

desco drill rig

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SP4500

Geothermal & waterwell Drilling



SP4500 (Desco's smallest model)

As one of the most compact drills upto 200M depth for waterwell & geothermal, the SP4500 delivers super power in a compact package.

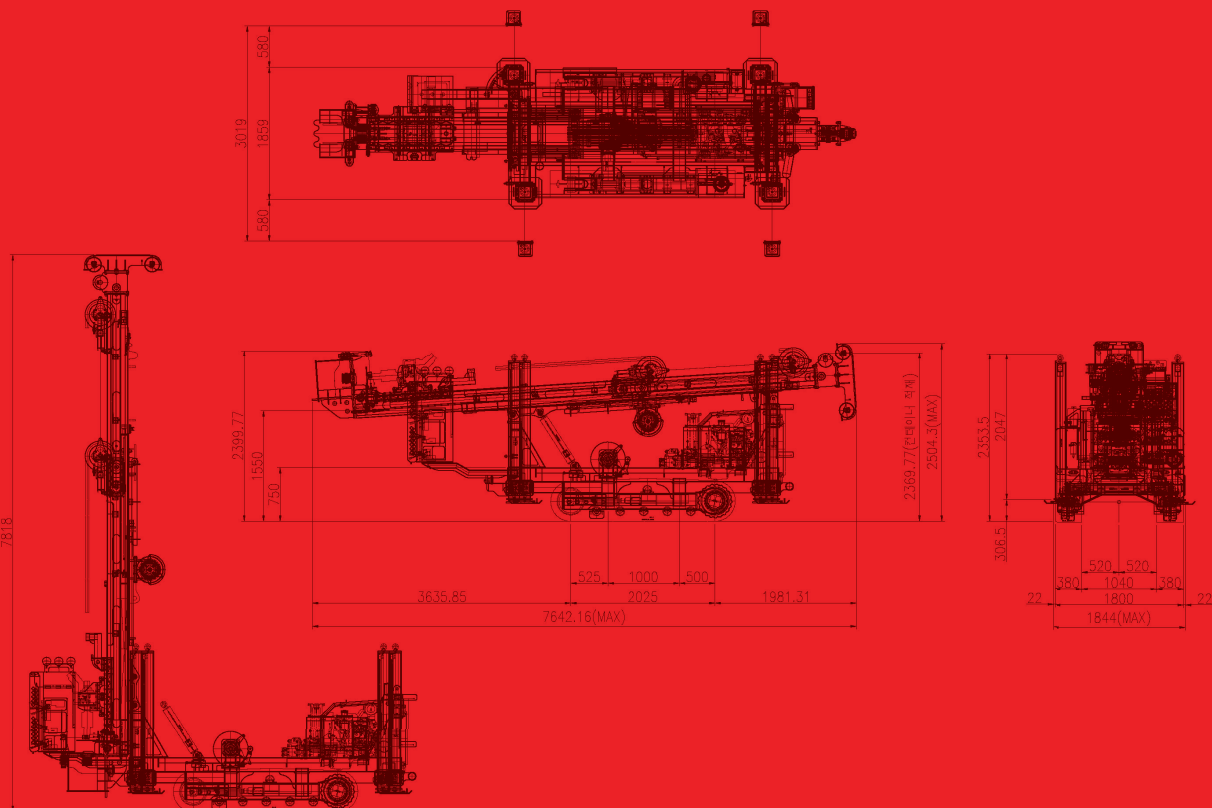
Compactable size enables drillers to easily operate & manage in working place

SP4500 features a pullback capacity of 10 ton and a torque can be increased

SP4500 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

- * SP4500 for waterwell & geothermal drilling
- * Design for drilling up to 300M with dia. 4" 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

400kg.M (low) / 200kg.M (high)
0 ~ 60 rpm (low) / 0 ~ 120 (high)

Feed System

Feed system type	Variable Speed Hydraulic Cylinder
Feed hydraulic cylinder	80mm*50mm*3200mm*2 cylinders
Feed stroke	6.4M (Drill Pipe - Std. 3.0M & Max. 6.0M)
Pull-back force	10ton
Down force	5ton

Dimension & Weight

Net weight	4.5ton
Width	1.8M
Length (mast folded / unfolded)	4.8M
Height (mast folded / unfolded)	2.2M

Engine

Engine model	Hyundai D4DA turbucharged
Engine power	100HP@1800rpm
Cooling system	Water
Fuel tank	150 Liters
Electrical system	24V DC

Hydraulic system

General	Single variable displacement pump, pressure & flow controlled
Pump model	K3V63*2 +45 (3 pumps)
System hyd. oil flow	200 LPM
Hydraulic tank	200 Liters
Operating pressure	280 Bar

Working table & hyd. clmap

Max. diameter	8"
Hyd clamp	8"

Outrigger (Self-loading system)

Four hyd. Jacks & outriggers - Front jacks & outriggers (swing 45 ⁰)	
Ground clearance	1430mm
Width	3000mm

Crawler base

Doosan model (Rubber or Steel)

Main hoist

Hoist type	Variable speed planetary c/w brake
Linepull capacity	3ton
Spool capacity	12mm * 25M

Mud pump

Hydraulic cylinder operated duplex piston pump	
Capacity	150 LPM
Max. pressure	40 bar

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STANDARD / OPTIONAL

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

