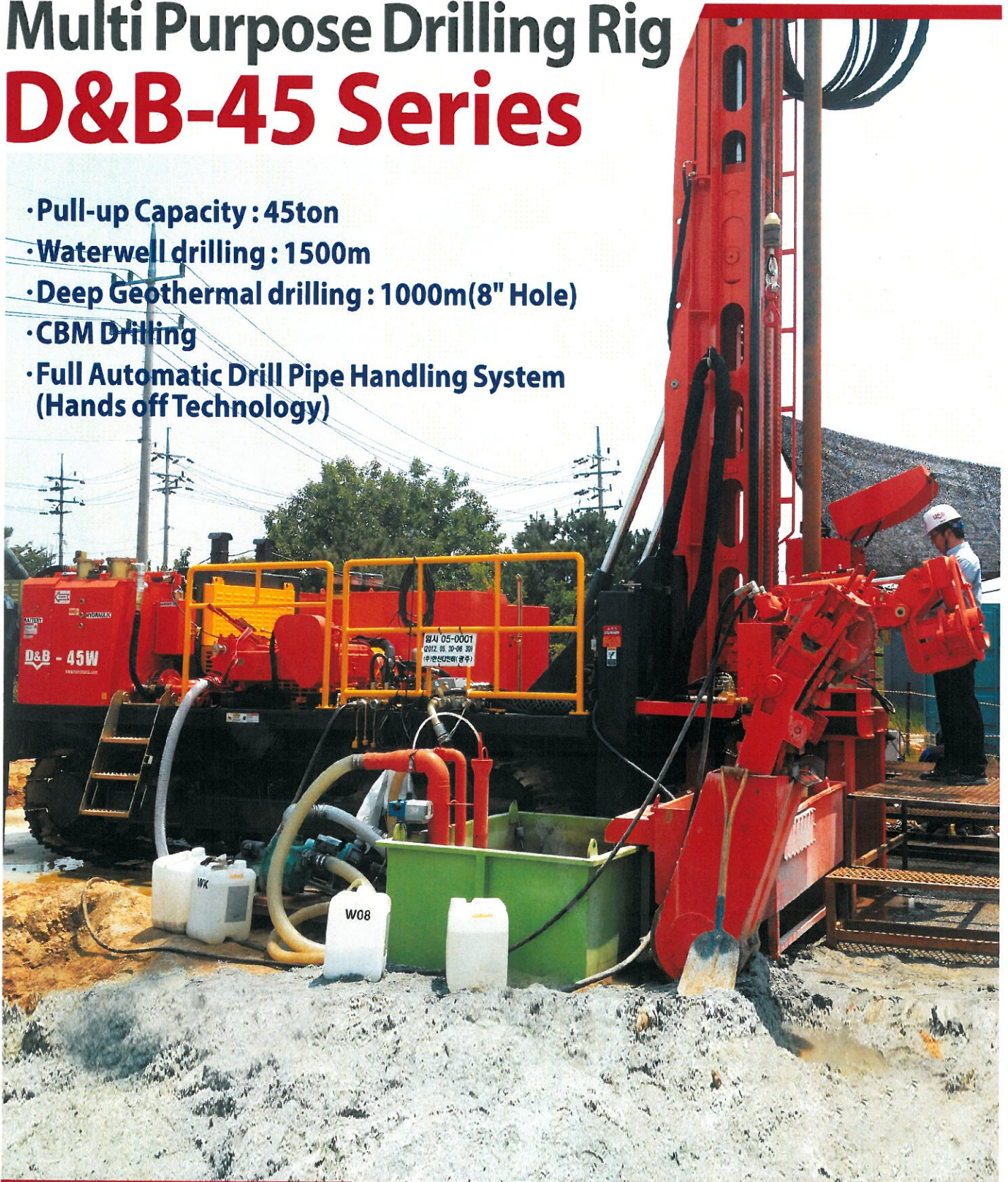




Multi Purpose Drilling Rig **D&B-45 Series**

- Pull-up Capacity : 45ton
- Waterwell drilling : 1500m
- Deep Geothermal drilling : 1000m(8" Hole)
- CBM Drilling
- Full Automatic Drill Pipe Handling System
(Hands off Technology)



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D&B-45 Series Key Components

