

**desco drill rig**

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# SP4500S

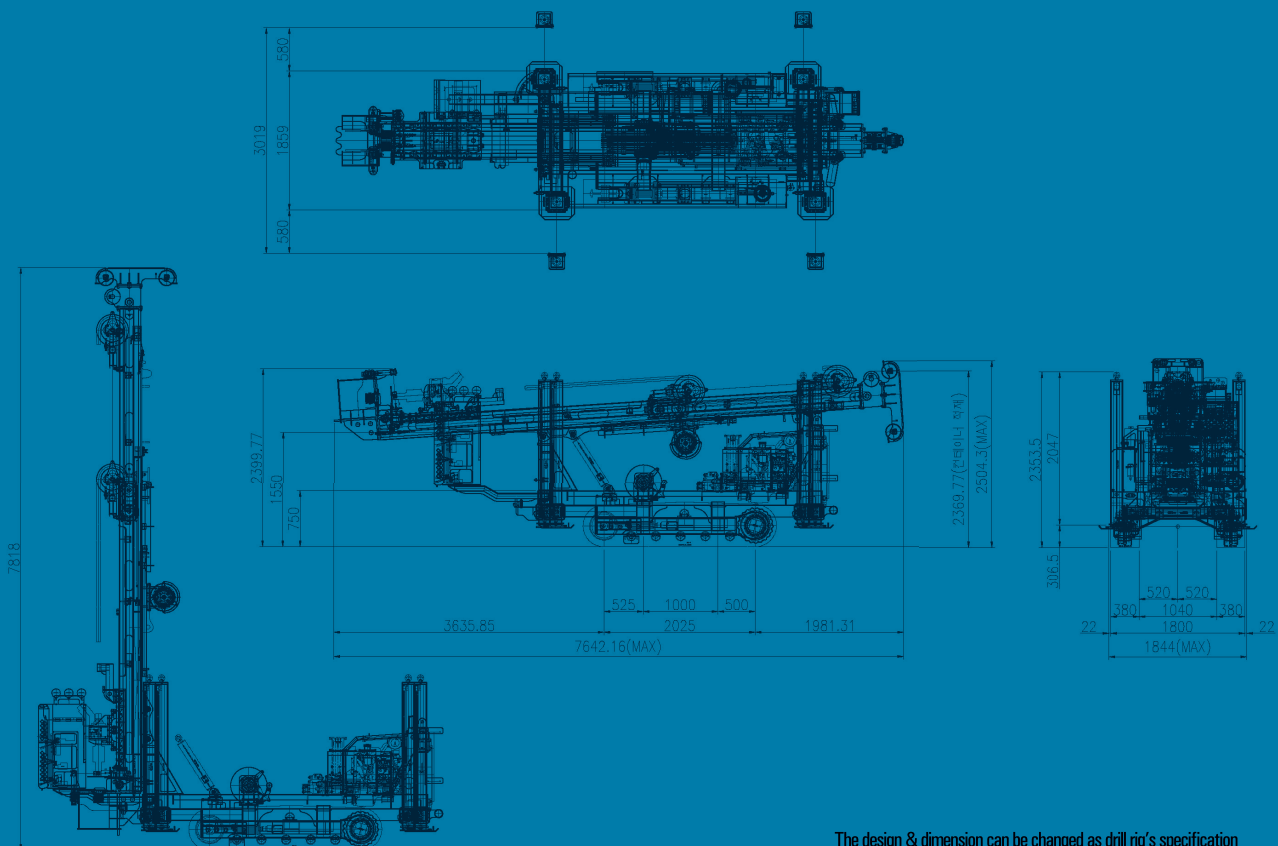
## Exploration Drilling Equipment



# SP4500S (Desco's smallest model)

As one of the most compact drills upto NQ-500M depth for exploration diamond drilling, SP4500S surface coring drill is an advanced addition to the SP-S series featuring a telescopic mast  
SP4500S is capable of both wireline and conventional coring, as well as DTH, rotary drilling methods with pullback capacity of 10 ton and a torque can be increased  
Compactable size enables drillers to easily operate & manage in working place  
SP4500S can also include a advanced rod management system that ensures safe and efficient operation

- \* SP4500S for exploration diamond drilling
- \* Design for drilling up to NQ 500M
- \* Diamond drilling methods (Main)
- \* Wireline system
- \* Percussion & rotary drilling methods (Additional)
- \* Foot clamping system
- \* All instrument & control levers are concentrated.
- \* Mounted full package on drill rig
- \* Self-loading system
- \* Installed major hyd. Parts so easy to find spare parts in the market
- \* Options - inverter, pre-heating system, wireless remote control 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	300kg.M (low) / 50kg.M (high)
Rotation speed	0 ~ 100 rpm (low) / 0 ~ 1200 (high)
Rotation speed & torque can be controlled	

### Two speed motors

300kg.M (low) / 50kg.M (high)
0 ~ 100 rpm (low) / 0 ~ 1200 (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	5.0ton
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 <sup>0</sup> )	
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
Wire line	Drum for 300M * Dia 5mm (300kg)

### 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
<b>Drill head</b>			
Drill head	DSDH-750F	DSDH-850F	
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>			
Rubber track	0		
Steel track with rubber pad		0	
<b>Main hoist</b>			
Main winch	max. 3ton	over 3ton	
Jib with winch		0	
Wireline	0		
<b>Mud pump</b>			
Capacity	150LPM		
Water injection pump		0	
Triplex mud pump		0	
Inverter (5.5kw / 100V ~ 220V)		0	
DTH oil lubricator		0	
Auto rod changer		0	
SPT device		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.

