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FOUNDATION EQUIPMENT

Top Drive RCD



About

The Top Drive Reverse Circulation Drilling (RCD) machine falls under the classification of large diameter bored pile equipment. The Top Drive RCD Machine is often used for foundation projects including buildings, subways and marine foundations. After piles have been driven by other means to suitable bedrock, the top drive is then installed on top of the pile and drills by reverse circulation methodology, a rock socket into the bedrock as a means of anchoring the pile.

Reverse Circulation drilling involves compressed air being forced into the cutting area, introduced into a high pressure environment the air acts to force the water and rock cuttings upward. These cuttings are collected by a seal and crossover and directed into the drill steel to the top of the machine. The outflow of cuttings and water can be controlled via discharge hose to a desired collection location.

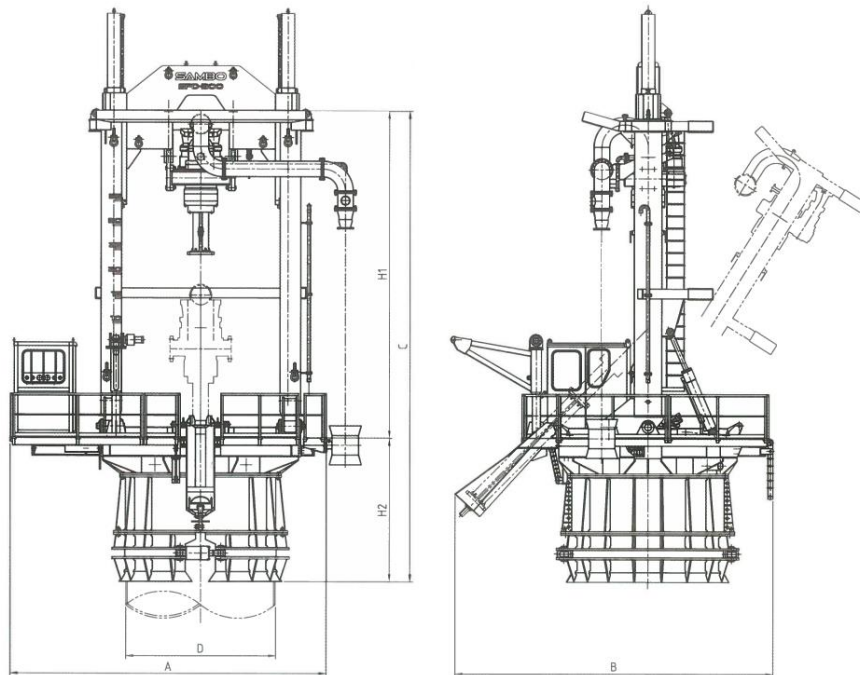
Quality Manufacturing:

The whole lead system and box collar are normalized to relieve welding stresses. The machining of the holes on the base of the lead and the base frame are bored by a boring tool.

The machining of the holes on the slide box collar are done by boring machine after normalizing.

Specifications

Size	Model	SPD150	SPD200	SPD250	SPD300	SPD330	SPD400	SPD500	SPD750
A(Width of Machine)mm		4310	5270	5770	6470	6770	7250	8980	10572
B(Length of machine)mm		4400	5260	5760	6515	6815	9150	12200	14359
C(Height of machine)mm		8015	9016	9016	9666	9666	10800	14400	15359
D(Clamping diameter)mm		1500	2000	2500	3000	3300	4000	5000	7500
H1(Height of mast)mm		6365	6758	6758	6721	6721	8400	11200	11769
H2(height of base frame)mm		1650	2277	2277	2945	2945	3200	3590	3590



