rig manufacturer to obtain such certifications.
- 2007**
The first winch crowded rotary drilling rig in China SR220R was born.
- 2008**
SR360 with the largest torque in Asia was developed by our own technology.
- 2009**
The successful developing of SR420 rotary drilling rig manufacturing in China.
- 2011**
The largest rotary drilling rig in Asia SR460 rolled off the production line. Sany was awarded Customer Satisfaction in the First by China Quality Association.
- 2012**
SR280LHII broadened the new horizons.
- 2013**
SANY kelly bar product line was awarded FOUR STARS by China Quality Association.
- 2014**
C8 series comes to the market grandly and sets the new benchmark with its high quality and strong drilling ability.
- 2015**
The Aisa biggest Rotary Drilling Rig SR630 was born in Beijing Sany Plant.
- 2016**
Official launch new C10 series rotary drilling rig, led the industry with innovative technology, high quality, and create legends again
- 2017**
Greater glories are to be created by C10....



Jindal Infrastructures Pvt. Ltd.



THE WORLD MOST ADVANCED AND INTELLIGENT PRODUCTION LINE FOR PILING MACHINERY

No.1 workshop of Nankou Industrial Park is an important part of Beijing Sany Manufacturing Center. The production area is 80,000 square metres, and the total investment is 230 million USD. By the end of 2011, it had achieved the capacity of manufacturing 1500 rotary drilling rigs per year. It has a modern production line with greatest output and highest level of automation.



0.1 CLOOS robot
Repositioning and flip precision reaches 0.1mm Arc automatic tracking system $\leq 1\text{mm}$



± 0.2 Open groove robot
Steel laser cutting precision: $\pm 0.2\text{mm}$



1 The first Kelly bar robot automatic production line



CONSTRUCTION METHOD

We provide not only a machine,
but also the unique technical
support on construction method

Technical support of construction method

According to geological report and construction requirements, we provide customers with total solution which includes equipment configuration, cost analysis and construction management. In the respects of construction plan design, on-site technical guidance and customers' special requirements, etc, customers who buy our products will buy the rest assured and will be free from worry in future use.

Solving various problems

If you have encountered such problems as hard rock unable to drill, hole collapse on soft ground, oversized hole, eccentric hole-drilling, sediment too thick? Sany technical support team on construction method will provide you with technical support and on-site guidance for free.

New standard, new construction method and new equipment research

Participate in making GB Rotary Drilling Rig, GB General Regulations of Rotary Drilling Rig Construction and Rotary Drilling Rig Telescopic Kelly Bar; Research on all-casing construction method, secant piling construction method, mud purification, developing special drilling tool, etc. All these will help you on construction, expanding construction range, increasing construction efficiency and profits.



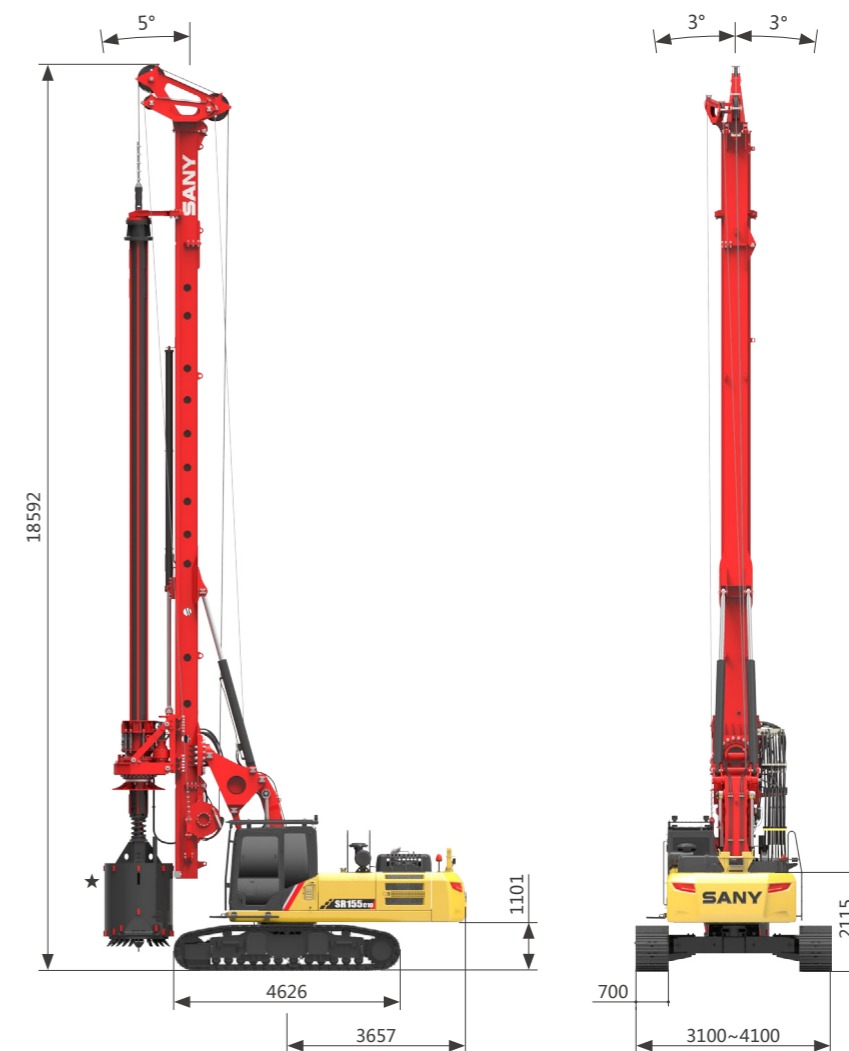


| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|-----------------------|--|
| Pile | | | |
| Max. pile diameter | mm | 1,500 | |
| Max. pile depth | m | 56/44 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 155 | |
| Speed of rotation | rpm | 5~35 | |
| Crowd system | | | |
| Crowd force | kN | 155 | |
| Line pull | kN | 160 | |
| Stroke | mm | 4,200 | |
| Main winch | | | |
| Line pull | kN | 160 | |
| Rope diameter | mm | 26 | |
| Max. line speed | m/min | 80 | |
| Auxiliary winch | | | |
| Line pull | kN | 60 | |
| Rope diameter | mm | 14 | |
| Max. line speed | m/min | 75 | |
| Mast inclination | | | |
| Forward/backward | ° | 5/90 | |
| Lateral | ° | ±3 | |
| Main Chassis | | | |
| Base engine | | Mitsubishi D06FRC-TAA | |
| Engine power | kW/rpm | 144/2,000 | |
| Emission regulation | | COM III/R96 | |
| Engine displacement | L | 6.373 | |
| Chassis length | mm | 5,972 | |
| Extended width | mm | 4,100 | |
| Track shoe width | mm | 700 | |
| Swing radius | mm | 3,717 | backside |
| Overall machine | | | |
| Overall height | mm | 18,592 | |
| Operating weight | t | 46 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,140 | |
| Transport height | mm | 3,262 | |

| Configuration table | Option | Option | Option |
|---------------------------------|--------|--|--------|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | ROTARY DRIVE : | ● |
| Mast sideward limits | ● | Rotating speed measuring | ○ |
| Boom working range measuring | ● | Torque measuring | ○ |
| Cab anticollision protection | ● | Multi-gear control system | ● |
| MAIN WINCH : | | OPERATION SYSTEM : | |
| Overload measuring | ● | Oil pressure measuring device | ● |
| Ground touching protection | ● | All-directional lighting system | ● |
| Freewheel control | ● | Slew angle measuring | ● |
| Fast lowering | ● | Emergency stop switch | ● |
| Camera monitoring system | ● | Slew siren | ● |
| Speed measuring | ● | Diesel-electric pump | ● |
| Depth measuring | ● | Auto idle model | ● |
| Upper limit protection function | ● | Low temperature preheat unit | ○ |
| AUXILIARY WINCH : | | MAIN CHASSIS : | |
| Upper limit protection function | ● | Integrated overload protection | ● |
| CROWD SYSTEM : | | 10-inch touch screen | |
| Cylinder crowd system | ● | Air-conditioner | ● |
| | | SANY-ADMS control system | ● |
| | | E-Pad | ● |
| | | Central test point | ● |
| | | Fault self-diagnosis system | ● |
| | | Intelligent construction management system | ● |
| | | All-directional camera monitoring system | ● |
| | | Digital simulation animation | ● |
| | | Auto/manual mast verticality-adjusting | ● |

● Standard ○ Optional

Working dimensions



Lowering the mast dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| Φ377×4×12 | 6,000 | 44 | Φ377×4×10 | 5,900 | 36 |
| Φ377×5×12 ★ | 5,700 | 56 | Φ377×4×11 | 6,000 | 40 |
| | | | Φ377×4×12 ● | 6,500 | 44 |

