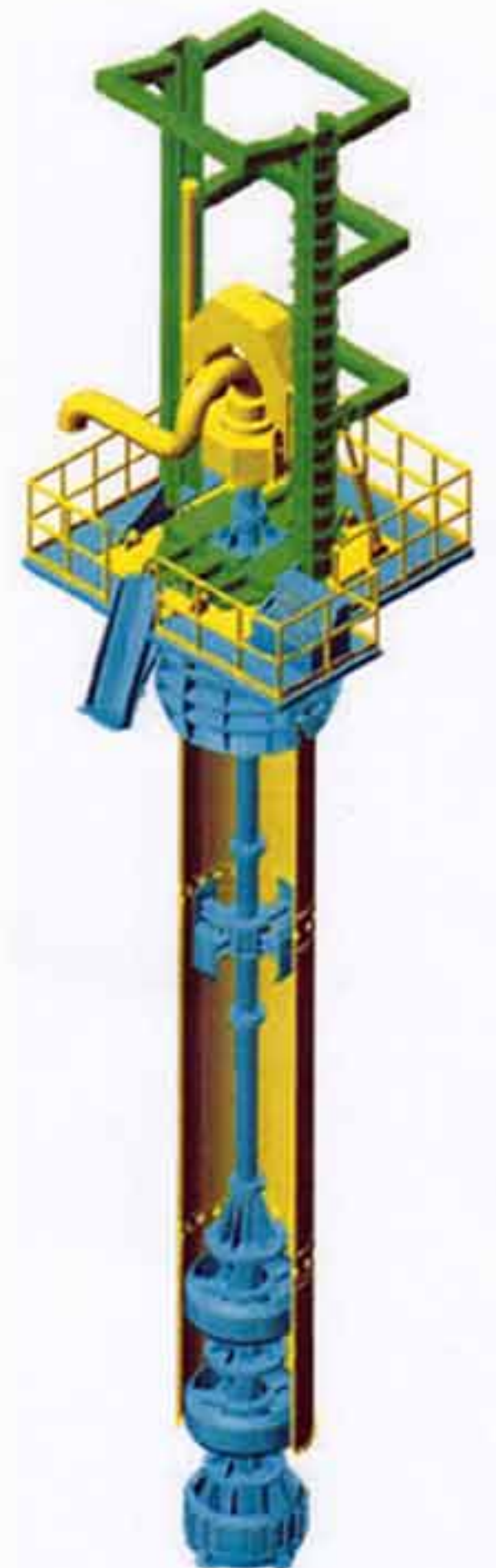


R.C.D. Pile Top Rig

Reverse Circulation Drilling



R.C.D. Pile Top Rig

Reverse Circulation Drilling

M Type

BUILT-IN POWER UNIT TYPE

MEGATON™ R.C.D. Pile Top Rig is a newly developed pile drilling machine Through years of experience in field application.

MEGATON R.C.D. Pile Top Rig has experienced good reputation from the domestic and overseas customers.

Because of better design and mechanism than the other R.C.D. Pile Top Rig, its operation is very easy in jobsite.

And the Working Efficiency is very excellent with upper verticality and excavation efficiency.

