Our drilling depth determines the height of the world.
NEW WORLDWIDE DEBUT

Rotate for new era  Drill for great future

Stick to the philosophy of quality; lead changes of time
Persistently pursue technology; hold future trend
Adhering to the philosophy of Quality changes the world, Sany created brilliant achievements continuously. In 2014, C8 series rotary drilling rigs made a strong debut. Featured high efficiency, high stability and strong rock-drilling ability, C8 series set a new industry benchmark.

**SOLID PACES MAGNIFICENT CHAPTER**

**2003**
The first Sany rotary drilling rig SYR220 was born.

**2004**
Sany SR220C rotary drilling rig piled the first borehole at the construction site of the National Stadium "Bird's Nest".

**2005**
Manufacture and sales volume ranked the first in China. Beijing Sany became the first manufacture which passed ISO 9001 and CE certifications in China.

**2006**
Manufacture and sales volume ranked the first in Asia.

**2007**
The first Rock drilling rotary rig SR220R was born.

**2008**
SR360 with the largest torque in Asia was developed by our own technology.

**2009**
The successful developing of SR420 represents the rotary drilling rig manufacturing in China stepping from "Made in China" to "Created in China".

**2010**
Beijing Sany ranked the first in manufacture and sales of rotary drilling rig in the world.

**2011**
SR460, the largest rotary drilling rig in Asia was born; SANY was awarded "Customer Satisfaction" by China Quality Association.

**2012**
SR280LH II was developed and entered the new construction field.

**2013**
SR380R rolled off the production line successfully.

**2014**
C8 series made a strong debut. Greater glories are to be created by you and me....
ADVANCED TECHNOLOGY ACHIEVES QUALITY

- **C1** New industrial design
- **C2** The fifth generation of rotary drive
- **C3** New generation of professional chassis
- **C4** Rock drilling and anti-shock technology
- **C5** Hydraulic system with excellent shock resistance ability
- **C6** Drilling tools for super-hard rock
- **C7** Multifunctional
- **C8** S-ADMS control system
C1
New industrial design

Strong; stable
Exquisite; easy-to-operate

C2
The fifth generation of rotary drive

Strong crowd force, increase working efficiency by 27%
High resistance of heavy load and impact
Provide effective protection to Kelly bar
Increase drilling verticality significantly
Dual buffer system, increase protection capability by 53%

Protection capability increases 53%
C3
New generation of professional chassis

Originated from the severe working condition needs, stable and reliable, manufactured from the largest drilling rig workshop in China, quality assurance.

Strong power
- Powerful engine provides strong power
- Energy saving technology decreases fuel consumption

Large crawler extended width
- Increase lateral construction stability by 23%

Low gravity center
- Increase machine construction stability by 37%

Easy to service
- New modular layout facilitates maintenance
**C4**

**Rock drilling and anti-shock technology**

- Anti-shock, anti-fatigue, high strength, stiffness and long operating life
- Light cathead
- Triangle
- Strengthened mast
- New guide pulley yoke
- Heavy mast pivot
- Double-boom mechanism

**C5**

**Hydraulic system with excellent shock resistance ability**

- Hydraulic system buffering technology provides complete protection.
- The professional components developed by our unique technology can resist impact effectively.
- Light cathead
- New guide pulley yoke
- Heavy mast pivot
- Triangle
- Strengthened mast
- Double-boom mechanism

- Travel reducer with heavy load improves performance and durability.
- Optimized main valve provides stability and reliability during compound actions switchover.
- Professional main pump features stability and accuracy.
- Hydraulic cylinder features good shock resistance ability and fine sealing performance.
- Large parking torque ensures stability when impacted by heavy load.
C6
Drilling tools for super-hard rock

Drilling bucket and Kelly bar developed for super-hard rocks can realize fast drilling more than 100MPa hard rock.

New core barrel
New balling bucket with cutting teeth
New core barrel with single layer
New core barrel with roller bits

Roller bits
Long cutting tooth
Short cutting tooth

The cutting tooth developed for super-hard rock features high strength, wear resistance and shock resistance. The layout of cutting teeth can increase the working efficiency by 30%.

C7
Multifunctional

Through years of sustained accumulation of R&D, now the fifth generation of Sany Kelly bar has been developed. It is made in the largest automatic welding production line. With the characteristics of higher strength, lighter weight and longer service life, dozens of patents have been applied by Sany in this field which keeps Sany's leading position in China.

Kelly bar
All casing
CFA
Casing oscillator
Comfortable cab, large size monitor, multifunctional panel, easy-to-operate

Adopt pivoted front window and panoramic sunroof to broaden operator’s view.

The spacious foot area and adjustable seat are adopted which provides wider space and easier operation.

Integrate the controls on the left and right sides ergonomically to facilitate operation.

The active prevention system with more than 260 automatic diagnostic function makes your machine unassailable and at its best status whenever and wherever.

The new ideas bring more intelligent operation.

Integrate the controls on the left and right sides ergonomically to facilitate operation.

The more professional and effective management philosophy makes management easier.

Natural user interface brings new interactive experience.

S-ADMS control system

C8
High cleanliness of hydraulic oil
Equipped with high precision filtering system, the cleanliness of hydraulic oil can be improved from level NASA8 to 7 and the hydraulic failures are decreased significantly.

Energy-saving
Optimize dynamic system and hydraulic system to decrease fuel consumption and the average energy saving can be up to 13%.

Safe
Safety devices such as full-view monitor system, emergency button, escape window and guard rail improve construction safety significantly.