● Standard ★ Recommended equipment



| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|----------------|--|
| Pile | | | |
| Max. pile diameter | mm | 1800 | |
| Max. pile depth | m | 64/51 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 205 | |
| Speed of rotation | rpm | 5-30 | |
| Crowd system | | | |
| Crowd force | kN | 165 | |
| Line pull | kN | 160 | |
| Stroke | mm | 4,200 | |
| Main winch | | | |
| Line pull | kN | 185 | |
| Rope diameter | mm | 28 | |
| Max. line speed | m/min | 75 | |
| Auxiliary winch | | | |
| Line pull | kN | 60 | |
| Rope diameter | mm | 14 | |
| Max. line speed | m/min | 75 | |
| Mast inclination | | | |
| Forward/backward | ° | 5/90 | |
| Lateral | ° | ±3 | |
| Main Chassis | | | |
| Base engine | | ISUZU AH-6HK1X | |
| Engine power | kW/rpm | 212/2,000 | |
| Emission regulation | | COM III /R96 | |
| Engine displacement | L | 7.79 | |
| Chassis length | mm | 6,377 | |
| Extended width | mm | 4,180 | |
| Track shoe width | mm | 700 | |
| Swing radius | mm | 3,805 | backside |
| Overall machine | | | |
| Overall height | mm | 21,042 | |
| Operating weight | t | 63 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,212 | |
| Transport height | mm | 3,560 | |

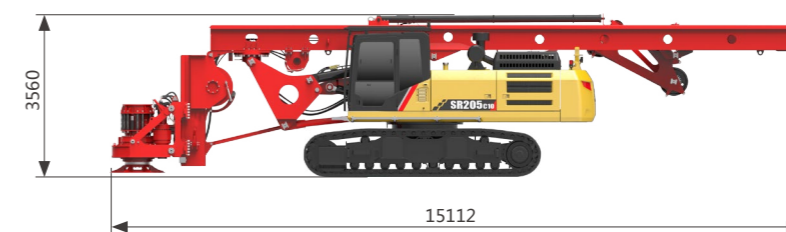
| Configuration table | Option | Option | Option |
|---------------------------------|--------|---------------------------------|--------|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | Crowd force measuring | ● |
| Mast sideward limits | ● | Rotating speed measuring | ○ |
| Boom working range measuring | ● | Torque measuring | ● |
| Cab anticollision protection | ● | Multi-gear control system | ● |
| MAIN WINCH : | | MAIN CHASSIS : | |
| Overload measuring | ● | Oil pressure measuring device | ● |
| Ground touching protection | ● | All-directional lighting system | ● |
| Freewheel control | ● | Slew angle measuring | ● |
| Fast lowering | ● | Emergency stop switch | ● |
| Camera monitoring system | ● | Slew siren | ● |
| Speed measuring | ● | Diesel-electric pump | ● |
| Depth measuring | ● | Auto idle model | ● |
| Upper limit protection function | ● | Low temperature preheat unit | ○ |
| AUXILIARY WINCH : | | OPERATION SYSTEM : | |
| Upper limit protection function | ● | Integrated overload protection | ● |
| CROWD SYSTEM : | | SANY-ADMS control system | |
| Cylinder crowd system | ● | Casing driver | ○ |
| | | Air-conditioner | ● |
| | | Radio | ● |

● Standard ○ Optional

Working dimensions



Lowering the mast dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| Φ406 × 5 × 14 | 8,600 | 64 | Φ406 × 4 × 13 | 8,300 | 47 |
| | | | Φ406 × 4 × 14 | 8,900 | 51 |

● Standard ★ Recommended equipment



| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|----------------|--|
| Pile | | | |
| Max. pile diameter | mm | 2,000 | 2,300(specific) [®] |
| Max. pile depth | m | 68/54 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 235 | |
| Speed of rotation | rpm | 5~26 | |
| Crowd system | | | |
| Crowd force | kN | 210 | |
| Line pull | kN | 215 | |
| Stroke | mm | 5,000 | |
| Main winch | | | |
| Line pull | kN | 235 | |
| Rope diameter | mm | 32 | |
| Max. line speed | m/min | 70 | |
| Auxiliary winch | | | |
| Line pull | kN | 80 | |
| Rope diameter | mm | 20 | |
| Max. line speed | m/min | 70 | |
| Mast inclination | | | |
| Forward/backward | ° | 5/90 | |
| Lateral | ° | ±3 | |
| Main Chassis | | | |
| Base engine | | ISUZU AH-6UZ1X | |
| Engine power | kW/rpm | 257/2,000 | |
| Emission regulation | | COM III/R96 | |
| Engine displacement | L | 9.84 | |
| Chassis length | mm | 7,265 | |
| Extended width | mm | 4,500 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 4,360 | backside |
| Overall machine | | | |
| Overall height | mm | 22,872 | |
| Operating weight | t | 81 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,542 | |
| Transport height | mm | 3,661 | |

Note : ① remove the lower mast, please contact Sany for kelly model.

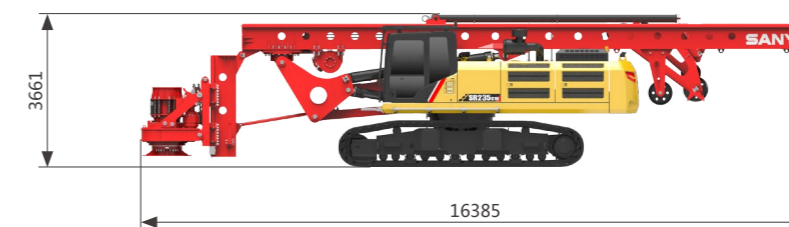
| Configuration table | Option | Option | Option |
|---------------------------------|--------|--|--|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | Cylinder crowd system | ● Radio |
| Mast sideward limits | ● | Crowd force measuring | ● Gradiometer |
| Boom working range measuring | ● | ROTARY DRIVE : | ○ Anemometer |
| Cab anticollision protection | ● | Torque measuring | ● Caution light |
| | | Multi-gear control system | ● OPERATION SYSTEM : |
| | | MAIN WINCH : | 10-inch touch screen |
| Overload measuring | ● | MAIN CHASSIS : | ● SANY-ADMS control system |
| Ground touching protection | ● | Oil pressure measuring device | ● E-Pad |
| Freewheel control | ● | All-directional lighting system | ● Central test point |
| Fast lowering | ● | Slew angle measuring | ● Fault self-diagnosis system |
| Camera monitoring system | ● | Emergency stop switch | ● Intelligent construction management system |
| Speed measuring | ● | Slew siren | ● |
| Depth measuring | ● | Diesel-electric pump | ● |
| Upper limit protection function | ● | Auto idle model | ● All-directional camera monitoring system |
| | | Low temperature preheat unit | ○ |
| | | Integrated overload protection | ● Digital simulation animation |
| | | Auto/manual mast verticality-adjusting | ○ |
| | | Casing driver | ○ |
| | | Air-conditioner | ● |

● Standard ○ Optional

Working dimensions



Lowering the mast dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| φ 445 × 5 × 13 | 9,600 | 58 | φ 445 × 3 × 15 | 10,300 | 40 |
| φ 445 × 5 × 14 | 10,300 | 63 | φ 445 × 4 × 12 | 9,300 | 42 |
| φ 445 × 5 × 15 | 10,900 | 68 | φ 445 × 4 × 13 | 8,100 | 46 |
| | | | φ 445 × 4 × 14 | 10,600 | 50 |
| | | | φ 445 × 4 × 15 | 11,300 | 54 |

● Standard ★ Recommended equipment
★ Equipped with the maximum length kelly bar for 4m casing



| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|----------------|--|
| Pile | | | |
| Max. pile diameter | mm | 2,200 | 2,500(specific) [Ⓞ] |
| Max. pile depth | m | 73/58 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 265 | |
| Speed of rotation | rpm | 5~25 | |
| Crowd system | | | |
| Crowd force | kN | 230 | |
| Line pull | kN | 210 | |
| Stroke | mm | 5,000 | |
| Main winch | | | |
| Line pull | kN | 275 | |
| Rope diameter | mm | 32 | |
| Max. line speed | m/min | 80 | |
| Auxiliary winch | | | |
| Line pull | kN | 80 | |
| Rope diameter | mm | 20 | |
| Max. line speed | m/min | 70 | |
| Mast inclination | | | |
| Forward/backward | ° | 5/90 | |
| Lateral | ° | ±3 | |
| Main Chassis | | | |
| Base engine | | ISUZU AH-6UZ1X | |
| Engine power | kW/rpm | 257/2,000 | |
| Emission regulation | | COM III/R96 | |
| Engine displacement | L | 9.84 | |
| Chassis length | mm | 7,265 | |
| Extended width | mm | 4,500 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 4,360 | backside |
| Overall machine | | | |
| Overall height | mm | 23,870 | |
| Operating weight | t | 85 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,542 | |
| Transport height | mm | 3,686 | |

Note : ① remove the lower mast, please contact Sany for kelly model.