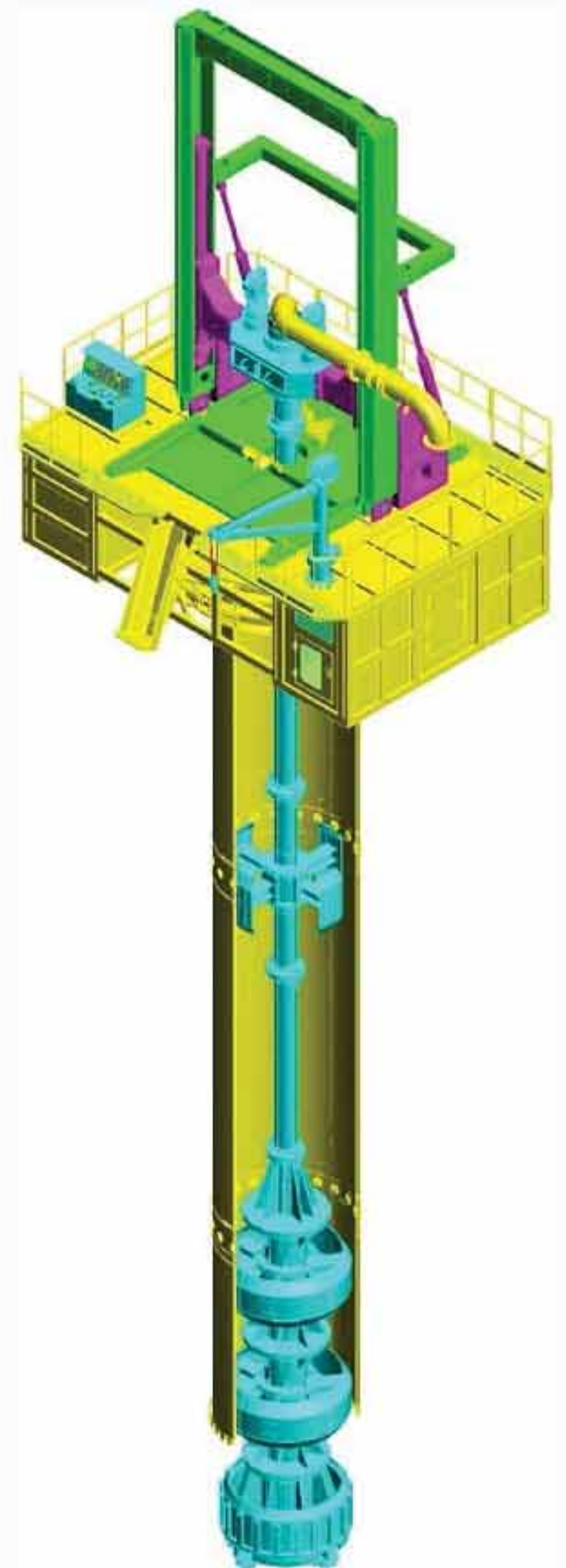
Then customer can shorten construction period with satisfaction.



