

SP7500



WATER WELL & GEOTHERMAL DRILLING RIG

SP7500



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WATER WELL & GEOTHERMAL DRILLING RIGS

TECHNICAL SPECIFICATIONS

| | | SP3500 | SP4500 | SP5500 | SP6500 | SP7000 | SP7500 | SP8500 | SP9500 | |
|--|-------|---|---------|-----------|--------|-----------|--------|--------------|-----------|-----------|
| DIMENSIONS | | | | | | | | | | |
| Length | M | 5.9 | 7.6 | 8.6 | 11.6 | 11.6 | 11.6 | 12.5 | 15.5 | |
| Width | M | 1.8 | 1.9 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 | 2.8 | |
| Height | M | 2.4 | 2.5 | 2.5 | 2.7 | 2.9 | 2.9 | 3.2 | 3.8 | |
| Weight | Ton | 6.0 | 9.5 | 12.5 | 15.5 | 16.5 | 17.5 | 22.0 | 35.0 | |
| ENGINE | | | | | | | | | | |
| | | Hyundai / Doosan Engine | | | | | | | | |
| Power rating at 1800rpm | hp | 100 | 100 | 170 | 170 | 270 | 270 | 400 | 540 | |
| Fuel capacity | L | 120 | 120 | 200 | 300 | 300 | 300 | 400 | 500 | |
| TOP DRIVE | | | | | | | | | | |
| | | Two hydraulic motors or Four hydraulic motors | | | | | | | | |
| Rotation RPM (1 st / 2 nd) | rpm | 0~80 / 0~130 | | | | | | 0~70 / 0~110 | | |
| Rotation Torque (1 st & 2 nd) | kg.M | 400 | 500 | 650 | 800 | 1000 | 1000 | 1500 | 3000 | |
| FEED SYSTEM | | | | | | | | | | |
| | | Variable Speed Hydraulic Cylinder | | | | | | | | |
| Travel Length | M | 3.8 | 4 | 4.5 | 7 | 7.5 | 7.5 | 7.5 | 10.5 | |
| Pull-back Force | Ton | 9 | 11 | 13 | 16 | 25 | 30 | 44 | 60 | |
| Pull-down Force | Ton | 4 | 5 | 6 | 7 | 12 | 12 | 20 | 25 | |
| Feed Rate (Variable) | M/min | 30 ~ 45 | | | | | | | | |
| HYDRAULIC SYSTEM | | | | | | | | | | |
| | | 3 or 4 pumps open loop system | | | | | | | | |
| Model | | K3V63DP, K3V112DP, K3V140DP, K3V180DP, K3V200DP, K3V250DP, HSF30D | | | | | | | | |
| Flow Rate 1 st & 2 nd | LPM | 95 / 95 | | 168 / 168 | | 210 / 210 | | 300 / 300 | 375 / 375 | |
| Flow Rate 3 rd & 4 th | LPM | 60 | | 45 / 45 | | 120 | | 95 / 95 | 168 / 168 | 210 / 210 |
| Operating Pressure | Bar | 280 | | | | | | | | |
| Hyd. Oil Tank | L | 120 | 150 | 300 | 300 | 300 | 300 | 400 | 500 | |
| WORKING TABLE & CLAMP | | | | | | | | | | |
| Diameter | Inch | 8 | 8 | 10 | 14 | 16 | 18 | 20 | 24 | |
| Drill Pipe Breakout | | 6ton | | | | | | | | |
| DRILL ROD & CASING | | | | | | | | | | |
| | M | 3.0 | 3.0 | 3.0 | 6.0 | 6.0 | 6.0 | 6.0 | 9.0 | |
| TRAMMING | | | | | | | | | | |
| | | LG4500 | Solar55 | | | Solar75 | | Solar130 | Solar220 | |
| Tramming Speed | km/h | 2.5 ~ 4.0 | | | | | | | | |
| Gradeability | | 25° | | | | | | | | |
| Track Shoes Width | mm | 450 | 400 | 400 | 400 | 450 | 450 | 500 | 600 | |
| WINCH | | | | | | | | | | |
| | Ton | 2.5 | 3.5 | 5.0 | 5.0 | 10.0 | 10.0 | 15.0 | 20.0 | |
| ELECTRICAL SYSTEM | | | | | | | | | | |
| | | 24V | | | | | | | | |
| Lights | | Working table, Mast & Control panel | | | | | | | | |
| CONTROL PANEL | | | | | | | | | | |
| | | All control gauges are grouped at the operator's station within sight of the borehole | | | | | | | | |
| Panel Rotation | | 15° | | | | | | | | |
| HYD. JACKS & RIGGERS | | | | | | | | | | |
| | | Four jacks & riggers / Self-loading system | | | | | | | | |
| MUD PUMP | | | | | | | | | | |
| | | Hyd. cylinder operated duplex & double acting | | | | | | | | |
| Model | | DSMP300, DSMP600, DSMP800 & DSMP1000 | | | | | | | | |
| Capacity | LPM | 150 | 200 | 300 | 500 | 600 | 600 | 1000 | 1200 | |
| OPTIONAL LIST | | | | | | | | | | |
| Rod Handler (Max.) | | Dia. 73mm ~ 120mm | | | | | | | | |
| RiHS (Rod rack & handler) | | Rod Rack Integrated Handling System | | | | | | | | |
| Mud Pump | | 500LPM, 600LPM, 800LPM, 1000LPM | | | | | | | | |
| Line Oiler | | Driven by Hyd. cylinder / 100cc per swift | | | | | | | | |
| Genset | | 23kW / 100V~220V | | | | | | | | |
| Inverter | | 7.0kW / 100V~220V | | | | | | | | |
| Remote Control for Tramming | | Hetronics | | | | | | | | |
| Preheating System | | For engine & hydraulic system | | | | | | | | |
| Safety Cage | | | | | | | | | | |
| Auxiliary Hydraulic Ports | | 50LPM ~ 200LPM @ 180 ~ 210BAR | | | | | | | | |

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