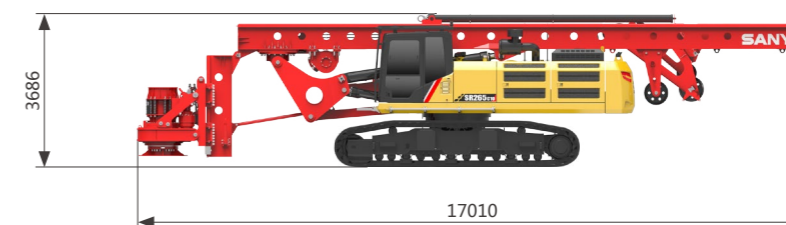
| Configuration table | Option | Option | Option |
|---------------------------------|--------|--|--------|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | Cylinder crowd system | ● |
| Mast sideward limits | ● | Crowd force measuring | ● |
| Boom working range measuring | ● | ROTARY DRIVE : | ○ |
| Cab anticollision protection | ● | Torque measuring | ● |
| MAIN WINCH : | | Multi-gear control system | ● |
| Overload measuring | ● | OPERATION SYSTEM : | |
| Ground touching protection | ● | 10-inch touch screen | ● |
| Freewheel control | ● | Oil pressure measuring device | ● |
| Fast lowering | ● | All-directional lighting system | ● |
| Camera monitoring system | ● | Slew angle measuring | ● |
| Speed measuring | ● | Emergency stop switch | ● |
| Depth measuring | ● | Diesel-electric pump | ● |
| Upper limit protection function | ● | Auto idle model | ● |
| AUXILIARY WINCH : | | Intelligent construction management system | ● |
| Upper limit protection function | ● | All-directional camera monitoring system | ● |
| CROWD SYSTEM : | | Digital simulation animation | ● |
| | ● | Integrated overload protection | ● |
| | ○ | Casing driver | ○ |
| | ● | Air-conditioner | ● |
| | ○ | Auto/manual mast verticality-adjusting | ○ |

● Standard ○ Optional

Working dimensions



Lowering the mast dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| φ445×5×13 | 9,600 | 58 | φ445×3×15 | 10,300 | 40 |
| φ445×5×14 | 10,300 | 63 | φ445×4×13 | 8,100 | 46 |
| φ445×5×15 | 10,900 | 68 | φ445×4×14 | 10,600 | 50 |
| φ445×5×16 | 11,700 | 73 | φ445×4×15 | 11,300 | 54 |
| | | | φ445×4×16 | 12,000 | 58 |

● Standard ★ Recommended equipment
★ Equipped with the maximum length kelly bar for 4m casing



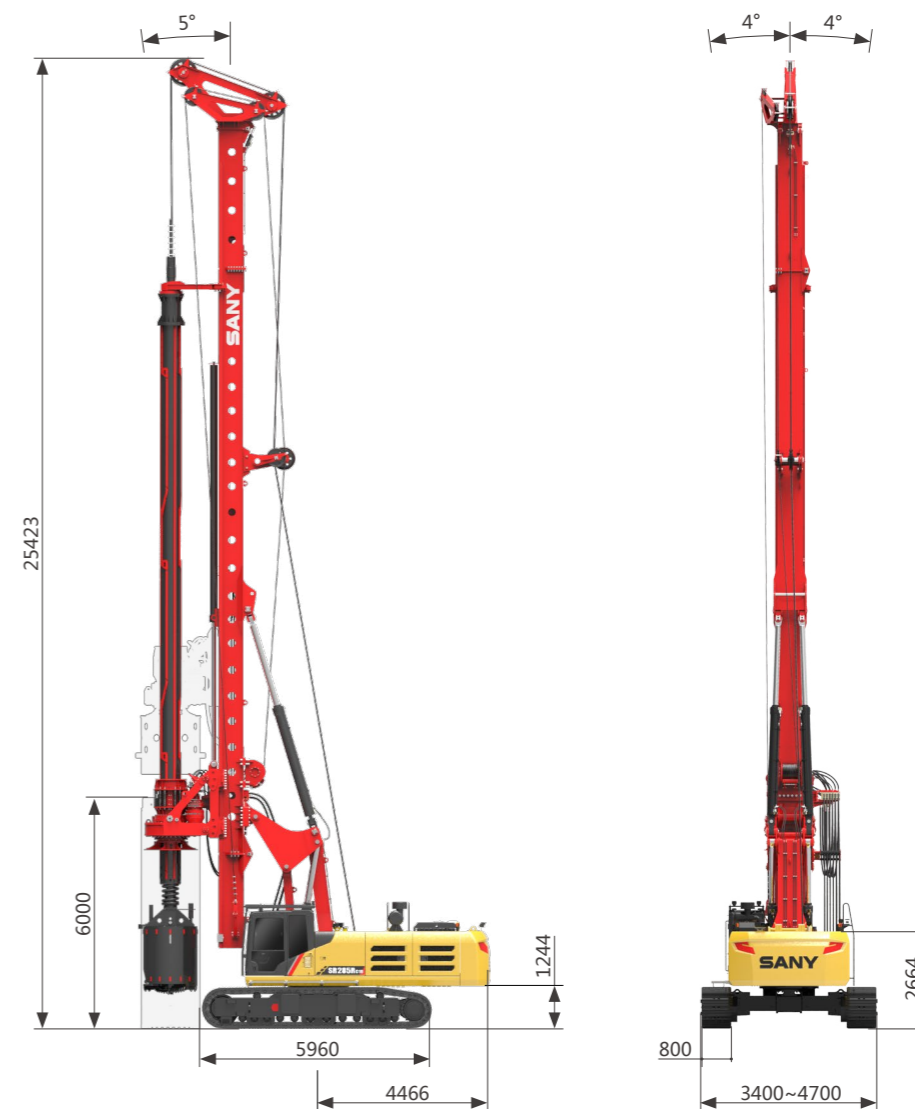
| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|----------------|--|
| Pile | | | |
| Max. pile diameter | mm | 2,300 | 2,500(specific) [Ⓞ] |
| Max. pile depth | m | 94/61 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 285 | |
| Speed of rotation | rpm | 5~23 | |
| Crowd system | | | |
| Crowd force | kN | 260 | |
| Line pull | kN | 253 | |
| Stroke | mm | 6000 | |
| Main winch | | | |
| Line pull | kN | 330 | |
| Rope diameter | mm | 36 | |
| Max. line speed | m/min | 72 | |
| Auxiliary winch | | | |
| Line pull | kN | 90 | |
| Rope diameter | mm | 20 | |
| Max. line speed | m/min | 70 | |
| Mast inclination | | | |
| Forward/backward | ° | 5/90 | |
| Lateral | ° | ±4 | |
| Main Chassis | | | |
| Base engine | | ISUZU AH-6WG1X | |
| Engine power | kW/rpm | 300/1,800 | |
| Emission regulation | | COM III /R96 | |
| Engine displacement | L | 15.68 | |
| Chassis length | mm | 7,473 | |
| Extended width | mm | 4,700 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 4,530 | backside |
| Overall machine | | | |
| Overall height | mm | 25,423 | |
| Operating weight | t | 100 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,542 | |
| Transport height | mm | 3,706 | |

Note : Ⓞ remove the lower mast, please contact Sany for kelly model.

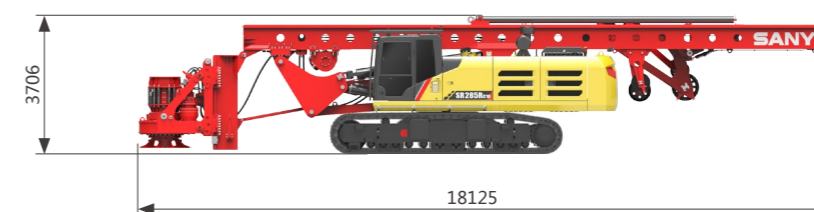
| Configuration table | Option | Option | Option |
|---------------------------------|--------|--|--------|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | Cylinder crowd system | ● |
| Mast sideward limits | ● | Crowd force measuring | ● |
| Masthead cylinder | ● | ROTARY DRIVE : | ● |
| Boom working range measuring | ● | Torque measuring | ● |
| Cab anticollision protection | ● | Multi-gear control system | ● |
| MAIN WINCH : | | OPERATION SYSTEM : | |
| Overload measuring | ● | Oil pressure measuring device | ● |
| Ground touching protection | ● | All-directional lighting system | ● |
| Freewheel control | ● | Slew angle measuring | ● |
| Fast lowering | ● | Emergency stop switch | ● |
| Camera monitoring system | ● | Slew siren | ● |
| Speed measuring | ● | Diesel-electric pump | ● |
| Depth measuring | ● | Auto centralized lubricating-system | ● |
| Upper limit protection function | ● | All-directional camera monitoring system | ● |
| AUXILIARY WINCH : | | Low temperature preheat unit | ○ |
| Upper limit protection function | ● | Integrated overload protection | ● |
| CROWD SYSTEM : | | Casing driver | ○ |