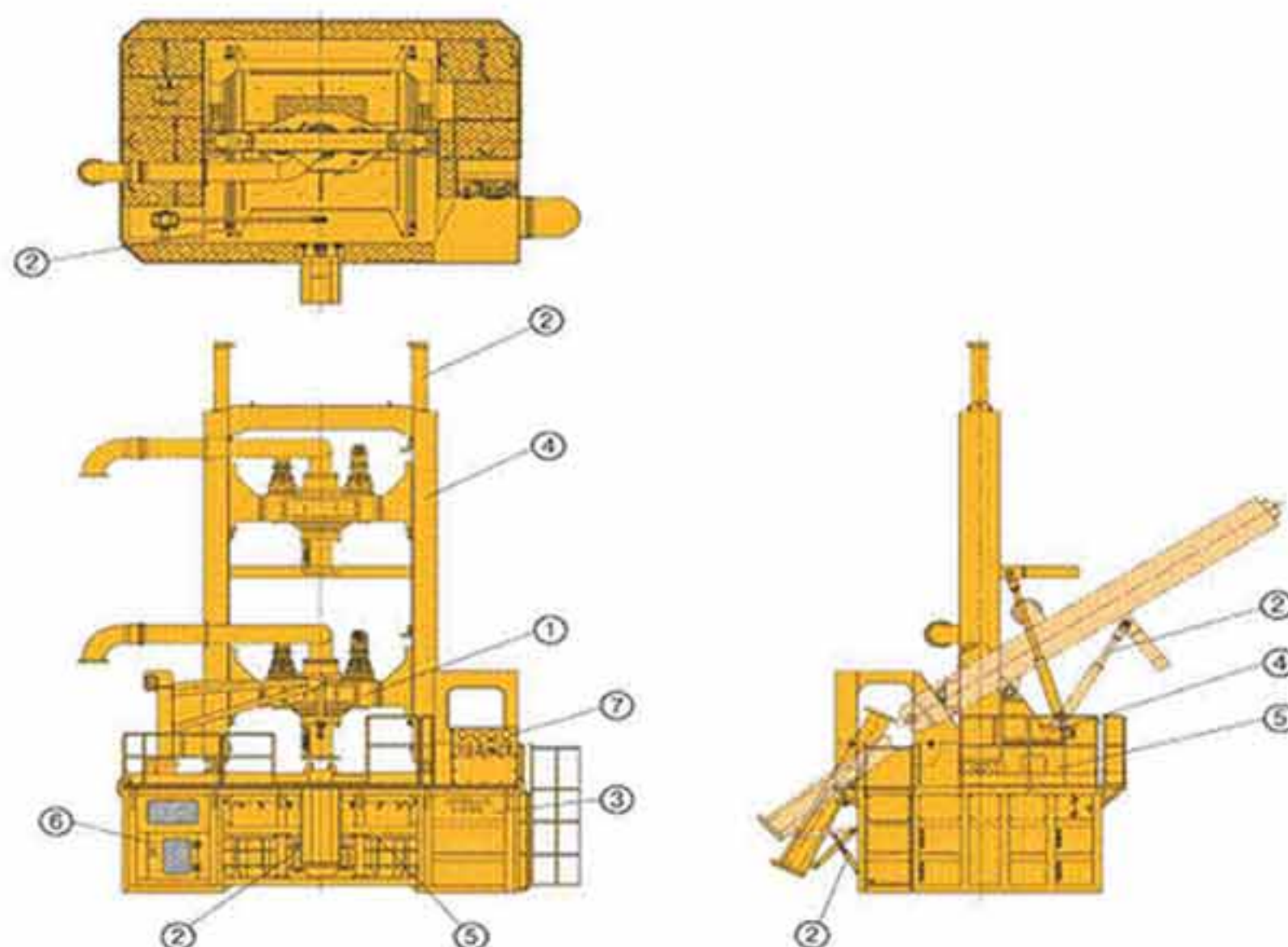
MEGATON™

Model : SBR-M

- * No oil leakage during R.C.D. Pile Top Rig is moving.
- * Upper Verticality and Super Excavation Efficiency.
- * Easy Setting and Movement (Between piles, Between jobsites).
- * Very easy checking to R.C.D. Pile Top Rig.
- * Useful working in small space.
- * It looks so smart.
- * You will be satisfied with MEGATON R.C.D. Pile Top Rig.



Model : SBR-M



* PARTS NAME

No.	DESCRIPTION	No.	DESCRIPTION	No.	DESCRIPTION
1	DRILLING SYSTEM	4	MAST	7	CONTROL PANEL
2	HYDRAULIC CYLINDER SYSTEM	5	TOWER SYSTEM	8	OTHERS
3	HYDRAULIC SYSTEM (POWER UNIT)	6	DIESEL ENGINE SYSTEM (POWER UNIT)		

* TECHNICAL DATA

DRILLING RIG						
DESCRIPTION			SBR-15M	SBR-20M	SBR-25M	SBR-30M SBR-33M/35M
MAX. DRILLING DIAMETER		mm	1500	2000	2500	3000 3300/3500
POWER SWIVEL	MAX. TORQUE	kNm(tonf-m)	201(20.5)	201(20.5)	299(30.5)	299(30.5) 342(34.9)
	MAX. DRILLING SPEED	rpm	26	34	22	22 26
DRILLING THRUST DEVICE	MAX. THRUST FORCE	kN(tonf)	863(88)	863(88)	1000(102)	1000(102) 1202(123)
	MAX. PULL-UP FORCE	kN(tonf)	1265(129)	1265(129)	1598(163)	1598(163) 1972(201)
	CROSS-OVER SUB I/PIPE	NW	200/300	200/300	300	300/330 330
	MAST TILTING ANGLE	deg.	53	53	55	55 55
WEIGHT OF DRILLING RIG		tonf	18	23	35	39 40/41
HYDRAULIC POWER UNIT (BUILT-IN TYPE)						
DESCRIPTION			SBR-15M	SBR-20M	SBR-25M	SBR-30M SBR-33M/35M
DIESEL ENGINE		kw(HP)	160(215)	179(240)	216(290)	246(330) 355(475)
PUMP DISPLACEMENT		l/min	2×224	2×280	2×333	2×333 2×448
HYDRAULIC OIL TANK		liter	1200	1400	1500	2000 2000
FUEL TANK		liter	600	700	1000	2000 2000

