



JBL CNC GLOBAL LINK



-----Leading Enterprise in Mucking Loaders

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Tyre Conveyor Type Mucking Loader **MA KA**

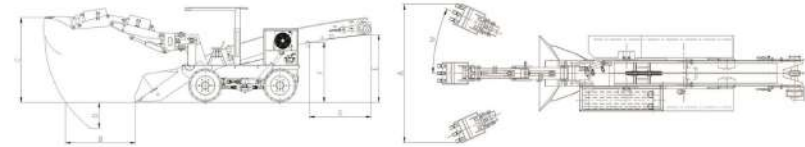


Functions and features:

The Tyre Conveyor Type Mucking Loader is a high-efficiency ore-discharging equipment for continuous production. It is mainly used in underground mining operations with narrow spaces, such as metal mines, non-metal mines, water-diversion tunnels, etc., and it is suitable for roadways with a cross-section of more than 1.8×1.8 m.

This machine adopts electro-hydraulic transmission and has four functions: hydraulic walking, excavation and collection, conveying, and loading. It has a compact structure, large propulsive force, and a wide grasping range, and can load rocks over the entire section without leaving any dead corners or requiring manual auxiliary cleaning of the working face. This machine uses hydraulic pilot control, which makes operation easy and simple, with reliable performance and convenient maintenance. It has an excellent humanized design. The hydraulic system adopts air cooling, and it is equipped with a seat and a driving shed, which greatly reduces the labor intensity of workers. It is easy to work with, with accurate lifting and positioning of movements, and fast material transportation speed. It has the characteristics of safety, reliability, environmental protection, high efficiency, and greatly saves manpower, fully conforming to ergonomics. Its power can be divided into electric motor type and diesel type.

Working Diagram



The scope of work

Type	Unit	ZWY-60/22T	ZWY-80/30T
Excavating Width	(mm)	≥ 4200	≥ 4800
Excavating Distance	(mm)	≤ 1600	≥ 1850
Excavating Height	(mm)	1800-2700	≥ 2800
Excavating Depth	(mm)	≤ 450	≥ 800
Uninstall Height	(mm)	1200-1600 (Can be heightened)	1350-1650 (Can be heightened)
Minimum Loading Height	(mm)	1200 (Variable)	1300 (Variable)
Uninstall Distance	(mm)	1600 (Can be lengthened)	1600 (Can be lengthened)
Max. rotation angle	(°)	± 50	± 50

Technical specifications

Type	Unit	ZWY-60/22T	ZWY-80/30T
Weight	(T)	5.8	7.2
Overall dimension (L×W×H)	(mm)	5600×1650×1700	6000×1750×1800
Loading Capacity	(m³/h)	≈ 60	≈ 80
Min turning radius	(mm)	4500	5000
Climbing ability	(°)	≤ 10 (Hard ground)	≤ 10 (Hard ground)
Traveling Speed	(km/h)	Height 4.5/Low 2	Height 4.5/Low 2
Ground clearance	(mm)	200	260
Nominal working pressure	(MPa)	20	20
Motor Power	(kw)	18.5/22	22/30
Max. materials by size (L×W×H)	(mm)	810×580×420	810×580×500
Applicable section (W×H)	(m)	$\geq 1.8 \times 1.8$	$\geq 2.2 \times 2.2$



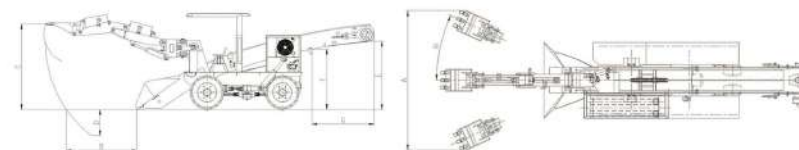
Tyre Scraper Type Mucking Loader **MA KA**



Functions and features:

- This machine is four-wheel drive, with large propulsive force, wide grasping range, and can load rocks over the entire section without leaving any dead corners or requiring manual auxiliary cleaning of the working face.
- This machine uses a scraper chain for material transportation, completely replacing belt conveyors and its service life is more than 30 times that of belt conveyors.
- This machine adopts modular production, which is convenient for underground installation. With small body, compact structure, low center of gravity, flexible mobility and stable operation, it is an irreplaceable model for narrow sections.

Working Diagram



The scope of work

Type	Unit	ZWY-60/22T	ZWY-80/30T
Excavating Width	(mm)	≥4200	≥4800
Coverage	(mm)	≤1600	≤1800
Excavating Height	(mm)	1800-2700	1800-2700
Excavating Depth	(mm)	≥450	≥550
Uninstall Height	(mm)	1350-1750 (Can be heightened)	1350-1700 (Can be heightened)
Minimum Loading Height	(mm)	1100 (Variable)	1200 (Variable)
Uninstall Distance	(mm)	1600 (Can be lengthened)	1700 (Can be lengthened)
Max. rotation angle	(°)	±50	±50

Technical specifications

Type	Unit	ZWY-60/22T	ZWY-80/30T
Weight	(T)	6.2	8.6
Overall dimension(L×W×H)	(mm)	5800×1650×1700	5800×1700×1650
Loading Capacity	(m³/h)	≈60	≈80
Min turning radius	(mm)	4500	4500
Ground clearance	(mm)	200	210
Nominal working pressure	(MPa)	16/25	16/25
Traveling Speed	(m/min)	Height: 4.5/Low: 2	Height: 4.5/Low: 2
Gradient	(°)	≤15 (Adapt to the ground)	≤15 (Adapt to the ground)
Max materials by size (L×W×H)	(mm)	810×580×500	810×580×500
Applied tunnel gradient	(°)	≤10 (Adapt to the ground)	≤13 (Adapt to the ground)
Applicable section(W×H)	(m)	≥2.0×2.0	≥2.2×2.2
Motor Power	(kw)	18.5/22	22/30



Crawler Conveyor Type Mucking Loader **MA KA**

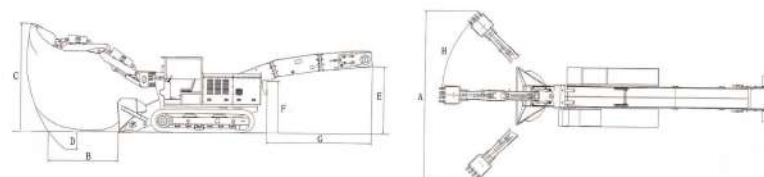


Functions and features:

The Crawler Conveyor Type Mucking Loader is a high-efficiency ore-discharging equipment for continuous production. It is mainly used in underground mining operations with narrow spaces, such as metal mines, non-metal mines, and water-diversion tunnels. Its function is to collect, convey, and load crushed stone and soil materials from construction projects. This machine travels by crawler, with large propulsive force, wide grabbing range, and can load rocks over the entire section without leaving any dead corners or requiring manual auxiliary cleaning of the working face.

It adopts hydraulic pilot control, making the operation easy and simple with reliable performance. Equipped with a seat and a driving shed, it greatly reduces workers' labor intensity. It is easy to operate, with accurate lifting and positioning of movements and fast material transportation speed. It has the characteristics of safety, reliability, environmental protection, high efficiency, and greatly saves manpower, fully conforming to ergonomics. Its power can be divided into electric motor type and diesel type.

Working Dia



The scope of work

Type	Unit	ZWY-60/22L	ZWY-80/30L
Excavating Width	(mm)	≥4100	≥4600
Excavating Distance	(mm)	≤1700	≤2000
Excavating Height	(mm)	≥2600	≥2800
Excavating Depth	(mm)	≤550	≤700
Uninstall Height	(mm)	1550-1700	1650-1800
Minimum Loading Height	(mm)	1300 (Variable)	1400 (Variable)
Uninstall Distance	(mm)	1700 (Can be lengthened)	1700 (Can be lengthened)
Max. rotation angle	(°)	±45	±45

Technical specifications

Type	Unit	ZWY-60/22L	ZWY-80/30L
Weight	(T)	5.2	6.1
Overall dimension(L×W×H)	(mm)	6300×1650×1600	6500×1650×1750
Loading Capacity	(m³/h)	≈60	≈80
Min turning radius	(mm)	3600	4500
Climbing ability	(°)	≤20 (Hard ground)	≤30 (Adapt to the ground)
Traveling Speed	(m/min)	Height: 4.5/Low: 2	Height: 3.8/Low: 2.1
Ground clearance	(mm)	200	230 (Can be heightened)
Nominal working pressure	(MPa)	20	25
Motor Power	(kw)	22	30/37
Max. materials by size (L×W×H)	(mm)	680×600×470	650×600×600
Applicable section (W×H)	(m)	≥2.4×2.4	≥2.6×2.6



