



Roller-bit Hole Drilling Rig

▪ High axial pressure, high torque, high rotation speed and large hole diameter provide superior production efficiency for your mining operation.

▪ The dual power system of motor and diesel engine and optional air compressor with high/low pressure or low air pressure are efficient, energy-saving and eco-friendly.

▪ The constant-power variable electro-hydraulic proportional control system is used to adjust the operation parameters automatically according to the rock stratum.

▪ Three-point floating leveling chassis and high-strength truss drill frame are equipped to offer high reliability.

▪ Two rock drilling modes (roller bit rotation and down-the-hole impact) offer good adaptability to working conditions and wide adaptability to rock strata.

Item		SWDRT200B				SWDRT250B		SWDRT250		SWDRT200E		SWDRT270E		SWDRT270EH		
Drilling method	-	DTH/Rotary				Rotary		DTH/Rotary		Rotary		Rotary		Rotary		
Type of power	-	Diesel				Diesel		Diesel		Electric		Electric		Electric		
Dust collector	-	Dry (standard) water mist (optional)														
Main parameters																
Rotary hole diameter	mm	171-216				200-250		200-250		171-216		200-270		200-270		
DTH hole diameter	mm	165				-		165-200		-		-		-		
Maximum hole depth	m	45				48		48		45		48		19		
Drilling angle(Optional)	°	60-90				60-90		60-90		60-90		60-90		90		
Rock hardness	-	f4~f20				f4~f20		f4~f20		f4~f20		f4~f20		f4~f20		
Tube diameter	mm	140、159、178				159、178、194、203		133、159、178、194		140、159、178		159、178、194、219		159、178、194、219		
Tube length	m	9.14m×5				10m×5		10m×5		9.14m×5		10m×5		10m×2		
Air compressor																
Working pressure	bar	24	8	24	8	8		7	25	20	8		5	8	5	8
FAD	m³/min	34.6	32	34.6	32	43		38	36.5	31.1	32		50	53.8	50	53.8
Power	kW	-	-	-	-	-		264	410	372	220		250	310	250	310
Power group																
Brand	-	CUMMINS		CAT		CAT		CUMMINS		-		-		-		
Model	-	QSM15CS3-755C		C15		C18		QSM11-C400		-		-		-		
Power rating	kW/rpm	563/2100		403/2100		571/2100		298/2100		-		-		-		
Fuel tank volume	L	1200				1800		1500		-		-		-		
Motor power	kW/V	-				-		-		160/380		160/380		160/380		
Feed system																
Drill frame length	m	15				15		15		15		15		25		
Feed length	m	11.6				11.6		11.6		11.6		11.6		21.5		
Feed rate	m/min	35				30		34		35		30		30		
Feed force	kN	135				220		220		135		350		350		
Maximum bit load	kN	165				270		270		165		400		400		
Retract speed	m/min	70				60		65		70		60		30		
Carrier																
Tramming speed	km/h	3				2		2		3.2		1.5		1.5		
Gradeability	°	≤20				≤20		≤20		≤20		≤20		≤20		
Ground pressure	kPa	≤80				≤95		≤100		≤86		≤106		≤112		
Rotary head																
Rotation speed	rpm	0-160				0-160		0-160		0-160		0-150		0-150		
Torque	kNm	8				11.8		11.8		8		13.8		13.8		
Power	kW	90				90		90		90		90		90		
Dimension																
Weight	kg	40000				65000		65000		45000		90000		96000		
L × W × H (work)	m	15×5.5×6				16.5×5.9×6.6		17×5.8×7		15×5.5×6		17×6.6×7		27.5×6.6×7.8		
L × W × H (Transportation)	m	10×5.5×15.3				11.5×5.9×17		11.5×5.8×17.5		10.5×5.5×15.3		14.5×6.6×17.5		14.5×6.6×27.7		