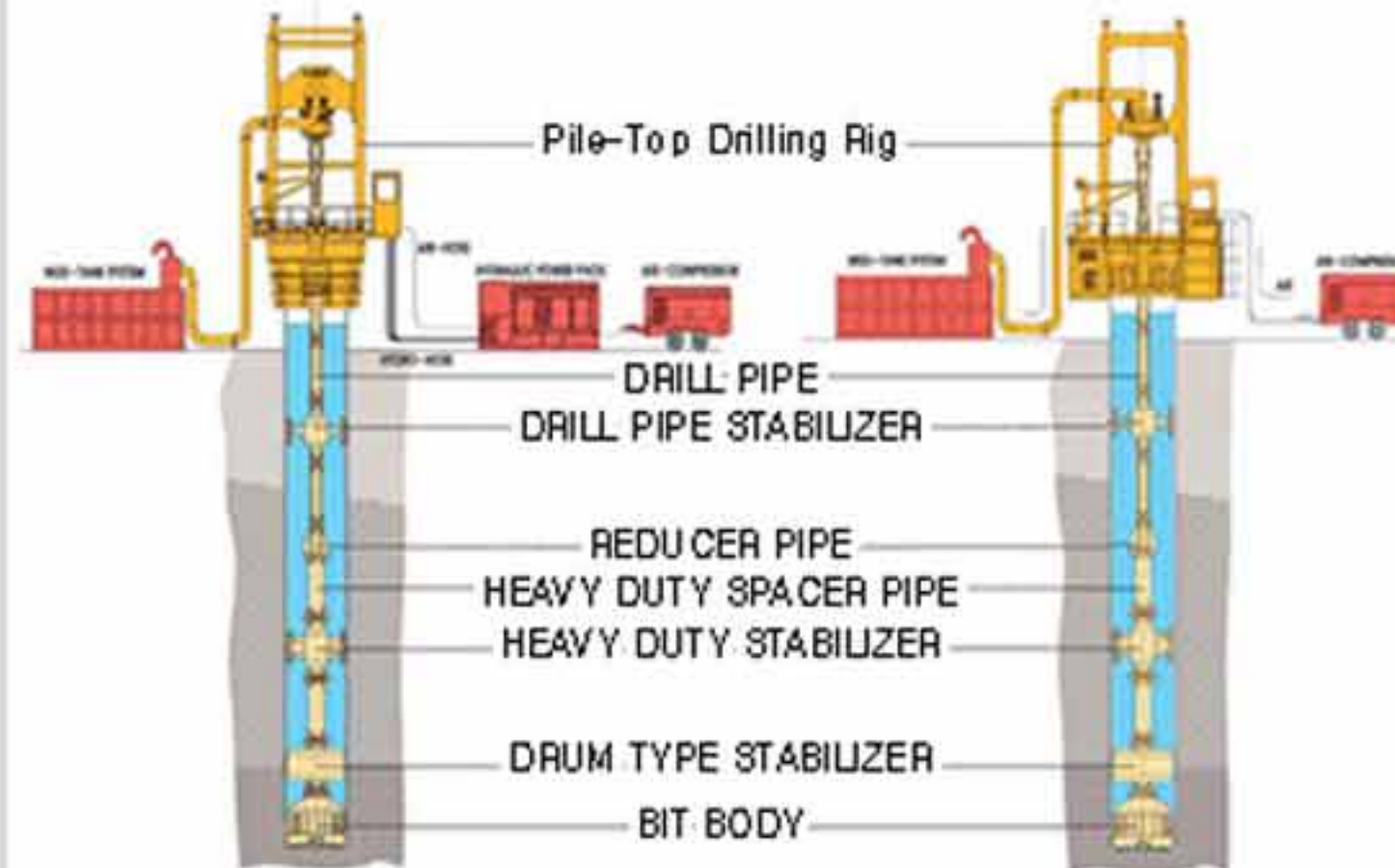
SBR-S

STANDARD
TYPE RCD
(POWER PACK is
installed sepa-
rately)

