



| Rotary Drilling Rig | Metric | Imperial |
|--------------------------|---------------------|-----------------|
| Pile | | |
| Max. drilling diameter | 3000 mm | 118 in |
| Max. drilling depth ① | 110/90 m | 361/295 ft |
| Rotary drive | | |
| Rated output torque | 455 kN·m | 335591 lbf·ft |
| Rotation speed | 5~25 rpm | 5~27 rpm |
| Crowd system | | |
| Crowd force | 400 kN | 89924 lbf |
| Line pull | 400 kN | 89924 lbf |
| Stroke | 6000 mm | 236 in |
| Main winch | | |
| Lifting capacity | 560 kN | 125893 lbf |
| Wire rope diameter | 40 mm | 1.57 in |
| Max. line speed | 63 m/min | 207 ft/min |
| Auxiliary winch | | |
| Lifting capacity | 105 kN | 23604 lbf |
| Wire rope diameter | 20 mm | 0.79 in |
| Max. line speed | 80 m/min | 262 ft/min |
| Mast inclination | | |
| Forward/backward | 90/15 ° | 90/15 ° |
| Lateral | ±3 ° | ±3 ° |
| Main chassis | | |
| Engine model ② | TAD1385VE | TAD1385VE |
| Engine power ISO 3046-1 | 405 kW/1900 rpm | 543 HP/1900 rpm |
| Emission regulation | EEC 97/68 EC | EPA /CARB |
| | Stage V/Tier4 final | |
| Fuel tank capacity | 690 L | 182 US gal |
| AD Blue tank capacity | 45 L | 12 US gal |
| Width retracted/extended | 3600-4900 mm | 142-193 in |
| Track shoe width | 800 mm | 32 in |
| Swing radius | 4910 mm | 193 in |
| Overall machine | | |
| Overall height | 29710 mm | 1170 in |
| Operating weight | 158000 kg | 348330 lb |
| Transport width | 3600 mm | 142 in |
| Transport height | 3805 mm | 150 in |
| Transport Length | 19650 mm | 774 in |

①: Friction kelly /inter-locking kelly

②: VOLVO

| Kelly bar | Weight | Depth | Option |
|---------------------|-----------|----------|--------|
| Inter-locking kelly | Φ580×3×19 | 18200 kg | 51 m |
| | | 40124 lb | 167 ft |
| | Φ580×4×19 | 20200 kg | 68 m |
| | | 44533 lb | 223 ft |
| | Φ580×4×20 | 21200 kg | 72 m |
| | 46738 lb | 236 ft | |
| Friction kelly | Φ580×5×20 | 23100 kg | 90 m |
| | | 50927 lb | 295 ft |
| | Φ580×6×19 | 21400 kg | 104 m |
| | | 47179 lb | 341 ft |
| | Φ580×6×20 | 22500 kg | 110 m |
| | 49604 lb | 361 ft | |

Note: Drilling depth with bucket 800 mm long

INTELLIGENCE , LARGE DIAMETER and DEEP PILE

SR455-S is suitable for pile foundation construction of housing, bridges, highways, high-speed railways and other large buildings. It can realize efficient drilling in granite, various types of weathered rocks, pebbles and other hard strata with intelligent functions and comfortable operating experiences.

Efficient construction: imported engine with high power and large displacement can realize real-time power distribution and efficient power output. Main winch with large reserve of line pull, large mechanical structure with high stability and reliability, rotary drive with high torque, enable high drilling efficiency and fast hole formation.

Strong rock drilling ability: rotary drive with three groups of motors and reducers can realize high torque and high speed output; the whole machine is equipped with positive control hydraulic system, the crowd force of cylinder is stable and strong.

Quick removal and installation: the pioneering self-disassembly technology on supporting trestle pin and rotary drive in the industry, which increases the disassembly efficiency by 5 times and makes the whole machine more convenient to transfer.

Intelligent control: advanced technology of auto soil dumping, intelligent drilling, auto drilling, etc., enable intelligent and efficient control of the whole machine.

Comfortable experience: the industrial design is grand and magnificent with comfortable operating experience taken into consideration; full electric control hydraulic positive control system, ensures efficient construction and fast response.

Convenient maintenance: double walking boards, double climbing ladders, single-side arrangement of filter elements, central lubrication system, facilitate maintenance.