Crawler Scraper Type Mucking Loader MA KA

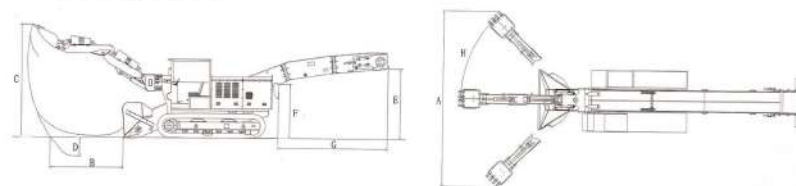


Functions and features:

The Crawler Scraper Type Mucking Loader is a high-efficiency mucking and loading equipment for continuous production. It is mainly used for tunneling and loading operations involving various types of rare mineral waste in coal mines, main mine roadways, railway tunnels, water-diversion culverts, national defense projects, etc., and can also be used for loading bulk materials in open-pit operations;

- This machine travels by crawler, with large propulsive force, wide grabbing range, and can load rocks over the entire section without leaving any dead corners or requiring manual auxiliary cleaning of the working face;
- This machine adopts an imported hydraulic pilot control system, with accurate positioning, wide grabbing range, and fast material transportation speed, and its performance ranks first among similar domestic products.
- This machine can be matched with various equipment such as roadheaders and feeders.

Working Diagram



The scope of work

Type	Unit	ZWY-60/30L	ZWY-80/30L
Excavating Width	(mm)	≥4200	≥4800
Coverage	(mm)	≤1600	≤1850
Excavating Height	(mm)	≥2600	≥2800
Excavating Depth	(mm)	≥500	≥500
Uninstall Height	(mm)	1500 (Variable)	1700 (Variable)
Minimum Loading Height	(mm)	1350 (Variable)	1350 (Variable)
Uninstall Distance	(mm)	1700 (Variable)	1700 (Can be lengthened or shortened)
Max. rotation angle	(°)	±50	±50

Technical specifications

Type	Unit	ZWY-60/30L	ZWY-80/30L
Weight	(T)	8.0	8.2
Overall dimension (L×W×H)	(mm)	5100×1700×1800	6100×1800×1800
Loading Capacity	(m ³ /h)	≈80	≈80
Ground clearance	(mm)	300 (Can be heightened)	300 (Can be heightened)
Nominal working pressure	(MPa)	≤25	≤25
Traveling Speed	(km/h)	2.1/3.8	2.1/3.8
Motor Power	(kw)	30	30/37
Applied tunnel gradient	(°)	≤16 (Adapt to the ground)	≤16 (Adapt to the ground)
Max. materials by size (L×W×H)	(mm)	800×600×550	800×700×650
Applicable section (W×H)	(m)	≥2.2X2.2	≥2.6X2.6
The inside track width	(mm)	1000 (Can be widened)	1000 (Can be widened)
Transport form of scraper		Single-Chain Single-Drive	Single-Chain Single-Drive
Gradient	(°)	≤20 (Adapt to the ground)	≤25 (Adapt to the ground)



Crawler Scraper Type Mucking Loader for Large Slopes **MA KA**

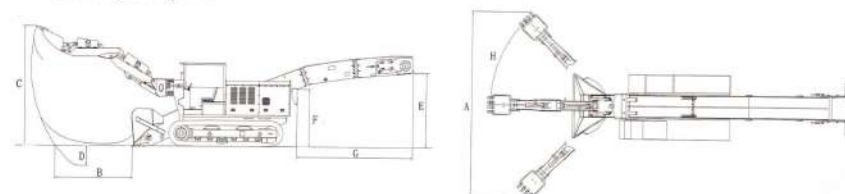


Functions and features:

The Crawler Scraper Type Mucking Loader for Large Slopes is mainly used for loading operations of various rare ore lumps in slope tunnels of mines, tunnels, hydropower projects, culverts, national defense projects, etc. The main components adopt internationally renowned brands, and the product performance reaches the advanced level of similar domestic products. The equipment is suitable for large-slope tunnels with a slope of $\leq 30^\circ$:

- This machine travels by crawler, with large propulsive force, wide grabbing range, and can load rocks over the entire section without leaving any dead corners or requiring manual auxiliary cleaning of the working face, ensuring optimal performance under various harsh conditions;
- This machine adopts an imported hydraulic pilot control lever system, combined with high-efficiency hydraulic valves, to accelerate the speed of the boom, bucket rod and conveying, achieving perfect composite operation performance;
- This machine is easy to operate, with accurate lifting and positioning of movements, wide grabbing range, and fast material transportation speed. It has the characteristics of safety, environmental protection, high efficiency and super energy saving, fully conforms to ergonomic design, can adapt to various complex working conditions, and its performance and structure rank first among similar domestic products, comparable to imported products.

Working Diagram



The scope of work

Type	Unit	ZWY-80/30L	ZWY-120/55L	ZWY-150/55L	ZWY-180/55L
Excavating Width	(mm)	≥ 4800	≥ 5300	≥ 5300	5900-6870
Coverage	(mm)	≥ 1700	≥ 1970	≥ 2200	2470-2958
Excavating Height	(mm)	≥ 2800	≥ 3090	≥ 3300	≥ 3568
Excavating Depth	(mm)	≥ 500	≥ 550	≥ 700	≥ 620
Uninstall Height	(mm)	1646 (Can be heightened)	1760 (Can be heightened)	1900 (Can be heightened)	2000 (Can be heightened)
Minimum Loading Height	(mm)	1470 (Variable)	1480 (Variable)	1500 (Variable)	1680 (Variable)
Uninstall Distance	(mm)	1600 (Can be lengthened)	1700 (Can be lengthened)	2900 (Can be lengthened)	3300 (Can be lengthened)
Max. rotation angle	($^\circ$)	± 50	± 60	± 50	± 60

Technical specifications

Type	Unit	ZWY-80/30L	ZWY-120/55L	ZWY-150/55L	ZWY-180/55L
Weight	(T)	8.8/10.8	10.8/15.8	13.2/16.8	18.6/20.5
Overall dimension (L×W×H)	(mm)	7200×1800×1800	7800×1900×2200	8100×2000×2300	8250×2440×2225
Loading capacity	(m ³ /h)	≈ 80	≈ 120	≈ 150	≈ 180
Ground clearance	(mm)	280 (Can be heightened)	300 (Can be heightened)	320 (Can be heightened)	350 (Can be heightened)
Nominal working pressure	(MPa)	25/35.5	25/35.5	28/35.5	28/35.5
Traveling Speed	(km/h)	2.15/3.8	2.15/3.8	2.15/3.8	2.15/3.8
Motor Power	(kw)	30/37	37/45	45/55	55/75
Max. materials by size (L×W×H)	(mm)	650×680×650	650×700×780	700×780×700	800×800×850
Applied tunnel gradient	($^\circ$)	≤ 30 (Adapt to the ground)	≤ 30 (Adapt to the ground)	≤ 30 (Adapt to the ground)	≤ 30 (Adapt to the ground)
Applicable section (W×H)	(m)	$\geq 2.3 \times 2.3$	$\geq 2.4 \times 2.5$	$\geq 3.0 \times 3.0$	$\geq 3.5 \times 3.5$
The inside track width	(mm)	1000 (Can be widened)	1215 (Can be widened)	1215 (Can be widened)	1360 (Can be widened)
Transport form of scraper		Double-Chain Double-Drive Single-Chain Single-Drive	Double-Chain Double-Drive Single-Chain Single-Drive	Double-Chain Double-Drive Single-Chain Single-Drive	Double-Chain Double-Drive Single-Chain Single-Drive
Gradient	($^\circ$)	≤ 32 (Adapt to the ground)	≤ 32 (Adapt to the ground)	≤ 32 (Adapt to the ground)	≤ 32 (Adapt to the ground)



Crawler Scraper Type Mucking Loader with a Hydraulic Breaker

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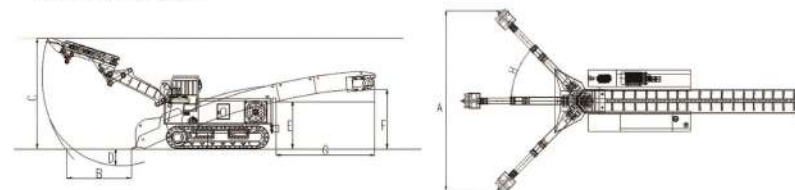


Functions and features:

It is a Crawler Scraper Type Mucking Loader with a Hydraulic Breaker. Equipped with a 100mm hydraulic breaker, it can crush high-hardness rocks and also handle mucking and discharging, realizing multi-purpose in one machine. It is mainly used for tunneling in mine coal roadways, semi-coal roadways, and soil roadways, and can also be used for tunneling in water-diversion tunnels and railway tunnels. It can greatly improve the mechanization level and advancement speed of mine development, making construction operations safer and faster.

