

SUNWARD SWDRT250E DTH Drilling Rig

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Item		SWDRT200B			SWDRT250B	SWDRT250				SWDRT250BH	
Drilling method	-	DTH/Rotary			Rotary	DTH/Rotary		Rotary		DTH/Rotary	
Type of power	-	Diesel			Diesel	Diesel				Diesel	
Dust collector	-	Dry (standard) water mist (optional)									
Main parameters											
Rotary hole diameter	mm	180-216			200-250	180-216	200-230	200-250	200-230	200-250	
DTH hole diameter	mm	165-203	-		-	180-230	180-255	-		180-255	
Maximum hole depth	m	48			48	48				19	
Drilling angle(Optional)	°	90(60-90)			90(60-90)	90(60-90)				90	
Rock hardness	-	f4-f20			f4-f20	f4-f20				f4-f20	
Tube diameter	mm	133、140、159、178			159、178、194	140、159、178、194				140、159、178、194、203	
Tube length	m	10m×5			10m×5	10m×5				10m×2	
Air compressor											
Working pressure	bar	24	8		8	20	25	8	7	20/24	
FAD	m³/min	34.6	32		43	31.1	36.5	43	38	43/38.5	
Power	kW	-	-		-	372/1800	410/1800	340/1800	264/2000	-	
Power group											
Brand	-	CUMMINS	CUMMINS	CAT	CAT	CUMMINS				CAT	CUMMINS
Model	-	X15	X15	C15	C18	X12				C27	QSK23
Power rating	kW/rpm	447/2100	410/2100	403/2100	571/2100	277/2100				653/2100	641/2100
Fuel tank volume	L	1200			1800	1800				2500	
Motor power	kW/V	-			-	-				-	
Feed system											
Drill frame length	m	15			15	15				25	
Feed length	m	11.6			11.6	11.6				21.5	
Feed rate	m/min	35			30	30				30	
Feed force	kN	160			220	220				350	
Maximum bit load	kN	180			270	270				400	
Retract speed	m/min	45			45	45				35	
Carrier											
Tramming speed	km/h	2.4			1.8	1.8				1.5	
Gradeability	°	≤20			≤20	≤20				≤14	
Ground pressure	kPa	≤95			≤95	≤95				≤112	
Rotary head											
Rotation speed	rpm	0-170			0-160	0-160				0-160	
Torque	kNm	9			11.8	11.8				11.8	
Power	kW	80			90	90				90	
Dimension											
Weight	kg	48000-52000			65000-70000	65000-70000				94000-98000	
L × W × H (Transportation)	m	16.6×5.42×6.85			17×5.9×6.6	17×5.9×6.6				27.5×6.6×7.8	
L × W × H (Work)	m	11×5.42×16.7			11.5×5.9×17.5	12.5×5.9×17.5				14.5×6.6×27.7	

SWDRT270B		SWDRT270BH		SWDRT200E	SWDRT250E	SWDRT250EH	SWDRT270E			SWDRT270EH		
Rotary		Rotary		Rotary	Rotary	Rotary	Rotary			Rotary		
Diesel		Diesel		Electric	Electric	Electric	Electric			Electric		
Dry (standard) water mist (optional)												
216-270		216-270		180-216	200-250	200-250	200-270			200-270		
-		-		-	-	-	-			-		
48		19		48	48	19	48			19		
90(60-90)		90		90(60-90)	90(60-90)	90	90(60-90)			90		
f4~f20		f4~f20		f4~f20	f4~f20	f4~f20	f4~f20			f4~f20		
178、194、203、219		178、194、203、219		140、159、178	159、178、194	159、178、194、203	159、178、194、203、219			159、178、194、203、219		
10m×5		10m×2		10m×5	10m×5	10m×2	10m×5			10m×2		
8	8	8	8	8	7.5	7.5	5	8	8	5	8	8
53	50	53	50	32	42	42	50	50.8	51	50	50.8	51
-	-	-	-	220	250	250	250	315	315	250	315	315
CAT		CAT		-	-	-	-			-		
C27		C27		-	-	-	-			-		
597/2100		597/2100		-	-	-	-			-		
2500		2500		-	-	-	-			-		
-		-		160/380	160/380	160/380	200/380			200/380		
15		25		15	15	25	15			25		
11.6		21.5		11.6	11.6	21.5	11.6			21.5		
30		30		35	30	30	30			30		
350		350		160	220	350	350			350		
400		400		180	270	400	400			400		
45		35		45	45	35	45			35		
1.5		1.5		2.4	1.8	1.5	1.5			1.5		
≤20		≤14		≤20	≤20	≤14	≤20			≤14		
≤106		≤112		≤95	≤95	≤112	≤106			≤112		
0-150		0-150		0-170	0-160	0-160	0-150			0-150		
13.8		13.8		9	11.8	11.8	13.8			13.8		
90		90		80	90	90	90			90		
88000-92000		94000-98000		48000-52000	65000-70000	88000-92000	88000-92000			94000-98000		
17×6.6×7		27.5×6.6×7.8		16.6×5.5×6.85	16.5×5.9×6.6	27.5×6.6×7.8	17×6.6×7			27.5×6.6×7.8		
14.5×6.6×17.5		14.5×6.6×27.7		11×5.5×16.7	12.5×5.9×17	14.5×6.6×27.7	14.5×6.6×17.5			14.5×6.6×27.7		