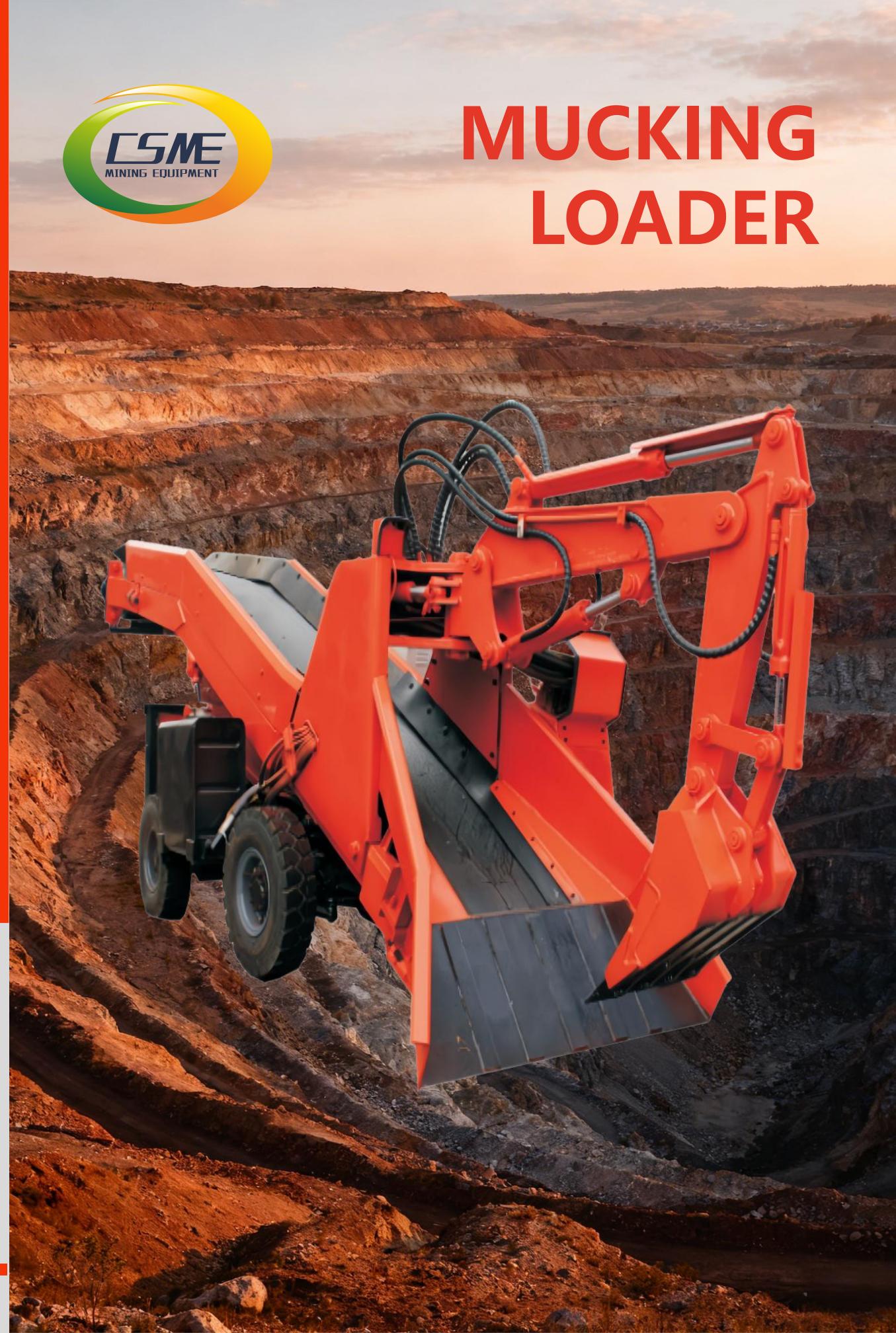




# MUCKING LOADER



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Changsha Mining Equipment Co.,Ltd

TEL: +86 13787042697

Email: [changshamining@163.com](mailto:changshamining@163.com)

Website: <https://www.csmeminingequipment.com>

Address: No.266 Honglian Road, Yuhua District, Changsha City, China

# Changsha Mining Equipment Co., Ltd.

## Your Trusted Partner in Global Mining Operations

For over a decade, Changsha Mining Equipment Co., Ltd. (CSME) has been a cornerstone of the mining industry, dedicated to engineering robust and efficient equipment that drives productivity and safety in mining operations worldwide.