- Suitable for roadway operations with a cross-section (width×height) larger than 3.6×3.8 m and a slope $\leq 20^\circ$ in narrow and large-slope roadways.
- It has large impact force and strong crushing capacity, and adopts a roadheader slewing ring, which is sturdy and durable.
- It adopts sealed sliding crawler, and the tensioning crawler is convenient to load and adjust, with a long service life.
- The bucket teeth of the excavator are sturdy, durable and have good interchangeability; The tail of the conveyor can unload rocks onto transfer equipment such as dump trucks, mine cars, belt conveyors, and skips (the unloading height can be designed according to user needs).
- It adopts a hydraulic pilot control system and is combined with high-efficiency hydraulic valves to ensure optimal performance under harsh conditions.
- It adopts a medium-high pressure hydraulic system with complete system protection; The movements have accurate lifting and positioning, wide grabbing range, and fast material transportation speed. It has the characteristics of safety, environmental protection, high efficiency, and super energy saving, fully conforming to ergonomics.
- It adopts a roadheader-type slewing disc structure, which is stable and reliable during crushing operations.

Working Diagram



The scope of work

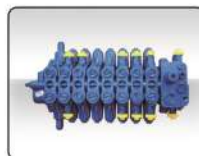
Type	Unit	ZWY-150/55L
Breaking Width	(mm)	≥ 5690
Excavating distance	(mm)	≤ 2600
Breaking Height	(mm)	≥ 5000
Excavating Depth	(mm)	≤ 1200
Minimum Loading Height	(mm)	≥ 1400 (Variable)
Uninstall Height	(mm)	1700-2000
Uninstall Distance	(mm)	3000 (Adjustable)
Max. rotation angle	(°)	± 45

Technical specifications

Type	Unit	ZWY-150/55L
Weight	(T)	15 (Standard Configuration)
Motor Power	(kw)	55
Overall dimension (L×W×H)	(mm)	9200×2000×2300
Traveling Speed	(km/h)	0.6
Min turning radius	(mm)	≥ 9000
Ground clearance	(mm)	260 (Can be heightened)
Broken hammer		AR100 High-frequency Breaker
Applicable section (W×H)	(m)	$\geq 3.6 \times 3.8$
Max. materials by size (L×W×H)	(mm)	600×680×600



Roadheader MA KA

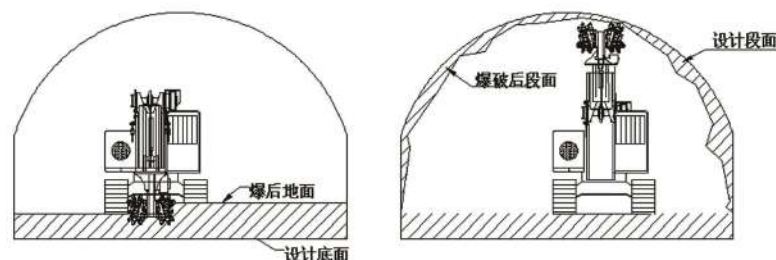


Functions and features:

After being equipped with a milling head, it can work in coal roadways or semi-coal roadways with a hardness $\leq 4f$ without blasting excavation. This machine is equipped with a quick connector. If the bucket and the milling and excavating head are interchanged during roadway excavation, and the bucket is used for loading and transporting after blasting, it realizes dual-purpose in one machine:

- The main hydraulic components adopt imported German spur gear gearboxes, driven by high-torque hydraulic motors, ensuring that the milling and excavating head can handle itself under harsher and high-load operating conditions. Equipped with an internal spray device and a high-pressure external spray device, it has a good dust suppression effect;
- Due to the heavy weight of the milling and excavating head, the entire machine adopts a super-strong structural design concept to ensure sufficient weight of the entire machine, stabilize the machine body when cutting rocks, and improve efficiency.
- Adopting the structure of a roadheader slewing table, the quality is stable and reliable.

Working Diagram



The scope of work

Type	Unit	STX-120	STX-150	STX-180	STX-260
Excavating Width	(mm)	4800	Standard Arm5300/Short Arm4800	Standard Arm5300/Short Arm4800	6300
Excavating Distance	(mm)	1850	2200	2200	3300
Excavating Height	(mm)	2800	Standard Arm3300/Short Arm2700	Standard Arm3300/Short Arm2700	5600
Excavating Depth	(mm)	500	Standard Arm700/Short Arm400	Standard Arm700/Short Arm400	1500
Uninstall Height	(mm)	1700 (Can be heightened)	1800 (Variable)	1800 (Variable)	1900 (Can be heightened)
The minimum height	(mm)	1350 (Variable)	1680 (Variable)	1680 (Variable)	1900 (Variable)
Uninstall Distance	(mm)	1700 (Can be lengthened or shortened)	2000 (Can be lengthened)	2000 (Can be lengthened)	2000 (Can be lengthened or shortened)
Max.rotation angle	(°)	±50	±43	±43	±50

Technical specifications

Type	Unit	STX-120	STX-150	STX-180	STX-260
Dig milling head width	(mm)	690	690	760	1000
Dig milling head diameter	(mm)	460	460	525	720
Dig head milling speed	(r/min)	40-100	40-100	80-110	60-85
Traffic	(L/min)	60-85	60-85	80-120	280-300
Pressure of work	(MPa)	25-31.5	25-31.5	25/31.5	31.5
Distorted	(N/M)	3500-5200	3500-5200	9600	23400
The weight of the	(kg)	≈600	≈600	≈650	≈1850
Max power	(kw)	45	45	55	180
Overall dimension(L×W×H)	(mm)	6800×1700×2150	6800×1700×2150	7500×1900×2250	11000×2400×2250
Gradient	(°)	≤20	≤20	≤20	≤20



Crawler Scraper Type Mucking Loader with a Hydraulic Breaker

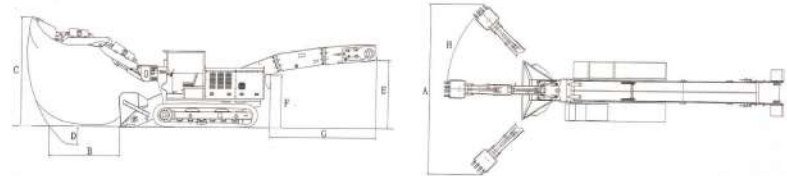
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Functions and features:

- This machine travels by crawler, with large propulsive force, wide grabbing range, and can load rocks over the entire section without leaving any dead corners or requiring manual auxiliary cleaning of the working face. It can quickly complete tasks such as risk removal and ditch digging;
- This machine adopts an imported hydraulic pilot control lever system, which is easy to operate, has strong control proportionality and high reliability;
- The power of this machine can be equipped with a diesel-electric integrated system and can be adapted to a variety of supporting accessories.

Working Diagram



The scope of work

Type	Unit	ZWY-120/55L	ZWY-150/55L
Excavating Width	(mm)	Standard Arm5300/Short Arm4800	Standard Arm6300/Short Arm5200
Excavating Distance	(mm)	≥2200	≥2850
Excavating Height	(mm)	Standard Arm3300/Short Arm2700	Standard Arm3700/Short Arm2700
Excavating Depth	(mm)	Standard Arm700/Short Arm400	Standard Arm720/Short Arm400
Uninstall Height	(mm)	1913 (Variable)	2000 (Variable)
Minimum Loading Height	(mm)	1680 (Variable)	1680 (Variable)
Uninstall Distance	(mm)	2000 (Can be lengthened)	2000 (Can be lengthened)
Max. rotation angle	(°)	±50	±60

Technical specifications

Type	Unit	ZWY-120/55L	ZWY-150/55L
Weight	(T)	14.8/16.8	15.8
Overall dimension(L×W×H)	(mm)	6500×2000×2300	7950×2140×2400
Loading Capacity	(m ³ /h)	≈120	≈150
Ground clearance	(mm)	270	360/480
Nominal working pressure	(MPa)	25/35	25/35
Traveling Speed	(km/h)	2.15/3.8	2.15/3.8
Motor Power	(kw)	45/55	55/79
Max. materials by size (L×W×H)	(mm)	800×780×700	830×800×750
Applied tunnel gradient	(°)	≤18 (Adapt to the ground)	≤18 (Adapt to the ground)
Applicable section(W×H)	(m)	≥3.0×3.0	≥3.5×3.5
The inside track width	(mm)	1100 (Can be widened)	1210 (Can be widened)
Transport form of scraper		Double-Chain Double-Drive Single-Chain Single-Drive	Double-Chain Double-Drive Single-Chain Single-Drive
Climbing ability	(°)	≤25 (Adapt to the ground)	≤25 (Adapt to the ground)