● Standard ○ Optional

Working dimensions



Lowering the mast dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| φ508×6×12 | 12,000 | 61.5 | φ508×3×15 | 13,900 | 40 |
| φ508×6×14 | 13,700 | 75.5 | φ508×4×13 | 10,900 | 45 |
| φ508×6×15 | 14,600 | 81.5 | φ508×4×14 | 11,700 | 49 |
| φ508×6×16 | 15,300 | 87.5 | φ508×4×15 | 12,500 | 53 |
| φ508×6×17 | 15,900 | 94 | φ508×4×16 | 13,100 | 57 |
| | | | φ508×4×17 | 13,700 | 61 |

● Standard ★ Recommended equipment
★ Equipped with the maximum length kelly bar for 6m casing



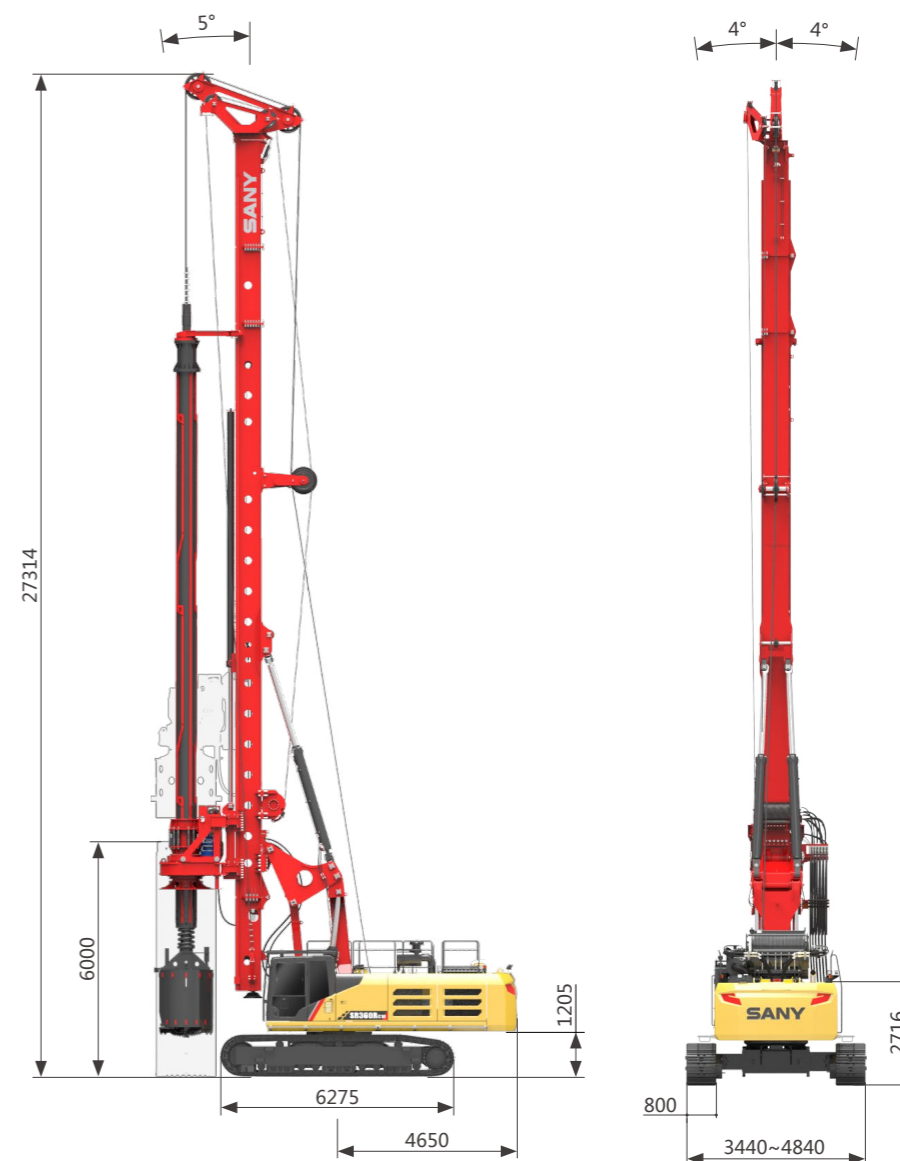
| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|----------------|--|
| Pile | | | |
| Max. pile diameter | mm | 2,500 | 3,000(specific) [Ⓞ] |
| Max. pile depth | m | 106/69 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 360 | |
| Speed of rotation | rpm | 5~25 | |
| Crowd system | | | |
| Crowd force | kN | 290 | |
| Line pull | kN | 250 | |
| Stroke | mm | 6,000 | |
| Main winch | | | |
| Line pull | kN | 360 | |
| Rope diameter | mm | 36 | |
| Max. line speed | m/min | 75 | |
| Auxiliary winch | | | |
| Line pull | kN | 90 | |
| Rope diameter | mm | 20 | |
| Max. line speed | m/min | 70 | |
| Mast inclination | | | |
| Forward/backward | ° | 4/90 | |
| Lateral | ° | ±4 | |
| Main Chassis | | | |
| Base engine | | ISUZU AH-6WG1X | |
| Engine power | kW/rpm | 300/1,800 | |
| Emission regulation | | COM III/R96 | |
| Engine displacement | L | 15.68 | |
| Chassis length | mm | 7,850 | |
| Extended width | mm | 4,840 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 4,705 | backside |
| Overall machine | | | |
| Overall height | mm | 27,314 | |
| Operating weight | t | 114 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,532 | |
| Transport height | mm | 3,744 | |

Note : Ⓞ remove the lower mast, please contact Sany for kelly model.

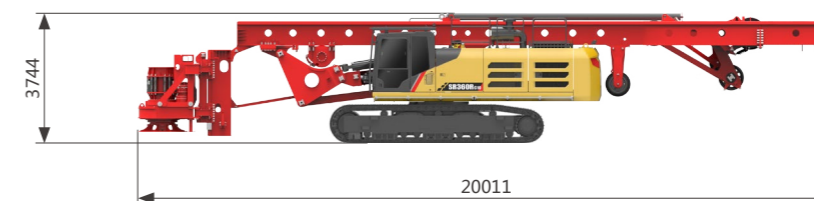
| Configuration table | Option | Option | Option |
|---------------------------------|--------|-------------------------------------|--------|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | Crowd force measuring | ● |
| Mast sideward limits | ● | ROTARY DRIVE : | ● |
| Masthead cylinder | ● | Rotating speed measuring | ● |
| Boom working range measuring | ● | Torque measuring | ● |
| Cab anticollision protection | ● | Multi-gear control system | ● |
| MAIN WINCH : | | | |
| Overload measuring | ● | Oil pressure measuring device | ● |
| Ground touching protection | ● | All-directional lighting system | ● |
| Freewheel control | ● | Slew angle measuring | ● |
| Fast lowering | ● | Emergency stop switch | ● |
| Camera monitoring system | ● | Slew siren | ● |
| Speed measuring | ● | Diesel-electric pump | ● |
| Depth measuring | ● | Auto centralized lubricating-system | ● |
| Upper limit protection function | ● | Auto idle model | ● |
| AUXILIARY WINCH : | | | |
| Upper limit protection function | ● | Low temperature preheat unit | ○ |
| CROWD SYSTEM : | | | |
| Cylinder crowd system | ● | Integrated overload protection | ● |
| | | Casing driver | ○ |

● Standard ○ Optional

Working dimensions



Lowering the mast dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| Φ508 × 6 × 14 | 13,700 | 75.5 | Φ508 × 4 × 14 | 11,700 | 49 |
| Φ508 × 6 × 15 | 14,600 | 81.5 | Φ508 × 4 × 15 | 12,500 | 53 |
| Φ508 × 6 × 16 | 15,300 | 87.5 | Φ508 × 4 × 16 | 13,100 | 57 |
| Φ508 × 6 × 17 | 15,900 | 94 | Φ508 × 4 × 17 | 13,700 | 61 |
| Φ508 × 6 × 18 | 16,800 | 100 | Φ508 × 4 × 18 | 14,600 | 65 |
| Φ508 × 6 × 19 | 17,300 | 106 | Φ508 × 4 × 19 | 15,500 | 69 |

● Standard ★ Recommended equipment Ⓞ Please contact with Sany for special advice
 ★ Equipped with the maximum length kelly bar for 6m casing

