

SUNWARD Down-the-hole Drilling Rigs SWDE165A

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Item		SWDE120B	SWDE138B	SWDE152B	SWDE165B	SWDE200B
Main parameters						
Hole diameter	mm	90-138	115-152	138-165	138-180	165-230
DTH hammer	"	3.5、4、5	4、5	5、6	5、6	6、8
Tube diameter	mm	76	76、89	102	102、114	114
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	21	21	25	24
FAD	m³/min	17.6	20.5	20.5	28.1	34.6
Engine						
Brand	-	Cummins	Cummins	Cummins	Cummins	Cummins
Model	-	QSC8.9-C325-30	QSL8.9-C360-30	QSL8.9-C360-30	X12-C450-CS3	QSM15CS3-755C
Power rating	kW/rpm	242/2100	264/2100	264/2100	336/1800	563/2100
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	3.6	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	0-130	0-150	0-150	0-150
Torque	Nm	3400	3800	5000	5500	5800
Dimension						
Weight	kg	14500	15500	22500	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	9.5×2.8×10.6
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

Item		SWDE120S	SWDE138S	SWDE152S	SWDE165A	
Main parameters						
Hole diameter	mm	90-138	115-152	138-165	138-180	
DTH hammer	"	3.5、4、5	4、5	5、6	5、6	
Tube diameter	mm	76	76、89	102	102、114	
Tube length	m	4m×7	4m×7	6m×6	6m×6	
Maximum hole depth	m	28	28	36	36	
Dust collector	-	Dry (standard) water mist (optional)				
Air compressor						
Working pressure	bar	20	20	21	21	21
FAD	m³/min	18.0	20.4	22.5	30.3	34
Engine						
Brand	-	YuChai	Cummins	Cummins	Cummins	Cummins
Model	-	YCK09310-T300	QSL8.9-C360-30	QSL8.9-C360-30	QSB4.5-C130+QSM11-C400	QSB4.5-C130+QSX15-C550
Power rating	kW/rpm	228/2200	264/2100	264/2100	97/2200+298/2100	97/2200+410/1850
Fuel tank volume	L	450	590	730	800	
Feed system						
Total length	mm	7350	7350	10520	10520	
Feed extension	mm	1200	1200	1300	1300	
Feed force	kN	30	30	45	45	
Pitch angle	°	140	140	140	140	
Turning angle	°	-20-90	-20-90	-20-90	-20-90	
Drill boom						
Lifting angle	°	50~-20	50~-20	50~-30	50~-30	
Swing angle	°	L20 R32	L20 R32	L15 R45	L15 R45	
Carrier						
Tramming speed	km/h	3.2	3.2	3.2	3.2	
Traction force	kN	110	110	180	180	
Gradeability	°	25	25	25	25	
Track oscillation	°	±10	±10	±10	±10	
Ground clearance	mm	438	438	480	480	
Rotary head						
Rotation speed	rpm	0-120	0-120	0-150	0-105	
Torque	Nm	3400	3800	5000	5500	
Dimension						
Weight	kg	14500	15500	22500	26000	
L × W × H (work)	m	7.9×2.5×7.7	8.2×2.5×7.7	9.2×2.7×10.6	10.1×4.4×10.6	
L × W × H (Transporta-tion)	m	10.0×2.5×3.5	10.3×2.5×3.5	12.2×2.7×3.8	12.9×3.3×3.8	