Diesel Tunnel Repair Machine for Mining **MA KA**



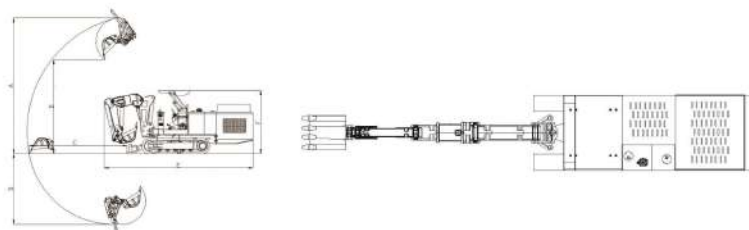
Functions and features:

On the basis of absorbing the advantages of similar domestic and foreign products, the company independently researches and develops and manufactures a multifunctional roadway repair equipment according to the actual needs of users.

The working arm of the diesel roadway repair machine can rotate 180° along the vehicle axis and swings ±40° left and right (swing amplitude ≥7000mm). It can also meet various operation requirements such as excavation, flipping, rock breaking, loading, lifting, and hydraulic shearing (optional) (shearing anchor rods), realizing functions such as excavating raw water ditches, bottom cutting, rock breaking, cleaning floating coal, cleaning the bottom of the belt conveyor, leveling roadways, and lifting small accessories. Equipped with a unique beam-erecting device, it can assist in loading and unloading U-shaped beams and other functions.

It is matched with various end-effectors such as buckets and rock breakers. At the same time, buckets, rock breakers, milling and excavating heads and other devices can be quickly replaced according to working conditions. It has stable performance, high reliability, and fast and reliable working efficiency.

Working Diagram



Technical specifications

Type	Unit	WPZC-105/700L	WPZC-190/900L
Power of explosion-proof diesel engine	kW	105	190
Rated Speed	r/min	2200	2200
Hydraulic System	Rated pressure of hydraulic system	MPa	21.5
	Maximum flow of hydraulic system	L/min	165
	Maximum temperature rise of hydraulic oil	K	50
	Maximum temperature of hydraulic oil	°C	70
Travel mechanism	Travel drive mode	/	Integrated hydraulic motor reducer drive
	Travel type	/	Traveling by crawler
	Ground pressure	MPa	≤0.1
	Travel speed	m/min	35
	Ground clearance	mm	≥250
	Climbing ability	°	≥19° (Applicable slope range: 19°~41°)
Bucket operation	Traction force	kN	≥40
	Bucket capacity	m³	0.3±0.03
	Maximum digging width	mm	≥5600
	Maximum digging distance	mm	≥3400
	Maximum digging height	mm	≥4750
Hydraulic breaker	Maximum digging depth	mm	≥2450
	Rated work pressure	MPa	14
	Working flow	L/min	70
	Impact frequency	Hz	13.5
	Impact energy	J	600
	Suitable specifications of drill rod	mm	68
	Noise	dB(A)	≤120
	Breaking width	mm	≥5900
	Breaking height	mm	≥5050
Overall dimensions (L*W*H)	Breaking depth	mm	≥2750
	Minimum turning radius	mm	≤3000
Weight ±5%	mm	(5320±100) × (1400±50) × (2250±100)	(6400±100) × (1600±50) × (2350±50)
	kg	6500±300	9000±450



Tunnel Repair Machine for Mining **MA KA**



Functions and features:

Tunnel Repair Machine for Mining can perform various operations such as excavation, side excavation, flipping, rock breaking, loading, and lifting, realizing multiple functions including excavating raw water ditches, bottom cutting, rock breaking, cleaning the bottom of the belt conveyor, leveling roadways, and hoisting small accessories. The equipment can be equipped with a rock breaker, anchor drilling machine, and anchor cutter, enabling rock breaking, drilling anchor holes, cutting anchors (cables), and assembling a unique beam - erecting device to assist in loading and unloading U - shaped beams. One machine can complete the entire roadway repair operation.

Working Diagram



Technical specifications

Type	Unit	WPZ-37/600L	WPZ-55/900L
Power	kW	37	55
Weight	kg	6850	7850
Overall dimensions (L*W*H)	mm	4800x1200x1785 (1260No canopy)	6500x1400x2100 (1550-2155Raised canopy)
Hydraulic system	Rated pressure of hydraulic system	Mpa	21.5/31.5
	Maximum flow of hydraulic system	L/min	110
	Maximum temperature of hydraulic oil	°C	75
Travel mechanism	Drive mode	/	Integrated hydraulic motor reducer drive
	Width of crawler	mm	300
	Travel type	/	Crawler
	Ground pressure	Mpa	≤0.1
	Travel speed	m/min	26
	Ground clearance	mm	260
	Climbing ability	°	14
Bucket loading	Structure type of working mechanism		Three-section boom
	Bucket capacity	M³	0.21
	Maximum bucket digging force	kN	37
	Digging width	mm	≥5250
	Digging distance	mm	≥4425
	Digging height	mm	≥4400
	Unloading height	mm	≥2400
Hydraulic breaker	Digging depth	mm	≥1215
	Rated working pressure	Mpa	13
	Maximum working flow	L/min	60
	Impact frequency	Hz	7.5-16
	Impact energy	J	600
	Suitable specifications of drill rod	mm	68
	Noise	dB (A)	≤120
Dozer blade	Blade width*height	MM	1200x400
	Maximum digging depth	MM	110
Turning radius of machine	MM	≤2500	≤2600
Maximum non-detachable component dimensions (L X W X H)	MM	2600x1200x1160	3200x1400x1200



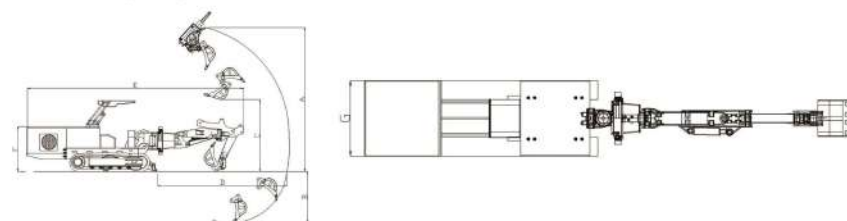
Tunnel Repair Machine for Coal Mine **MA KA**



Functions and features:

Tunnel Repair Machine for Coal Mine can perform various operations such as excavation, trenching, flipping, rock breaking, loading, and lifting, realizing multiple functions including excavating raw water ditches, bottom cutting, rock breaking, cleaning the bottom of the belt conveyor, leveling roadways, and hoisting small accessories. The equipment can be equipped with a rock breaker, anchor drilling machine, and anchor cutter, enabling rock breaking, drilling anchor holes, cutting anchors (cables), and assembling a unique beam - erecting device to assist in loading and unloading U - shaped beams. One machine can complete the entire roadway repair operation.

Working Diagram



Technical specifications

Type	Unit	WPZ-37/600L
Installed Power	(kW)	37
Overall Weight	(kg)	6500
Overall dimensions in transport condition (L×W×H)	(mm)	6500×1200×2150
Hydraulic system	Rated Pressure	(Mpa) 21.5/31.5
	Maximum Flow	(L/min) 110
	Maximum temperature of hydraulic oil	(°C) 75
Travel mechanism	Travel drive mode	Integrated hydraulic motor reducer drive
	Track shoe width	(mm) 300
	Travel Mode	Crawler
	Ground contact pressure	(Mpa) ≤0.1
	Traveling Speed	(m/min) 26
	Ground Clearance	(mm) 200
Bucket loading	Gradient	(°) 14
	Structure form of working machine	Three-section boom
	Bucket capacity	(M³) 0.13
	Maximum bucket digging force	(kN) 37
	Excavating Width	(mm) ≥6400
	Coverage	(mm) ≥3850
	Excavating Height	(mm) ≥4300
	Uninstall Height	(mm) ≥2100
Breaker hammer	Excavating Depth	(mm) ≥1500
	Nominal working pressure	(MPa) 11-14
	Maximum working flow	(L/min) 70
	Impact frequency	(rpm) 500-900
Dozer blade	Impact energy	(J) 600
	Compatible tool specification	(mm) 68
	Noise	(dB(A)) ≤120
	Blade (W×H)	(mm) 1200×255
	Approach angle	(°) 12
	Maximum pushing and digging depth	(mm) 200
Minimum turning radius of main machine		(mm) ≤3100
Maximum non-dismountable part dimensions(L×W×H)		(mm) 3800×1200×1300