DRILLING SIZE
D1.2 ~ D4.0 m

Model : SBR-S type

Model : SBR-M type

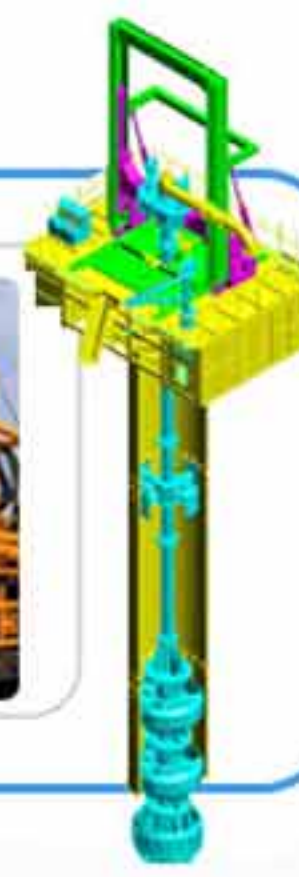
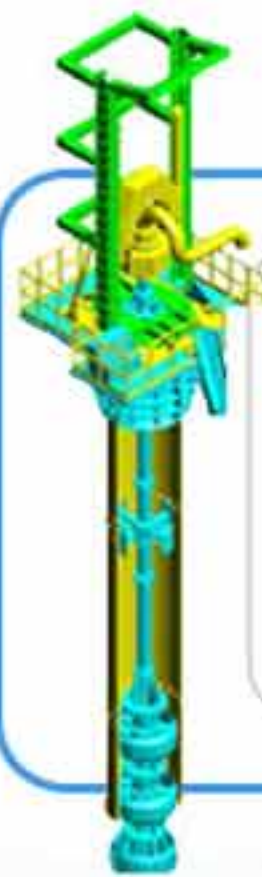


SBR-M

POWER PACK is
built-in.
- No need to
assemble & disas-
semble when
moving between
site and site / pile
and pile.
- First developed
model in the world.

(Acquired patent of
design registration)
- Light weight and
simple structure

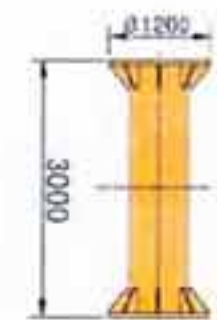
DRILLING SIZE
D1.5 ~ D3.5 m



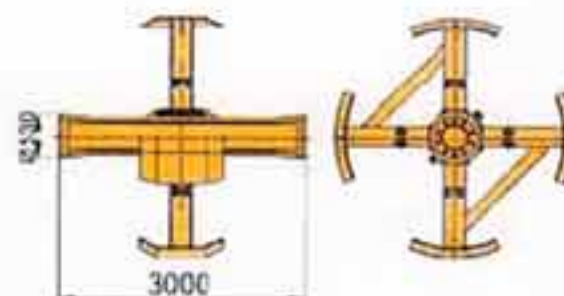
DRILL PIPE



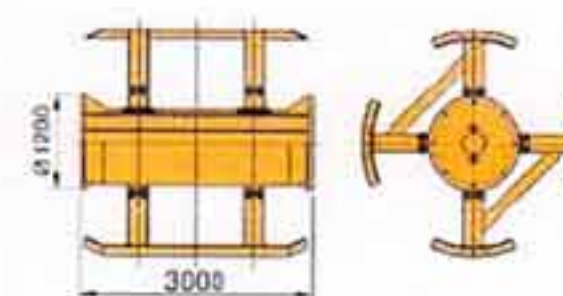
REDUCER PIPE



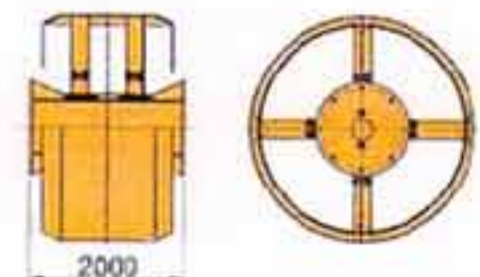
H/D SPACER PIPE



DRILL PIPE STABILIZER



HEAVY DUTY STABILIZER



DRUM TYPE STABILIZER



R.C.D. Pile Top Rig

Reverse Circulation Drilling

S Type

STANDARD TYPE

Generally, Bored Piles are adopted where conventional piles cannot be constructed due to conditions and construction depth. According to the load and construction purpose, various methods can be adopted. R.C.D. Pile Top Rig is available to acquire high efficiency by the use of 360° rotary drilling system when foundation works are carried out on the stratum including rock.

Meanwhile, compressed air is injected into the drill pipe below the water level in the casing tube equipped with this machine, and this air lift system is useful to get advantages that solids are automatically raised and discharged through the pipe without special equipment.