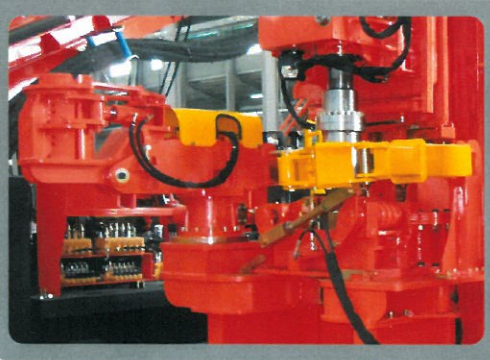
Engine



Control Box



Working Table



Working Table



D&B-45 Series Site Story

- Korea, Gwangju City
- Geothermal Deep hole drilling(8")

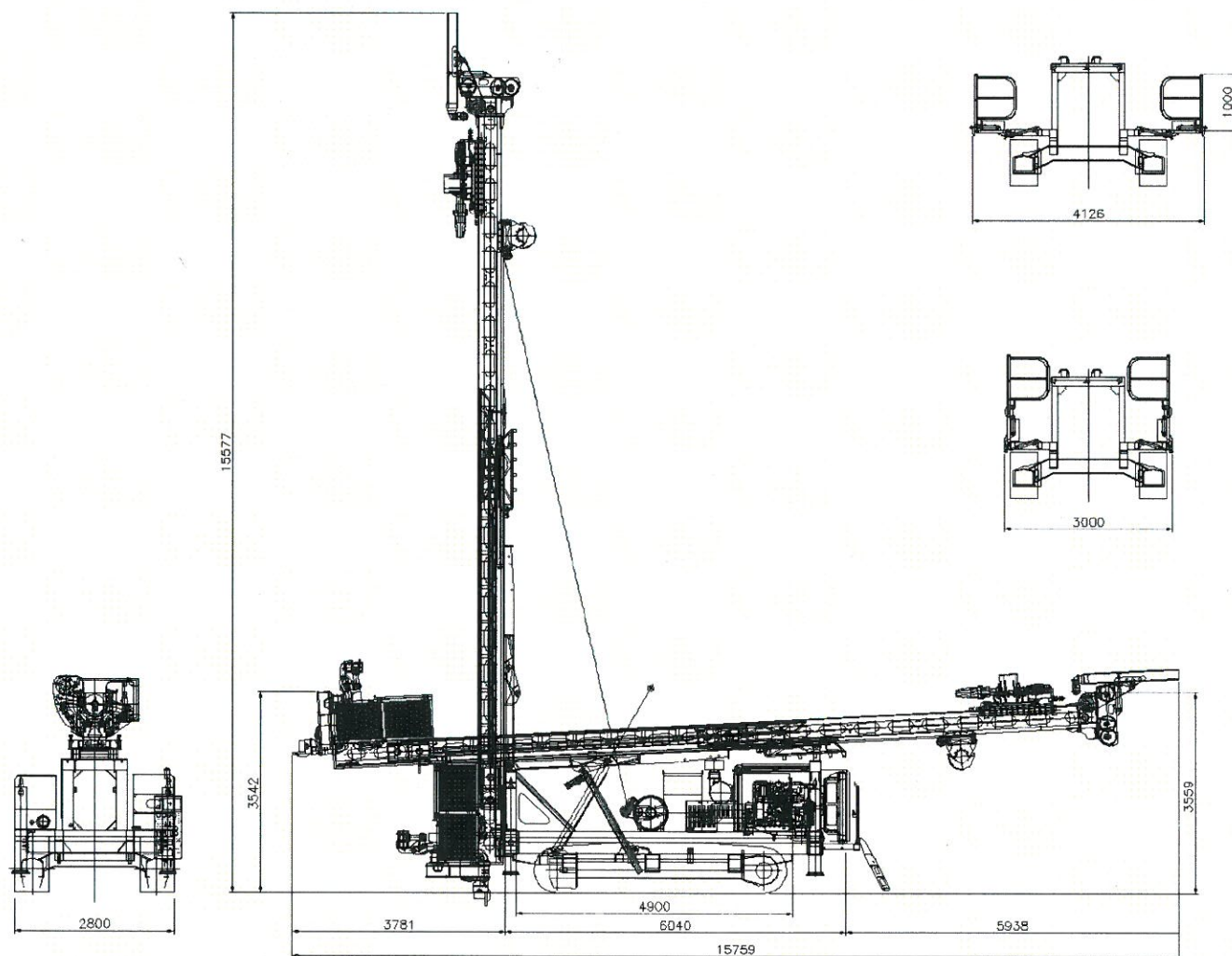


Technical Data

		D&B-45W	D&B-45D	D&B-45CBM
DIMENSIONS & WEIGHT				
OA length-transport	M	13.9	14	14
OA width	M	3	2.8	2.8
OA height-transport	M	3.6	3.5	3.5
OA height-mast up	ton	27.5	28	29
Weight-less drill pipe				
ENGINE				
Model(Disel engine)		Doosan PU126TI	Doosan PU126TI	Doosan PU126TI
Cylinder		6 cylinder diesel engine	6 cylinder diesel engine	6 cylinder diesel engine
Rated power	HP/rpm	400/2100	400/2100	400/2100
Fuel tank capacity	ℓ	600	600	600
Cooling system		water cooling	water cooling	water cooling
TOP HEAD ROTATION				
The gearhead is mounted outside the mast rails to ease drill pipe and casing handling.				
Reduction		Spur gear - 3.52 to 1	Spur gear - 4.0 to 1	Spur gear - 4.0 to 1
Performance		two motor(Std)	three moter(Std)	three moter(Std)
Max . RPM	rpm	1st 0~120 / 2nd 0~60	1st 900~1100 / 2nd 650~800 3rd 120~250 / 4th 0~130	1st 900~1100 / 2nd 650~800 3rd 120~250 / 4th 0~130
Max . Torque	kg-m	1st 1,000 / 2nd 2,000	1st 190~250 / 2nd 270~350 3rd 650~800 / 4th 900~1500	1st 190~250 / 2nd 270~350 3rd 650~800 / 4th 900~1500
FEED SYSTEM				
Top head driven by hydraulic cylinders throught heavy duty chain.				
Traverse cylinder	mm	200x150x5000	200x150x5000	200x150x5000
Head travel	M	1st 10	1st 10	1st 10
Mast travel	M	Up: 1.2, Down: 0.8	Up: 0.5, Down: 1.5	Up: 0.5, Down: 1.5
Pull-up capacity	ton	40	45	45
Pull-down capacity	ton	24	24	24