Digging Type Tunnel Repair Machine MA KA

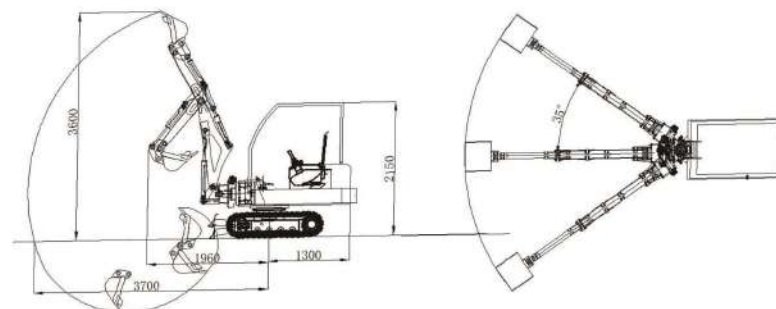


Functions and features:

This machine is used for rock loading, bottom cleaning, and excavation of frozen soil layers in the tunneling of coal mines, metal mines, non-metal mines, vertical shafts, inclined shafts, and horizontal tunnels. This machine has the following characteristics:

- Compared with traditional manual bottom cleaning, using this unit greatly saves labor costs while improving work efficiency and improving the working environment. The operator works under the protection of the cab, which is conducive to safe production.
- Compared with traditional diesel-powered small excavators, due to the adoption of an electro-hydraulic system, it has the characteristics of energy saving, low noise, no exhaust gas pollution, and high efficiency, and is more suitable for underground use.
- The machine has a compact structure, small overall dimensions, and small split components, which is convenient for vertical descent into the well.
- It adopts a minimum slewing structure. When the machine body slews, its tail will not exceed the width of the vehicle. Therefore, it is more suitable for narrow-space operations underground.

Working Diagram



Technical specifications

Type	Unit	WPZ-18.5/350L
Weight	(T)	2.6
Overall dimension (L×W×H)	(mm)	3300×950×2150 (1500) ±50 (Can be widened)
Bucket Capacity	(m ³)	0.12 ±0.015
Max Excavating Height	(mm)	≥3600
Max Excavating Depth	(mm)	≥1200
Ground clearance	(mm)	≥200
Max Discharge Height	(mm)	≥1800
Max vertical digging depth	(mm)	≥1200
Traveling Speed	(km/h)	0.89
Nominal working pressure	(MPa)	18/20
rotation angle	(°)	360
Motor Power	(kw)	18.5
Maximum excavation radius	(mm)	≥3500
Maximum digging force (bucket)	(kN)	≥13
Climbing ability	(°)	≤18
Ground pressure	(MPa)	≤0.08
Minimum turning radius of track	(m)	≤1.7
Broken hammer		45



Crawler Type Rock Breaker Machine for Tunnel MA KA

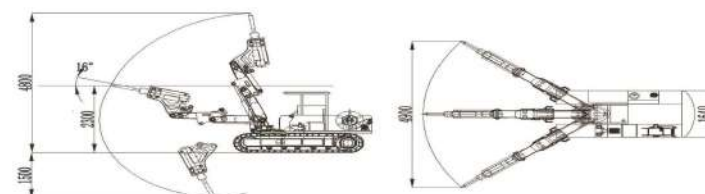


Functions and Features:

The STP-100 Rock breaker Machine is a multifunctional roadway tunneling equipment independently developed and manufactured by the company based on absorbing the advantages of similar domestic and foreign products and according to users' actual needs.

- The hydraulic system adopts a load-sensing variable system. The machine has a compact structure, and the main actions are controlled by proportional pilot valves, making the operation easy and simple, with stable operation and no impact. Using this machine for tunneling and bottom cutting in underground roadways can eliminate blasting operations, greatly reduce the labor intensity of workers, save blasting operation costs, save a large amount of labor, and ensure safety and reliability. In addition, the crusher is simple to operate, easy to learn, and the operation is convenient and comfortable. It is equipped with standard operating levers, ensuring stable operation. The backrest chair is close to the human body shape, firm and durable, which can effectively relieve the driver's operation fatigue. It is easy to maintain. The protective covers of the oil pump and control valve can be fully opened, facilitating inspection and maintenance. It is controlled by a full hydraulic system with single power. The hydraulic system is advanced, the pipeline layout is reasonable, and the safety and stability are good.

Working Diagram



The scope of work

Type	Unit	STP-100	STP-145
Breaking Width	(mm)	≥4200	≥4800
Breaking distance	(mm)	≥3200	≥4200
Breaking Height	(mm)	≥4800	≥5500
Breaking Depth	(mm)	≥1300	≥1500
Max. rotation angle	(°)	±50	±50

Technical specifications

Type	Unit	STP-100	STP-145
Weight	(T)	10	16
Overall dimension (L×W×H)	(mm)	4100×1600×1500	5100×1750×1600
Breaking Capacity	(m³/h)	0-10	0-20
Min turning radius	(mm)	5000	5500
Climbing ability	(°)	≤18 (Hard ground)	≤18 (Hard ground)
Traveling Speed	(m/min)	Height3.1/Low2	Height3.1/Low2
Ground clearance	(mm)	200	300
Nominal working pressure	(MPa)	25	25
Motor Power	(kw)	45/55	75/90
Broken hammer		85/100	125/140
Applicable section (W×H)	(m)	≥3×3	≥4.5×4.5



Small Size Hydraulic Excavator for Mining **MA KA**

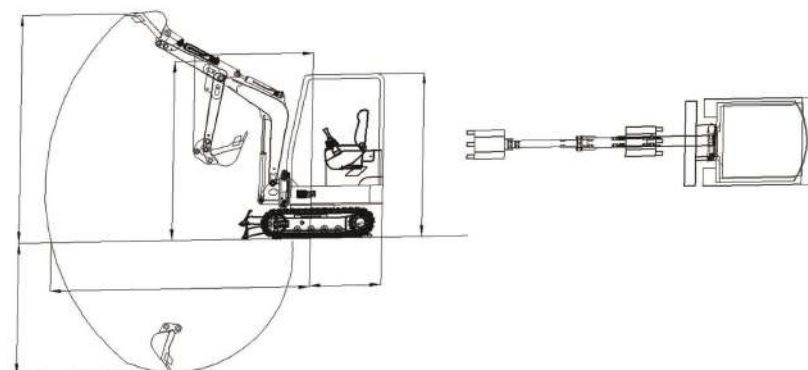


Functions and Features:

This machine is suitable for rock loading, bottom cleaning, and excavation of frozen soil layers in the tunneling of coal mines, metal mines, non-metal mines, vertical shafts, inclined shafts, and horizontal tunnels. This machine has the following characteristics:

- Compared with traditional manual bottom cleaning, using this machine greatly saves labor costs while improving work efficiency and the working environment. The operator works under the protection of the cab, which is conducive to safe production.
- Compared with traditional diesel-powered small excavators, due to the adoption of an electro-hydraulic system, it has the characteristics of energy saving, low noise, no exhaust gas pollution, and high efficiency, and is more suitable for underground use.
- The machine has a compact structure, small overall dimensions, and small split components, which is convenient for vertical descent into the well.
- It adopts a minimum slewing structure. When the machine body slews, its tail will not exceed the width of the vehicle. Therefore, it is more suitable for narrow-space operations underground.