- Diameter : Dia.1200mm ~ Dia.4000mm.
- It can be worked both on land and off-shore.



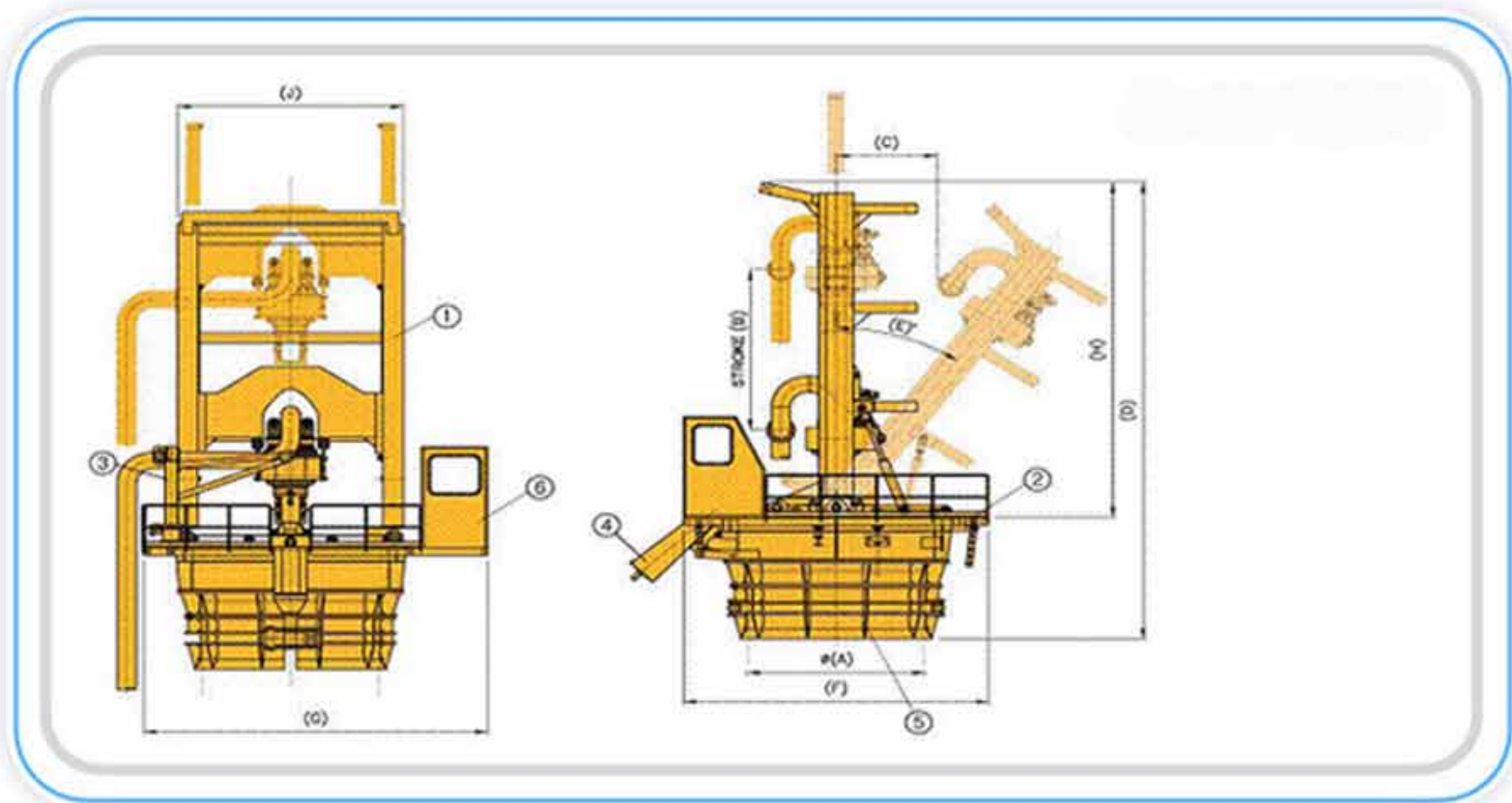
Standard Type

- * R.C.D. Pile Top Rig is available for various foundation drilling works for large diameter piles.
- * The low vibration and noise is suitable for the jobsite in the urban area.
- * All operations are composed of hydraulic system, it is easier to operate than electric system.
- * Safe clamping using hydraulic devices.
- * Drill pipe can be connected to the machine by tilting drilling rack and gear box. Working Efficiency is increased.
- * The excavating support of mast especially makes vertical angle with the best effect.
- * By changing a few parts, the diameter of Dia.1,200~4,000mm hole can be drilled.
- * By changing roller cutters, various geological formations can be drilled more efficiently and promptly.

