

SITON

QM1

Scaling Rig



QM1 Scaling Rig

QM1 scaling rig is a special equipment designed for mechanized scaling in small and medium size drifts and tunnels. It can quickly and effectively remove the unstable rocks on roof and two sides to ensure the safety of operators and machines. The suitable cross-sections (width x height) is from minimum 3m x 2.5m to maximum 8m x 8m. There are two models, QM1 with a reaching height of 6m and QM1L with 8m.

Breaking Hammer

The breaking hammer's impact frequency is 600 to 1100 bpm, and the impact power is 362j. This hammer is specially designed for scaling rig. The fastest impact frequency is 1100bpm, which can remove the unstable rocks and protect the original tunnel roof from damage as much as possible.

Boom

The boom of QM1 has a compact structure with more concentrated force and more stability. Near the breaking hammer there are two helical swing cylinders, which can deliver 360° pitching and swinging without dead angle.

Dust Off

The exhaust gas purification uses water filtration to improve the working environment. Also there is water pump to remove the dust when scaling.



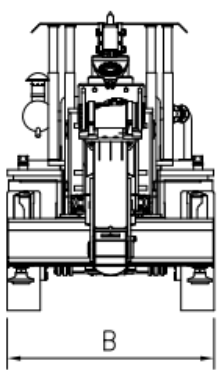
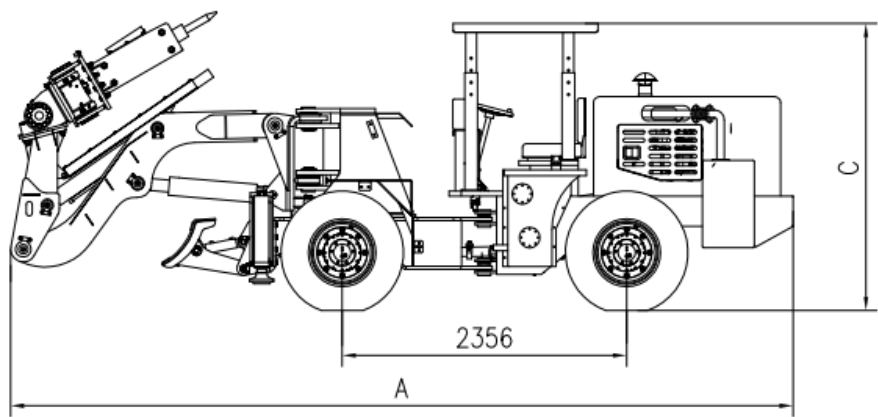
Note: This picture is for reference only. Different or optional configuration will make it looks different.

Technical specification

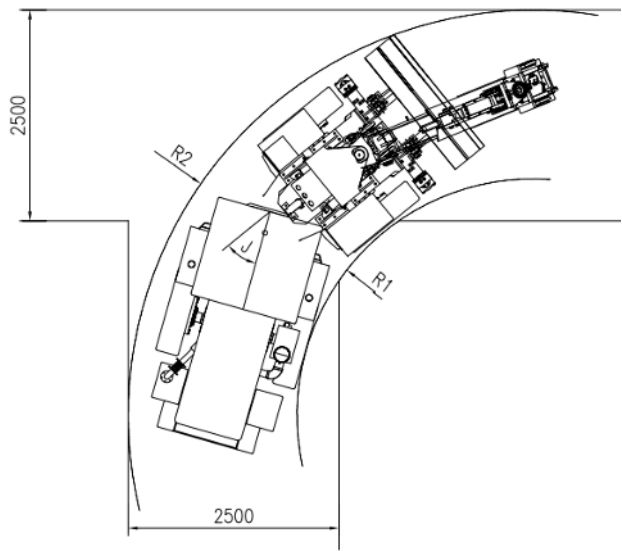
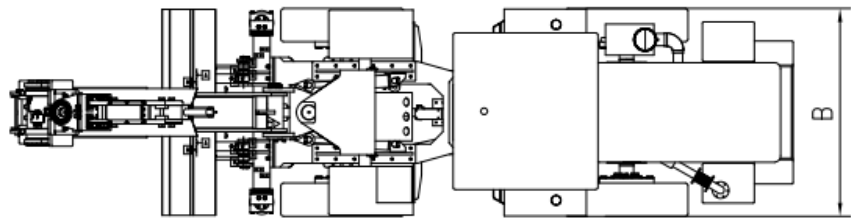
	Item	Unit	QM1	QM1L
Whole machine	Dimention (A*B*C)	mm	7260*1720*2390	7760*1720*2390
	Weight	kg	9500	10500
	Control method	mm	Electro-hydraulic Proportional control	Electro-hydraulic Proportional control
Working device	Impact Energy	J	362	362
	Impact frequency	bpm	600-1100	600-1100
	Drill rod diameter	mm	φ53	φ53
	Max.stretching length F	mm	5200	5200
	Max.scaling height E	mm	6000	8000
Chassis	Steering system	/	Articulated	Articulated
	Turning radius/inner R1	mm	≤2800	≤3250
	Turning radius/outer R2	mm	≤5000	≤5250
	Climbing ability	(°)	≤14	≤14
	Drive mode	/	Diesel engine	Diesel engine
	Min.ground clearance	mm	≥280	≥280
	Frame swing angle	(°)	8	8
	Body steering angle	(°)	±35	±35
	Fuel tank volume	L	110	110
	Traveling speed/forward	Km/h	1st gear 4, 2rd gear 15	1st gear 4, 2rd gear 15
	Traveling speed/backward	Km/h	1st gear 4, 2rd gear 15	1st gear 4, 2rd gear 15
	Diesel engine brand	/	Yanmar	Yanmar
	Rated power of diesel engine	KW	54.3	54.3
	Diesel exhaust emission	/	EU standard III	EU standard III

Note: This data sheet is for reference only. Due to different or optional configuration, Siton reserves the right to make changes to the information without prior notification to users.

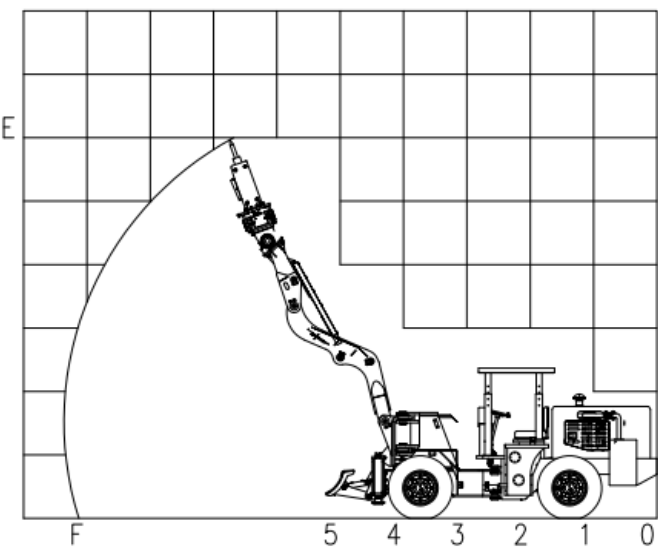
Measurements



Three view



Turning radius



Scaling height

With Pictures





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