Working Diagram



Technical specifications

Type	Unit	MWD2/0.12L	MWD3.5/0.2L
Weight	(T)	2±0.2	3.5±0.2
Overall dimension(L×W×H)	(mm)	3550X1100X2150	4440X1500X1660
Bucket Capacity	(m ³)	0.12±0.015	0.18±0.015
Max Excavating Height	(mm)	≥3100	≥3530
Max Excavating Depth	(mm)	≥1800	≥2190
Ground clearance	(mm)	≥200	≥200
Max Discharge Height	(mm)	≥2100	≥2580
Max vertical digging depth	(mm)	≥1200	≥1800
Traveling Speed	(km/h)	0.89	0.89
Nominal working pressure	(MPa)	18/20	18/20
Rotation angle	(°)	360	360
Motor Power	(kw)	18.5	30
Maximum excavation radius	(mm)	≥3500	≥5220
Maximum digging force (bucket)	(kN)	≥13	≥23
Climbing ability	(°)	≤18	≤18
Ground pressure	(MPa)	≤0.08	≤0.08
Minimum turning radius of track	(m)	≤1.7	≤2.1



Hydraulic Excavator for Mining **MA KA**



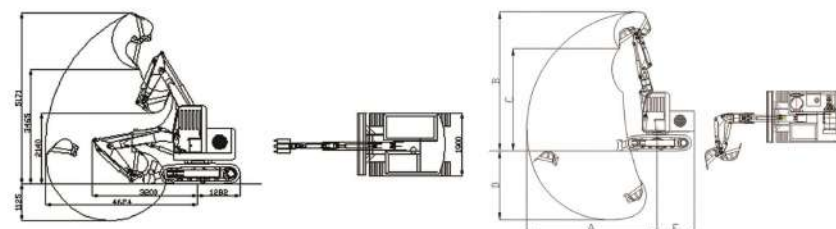
Functions and Features:

This machine is suitable for rock loading, bottom cleaning, and excavation of frozen soil layers in the tunneling of coal mines, metal mines, non-metal mines, vertical shafts, inclined shafts, and horizontal tunnels. This machine has the following characteristics:

- Compared with traditional manual bottom cleaning, using this machine greatly saves labor costs while improving work efficiency and the working environment. The operator works under the protection of the cab, which is conducive to safe production.
- Compared with traditional diesel-powered small excavators, due to the adoption of an electro-hydraulic system, it has the characteristics of energy saving, low noise, no exhaust gas pollution, and high efficiency, and is more suitable for underground use.
- The machine has a compact structure, small overall dimensions, and small split components, which is convenient for vertical descent into the well.
- It adopts a minimum slewing structure. When the machine body slews, its tail will not exceed the width of the vehicle. Therefore, it is more suitable for narrow-space operations underground.

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Working Diagram



Technical specifications

Type	Unit	MWD6/0.3L	MWC7/0.35L	MWD8/0.35L
Structure type of working mechanism	/	Three-section boom	Three-section boom	Three-section boom
Rotation angle of auxiliary arm	°	±90°	±90°	±90°
Power	kw	45	Engine	55
Hydraulic system	Rated pressure	MPa	23.5	23.5
	Main pump flow	L/min	130	140
	Type of hydraulic pump	/	Variable displacement pump	Variable displacement pump
	Drive mode	/	Integrated hydraulic motor reducer drive	Integrated hydraulic motor reducer drive
Travel mechanism	Travel type	/	Crawler	Crawler
	Ground pressure	MPa	≤0.1	≤0.1
	Travel speed	km/h	0-3.5	0-3.5
	Ground clearance	mm	300	300
	Climbing ability	°	15	15
	Rotation angle	°	360	360
	Rotation speed	r/min	0-10	0-10
	Crawler type	/	Steel track	Steel track
	Length of crawler	mm	2450	2450
	Width of crawler	mm	400	400
Bucket loading	Bucket capacity	m³	0.3	0.35
	Digging radius	mm	4950	4950
	Maximum boom lifting height	mm	5250	5200
	Maximum dumping height	mm	1700	1700
	Maximum digging depth	mm	2450	2450
	Tail rotation radius	mm	1400	1400
	Bucket digging force	KN	35	40
Hydraulic breaker	Rated working pressure	MPa	9-12	11-14
	Working flow	L/min	25-50	40-70
	Impact frequency	Hz	7.5-16.5	600-1100
	Impact energy	J	600	600
	Suitable drill rod specifications	mm	53	68
	Noise	dB(A)	≤120	≤120
Dozer blade width*height		mm	1300×320	1800×375
Overall dimensions (L*W*H)		mm	3500×1600×2350	3800×1800×2350
Overall weight		t	6.2	7

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Mine Side-Dump Rock Loader



Functions and Features:

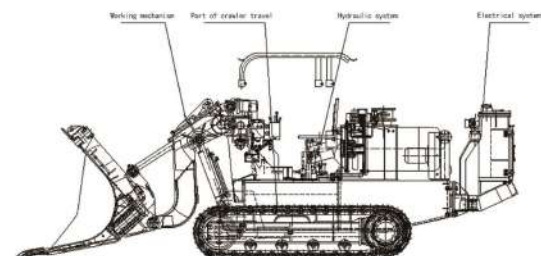
The mine side-dump rock loader is a front-loading, side-dumping loader that uses an electric motor as power to drive dual pumps. It drives the crawler to travel through a hydraulic motor and realizes the lifting and flipping of the bucket through hydraulic cylinders. Its structure consists of five major parts: the working mechanism, hydraulic device, crawler traveling part, frame, and electrical system.

This equipment is the latest mine loading machinery developed by the company in combination with market demands. It is widely used for loading loose gravel and ore after blasting in coal mines, metal mines, tunnels and other projects with power supply, and is a high-efficiency loading machinery.

This machine has the characteristics of large insertion force, good mobility, full-section operation, good safety, and multi-purpose use.

In addition to the core loading function, it can also serve as a working platform during support, completing short-distance transportation, bottom cleaning, side cleaning, etc. in the working face, thereby significantly improving the tunneling speed and creating good comprehensive economic benefits.

Working Diagram



Technical specifications

Type	Unit	ZCY45R
Bucket Capacity	(m ³)	0.45
Bucket width	(mm)	1200
Dumping height	(mm)	≥1300
Maximum undercutting depth	(mm)	≥500
Climbing ability	(°)	≥10
Traction force	(kN)	≥20
Minimum ground clearance	(mm)	≥220
Maximum travel speed	(m/s)	≥0.5
Working mechanism pressure	(MPa)	20±0.5
Travel motor pressure	(MPa)	21.5±0.5
Noise (sound pressure level)	(dB (A))	< 90
Track ground pressure	(MPa)	0.09
Main motor power	(kW)	30
Voltage	(V)	660/1140
Overall dimensions (L×W×H)	(mm)	4450×1200×2100 (Remove the cab canopy1250)
Machine weight (including oil)	(kg)	5100



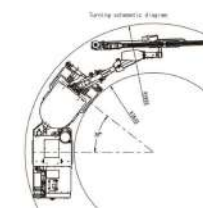
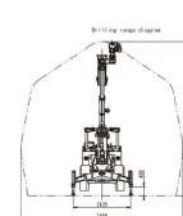
Mine Hydraulic Rock Drilling Jumbo KA



Functions and Features:

The mine hydraulic rock drilling jumbo is an upgraded model based on the standard type with an extended-arm design. The whole machine adopts a unique structure of a compact design, combined with a retractable long drill arm, which can not only adapt to the operation in narrow rock tunnels of 2.6-3m but also meet the needs of 3-6m rib-expanding mining. This model is equipped with a 22 KW high-performance rock drill from Sweden. Driven by full hydraulics, it can achieve a rock drilling speed of 0.8-2m/min and adapt to various surrounding rock conditions. It adopts diesel engine four-wheel drive and articulated chassis design, and cooperates with the hydraulic parallel drill arm system. It can still maintain flexible mobility under a small turning radius, which is especially suitable for complex roadway environments.

Working Diagram



Vehicle parameters

Type	Unit	
Overall dimensions (L*W*H)	MM	12162X2015X2270-2870
Overall weight	T	~14
Travel speed	KM/H	0-15
Climbing ability	°	14
Engine power	KW	66
Transmission mode	/	Hydro-mechanical transmission
Pump station power	KW	55
Turning radius	MM	3640 (Inner) / 5900 (Outer)

Propulsion beam parameters

Type	Unit	TF-14L	TF-12L
Total length	MM	6158	5315
Drill pipe length	MM	5915	3700
Drill pipe depth	MM	3960	3355
Thrust	KN	15	15

Rock drill parameters

Type	Unit	A180D/L	A22D	S20D/L
Shank	/	T38	R32/R38/T38	R32/R38/T38/T45
Hole diameter	MM	33-76	33-76	43-65
Maximum impact power	KW	18	22	20
Impact frequency	Hz	60	73	67
Maximum impact pressure	Bar	230	250	220
Rotation system	/	Independent rotation	Independent rotation	Independent rotation
Speed range	Rpm	370/340/275/215	460/340/275/210	0-250/0-250/0-200
Maximum rotation torque	N.m	440/640/820/1000	440/640/820/1000	400/625/780
Corresponding flow rate of lubricating gas	L/S	5	5	4-6



Scaling Jumbo **KA**



Functions and Features:

The XMPYT-66/350 scaling jumbo is suitable for scaling operations in various metal mines, used in tunneling faces and mining rooms to improve the safety factor of risk elimination work. Its mobile design is not restricted by the site, and it has the characteristics of high safety factor, fast efficiency, and simple operation and maintenance. It improves production efficiency and reduces total operating costs. The equipment has a compact size and a small turning radius, suitable for operation in narrow roadways.

