

SUNWARD SWDE165S DTH Drilling Rig

Item		SWDE120B	SWDE138B	SWDE152B	SWDE165B	SWDE180B	SWDE200B
Main parameters							
Hole diameter	mm	90-138	115-152	138-165	138-180	138-203	165-230
DTH hammer	"	3.5、4、5	4、5	5、6	5、6	5、6、7	6、8
Tube diameter	mm	76	76、89	102	102、114	102、114	114、127
Tube length	m	4m×7	4m×7	6m×6	6m×6	6m×6	5m×6
Maximum hole depth	m	28	28	36	36	36	30
Dust collector	-	Dry (standard) water mist (optional)					
Air compressor							
Working pressure	bar	20	21	21	25	25	24
FAD	m³/min	18	20.5	20.5	28.1	29.8	34.6
Engine							
Brand	-	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Model	-	QSC8.9-C325-30	QSL8.9-C360-30	QSL8.9-C360-30	X12CS3-277-G3	X12-C500-T0	QSM15-563-CS3
Power rating	kW/rpm	242/2100	264/2100	264/2100	343/2100	373/1800	563/2100
Fuel tank volume	L	450	590	730	730	730	730
Feed system							
Total length	mm	7350	7350	10520	10520	10520	9500
Feed extension	mm	1200	1200	1300	1300	1300	1300
Feed force	kN	30	30	45	45	45	45
Pitch angle	°	140	140	140	140	140	140
Turning angle	°	-20-90	-20-90	-20-90	-20-90	-20-90	-20-90
Drill boom							
Lifting angle	°	50~-20	50~-20	50~-30	50~-30	50~-30	50~-30
Swing angle	°	L20 R32	L20 R32	L15 R45	L15 R45	L15 R45	L15 R45
Carrier							
Tramming speed	km/h	3.2	3.2	3.2	3.2	3.2	3.2
Traction force	kN	110	110	180	180	180	180
Gradeability	°	25	25	25	25	25	25
Track oscillation	°	±10	±10	±10	±10	±10	±10
Ground clearance	mm	438	438	480	480	480	480
Rotary head							
Rotation speed	rpm	0-120	0-130	0-150	0-150	0-150	0-150
Torque	Nm	3400	3800	5000	5500	5500	5800
Dimension							
Weight	kg	14500	15500	22500	23000	23500	24000
L × W × H (work)	m	7.9×2.5×7.7	8.2×2.5×7.7	9.2×2.7×10.6	9.5×2.7×10.6	9.5×2.7×10.6	9.5×2.8×10.6
L × W × H (Transportation)	m	10.0×2.5×3.5	10.3×2.5×3.5	12.2×2.7×3.8	12.3×2.7×3.8	12.3×2.7×3.8	12.3×2.8×3.8

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DTH hammer	"	3.5、4、5	4、5	5、6	5、6	6、8
Tube diameter	mm	76	76、89	102	102、114	114、127
Tube length	m	4m×7	4m×7	6m×6	6m×6	6m×6
Maximum hole depth	m	28	28	36	36	36
Dust collector	-	Dry (standard) water mist (optional)				
Air compressor						
Working pressure	bar	20	20	21	25	25
FAD	m³/min	17.0	20.4	22.5	29.8	33.8
Engine						
Brand	-	Cummins	Cummins	Cummins	Yuchai	Cummins
Model	-	QSC8.9-C325-30	QSL8.9-C360-30	QSL8.9-C360-30	YCK11460-H300	QSz13-C550
Power rating	kW/rpm	242/2100	264/2100	264/2100	338/2100	410/2100
Fuel tank volume	L	450	590	730	730	730
Feed system						
Total length	mm	7350	7350	10520	10520	10520
Feed extension	mm	1200	1200	1300	1300	1300
Feed force	kN	30	30	45	45	45
Pitch angle	°	140	140	140	140	140
Turning angle	°	-20-90	-20-90	-20-90	-20-90	-20-90
Drill boom						
Lifting angle	°	50~-20	50~-20	50~-30	50~-30	50~-30
Swing angle	°	L20 R32	L20 R32	L15 R45	L15 R45	L15 R45
Carrier						
Tramming speed	km/h	3.2	3.2	3.2	3.2	3.2
Traction force	kN	110	110	180	180	180
Gradeability	°	25	25	25	25	25
Track oscillation	°	±10	±10	±10	±10	±10
Ground clearance	mm	438	438	480	480	480
Rotary head						
Rotation speed	rpm	0-120	0-120	0-150	0-150	0-150
Torque	Nm	3400	3800	5000	5500	5800
Dimension						
Weight	kg	14500	15500	22500	23000	24000
L × W × H (work)	m	7.9×2.5×7.7	8.2×2.5×7.7	9.2×2.7×10.6	9.5×2.7×10.6	9.5×2.8×10.6
L × W × H (Transportation)	m	10.0×2.5×3.5	10.3×2.5×3.5	12.2×2.7×3.8	12.3×2.7×3.8	12.3×2.8×3.8