



SANY
我们的深度决定世界的高度
Our drilling depth determines the height of the world



HK

SR405R

2020 Rotary Drilling Rig

580 New Kelly bar
High rock drilling ability



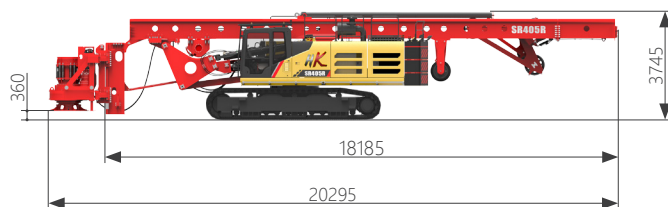
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- Max. drilling diameter 2.8m
- Max. drilling depth 106/88m
- Rated output torque 405kN·m
- Engine power 377kW/1800rpm

| Main performances | Unit | Parameter | Remark |
|-------------------------|--------|------------|--------|
| Pile | | | |
| Max. drilling diameter | mm | 2800 | |
| Max. drilling depth | m | 106/87 | ① |
| Rotary drive | | | |
| Rated output torque | kN · m | 405 | |
| Rotation Speed | rpm | 5~25 | |
| Crowd system | | | |
| Crowd force | kN | 340 | |
| Line pull | kN | 380 | |
| Stroke | mm | 6000 | |
| Main winch | | | |
| Lifting capacity | kN | 400 | |
| Wire rope diameter | mm | 36 | |
| Max. line speed | m/min | 75 | |
| Auxiliary winch | | | |
| Lifting capacity | kN | 105 | |
| Wire rope diameter | mm | 20 | |
| Max. line speed | m/min | 70 | |
| Mast inclination | | | |
| Forward/backward | ° | 4/90 | |
| Lateral | ° | ±3 | |
| Main Chassis | | | |
| Base engine | / | ISUZU 6WG1 | |
| Engine power | kW/rpm | 377/1800 | |
| Emission regulation | / | COM III | |
| Engine displacement | L | 15.68 | |
| Chassis length | mm | 7800 | |
| Extension width | mm | 3500-4900 | |
| Track shoe width | mm | 800 | |
| Swing radius | mm | 4600 | |
| Overall machine | | | |
| Overall height | mm | 27700 | |
| Operating weight | t | 131 | |
| Transport width | mm | 3550 | |
| Transport height | mm | 3575 | |

①: friction kelly depth / interlocking kelly depth

| Kelly bar | Weight(Kg) | Depth(m) | Option | |
|---------------------|---|---|----------------------------|----------|
| Inter-locking kelly | Φ580 × 4 × 16 Φ580 × 4 × 18 Φ580 × 4 × 19 Φ580 × 5 × 18 Φ580 × 5 × 19 | 17500 19500 20500 21000 22000 | 57 65 69 82 87 | Standard |
| Friction kelly | Φ580 × 6 × 18 Φ580 × 6 × 19 | 20500 21500 | 100 106 | |



Powerful: Adopt 6th generation Kelly bar, integrated locking device, upgraded material, reinforced ring, increase strength by 25%, achieve strong impact resistance, increase crowd force by 15% and rock drilling capacity by 25%; for 5-section interlocking bar, the hard rock drilling depth can be up to 88 meters.

Economical and energy saving: By collecting big data, the average comprehensive fuel consumption is lower than that of similar models in the industry.

Flexible: Adopt parallelogram structure, more flexible and free of site limitation.

Reliability: The whole machine design standard is high, the design life of structural parts > 20,000 hours.

Innovative technology:

- 1) HD touch screen, 3ms refresh frequency, no visual delay.
- 2) The display function of the locking device can accurately display and guide the locking and unlocking of the Kelly bar locking device, which reduces the wear and eliminates the accident. SANY owns the patent of this technology.
- 3) Roller bit auto drilling function: Set the speed of rotary drive to realize automatic drilling.
- 4) Wire rope pre-tensioning technology: The pre-tensioning force is always applied on the main rope to avoid random rope and twisting.

Convenient maintenance: Automatic centralized lubrication and combined counterweight, reduce dismantling time and improves transmission efficiency.