The engine adopts Yuchai's latest new-generation high-power and low-pollution non-road diesel engine (non-road Stage IV), with strong power and superior performance.

The muffler uses a DOC catalytic converter and a GPF particulate trap, reducing air pollution and improving the underground working environment.

The entire vehicle frame and plates are made of Q355B low-alloy steel as the main material for the frame. The lower yield limit of this material is about 355 MPa, which can withstand various loads from inside and outside the vehicle. It not only ensures strength but also undergoes seven processes such as normalizing, aging, sandblasting, and anti-corrosion for welding forming, thus meeting the structural, dynamic, and motion requirements of the frame and working device.

The drive motor uses a heavy-duty fail-safe hydraulic motor. Compared with models from other manufacturers, it is sturdy and durable, has high impact resistance, and reduces the failure rate. The hydraulic motor adopts a normally closed wet brake, with braking by springs and release by hydraulics, which enhances reliability and safety doubly and is suitable for complex underground road conditions and crushing working conditions.

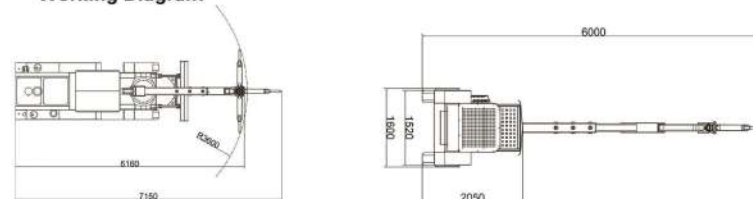
The pin shaft is made of 40Cr alloy steel and undergoes 5 processes including rough turning, quenching and tempering, finish turning, quenching, and precision grinding to ensure the stability of the pin shaft during operation.

The hydraulic oil tank adopts pickling phosphating and high-pressure treatment technology. This vehicle uses high-cleanliness white oil as the hydraulic oil, thus ensuring the cleanliness of the hydraulic system and prolonging the service life of pumps and motors.

Hydraulic hoses, joints, and pipe threads all use internationally renowned brands, such as manufacturers like Qingdao Xiangliu and Manuli, greatly extending their service life.

High-quality wire harness: High-temperature wires are used, which are wear-resistant, waterproof, low-temperature resistant, high-temperature resistant, non-flammable, and non-aging.

Working Diagram



Technical specifications

	Type	Unit	XMPYT-66/350
Complete Machine	Overall dimensions	MM	5900x1520x2050
	Maximum reach height	MM	6000
	Wheelbase	MM	1700
	Track width	MM	1270
	Minimum ground clearance	MM	≥240
	Weight	KG	6500
	Travel speed	km/h	High speed: 7.7/Reverse gear: 3.8
Complete Machine	Alarm bell	/	Horn
	Control system	/	Hydraulic pilot handle control
	Steering system	/	Four-wheel drive skid
	Fire protection device	/	Dry powder fire extinguisher
Hydraulic breaker	Cab	/	Tiltable and reclining
	Weight of breaker	KG	75
	Impact energy	J	≤350
	Diameter of drill rod	MM	53
	Impact frequency	Hz	10-16
	Rated pressure	MPa	10-14
	Working flow	L/min	20-30
	Swing up and down	°	±90 °
Brake type of tire chassis	Swing left and right	°	±90 °
	Steering mode	/	Four-wheel drive skid
	Turning radius	MM	3600±100
	Climbing ability	°	19°
	Stabilization method in working state	/	Front shovel grounding stabilization
	Service brake	/	Full hydraulic brake
	Parking brake	/	Fully enclosed wet brake
Diesel engine	Hydraulic oil tank	L	130L
	Drive mode	/	Diesel engine drive
	Model	/	YC3890-T480
	Rated net power	kw	66
	Rotational speed	rpm	2200
	Exhaust emission stage	/	EURO IV
	Diesel tank capacity	L	120



Roof Bolting Jumbo



Functions and Features:

It is mainly suitable for tunneling construction work in various underground roadways and culverts such as metal mines and hydro-power projects. It is also suitable for drilling blast holes and anchor rod holes in narrow ore veins, tailings mining, and small roadways. The equipment adopts a hydraulic rock drilling system, which is advanced, with fast rock drilling speed and high work efficiency; the whole machine has a compact structure, is flexible and mobile, and is convenient for operation in narrow spaces, with a maximum operation coverage area of 35m².

Rock Drill

Imported rock drill, which has the characteristics of super strong anti-deflection capability, high drilling speed and low drill tool loss, effectively improving the adaptability of drilling side holes in tunnels.

Propeller

Light aluminum alloy beams, with high efficiency in bending resistance, torsion resistance and fatigue resistance, and long service life. The unique single-layer arranged hose reels, combined with a reliable pipe clamp structure, has good hose tension performance, effectively improving the hose service life and reducing maintenance intensity.

Drill Arm

The all-round parallel holding drill arm can be positioned quickly and accurately; the square structure form has high strength and good shock absorption performance.

Drilling System

It has the functions of preventing bit sticking, preventing empty drilling and automatic retraction, which can effectively improve the drilling efficiency and reduce the drill tool loss.

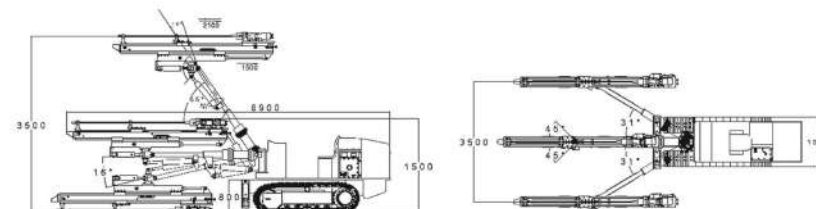
Hydraulic System

The auxiliary actions of legs and ceiling lamps adopt electric control design, with simplified pipelines and easy maintenance.

Electrical System

Electrical components of internationally renowned brands such as Schneider and Siemens are selected, with high reliability and long service life; it is equipped with protection and alarm functions such as ground fault protection, phase sequence protection, motor overload protection and engine fault alarm.

Working Diagram



Technical specifications

Type	Unit	CYTM41/2
Adapt to lanes and roads	(m)	3.5x3.5~6x6
Transport status size(L×W×H)	(mm)	10400x1850x2270
Minimum ground clearance	(mm)	≥300
Turning diameter	(mm)	5700
Weight	(T)	16.5
Diameter	(mm)	φ32~φ43
Drilling rod length	(mm)	2475/2600/2785/3090
Anchor length	(mm)	1800/2200/2400/2500
Rock drill		HC25 (Anchor rod)
Impact	(kw)	10
Impact	(J)	196
Shock frequency	(Hz)	53
Work pressure	(Mpa)	16
Work flow	(L/min)	65
Pusher flip angle	(°)	±180
Promotioner push-up angle	(°)	Pitch down25/Pitch up80
Promote the compensation itinerary	(mm)	480
Drill arm push-up angle	(°)	Pitch down30/Pitch up50
Drill arms swing angle	(°)	±30
rated power	(kw)	55
Rated voltage	(V)	380
Maximum curl length	(m)	70
Gradeability	(°)	14



Tunnel Repair Machine for Coal Mine **KA**



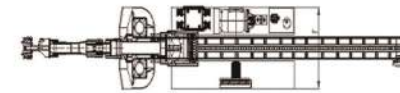
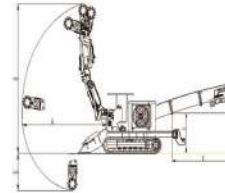
Functions and Features:

The WPZ-75/50/600L repairing machine is a roadway repairing machine integrating functions such as cutting, loading and transporting, traveling, and crushing. Its working arm can be bent, and it is mainly used for repairing underground coal or semi-coal rock roadways with any shape of cross-section. This machine adopts the transmission mode of a motor driving a hydraulic pump, with simple, reliable and stable operation. The machine is equipped with external spray devices, which can effectively suppress the dust generated by cutting and improve the safety of the working environment. This machine can achieve multi-purpose use by replacing with a hydraulic breaker or a special bucket.

Quick change of attachments: The quick-change connection structure is adopted to realize the rapid replacement of different working mechanisms.