### Comprehensive Product Portfolio

CSME delivers integrated solutions across the entire mining chain, engineered for durability and peak performance in the most demanding conditions.

**Haulage & Transportation:** Underground dump trucks, scooptrams, and conveyor systems built for maximum payload and reliability.

**Hoisting & Lifting:** Mine hoists, winches, and elevators engineered for the safe and efficient vertical movement of personnel and materials.

**Mineral Processing:** Crushers, ball mills, and separators designed to optimize mineral recovery and processing efficiency.

### Proven Global Credentials

Our equipment has earned the trust of clients in over 20 countries across Asia, Africa, the Americas, and Europe. From the copper belts of Africa to the terrains of South America, the CSME trademark is a globally recognized symbol of performance and resilience.

### The CSME Assurance: Our Pillars of Strength

Our commitment is upheld by three core pillars that guarantee value from inquiry to operation:

**Expert International Team:** Navigating logistics and trade complexities to ensure a seamless procurement experience.

**Rigorous Quality Control:** Quality is our foundation. We enforce stringent inspections at every stage, from sourcing to assembly, because your trust depends on the reliability of our equipment.

**Dedicated After-Sales Support:** We provide end-to-end support, including installation supervision, operational training, and readily available spare parts to maximize your operational uptime.

### Our Pledge

We partner with our clients to deliver the most operationally suitable and economically competitive solutions. At CSME, we survive on quality, and your trust is our motivation. We pledge to continue providing superior equipment and total mining solutions that empower your business for the future.

# CONTENT

<b>1. ZWY Series Wheeled Belt Conveyor Mucking Loader-----</b>	<b>1</b>
<b>2. ZWY-G Series Wheeled Scraper Conveyor Mucking Loader-----</b>	<b>3</b>
<b>3. ZWY-L Series Crawler Belt Conveyor Mucking Loader-----</b>	<b>5</b>
<b>4. ZWY-LG Series Crawler Scraper Conveyor Mucking Loader-----</b>	<b>7</b>
<b>5. ZWY Series Explosion-proof Mucking Loader-----</b>	<b>9</b>

# ZWY Series Wheeled Belt Conveyor Mucking Loader

The ZWY Series Wheeled Belt Conveyor Mucking Loader is engineered for exceptional efficiency and maneuverability in tunnel cleaning and mucking operations. Its compact, wheeled design ensures superior mobility, allowing it to navigate confined workspaces with ease and significantly reduce repositioning time between tasks.

A key feature of this loader is its integrated belt conveyor system, which enables continuous, high-volume material handling for streamlined operations and enhanced productivity. The machine boasts robust digging capabilities and an adjustable discharge height, providing excellent flexibility to adapt to various job site requirements and seamlessly load onto trucks or conveyors.



Built with a rugged construction, the ZWY Series is designed for reliable performance in demanding environments, ensuring long-term durability with minimal maintenance. Its focus on operator safety and environmental compliance makes it a responsible choice for modern projects. This loader is the ideal solution for achieving fast, efficient, and cost-effective material removal.

Model	ZWY-50	ZWY-60	ZWY-70	ZWY-80	ZWY-120
Overall Dimensions (L*W*H)(mm)	5200 × 1350 × 1500	5300 × 1450 × 1650	5500 × 1500 × 1500	5700 × 1700 × 1650	7800 × 1850 × 1800
Loading Mass (m <sup>3</sup> /h)	≤50	≤60	≤70	≤80	≤120
Weight (kg)	3200	3300	3500	3800	4600 ±5 %
Digging Width (mm)	2200	2200	3000	3200	≥3500
Digging Height (mm)	1600	2150	2000	2200	≥2600
Digging Depth (mm)	≤ 460	≤ 550	≤ 540	≤ 550	≤ 630
Adapt to The Climbing Grade (°)	≤ 5 (hardstand)	≤15 (hardstand)	≤ 15 (hardstand)	≤ 15 (hardstand)	≤ 15 (hardstand)
Adapt to The Minimum Section of The Roadway (m)	1.8 × 1.8	2 × 2	2.2 × 2.2	2.4 × 2.4	3 × 3
Digging Distance (mm)	1300	1400	1600	1650	≥1650
Minimum Turning Radius (°)	≤5				
Discharge Height (mm)	1200 (can be raised)	1300 (can be raised)	1500 (can be raised)	1700 (can be raised)	1750 (can be raised)
Dumping Distance (mm)	1300 (extendable)	1500 (extendable)	1600 (extendable)	1700 (extendable)	3500 (extendable)
Motor Power (kw)	11	11	15	15	18.5
Walking Speed (m/s)	1.45 ±5%	1.45 ±5%	1.45	1.45	1.45
Maximum Material Passing Size (mm)	550 × 450	550 × 450	600 × 500	700 × 600	800 × 700
Wheel Track (mm)	1120	1180/1130	1250/1220	1530/1470	1640/1480
Wheel Base (mm)	1300	1480	1510	1540	1780