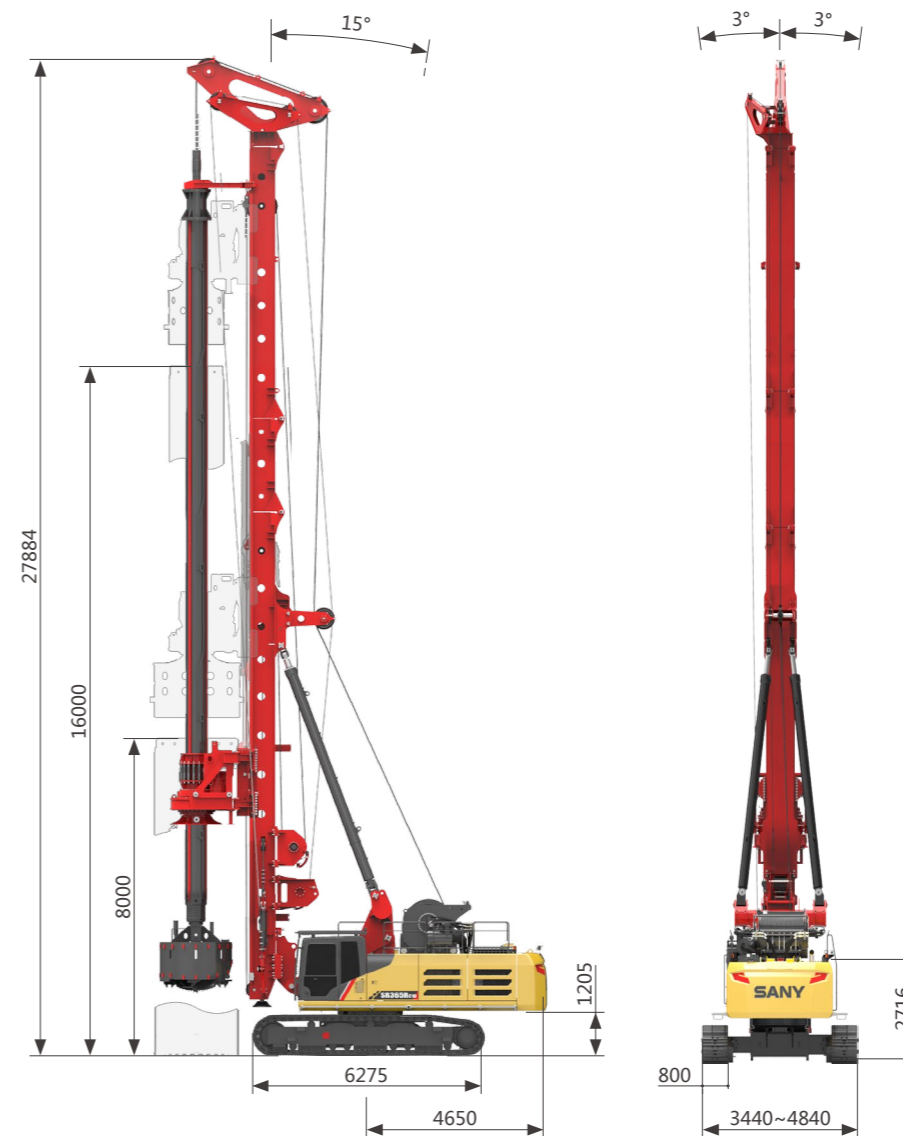


| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|--------------------|--|
| Pile | | | |
| Max. pile diameter | mm | 2,500/2,100 | winch crowd: none casing/casing |
| | mm | 2,700/2,400 | cylinder crowd: none casing/casing |
| Max. pile depth | m | 106/69 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 365 | |
| Speed of rotation | rpm | 4~23 | |
| Crowd system | | | |
| Crowd force | kN | 320 | |
| Line pull | kN | 325 | |
| Stroke | mm | 9,000~18,000/6,000 | half-full stroke/cylinder crowd |
| Main winch | | | |
| Line pull | kN | 410 | |
| Rope diameter | mm | 36 | |
| Max. line speed | m/min | 75 | |
| Auxiliary winch | | | |
| Line pull | kN | 90 | |
| Rope diameter | mm | 20 | |
| Max. line speed | m/min | 70 | |
| Mast inclination | | | |
| Forward/backward | ° | 90/15 | |
| Lateral | ° | ±3 | |
| Main Chassis | | | |
| Base engine | | ISUZU AH-6WG1X | |
| Engine power | kW/rpm | 300/1,800 | |
| Emission regulation | | COM III /R96 | |
| Engine displacement | L | 15.68 | |
| Chassis length | mm | 7,850 | |
| Extended width | mm | 4,840 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 4,705 | backside |
| Overall machine | | | |
| Overall height | mm | 27,884 | |
| Operating weight | t | 127 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,500 | |
| Transport height | mm | 3,576 | |

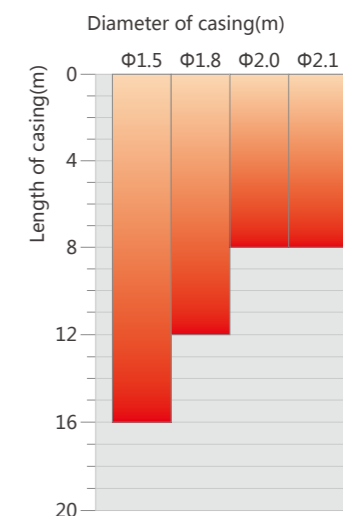
| Configuration table | Option | | Option | | Option |
|---------------------------------|--------|-------------------------------------|--------|--|--------|
| MAST SYSTEM : | | | | | |
| Mast verticality measuring | ● | Crowd upper limit protection | ● | Casing driver | ○ |
| Mast sideward limits | ● | Crowd force measuring | ● | Air-conditioner | ● |
| Outrigger cylinder | ● | ROTARY DRIVE : | | | |
| Boom working range measuring | ● | Rotating speed measuring | ● | Radio | ● |
| Rigging & derigging mode | ● | Torque measuring | ● | Gradiometer | ● |
| | ● | Crowd self-adaption function | ● | Anemometer | ○ |
| | ● | Multi-gear control system | ● | Caution light | ○ |
| MAIN WINCH : | | | | | |
| Overload measuring | ● | OPERATION SYSTEM : | | | |
| Ground touching protection | ● | Oil pressure measuring device | ● | 10-inch touch screen | ● |
| Freewheel control | ● | All-directional lighting system | ● | SANY-ADMS control system | ● |
| Fast lowering | ● | Slew angle measuring | ● | E-Pad | ● |
| Camera monitoring system | ● | Emergency stop switch | ● | Central test point | ● |
| Speed measuring | ● | Slew siren | ● | Fault self-diagnosis system | ● |
| Depth measuring | ● | Diesel-electric pump | ● | Intelligent construction management system | ● |
| Upper limit protection function | ● | Auto centralized lubricating-system | ● | All-directional camera monitoring system | ● |
| AUXILIARY WINCH : | | | | | |
| Upper limit protection function | ● | Auto idle model | ● | Digital simulation animation | ● |
| CROWD SYSTEM : | | | | | |
| Crowd winch system | ● | Low temperature preheat unit | ○ | Auto/manual mast verticality-adjusting | ● |
| Tensioning cylinder | ● | Integrated overload protection | ● | | |

● Standard ○ Optional

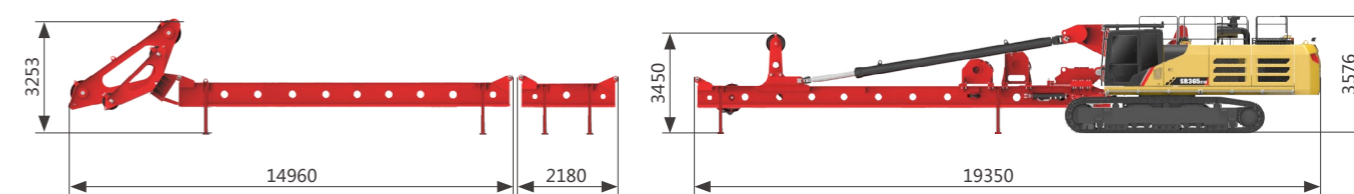
Working dimensions



Casing Parts



Unassembled state dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | 重量kg | 钻深m |
|----------------|------------|----------|---------------------|--------|-----|
| Φ530×6×14 | 13,700 | 76 | Φ530×4×13 ★1 | 12,800 | 49 |
| Φ530×6×15 ★2 | 16,200 | 82 | Φ530×4×15 ★2 | 14,400 | 53 |
| Φ530×6×16 | 16,900 | 88 | Φ530×4×16 | 15,200 | 57 |
| Φ530×6×17 | 17,700 | 94 | Φ530×4×17 ★ | 16,100 | 61 |
| Φ530×6×18 | 18,400 | 100 | Φ530×4×18 ● | 16,900 | 65 |
| Φ530×6×19 ⑤ | 19,100 | 106 | Φ530×4×19 ⑤ | 17,700 | 69 |