Model : SBR-S



Model : SBR-S

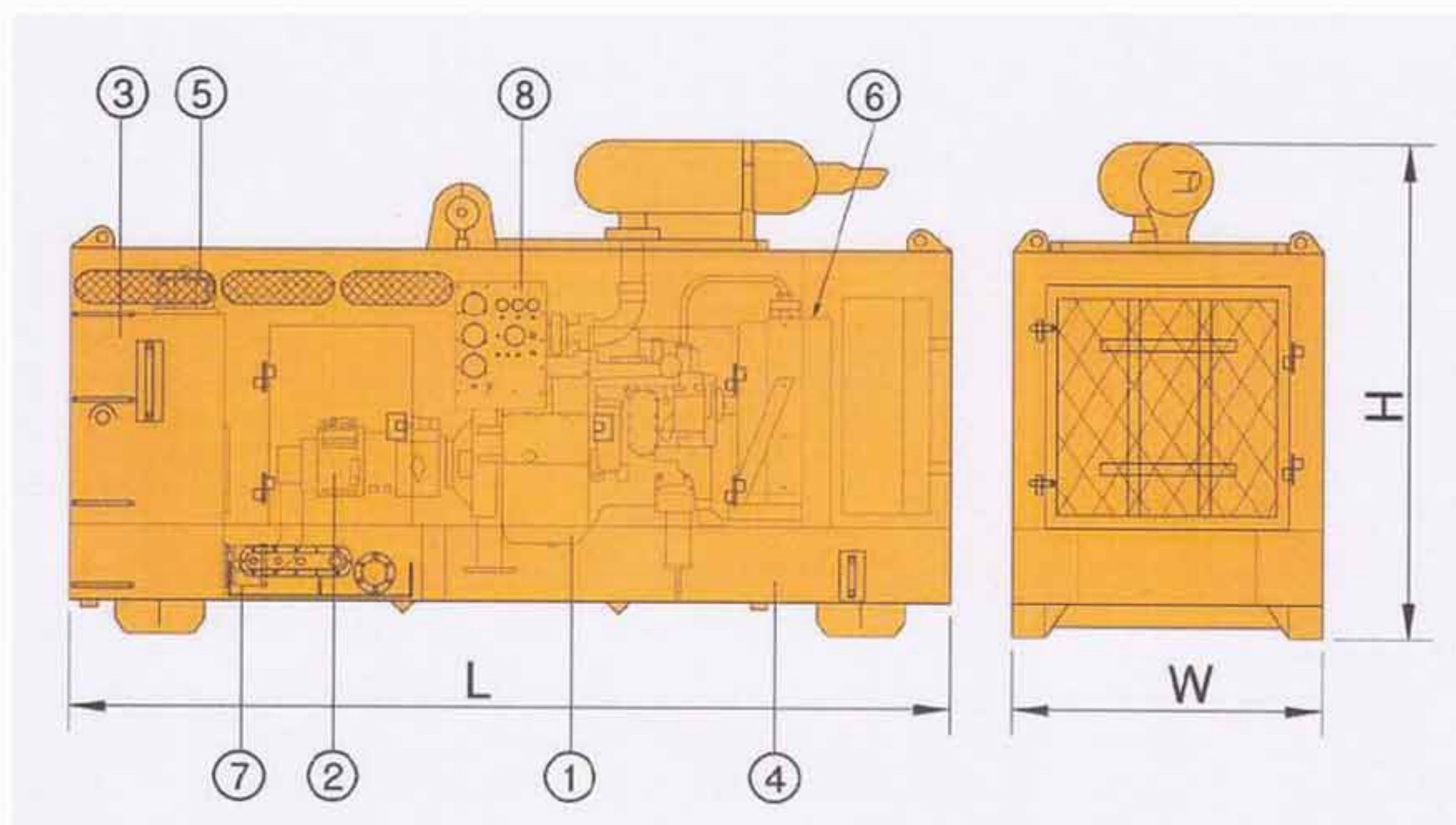


* PARTS NAME

No.	DESCRIPTION	No.	DESCRIPTION	No.	DESCRIPTION
1	PILE-TOP DRILLING RIG	4	DRILL-PIPE CHUTE	7	OTHERS
2	TILTABLE WORKING PLATFORM	5	CLAMPING DEVICE		
3	AUXILIARY CRANE	6	CONTROL ROOM		