# ZWY-G Series Wheeled Scraper Conveyor Mucking Loader

Engineered for robust performance in challenging tunneling environments, the ZWY-G Series Wheeled Scraper Conveyor Mucking Loader delivers superior material handling efficiency. Its wheeled design provides excellent mobility, allowing for quick and easy maneuvering in confined underground spaces.

The core of its operation is the heavy-duty scraper conveyor system, designed for reliable and continuous removal of muck, even with larger or more abrasive materials. This ensures consistent loading rates and minimizes downtime, keeping your project on schedule.



Built for durability and power, this loader offers impressive digging force and reach. The adjustable discharge height provides operational flexibility for efficient loading into trucks or other transport systems. It is the go-to solution for productive and reliable mucking operations in various mining and tunneling applications.

Model	ZWY-60G	ZWY-80G	ZWY-100G
Overall Dimensions (L*W*H)(mm)	5700 × 1650 × 1650	5700 × 1700 × 1700	6500 × 1800 × 1800
Loading Mass( m <sup>3</sup> /h)	≤60	≤80	≤80
Weight (kg)	4200	4800	5050
Digging Width (mm)	3000	3200	3200
Digging Height (mm)	2000	2200	2200
Digging Depth (mm)	≤ 550	≤ 500	≤ 500
Adapt to The Climbing Grade ( ° )	≤ 15 (hardstand)	≤15	≤15
Adapt to The Minimum Section of The Roadway (m)	2.3 × 2.3	2.4 × 2.4	2.8 × 2.8
Digging Distance (mm)	1400	1600	1600
Minimum Turning Radius ( ° )	≤5		
Discharge Height (mm)	1600 (can be raised)	1700 (can be raised)	1750 (can be raised)
Dumping Distance (mm)	1800 (extendable)	1900 (extendable)	2700 (extendable)
Motor Power (kw)	30	30	30
Walking Speed (m/s)	1.45 ±5%	1.45	1.45
Maximum Material Passing Size (mm)	550 × 450	550 × 500	550 × 650
Wheel Track (mm)	1250/1220	1250/1220	1250/1220
Wheel Base (mm)	1510	1550	1550

# ZWY-L Series Crawler Belt Conveyor Mucking Loader

Engineered for the most demanding terrains, the ZWY-L Series Crawler Belt Conveyor Mucking Loader delivers unmatched traction and stability. Its robust crawler undercarriage ensures superior ground adhesion and safe, powerful operation on steep gradients and uneven surfaces, providing exceptional performance where wheeled machines cannot go.

At the heart of its efficiency is the continuous belt conveyor system. This system allows for high-capacity, rapid material handling, seamlessly transferring muck from the digging face to the discharge point. This streamlined process significantly boosts job site productivity by enabling non-stop cycling and loading.



Built for heavy-duty reliability, this loader excels in challenging mining and tunneling applications. It offers powerful digging capabilities and an adjustable discharge system for optimal loading flexibility. The ZWY-L Series is the definitive choice for high-efficiency, reliable mucking in confined and rugged underground environments.

Model	ZWY-60L	ZWY-80L	ZWY-120L	ZWY-160L
Overall Dimensions (L*W*H)(mm)	5500x1550x1600	5700x1700x1600	7800x2000x1950	8500x2200x2500
Loading Mass( m <sup>3</sup> /h)	≤ 60	≤ 80	≤ 120	≤ 160
Weight (kg)	5200	5500	6200	7200
Digging Width (mm)	3000	3200	3800	3800
Digging Height (mm)	2000	2200	3000	3500
Digging Depth (mm)	≤ 700	≤700	≤500	≤700
Adapt to The Climbing Grade (°)	≤ 25(hardstand)			
Adapt to The Minimum Section of The Roadway (m)	2.2x2.2	2.5x2.5	3x3	3.5x3.5
Digging Distance (away from edge)(mm)	1600	1700	1750	1900
Minimum Turning Radius (°)	≤6	≤7	≤5	≤5
Discharge Height (mm)	1500(can be raised)	1700(can be raised)	1750(can be raised)	1900(can be raised)
Dumping Distance (mm)	1500(extendable)	1700(extendable)	3500(extendable)	3500(extendable)
Motor Power (kw)	30	37	41	41
Walking Speed (m/s)	1.25			
Maximum Material Passing Size (mm)	600 ×450	700×500	950×700	1000×800
Minimum Ground Clearance (mm)	≥260			
Average Ground Specific Pressure of The Track (mm)	≤0.1			