● Standard ★ Recommended equipment ★1 Equipped with the maximum length kelly bar for 6m casing
 ⑤ Please contact with Sany for special advice ★2 Equipped with the maximum length kelly bar for 8m casing



| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|----------------|--|
| Pile | | | |
| Max. pile diameter | mm | 2,500/2,800 | winch crowd/cylinder crowd |
| Max. pile depth | m | 112/73 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 405 | |
| Speed of rotation | rpm | 4~23 | |
| Crowd system | | | |
| Crowd force | kN | 350 | |
| Line pull | kN | 325 | |
| Stroke | mm | 9,000/6,000 | winch crowd/cylinder crowd |
| Main winch | | | |
| Line pull | kN | 437 | |
| Rope diameter | mm | 36 | |
| Max. line speed | m/min | 50 | |
| Auxiliary winch | | | |
| Line pull | kN | 90 | |
| Rope diameter | mm | 20 | |
| Max. line speed | m/min | 70 | |
| Mast inclination | | | |
| Forward/backward | ° | 90/15 | |
| Lateral | ° | ±3 | |
| Main Chassis | | | |
| Base engine | | ISUZU AH-6WG1X | |
| Engine power | kW/rpm | 377/1,800 | |
| Emission regulation | | COM III/R96 | |
| Engine displacement | L | 15.68 | |
| Chassis length | mm | 7,908 | |
| Extended width | mm | 4,900 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 4,650 | backside |
| Overall machine | | | |
| Overall height | mm | 28,884 | |
| Operating weight | t | 141 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,600 | |
| Transport height | mm | 3,844 | |

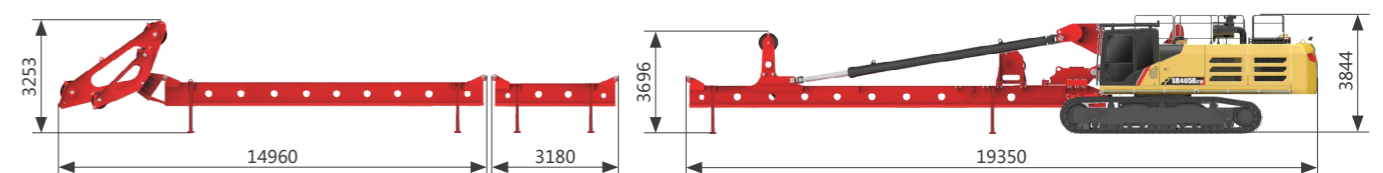
| Configuration table | Option | Option | Option |
|---------------------------------|--------|-------------------------------------|--------|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | Crowd upper limit protection | ○ |
| Mast sideward limits | ● | Crowd force measuring | ● |
| Outrigger cylinder | ● | ROTARY DRIVE : | ● |
| Boom working range measuring | ● | Rotating speed measuring | ● |
| Rigging & derigging mode | ● | Torque measuring | ○ |
| MAIN WINCH : | ● | Crowd self-adaption function | ○ |
| Overload measuring | ● | Multi-gear control system | ● |
| Ground touching protection | ● | OPERATION SYSTEM : | ● |
| Freewheel control | ● | 10-inch touch screen | ● |
| Fast lowering | ● | Oil pressure measuring device | ● |
| Camera monitoring system | ● | All-directional lighting system | ● |
| Speed measuring | ● | Slew angle measuring | ● |
| Depth measuring | ● | Emergency stop switch | ● |
| Upper limit protection function | ● | Diesel-electric pump | ● |
| AUXILIARY WINCH : | ● | Auto centralized lubricating-system | ● |
| Upper limit protection function | ● | Auto idle model | ● |
| CROWD SYSTEM : | ○ | Low temperature preheat unit | ○ |
| Crowd winch system | ● | Integrated overload protection | ● |
| Tensioning cylinder | ● | | |

● Standard ○ Optional

Working dimensions



Unassembled state dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| φ530×6×15 | 16,200 | 82 | φ530×4×15 | 14,400 | 53 |
| φ530×6×16 | 16,900 | 88 | φ530×4×16 | 15,200 | 57 |
| φ530×6×17 | 17,700 | 94 | φ530×4×17 | 16,100 | 61 |
| φ530×6×18 | 18,400 | 100 | φ530×4×18 | 16,900 | 65 |
| φ530×6×19 | 19,100 | 106 | φ530×4×19 | 17,700 | 69 |
| φ530×6×20 | 19,700 | 112 | φ530×4×20 | 18,500 | 73 |

● Standard ★ Recommended equipment
★ Equipped with the maximum length kelly bar for 6m casing

W10

| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|----------------|--|
| Pile | | | |
| Max. pile diameter | mm | 2,000 | |
| Max. pile depth | m | 68/54 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 235 | |
| Speed of rotation | rpm | 5~27 | |
| Crowd system | | | |
| Crowd force | kN | 210 | |
| Line pull | kN | 210 | |
| Stroke | mm | 15,000 | |
| Main winch | | | |
| Line pull | kN | 250 | |
| Rope diameter | mm | 32 | |
| Max. line speed | m/min | 70 | |
| Auxiliary winch | | | |
| Line pull | kN | 80 | |
| Rope diameter | mm | 20 | |
| Max. line speed | m/min | 80 | |
| Mast inclination | | | |
| Forward/backward | ° | 5/90 | |
| Lateral | ° | ±3 | |
| Main Chassis | | | |
| Base engine | | ISUZU AH-6UZ1X | |
| Engine power | kW/rpm | 257/2,000 | |
| Emission regulation | | COM III /R96 | |
| Engine displacement | L | 9.84 | |
| Chassis length | mm | 7,265 | |
| Extended width | mm | 4,500 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 4,360 | backside |
| Overall machine | | | |
| Overall height | mm | 22,870 | |
| Operating weight | t | 85 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,542 | |
| Transport height | mm | 3,576 | |

Note : ① remove the lower mast, please contact Sany for kelly model.

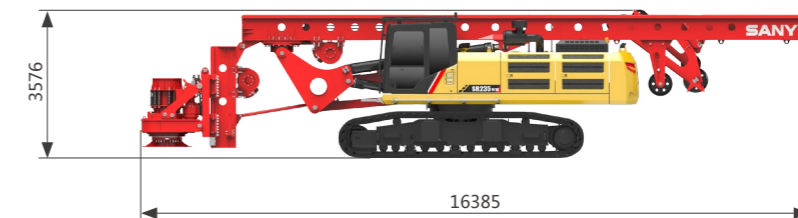
| Configuration table | Option | Option | Option |
|---------------------------------|--------|---------------------------------|--------|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | Cylinder crowd system | ● |
| Mast sideward limits | ● | Crowd force measuring | ● |
| Boom working range measuring | ● | ROTARY DRIVE : | ○ |
| Cab anticollision protection | ● | Torque measuring | ● |
| MAIN WINCH : | | Multi-gear control system | ● |
| Overload measuring | ● | OPERATION SYSTEM : | |
| Ground touching protection | ● | Oil pressure measuring device | ● |
| Freewheel control | ● | All-directional lighting system | ● |
| Fast lowering | ● | Slew angle measuring | ● |
| Camera monitoring system | ● | Emergency stop switch | ● |
| Speed measuring | ● | Slew siren | ● |
| Depth measuring | ● | Diesel-electric pump | ● |
| Upper limit protection function | ● | Auto idle model | ● |
| AUXILIARY WINCH : | | Low temperature preheat unit | ○ |
| Upper limit protection function | ● | Integrated overload protection | ● |
| CROWD SYSTEM : | | Casing driver | ○ |
| | | Air-conditioner | ● |

● Standard ○ Optional

Working dimensions



Lowering the mast dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| Φ 445 × 5 × 13 | 9,600 | 58 | Φ 445 × 3 × 15 | 10,300 | 40 |
| Φ 445 × 5 × 14 | 10,300 | 63 | Φ 445 × 4 × 12 | 9,300 | 42 |
| Φ 445 × 5 × 15 | 10,900 | 68 | Φ 445 × 4 × 13 | 8,100 | 46 |
| | | | Φ 445 × 4 × 14 | 10,600 | 50 |
| | | | Φ 445 × 4 × 15 | 11,300 | 54 |

● Standard ★ Recommended equipment
★ Equipped with the maximum length kelly bar for 4m casing

W10

| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|----------------|--|
| Pile | | | |
| Max. pile diameter | mm | 2,200/1,900 | none casing/casing |
| Max. pile depth | m | 93.5/61 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN-m | 285 | |
| Speed of rotation | rpm | 5-24 | |
| Crowd system | | | |
| Crowd force | kN | 260 | |
| Line pull | kN | 280 | |
| Stroke | mm | 17,100 | |
| Main winch | | | |
| Line pull | kN | 330 | |
| Rope diameter | mm | 36 | |
| Max. line speed | m/min | 70 | |
| Auxiliary winch | | | |
| Line pull | kN | 90 | |
| Rope diameter | mm | 20 | |
| Max. line speed | m/min | 70 | |
| Mast inclination | | | |
| Forward/backward | ° | 5/90 | |
| Lateral | ° | ±4 | |
| Main Chassis | | | |
| Base engine | | ISUZU AH-6WG1X | |
| Engine power | kW/rpm | 300/1,800 | |
| Emission regulation | | COM III /R96 | |
| Engine displacement | L | 15.68 | |
| Chassis length | mm | 7,473 | |
| Extended width | mm | 4,700 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 4,530 | backside |
| Overall machine | | | |
| Overall height | mm | 25,408 | |
| Operating weight | t | 105 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,473 | |
| Transport height | mm | 3,611 | |