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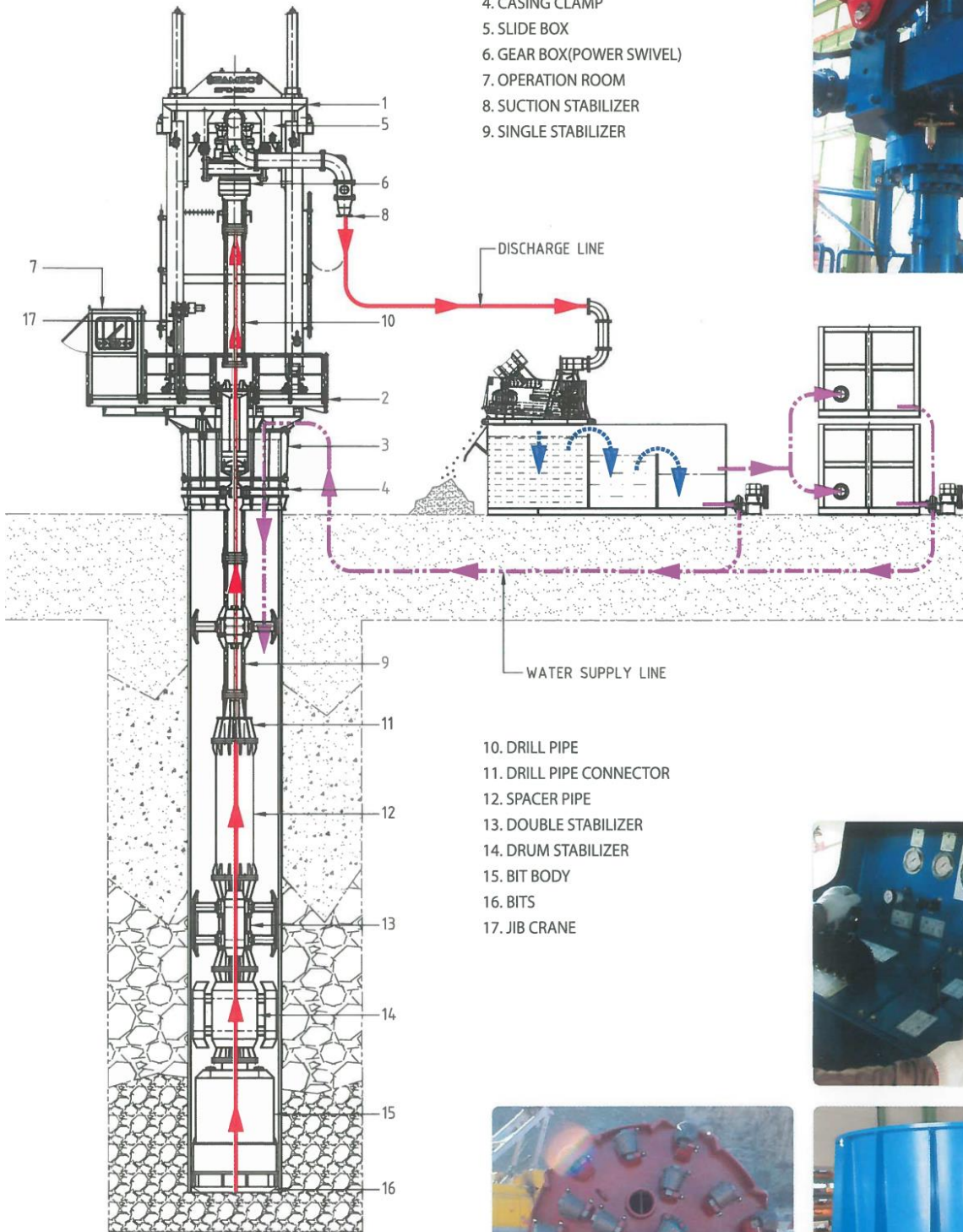


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Main Structure

- 1. MAST BOOM
- 2. WORKING PLATFORM
- 3. ADAPTER
- 4. CASING CLAMP
- 5. SLIDE BOX
- 6. GEAR BOX(POWER SWIVEL)
- 7. OPERATION ROOM
- 8. SUCTION STABILIZER
- 9. SINGLE STABILIZER



- 10. DRILL PIPE
- 11. DRILL PIPE CONNECTOR
- 12. SPACER PIPE
- 13. DOUBLE STABILIZER
- 14. DRUM STABILIZER
- 15. BIT BODY
- 16. BITS
- 17. JIB CRANE



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Technical Data

Description	SPD150	SPD200		SPD250	SPD300	SPD330	SPD400	SPD500	SPD750
Max.Drilling diameter (m)	1500	2000	2000	2500	3000	3300	4000	5000	7500
Max Power swivel torque(kNm)	160	160	200	240	350	360	650	800	1200
Max.Drilling speed(rpm)	11-41	11-41	9-33	11-40	9-20	10-23	8-20	6-20	3.2
Max. Thrust Force(kN) Up	990	1110	1110	1400	1840	1840	2700	3600	4240
Down	600	680	680	820	1130	1130	1500	2000	2350
Stroke of Thrust cylinder(mm)	3500	3500	3500	3500	3500	3500	3500	3500	4100
Max.passage of Retaining device(mm)	1530	2020	2020	2530	3030	3330	4050	5050	5500
Max.vertical load to Retaining device(kN)	800	1000	1000	1000	1000	1200	1500	1500	3000
Passage for Drill rod pipe(mm)	450	600	600	600	600	600	700	700	1650
Normal size of Drill rod pipe(NW)	200	200/300	200/300	300	300	300	350	350	1200
Line pull of Aux.Jib winch (kN)	10	10	10	10	10	10	20	20	30
Unit weight of Drilling Rig(tons)	15	21	21	31	36	39	50	70	145
Unit weight of Casing adapter and clamp(tons)	3.5	4.2	4.2	5.1	8.1	9	15	25	30
Model	SPP260	SPD535		SPP600		SPP750		SPP875	
Engine output(hp)	260	535		600		750		875	
Max.oil flow of hydraulic pump (L/min)	2*201	3*252		2*324+252		3*324+252		3*324+252	
Max.pressure (bar)	300	320		320		320		320	
Oil tank (liter)	1200	1600		1600		1900		1900	
Fuel tank(Liter)	510	900		900		1100		1100	
Unit Weight(kg)	7000	10000		10000		15000		17000	



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