

**desco** drill rig

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# SP5000

## Geothermal & waterwell Drilling



# SP5000 (Simple & compact)

As one of the most compact drills upto 250M depth for waterwell & geothermal, the SP5000 delivers super power in a compact package.

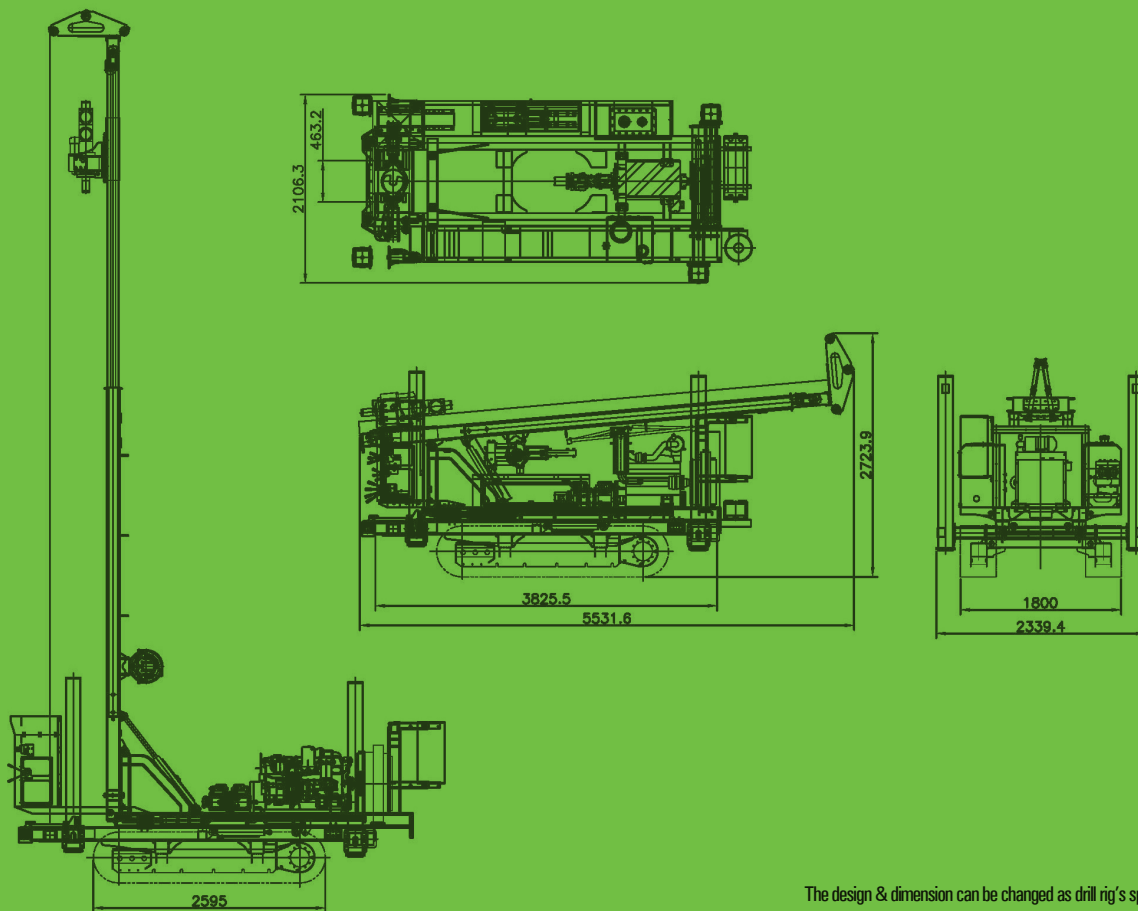
Compactable size enables drillers to easily operate & manage in working place

SP5000 features a pullback capacity of 10 ton and a torque can be increased

SP5000 can also include a advanced rod management system that ensures safe and efficient operation

A radio remote safely positions the driller away from the rig during traveling

- \* SP5000 for waterwell & geothermal drilling
- \* Design for drilling up to 300M with dia. 5" and up to dia. 8"
- \* Percussion drilling methods
- \* Rotary drilling methods
- \* All instrument & control levers are concentrated.
- \* Mounted full package on drill rig
- \* Self-loading system
- \* Easy to repair the machine by yourself due to full Hyd. system
- \* Installed major hyd. Parts so easy to find spare parts in the market
- \* Options - inverter, auto rod changer, pre-heating system, truck mounted type and so on



The design & dimension can be changed as drill rig's specification

If you want the kind of drill rigs,  
**DESCO INC.** is at your solution and service.



## TECHNICAL SPECIFICATION

### Top head rotation

Rotation torque  
Rotation speed  
Rotation speed & torque can be controlled

### Two speed motors

500kg.M (low) / 250kg.M (high)  
0 ~ 60 rpm (low) / 0 ~ 120 (high)

### Feed System

Feed system type  
Feed hydraulic cylinder  
Feed stroke  
Pull-back force  
Down force

Variable Speed Hydraulic Cylinder  
90mm\*60mm\*3200mm\*2 cylinders  
6.4M (Drill Pipe - Std. 3.0M & Max. 6.0M)  
12ton  
5ton

### Dimension & Weight

Net weight  
Width  
Length (mast folded / unfolded)  
Height (mast folded / unfolded)

6.5ton  
2.1M  
5.5M  
2.7M

### Engine

Engine model  
Engine power  
Cooling system  
Fuel tank  
Electrical system

Hyundai D4DA turbucharged  
100HP@1800rpm  
Water  
150 Liters  
24V DC

### Hydraulic system

General  
Pump model  
System hyd. oil flow  
Hydraulic tank  
Operating pressure

Single variable displacement pump, pressure & flow controlled  
K3V63\*2 + 45 (3 pumps)  
240 LPM  
200 Liters  
280 Bar

### Working table & hyd. clmap

Max. diameter  
Hyd clamp

8"  
8"

### Outrigger (Self-loading system)

Four hyd. Jacks & outriggers - Front jacks & outriggers (swing 45<sup>0</sup>)  
Ground clearance  
Width

1430mm  
3000mm

### Crawler base

Doosan model (Steel)

### Main hoist

Hoist type  
Linepull capacity  
Spool capacity

Variable speed planetary c/w brake  
3ton  
12mm \* 25M

### Mud pump

Hydraulic cylinder operated duplex piston pump  
Capacity  
Max. pressure

150 LPM  
40 bar



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## STANDARD / OPTIONAL

	STANDARD	OPTIONAL	OPTIONAL REQUEST
<b>Drill head</b>			
Drill head	DSDH-750	DSDH-850	
Drill head - sliding	0		
<b>Feed system</b>			
Mast slide (dump up and down)	0		
Bolted mast foot	0		
Control panel	0		
<b>Hydraulic system</b>			
Auxiliary hydraulic ports		0	
<b>Hydraulic breakout table</b>			
Max. diameter	max. 8"	over 8"	
Single clamp	0		
Double clamp		0	
<b>Crawler base</b>			
Steel track	0		
Steel track with rubber pad		0	
<b>Main hoist</b>			
Main winch	max. 3ton	over 3ton	
Sub winch		0	
<b>Mud pump</b>			
Capacity	150LPM	300LPM	
Water injection pump		0	
Inverter (5.5kw / 100V ~ 220V)		0	
DTH oil lubricator		0	
Auto rod changer		0	
Preheating system		0	
Wireless remote travel		0	
Safety cage		0	

**Notice** As your optional list, engine, hyd. system, crawler and so on can be changed and design of drill rigs can be changed.

Specifications are general and subject to change without notice. Due to selected options, delivered equipment may not necessarily match that shown.