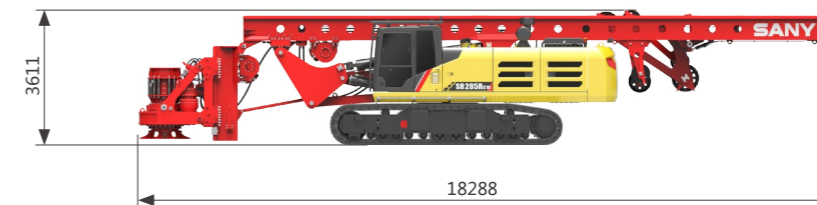
| Configuration table | Option | Option | Option |
|--|--------|--|--------|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | The last three circles limit protection function | ○ |
| Mast sideward limits | ● | CROWD SYSTEM : | |
| Masthead cylinder | ● | Winch crowd system | ○ |
| Boom working range measuring | ● | Tensioning cylinder | ● |
| Cab anticollision protection | ● | Upper limit protection function | ● |
| MAIN WINCH : | | | |
| Overload measuring | ● | Crowd force measuring | ○ |
| Ground touching protection | ● | ROTARY DRIVE : | |
| Freewheel control | ● | Torque measuring | ○ |
| Fast lowering | ● | Speed measuring | ● |
| Camera monitoring system | ● | Multi-gear control system | ● |
| Speed measuring | ● | OPERATION SYSTEM : | |
| Depth measuring | ● | All-directional lighting system | ● |
| Upper limit protection function | ● | Slew angle measuring | ● |
| The last three circles limit - protection function | ○ | Emergency stop switch | ● |
| AUXILIARY WINCH : | | | |
| Overload measuring | ● | Slew siren | ● |
| Upper limit protection function | ● | Diesel-electric pump | ● |
| | ● | Auto centralized lubricating-system | ● |
| | ● | Auto/manual mast verticality-adjusting | ● |

● Standard ○ Optional

Working dimensions



Lowering the mast dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| φ508×6×12 | 12,000 | 61.5 | φ508×3×15 | 13,900 | 40 |
| φ508×6×14 | 13,700 | 75.5 | φ508×4×13 | 10,900 | 45 |
| φ508×6×15 | 14,600 | 81.5 | φ508×4×14 | 11,700 | 49 |
| φ508×6×16 | 15,300 | 87.5 | φ508×4×15 | 12,500 | 53 |
| φ508×6×17 | 15,900 | 93.5 | φ508×4×16 | 13,100 | 57 |
| | | | φ508×4×17 | 13,700 | 61 |

● Standard ★ Recommended equipment
★ Equipped with the maximum length kelly bar for 6.5m casing

| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|------------------------|--|
| Pile | | | |
| Max. pile diameter | mm | 2,500 | |
| Max. pile depth | m | 94/63 | friction kelly/inter-locking kelly |
| Rotary Drive | | | |
| Max. output torque | kN·m | 360 | |
| Speed of rotation | rpm | 5-20 | |
| Crowd system | | | |
| Crowd force | kN | 320 | |
| Line pull | kN | 320 | |
| Stroke | mm | 8,000 | |
| Main winch | | | |
| Line pull | kN | 390 | |
| Rope diameter | mm | 36 | |
| Max. line speed | m/min | 60 | |
| Auxiliary winch | | | |
| Line pull | kN | 90 | |
| Rope diameter | mm | 20 | |
| Max. line speed | m/min | 70 | |
| Mast inclination | | | |
| Forward/backward | ° | 90/15 | |
| Lateral | ° | ±3 | |
| Main Chassis | | | |
| Base engine | | CAT C-13 | |
| Engine power | kW/rpm | 305/1,800 | |
| Emission regulation | | EU stage III/EPA Tier3 | |
| Engine displacement | L | 12.5 | |
| Chassis length | mm | 8,093 | |
| Extended width | mm | 4,400 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 5,100 | backside |
| Overall machine | | | |
| Overall height | mm | 26,970 | |
| Operating weight | t | 120 | with a standard kelly and the largest bucket |
| Transport width | mm | 3,000 | |
| Transport height | mm | 3,450 | |

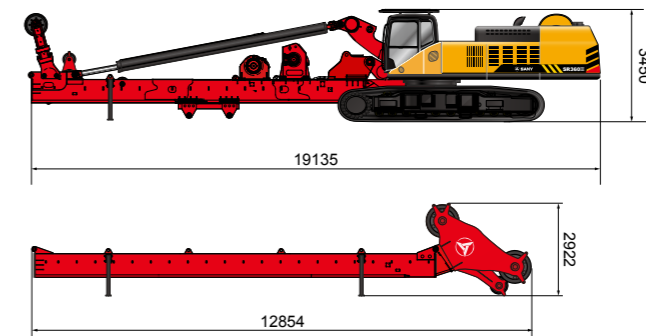
| Configuration table | Option | Option | Option |
|---------------------------------|--------|-------------------------------------|--------|
| MAST SYSTEM : | | | |
| Mast verticality measuring | ● | Tensioning cylinder | ● |
| Mast sideward limits | ● | Crowd upper limit protection | ● |
| Outrigger cylinder | ● | Crowd force measuring | ○ |
| Rigging & derigging mode | ● | ROTARY DRIVE | ● |
| MAIN WINCH : | | | |
| Overload measuring | ● | Rotating speed measuring | ● |
| Ground touching protection | ● | Multi-gear control system | ● |
| Freewheel control | ● | MAIN CHASSIS : | ○ |
| Camera monitoring system | ● | Oil pressure measuring device | ● |
| Speed measuring | ● | lighting | ● |
| Depth measuring | ● | Slew angle measuring | ● |
| Upper limit protection function | ● | Emergency stop switch | ● |
| AUXILIARY WINCH : | | | |
| Upper limit protection function | ● | Diesel-electric pump | ● |
| CROWD SYSTEM : | | | |
| | ● | Auto centralized lubricating system | ● |

● Standard ○ Optional

Working dimensions



Unassembled state dimensions



Type of kelly bar

| Friction kelly | Weight(kg) | Depth(m) | Inter-locking kelly | Weight(kg) | Depth(m) |
|----------------|------------|----------|---------------------|------------|----------|
| φ580×6×14 | 16,000 | 73 | φ580×4×13 | 14,800 | 45 |
| φ580×6×16 | 18,300 | 85 | φ580×4×14 | 15,800 | 49 |
| φ580×6×17 | 19,400 | 91 | φ580×4×16 ★ | 17,700 | 57 |
| φ580×6×17.5 | 20,000 | 94 | φ580×4×17 | 18,700 | 61 |
| | | | φ580×4×17.5 ● | 19,200 | 63 |

● Standard ★ Recommended equipment

Sany SCG150E8 casing oscillator is suitable for various models of rotary drilling rigs (please contact with sany for the using way).

Greater embedding pressure can be achieved by Casing oscillator instead of Casing Drive Adapter, casing can be embedded even in hard layers.

Casing oscillator owns such merits as strong adaptability to geology, high quality of completed pile, low noise, no mud contamination, slight influence to former foundation, easy control, low cost, etc.