WINCH				
Planetary with spring applied hydraulic release break, with cable.				
Spool capacity	M/mm	38 of 14cable	25 of 12 cable	25 of 12 cable
Line pull	ton	10	10	10
HYDRAULIC SYSTEM				
General		5 pump open loop system	3 pump open loop system	3 pump open loop system
Tank capacity	ℓ	350	310	310
Filtration	micron	10	10	10
Pump model		H3V180x2+H3V63x2+10(HP constant)	H3V180x2+H3V63x2+10(HP constant)	H3V180x2+H3V63x2+10(HP constant)
Cooling system		Air cooling	Air cooling	Air cooling
Operating pressure	bar	280	280	280
LIGHT & ELECTRICAL SYSTEM 24V				
One - on top of control facing up mast				
Two - on top of mast facing down.				
one: to work table area				
one: bac to drill deck				
One - in control console for night operation				
CONTROL PANEL - 45' Turn				
All controls gauges are grouped at the operator's station within sight of the borehole.				
- OP Panel Up/Down	mm	300	250	250
DRILL PIPE & CASING				
Drill pipe length	m	9	9	9
WORKING TABLE				
Max. casing diameter	inch	14	14	14
CRAWLER BASE				
Crawler type		Under carrier 30ton	Under carrier 30ton	Under carrier 30ton
Crawler speed	km/h	2.5	2.5	2.5
Ground pressure	kg/cm ²	0.65	0.65	0.65
3-web track shose	mm	600	600	600
Ground clearance	mm	600	600	600
OPTION				
FOOT CLAMP		On working plate	PQ/HQ/NQ	PQ/HQ/NQ
ROD HANDLER		O		
Engine Heating system		O		
DRILLING PERFORMANCE				
Tricon Drilling	M	~1,500 over	~1,500 over	~1,500 over
DTH Drilling	M	~1,500 over	~1,500 over	~1,500 over

D&B-45 Series

Dimensions



HANJIN D&B
Drilling Equipments Co., Ltd.

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