

SITON

Medium and large

Crawler Mucking Loader



Medium and large crawler mucking loader

Models of medium and large crawler mucking loaders are mainly ZWY180-ZWY360, specially designed for large tunnels, such as water diversion, national defense and high-speed railway or auxiliary tunnels. It has high cost performance and good flexibility.

There are different models to choose, including specialized model for large slope, functional models for dual power, plateau-specific. It can work on the entire cross-section without leaving any blind spots and does not require manual cleaning. Mucking adopts chain scraper, which has stable conveyance, excellent ability in mucking. Besides, it adopts semi- enclosed loading method, which is easy to maintain.



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

Hydraulic system

- After upgrades of several generations, the overall design of the hydraulic system is reasonable, and the main components are all from well-known domestic and foreign brands to ensure working stability;
- The hydraulic system adopts two-level control and is equipped with imported hydraulic pilot joystick, which has characteristics of good proportional control and easy operation;
- The hydraulic system adopts high-power air-cooled radiator to ensure constant oil temperature for the entire system;
- Precise filter can effectively control pollution to protect the oil pump and other hydraulic components and improve the cleanliness of the hydraulic system.

Convey chute

- It is welded with high rigidity materials and uses imported wear-resistant transport bed or domestic NM500 to increase service life. The unique arc-shaped design of transport bed ensures the normal transportation of rocks with hardness $\leq f18$;
- The "duckbill" design of the conveyor chute gives full play to the effect of collection and feeding. The trough is segmented and connected with rust-proof bolts. The length will not affect the operation under mine;
- If a larger mucking device is used, a special conveyor chute can be customized (with a higher unloading height and longer unloading distance) to improve the conveying effect and efficiency.

Working arm

- The independent gantry is connected with the conveyor chute, which greatly shortens the distance between the rotation center of the working arm and the feeding port, maximizing the working range and increasing the dump height of the arm; The transport bed, side bed and reinforcement bed of the wear-resistant bucket are all made of imported wear-resistant materials, which reduces the friction of the bucket side wall, reduces the loss, and improves the durability of the bucket; the bucket teeth are made of excavator-specific forging materials with good interchangeability;
 - The working arm is large-section box-shaped design, the main stress-bearing parts are strengthened , and the stress concentration parts are welded with thick steel plates. Strong. More reliable when working with high-hardness rocks;
 - The working frequency of the working arm is fast and the impact force is large, which makes the working arm pin shaft hole easy to deform , which will cause the entire arm frame to be scrapped.
- Based on years of experience, our company adds steel sleeves to the non-rotating parts of the working arm for protection. After impact and wear, only replacement is needed. Steel sleeve without having to replace the entire boom structure.

Optional

Specialized for plateau

·Use a main motor with high power to ensure efficient loading capacity in plateau.

Breaker (Switchable)

- The machine is equipped with a quick connector, and the bucket and breaker can be quickly switched within one minute;
- The breaker performs broken maintenance on the floor of the tunnel and the bottom of the side ;
- Break the large rocks and coal blocks after blasting without additional blasting.

Project	Breaker parameters
Weight	120kg
Working pressure	13 MPa
Breaking speed	600-1 100BPM
Drill rod diameter	53mm
Dimensions (Length/Width)	1230mm / 220mm

Enclosed cab

- The closed cab is equipped with air conditioner and heating device, providing a better operating environment when working in cold or hot environments on the plateau ;
- Optional oxygen generator to supply short-term oxygen in plateau working environment, providing safety guarantee for operators;
- Optional preheating starting device for engine and hydraulic system .



Specifications

Item	Unit	ZWY-180/90L	ZWY-220/90L	ZWY-260GY (Plateau)	ZWY-260 (Ordinary)	ZWY-360
Whole machine weight	kg	19200	23800	25000	24100	41200
Loading capacity	m³/h	180	220	260	260	360
Excavation width	mm	7000	7300	7500	7500	8600
Excavation distance (From the bucket edge)	mm	3260	3260	3150	3150	2950
Excavation height	mm	4635	4950	7100	7100	7350
Excavation depth	mm	990	1020	1050	1050	1080
Unloading height (Variable)	mm	2750	3100	3600	3400	3300
Unloading distance (Variable)	mm	5000	5200	5350	5200	4500
Tramming speed (Max.)	km/h	max1.8	max1.8	max2.4	max2.4	max2.1
Scraper chain speed (Max.)	m/min	max30	max30	max32	max32	max29
Scraper chain transport mechanism	/	Double chain Double drive				
Applicable tunnel slope	(°)	15	20	20	20	15
Rated working pressure	MPa	30	28	28	28	35
Grounding resistivity ratio	MPa	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1
Ground Clearance	mm	350	390	390	390	500
Total motor power	kw	90	90	120	90	110
Operation method	/	Hydraulic Control	Hydraulic Control	Hydraulic Control	Hydraulic Control	Hydraulic Control
Crawler inner width	mm	1400	1540	1550	1550	1800
Conveyor chute width	mm	780	980	980	980	980
Max. rotation angle of the boom	(°)	±55	±55	±53	±53	±53
Dimensions (L*W*H) Transport	mm	12700*2359*3350	13700*2600*2700	14000*2795*3950	13700*2600*3200	14900*2850*3700
Dimensions (L*W*H)	mm	15000*2350*4170	14900*2600*3700	16300*2795*4850	14900*2600*3850	17000*4220*4900
Cab (Optional)	/	Open	Open	Closed	Open	Open
Diesel engine (Optional)	kw	Optional	Optional	Optional	Optional	Optional
Diesel engine power (Optional)	kw	92	92	119	92	119

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.



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