* TECHNICAL DATA

DESCRIPTION			SBR-15S	SBR-20S	SBR-25S	SBR-30S	SBR-30S-ST	SBR-33S	SBR-40S
DRILLING RIG								SBR-35S	
MAX. DRILLING DIAMETER		M	1.5	2.0	2.5	3.0	3.0	3.3/3.5	4.0
POWER SWIVEL	MAX.TORQUE	kNm (tonf-m)	201(20.5)	201(20.5)	299(30.5)	299(30.5)	342(34.9)	342(34.9)	377(38.5)
	MAX.DRILLING SPEED	rpm	26/34	34	22	22	26	26	22
DRILLING THRUST DEVICE	MAX.THRUST FORCE	kN(tonf)	863(88)	863(88)	1000 (102)	1000 (102)	1202 (123)	1202 (123)	1450 (148)
	MAX.PULL-UP FORCE	kN(tonf)	1265 (129)	1265 (129)	1598 (163)	1598 (163)	1972 (201)	1972 (201)	2450 (250)
	CROSS-OVER SUB I/PIPE	NW	200/300	200/300	300	300	300	300	330
	MAST TILTING ANGLE	deg.	30	30	35	35	35	35	40
WEIGHT OF DRILLING RIG		ton	20	22	26	28	29	32/33	49
WEIGHT OF CLAMPING DEVICE		ton	5	7	9	11	11	12	13
TOTAL WEIGHT		ton	25	29	35	39	40	44/45	62
DRILL PIPE INTERNAL DIAMETER		NW	200/300	200/300	300	300	300	300	300
POWER PACK			SBP-215KR SBP-240KR	SBP-240KR	SBP-290KR	SBP-330KR	SBP-475KR	SBP-475KR	SBP-475KR

Model : SBP-KR*** PARTS NAME**

No.	DESCRIPTION	No.	DESCRIPTION
1	DIESEL ENGINE	5	RETURN FILTER
2	HYDRAULIC PUMP	6	OIL COOLER
3	OIL TANK	7	SUCTION FILTER
4	FUEL TANK	8	ENGINE CONTROL PANEL

*** TECHNICAL DATA**

MODEL	SBP-215KR	SBP-240KR	SBP-290KR	SBP-330KR	SBP-475KR
R.C.D	SBR-15S	SBR-15S/HD SBR-20S	SBR-25S	SBR-25S/HD SBR-30S	SBR-30S-ST SBR-33S SBR-35S SBR-40S
DIESEL ENGINE	"CUMMINS" C8.3-C215 (215HP×2200RPM)	"CUMMINS" C8.3-C240 (240HP×2200RPM)	"CUMMINS" M11-C290 (290HP×2100RPM)	"CUMMINS" M11-C330 (330HP×2100RPM)	"CUMMINS" N14-C475 (475HP×2100RPM)
PUMP DISPLACEMENT	2×224L/min (2×112cc/rev)	2×280L/min (2×140cc/rev)	2×333L/min (2×180cc/rev)	2×333L/min (2×180cc/rev)	2×448L/min (2×280cc/rev)
MAX.TANK	32MPa (320kg/cm ²)	32MPa (320kg/cm ²)	32MPa (320kg/cm ²)	32MPa (320kg/cm ²)	32MPa (320kg/cm ²)
FUEL TANK	600 LITER	600 LITER	800 LITER	800 LITER	1000 LITER
HYD.OIL TANK	1000 LITER	1200 LITER	1800 LITER	1800 LITER	2000 LITER
OVERALL SIZE (W×L×H)	1400×4000× 2230mm	1400×4000× 2230mm	1800×4300× 2600mm	1800×4600× 2700mm	1900×4800× 2700mm
WEIGHT	4.2 ton	4.8 ton	7.5 ton	8.0 ton	9.0 ton



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