

# SP7000



**WATER WELL & GEOTHERMAL DRILLING RIG**

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# WATER WELL & GEOTHERMAL DRILLING RIGS

## TECHNICAL SPECIFICATIONS

		SP3500	SP4500	SP5500	SP6500	SP7000	SP7500	SP8500	SP9500	
<b>DIMENSIONS</b>										
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	
<b>ENGINE</b>										
		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	
<b>TOP DRIVE</b>										
		Two hydraulic motors or Four hydraulic motors								
Rotation RPM (1 <sup>st</sup> / 2 <sup>nd</sup> )	rpm	0~80 / 0~130						0~70 / 0~110		
Rotation Torque (1 <sup>st</sup> & 2 <sup>nd</sup> )	kg.M	400	500	650	800	1000	1000	1500	3000	
<b>FEED SYSTEM</b>										
		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								
<b>HYDRAULIC SYSTEM</b>										
		3 or 4 pumps open loop system								
Model		K3V63DP, K3V112DP, K3V140DP, K3V180DP, K3V200DP, K3V250DP, HSF30D								
Flow Rate 1 <sup>st</sup> & 2 <sup>nd</sup>	LPM	95 / 95		168 / 168		210 / 210		300 / 300	375 / 375	
Flow Rate 3 <sup>rd</sup> & 4 <sup>th</sup>	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	
<b>WORKING TABLE &amp; CLAMP</b>										
Diameter	Inch	8	8	10	14	16	18	20	24	
Drill Pipe Breakout		6ton								
<b>DRILL ROD &amp; CASING</b>										
	M	3.0	3.0	3.0	6.0	6.0	6.0	6.0	9.0	
<b>TRAMMING</b>										
		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	
<b>WINCH</b>										
	Ton	2.5	3.5	5.0	5.0	10.0	10.0	15.0	20.0	
<b>ELECTRICAL SYSTEM</b>										
		24V								
Lights		Working table, Mast & Control panel								
<b>CONTROL PANEL</b>										
		All control gauges are grouped at the operator's station within sight of the borehole								
Panel Rotation		15°								
<b>HYD. JACKS &amp; RIGGERS</b>										
		Four jacks & riggers / Self-loading system								
<b>MUD PUMP</b>										
		Hyd. cylinder operated duplex & double acting								
Model		DSMP300, DSMP600, DSMP800 & DSMP1000								
Capacity	LPM	150	200	300	500	600	600	1000	1200	
<b>OPTIONAL LIST</b>										
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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