It owns advantages in following geological conditions: instable layer, underground slip layer, underground river, rock formation, old pile, erratic boulder, quicksand, foundation of emergency and temporary building.

| Main performances | Unit | Parameter | Remark |
|---------------------------|------|-----------|--------|
| Overall parameters | | | |
| Overall length | mm | 4,965 | |
| Overall width | mm | 2,680 | |
| Overall height | mm | 1,635 | |
| weight | t | 15 | |
| Working parameters | | | |
| Casing diameter | mm | 1,500 | |
| Operating pressure | MPa | 32 | |
| Max. torque | kN·m | 2,400 | |
| Stroke | mm | 500 | |
| Max. lifting force | kN | 1,950 | |
| Clamping force | kN | 1,600 | |
| Rotation angle | ° | 25 | |
| Travel of casing | mm | 327 | |
| Height of calmping collar | mm | 550 | |



SANY SRF series desander used to clean and purify slurry in piling construction carried out in sandy stratum has the properties of simple operation, easy maintenance, environmental protection. Double screen mesh was adopted in filter system to improve working efficiency by 50% compared with the traditional single mesh one. It is characterized of outstanding cleaning and purifying ability, long service life and high reliability.

| Main performances | Unit | SRF100 | SRF250 |
|---------------------------|-------------------|--------|--------|
| Overall parameters | | | |
| Overall length | mm | 3,000 | 3,500 |
| Overall width | mm | 2,000 | 2,200 |
| Overall height | mm | 2,400 | 2,800 |
| weight | kg | 3,500 | 5,200 |
| Working parameters | | | |
| Slurry feed capacity | m ³ /h | 100 | 250 |
| Cut point | μm | 50 | 60 |
| Solids feed capacity | T/h | 25~50 | 25~80 |
| Power | kW | 24.2 | 58 |



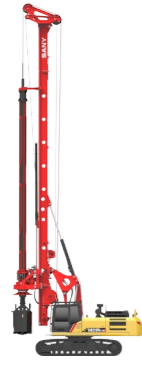


■ C10 ROTARY DRILLING RIG



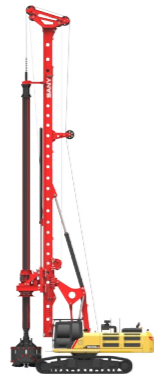
SR155C10

Max. Drilling Depth: 56m
Max. Drilling Dia. : 1,500mm



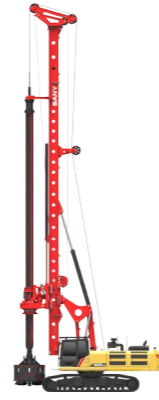
SR205C10

Max. Drilling Depth: 64m
Max. Drilling Dia. : 1,800mm



SR235C10

Max. Drilling Depth: 68m
Max. Drilling Dia. : 2,300mm(specific)



SR265C10

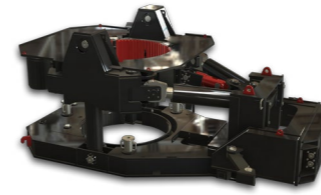
Max. Drilling Depth: 73m
Max. Drilling Dia. : 2,500mm(specific)



SR285RC10

Max. Drilling Depth: 94m
Max. Drilling Dia. : 2,500mm(specific)

■ Casing Oscillator



SCG150E8

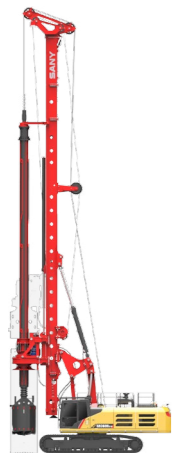
Max. Casing diameter: 1,500mm
Max. Torque: 2,400kN.m

■ Desander



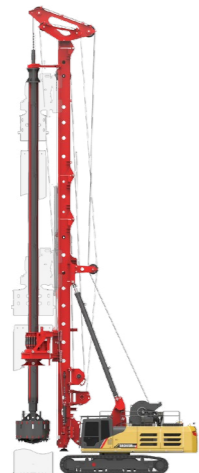
SRF50-SRF500

Slurry feed capacity: 50-500m³/h
Solids feed capacity: 26-240T/h



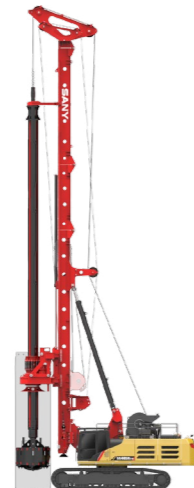
SR360RC10

Max. Drilling Depth: 106m
Max. Drilling Dia. : 3,000mm(specific)



SR365RC10

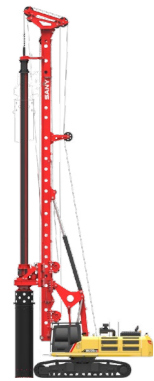
Max. Drilling Depth: 106m
Max. Drilling Dia. : 2,700mm



SR405RC10

Max. Drilling Depth: 112m
Max. Drilling Dia. : 2,800mm

■ C10 ROTARY DRILLING RIG



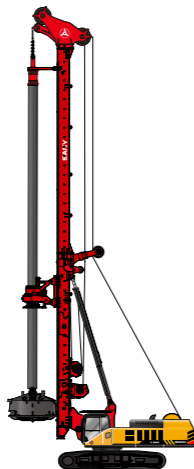
SR235W10

Max. Drilling Depth: 68m
Max. Drilling Dia. : 2,000mm



SR285RW10

Max. Drilling Depth: 93.5m
Max. Drilling Dia. : 2,200mm



SR360 III

Max. Drilling Depth: 94m
Max. Drilling Dia. : 2,500mm

■ ROTARY DRILLING RIG(CAT)



Advantages of Sany Kelly bar



- 1. Time verified**
Verified by long time using, economic and high efficient, Sany Kelly bar has been widely used in the civil foundation construction.
- 2. More reliable**
With the most advanced welding robots, CNC automatic cutting machines and other advanced equipments, high components precision and welding quality guarantee high reliability.
- 3. Longer service life**
Specific debugging filed is established to simulate real Kelly bar working conditions to analyze and improve key parts, like the drive key service life is significantly increased with Sany self developed high strength anti-wearing steel.
- 4. Optimized structure**
Static analysis, dynamic analysis and fatigue analysis are taken with the most advanced analysis software like ANSYS and ADAMS during the designing process, which optimize Kelly bar with lighter weight and better structure without any missing of the design requirements. Dozens of patents have been applied by Sany in this field which keeps Sany's leading position in China.

Drilling tools

SANY can supply with all kinds of standard drilling tools, including DBB-II, DBB-III, CB and so on. For special geological conditions, SANY can also provide special drilling tools accordingly to improve working efficiency. The latest special drilling tools developed by SANY are as follows:

◆ Pilot drilling bucket

Integrate bailing bucket and barrel;
The design of arc reinforcing plate, outside of reinforcing plate welded with transition bending plate;
Hinge is made of high tension steel;

Applicable layers: cave, occlusal pile.



◆ Underreaming bit

Driven by hydraulic cylinder, it can meet the requirements of different pile holes;
The whole process of lowering drilling tool, drilling and lifting drilling tool is visible; the design of pressure plate is convenient for dumping slag;

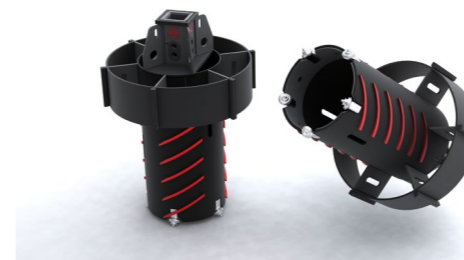
It is suitable for drilling soil, highly weathered hard rock and medium weathered rock soft.



◆ Core barrel with centralizer

Suitable for stage drilling of large diameter bore hole;
The cutting teeth and roller bits are interchangeable;
Centralizer supports the hole wall to avoid drilling an inclined hole;

Applicable layers: medium or slightly decomposed bedrock, hard or superhard bedrock.



◆ Cross-shaped core barrel

Core barrel with cross-typed guide plates in the centre;
During annular cutting, guide plates mill down the rocks;
The capacity of soil conveying and orientation is better than common barrels;

Applicable layers: backfill, pebble layer and highly or medium decomposed dipping formation.



Sany drilling teeth

Compare with other drilling teeth, SANY drilling teeth features the following characteristics:
Better material. After many times of material testing, the wear resistance and the strength of SANY teeth are more than 30% higher than the general products in the market.
Construction based designing. SANY V20 drilling teeth has larger cutting angle and has higher working efficiency, SANY drilling bullet is more adaptive to pebble, gravel and soft rock geological formations.



V20 tooth

Bauer tooth

Long cutting tooth

short cutting tooth

Roller bits



CONSTRUCTION CASES

No matter what kind of terrain environment, Sany rotary drilling rig can work easily.

With characteristics of wide application, high construction efficiency, stable performance, excellent service, environmental protection and energy saving, Sany rotary drilling rigs are widely used in pile foundation of civil engineering, high-speed rail, highway, bridge, airport, water conservancy and hydropower engineering, etc. No matter in city, desert, snow, mountain or river, with suitable drilling head and construction method, all construction issues can be resolved easily by Sany rotary drilling rigs.





Service Network/Parts Warehouses

● Parts Warehouses

▲ Service Network



SERVICE COMMITMENTS

One machine one parts manual.
Global service inspection patrolling is carried out every season.

One month's special service for new machine, including new machine assembling, commissioning, delivery inspection and operator training.

Professional training for oversea clients holds in China twice a year.

Provide service cards and service stickers, set up Global Customer Support Hotline and Global Customer Support Email.

At present, the sales and service system has been established in 30 countries. 280 overseas customer support engineers are working overseas.

Set up 22 oversea parts warehouses, with more than 3,000 kinds of spare parts can be selected by customers.



Global Customer Support Hotline :
0086-4006-09-8318
 Global Customer Support Email :
crd@sany.com.cn