# ZWY-LG Series Crawler Scraper Conveyor Mucking Loader

Built for extreme conditions, the ZWY-LG Series Crawler Scraper Conveyor Mucking Loader combines rugged crawler traction with a heavy-duty scraper conveyor to tackle the most challenging mucking tasks. Its robust track system ensures superior stability and climbing ability on rough and inclined surfaces, providing a reliable platform for continuous operation.

The powerful scraper conveyor is engineered for high efficiency in handling large volumes of material, including coarse and abrasive muck. This system guarantees consistent and reliable transport from the digging face to the discharge point, minimizing blockages and maximizing productivity in demanding mining and tunneling environments.



Designed for durability and low maintenance, the ZWY-LG Series delivers powerful digging force and excellent ground clearance. The adjustable discharge height offers versatile loading options for various transport vehicles. It is the ultimate solution for high-performance mucking where reliability and powerful material handling are paramount.

Model	ZWY-60LG	ZWY-80LG
Overall Dimensions (L*W*H)(mm)	5500x1500x1600	5700x1800x1750
Loading Mass( m <sup>3</sup> /h)	≤ 60	≤ 80
Weight (kg)	6500	7200
Digging Width (mm)	3000	3200
Digging Height (mm)	2000	2300
Digging Depth (mm)	≤ 540	≤ 640
Adapt to The Climbing Grade (°)	≤ 25(hardstand)	
Adapt to The Minimum Section of The Roadway (m)	2.2x2.2	2.6x2.6
Digging Distance (away from edge)(mm)	1600	1800
Minimum Turning Radius (°)	≤5	≤7
Discharge Height (mm)	1550(can be raised)	1700(can be raised)
Dumping Distance (mm)	1850(extendable)	2500(extendable)
Motor Power (kw)	37	37
Walking Speed (m/s)	1.25	
Maximum Material Passing Size (mm)	550 ×500	550 ×500
Minimum Ground Clearance (mm)	≥260	
Average Ground Specific Pressure of The Track (mm)	≤0.1	

## ZWY Series Explosion-proof Mucking Loader

Engineered for safety in hazardous environments, the ZWY Series Explosion-proof Mucking Loader is built to operate reliably in potentially explosive atmospheres, such as gas-prone mines and tunnels. Its components are meticulously designed and certified to prevent ignition, ensuring maximum protection for both personnel and equipment.

This loader combines robust digging power with excellent maneuverability. Its compact design allows it to navigate tight spaces with ease, while the efficient loading mechanism ensures rapid material removal. The adjustable discharge system offers flexibility for seamless integration with various transport methods, maintaining high productivity without compromising safety.



Durability and low maintenance are at the core of its construction, making it a dependable choice for demanding operations. The ZWY Series enables continuous, high-efficiency mucking while strictly adhering to the highest safety standards. It is the ideal solution for projects where operational safety is as critical as performance.

Model	ZWY-60	ZWY-80
Overall Dimensions (L*W*H)(mm)	5300 × 1300 × 1400	5700 × 1700 × 1700
Loading Mass( m <sup>3</sup> /h)	≤ 60	≤ 80
Weight (kg)	3200	3800
Digging Width (mm)	3000	3200
Digging Height (mm)	2000	2200
Digging Depth (mm)	≤ 640	≤ 640
Adapt to The Climbing Grade ( ° )	≤ 15(hardstand)	≤ 15(hardstand)
Adapt to The Minimum Section of The Roadway (m)	2.2×2.2	2.4×2.4
Digging Distance (mm)	1600	1700
Minimum Turning Radius ( ° )	≤5	≤5
Discharge Height (mm)	1350(can be raised)	1700(can be raised)
Dumping Distance (mm)	1500(extendable)	1700(extendable)
Motor Power (kw)	15	18.5
Walking Speed (m/s)	1.25	1.25
Maximum Material Passing Size (mm)	600×500	700×600
Wheel Track (mm)	1110/1190	1530/1470
Wheel Base (mm)	1550	1540