Easy-to-service
The design of divided access door provides enough space for maintenance. Layered layout of hydraulic system facilitates servicing.

Fast switchover
Equipped with multifunctional port for different construction equipments to realize fast switchover.

High construction accuracy
Professional construction control technology ensures drilling verticality.
Technology parameter

**SR315RC8**

### Chassis parameter

- **Engine**
  - ISUZU BB-6WG1XQA-03
- **Engine output**
  - 310kW@1800rpm
- **Emission standard**
  - EU stage II/EPA Tier 2
- **Engine displacement**
  - 15.7 L
- **Chassis length**
  - 7700mm
- **Extended width**
  - 4800mm
- **Track width**
  - 800mm
- **Swing radius backside**
  - 4500mm
- **Transport width**
  - 3500mm
- **Transport height**
  - 3714mm

### Configuration table

| New touch display | Main winch floating control |● |● |
| Auto idle mode |● |● |
| Emergency stop switch |● |● |
| Engine oneclick-fast |● |● |
| GPS/GPRS data transmission |● |● |
| Cylinder limit |● |● |
| Main winch pull measuring |● |● |
| Main winch camera monitor |● |● |
| Mast verticality measur |● |● |
| Mast lateral limiter |● |● |
| Mast outrigger cylinder |● |● |

*Standard | Optional

### Type of Kelly bar

#### Type of Kelly bar

<table>
<thead>
<tr>
<th>Type of Kelly</th>
<th>Weight(kg)</th>
<th>Depth(m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friction Kelly</td>
<td>None</td>
<td>100</td>
</tr>
<tr>
<td>Locking Kelly</td>
<td>None</td>
<td>140</td>
</tr>
</tbody>
</table>

#### Integrated parameter

| Main performances | Unit | C1 | C2 |
| Max.drilling diameter | mm | 2500 |
| Max.drilling depth(friction/locking) | m | 85/57 | 100/63 |
| Rotary drive | |
| Max torque | kN/m | 315 |
| Speed of rotation | rpm | 5-21 |
| Crowd system | |
| Crowd force push | kN | 270 |
| Pull | kN | 280 |
| Stroke | mm | 6500 |

### Main winch

- **Line pull(1st layer)**
  - kN: 300
- **Rope diameter**
  - mm: 36
- **Max.speed**
  - m/min: 75

### Auxiliary winch

- **Line pull(1st layer)**
  - kN: 90
- **Rope diameter**
  - mm: 30
- **Max.speed**
  - m/min: 70

### Mast inclination

- **Forward**
  - °: 4
- **Lateral**
  - °: ±4

### Base machine

- **Dovetail height**
  - mm: 24425
- **Operating weight**
  - kg: 110000

**NOTE**: C1 standard, C2 optional, with extended mast

- Standard
- Optional
- No this configuration
Technology parameter

SR285RC8

- **Chassis parameter**

  | Engine | Mitsubishi 6D24-TLC1B |
  | Engine output | 250kW/2000rpm |
  | Emission standard | EU Stage II / EPA Tier 2 |
  | Chassis length | 7400mm |
  | Extended width | 4740mm |
  | Track width | 800mm |
  | Swing radius backside | 4530mm |
  | Transport width | 3524mm |
  | Transport height | 3721mm |

- **Equipment table**

  - **New touch display**
  - **Main winch floating control**
  - **Slow winch**
  - **Main winch light**
  - **Slow angle measuring**
  - **Auxiliary winch limiter**
  - **Auto idle mode**
  - **Ground touching protection**
  - **Emergency stop switch**
  - **Rotary drive torque output measuring**
  - **Engine oneclick-fast**
  - **Mast outrigger cylinder**
  - **GPS/GPRS data transmission**
  - **Crowd force measuring**
  - **Malfunction diagnosis**
  - **Oil pressure measuring device**
  - **Mast vertically measuring**
  - **Mast rope fast speed down**
  - **Auto/manual mast vertically adjust**
  - **Graderluer**
  - **Mast lateral limiter**
  - **Radio**
  - **Main winch pull measuring**
  - **Real-time drilling-depth measuring**
  - **Main winch camera monitor**
  - **Air-condition**

  - **Standard**

- **Integrated parameter**

  | Main performance | Unit | Parameters |
  | Max drilling diameter | mm | 2300 |
  | Max drilling depth(friction/locking) | m | 88/57 |
  | Engine | 285 |
  | Speed of rotation | rpm | 5~24 |
  | Speed | kN | 260 |
  | Stroke | mm | 6000 |
  | Max winch | 315 |
  | Depth (friction) | mm | 36 |
  | Max speed | m/min | 70 |
  | Mast inclination | ° | ±4 |
  | Base machine | Overall height | mm | 34425 |
  | Operating weight | kg | 98500 |

- **Type of Kelly bar**

  | Type of Kelly bar | Weight(kg) | Depth(m) |
  | 0506×4×15 | 11600 | 57 |
  | 0506×4×12 | 12500 | 51 |
  | 0506×4×10 | 10500 | 41 |
  | Standard | Optional |
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 tool and construction method, all construction issues can be resolved easily by Sany rotary drilling rigs.
Parts warehouses/Service Network

- Parts warehouses: 22 parts warehouses, 3,000 kinds of parts which are worth 15 million RMB
- Service Network: 112 service networks, 280 overseas service engineers

SINCERE SERVICE

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 overseas 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 overseas parts warehouses, with more than 3,000 kinds of spare parts can be selected by customers.

Global Customer Support Hotline: 0086-4006-509-318
Global Customer Support Email: rigservice@sany.com.cn