Wide operation range: The equipment has various actions such as excavation, side excavation, turning, rock breaking, loading, and lifting, and realizes multiple functions such as rough ditch digging, bottom cutting, rock breaking, cleaning floating coal, cleaning the bottom of the belt conveyor, leveling the roadway, and hoisting small accessories. The equipment can be equipped with a breaker, an anchor drilling machine, and an anchor cutter, which can realize rock breaking, drilling anchor holes, cutting and erection anchors (cables), and a unique beam-erecting device, which can assist in loading and unloading U-shaped beams. One machine can complete the entire roadway repair operation.

Working Diagram



Technical specifications

Type	Unit	WPZ-75/50/600L
Structure type of work mechanism	/	Three-section boom
Electric motor power	KW	75
Rated pressure	Mpa	23.5
Main pump flow	L/min	130
Type of hydraulic pump	/	Variable displacement pump
Travel drive mode	/	Integrated hydraulic motor reducer drive
Travel type	/	Crawler
Ground pressure	Mpa	≤0.1
Travel speed	km/h	0-3.5
Ground clearance	mm	≥190
Climbing ability	°	±16° (Hard ground)
Rotation angle	°	±40°
Rotation speed	r/min	0-10
Type of crawler	/	Steel crawler
Length of crawler	mm	2855
Width of crawler	mm	400
Bucket capacity	m³	0.3
Maximum digging height	mm	5000
Maximum digging height	mm	1400
Maximum digging depth	mm	1000
Maximum digging distance	mm	2130
Maximum digging width	mm	4810
Rated working pressure	MPa	9-12
Working flow	L/min	25-50
Impact frequency	Hz	7.5-16.5
Impact energy	J	600
Suitable drill rod specifications	mm	53/68
Noise	dB(A)	≤120
Maximum breaking width	mm	5020
Maximum breaking height	mm	4600
Bottom cutting depth	mm	1350
Maximum cutting width	mm	5160
Maximum cutting height	mm	5330
Bottom cutting depth	mm	1150
Unloading height	mm	(1400Standard)
Unloading distance	mm	(3000Standard)
Scraper chain speed	m/min	40
Type of scraper chain conveying mechanism	m/min	Single-chain, Single-drive
Maximum material passing size(WH)	mm	400×280
Turning radius of machine	mm	≤5300
Overall dimensions(L*W*H)	mm	10000×1600×2500
Weight of machine	kg	10100



Coal Unloader



Functions and Features:

The power system of the belt - type coal unloader adopts three - phase motor drive for operation, which is flexible. Driven by an electric motor, it has low maintenance cost, no pollution and low failure rate. The operation cost of the electric motor is one - third of that of the engine.

Coal does not fall to the ground, and the rear part can directly load coal, reducing secondary dust pollution, and being energy - saving and environment - friendly.

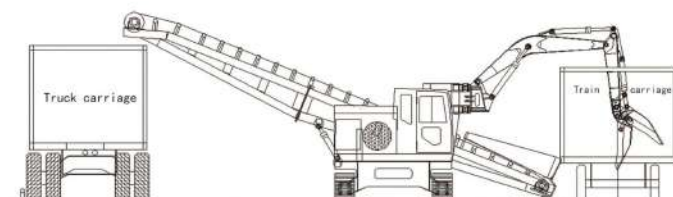
The feeding port mechanism is compact and closed, reducing coal falling onto the track and ensuring the normal passage of trains. It keeps the site clean and reduces the later cleaning work of workers.

It has a wide unloading range, can unload the carriage more cleanly, and reduce the labor intensity of workers' cleaning.

It has three - dimensional air supply, fresh air circulation, fluorine - free environmental protection, and a large - capacity automatic heating and cooling air - conditioning system.

It has high unloading efficiency. With dual-pump confluence and multi - action compounding, the operation efficiency is improved.

Working Diagram



Technical specifications

Type	Unit	STX-220
Overall dimension (L×W×H)	(mm)	10277×5530×3550
Weight	(T)	≈20
Work efficiency	(Lump coal T/min)	3—10
Bucket size	(mm)	1250×950×450
Electric motor	Main motor power	(kW) 55
	Rotational speed	(r/min) 1450
	Belt motor power	(kW) 22*2
Hydraulic system	Main pump	Kawasaki variable displacement piston pump
	Rated flow	(L/min) 220
	Nominal working pressure	(MPa) 30
	Main valve	Parker (USA)
	Hydraulic oil tank capacity	(L) 220
Performance parameters	Travel motor	Doosan (South Korea)
	Belt speed	(m/s) 2
	Belt width	(m) 1.2
	Belt angle	(°) 22
Fully enclosed cab		(mm) 940X1500X1650
Automatic cable reeling device		(m) 100
Electrical system		Shante Heavy Industry
Oil cylinder		Imported seal (Hengli)
Rubber hose		Italy/Qingdao Xiangliu



Bucket Wheel Stacker Reclaimer



Functions and Features:

It is mainly used in power generation, steel plants, port raw material plants, and operations of stacking and reclaiming coal or ores; it is one of the important equipment in the production systems of power plants, steel plants, and ports.

Efficiency: The bucket wheel stacker reclaimer has a strong loading capacity and can load a relatively large amount of materials at one time and transport them to the destination. It has a fast loading and unloading speed and can complete a large number of handling tasks in a short time, significantly improving production efficiency.

Wide Scope of Application: The bucket-wheel machine is not only suitable for large-scale logistics centers such as coal and ports but also for handling and stacking work in construction sites, metallurgy, chemical industry, and other industries, with very wide adaptability.

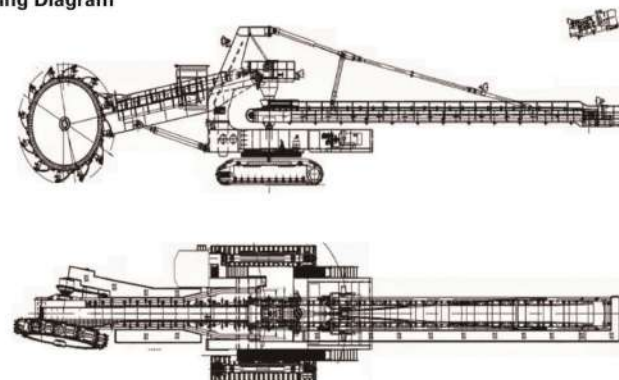
Strong Continuous Operation Capacity: The bucket-wheel machine adopts a continuous operation mode without shutdown, which has greater advantages compared with traditional loading and unloading machinery.

High Efficiency and Reliability: The bucket-wheel machine has efficient operation capacity and transportation system and can quickly complete a large amount of material loading, unloading, and stacking work. It adopts advanced control and detection systems, which can monitor the machine status in real-time and improve the reliability and safety of equipment operation.

Convenient Maintenance: The bucket-wheel machine adopts a modular design, which is easy to maintain and replace, reducing operation and maintenance costs.

Simple Operation: The operation method of the bucket-wheel machine is simple. Only operation training is needed to be familiar with the functions of each operation interface and button, and to understand the working principle and working process of the equipment. This has low requirements for the skill level of users. As long as certain safety specifications are followed, it can operate stably and efficiently.

Working Diagram



Technical specifications

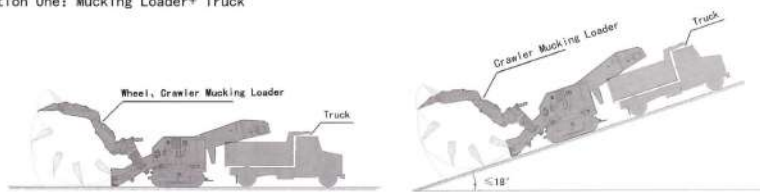
Type	Unit	STD-L-500	STD-L-1000	STD-L-1600	STD-L-2000
Overall dimensions (L×W×H)	(mm)	19500×3200×4640	21090×4600×5888	23000×4600×6800	25000×5000×7288
Bucket wheel arm length	(mm)	8000	8280	10280	10280
Length of discharge arm	(mm)	7300+3000	8000+3000	11000+4500	12000+4500
Rated output	(m ³ /h)	500	1000	1600	2000
Bucket wheel diameter	(mm)	2400	3600	4000	4600
Bucket wheel speed	(r/min)	0-8	0-8	0-7	0-6
Bucket volume	(m ³ /个)	0.15	0.3	0.36	0.4
Number of buckets	(个)	8	8	10	12
Material density	(t/m ³)	0.8-1.8	0.8-1.8	0.8-1.8	0.8-1.8
Length of reclaiming conveyor belt	(mm)	16800	17800	19500	24800
Width of reclaiming conveyor belt	(mm)	800	1200	1400	1400
Bucket wheel rotation angle	(°)	±180	±180	±180	±180
Width of discharge conveyor	(mm)	1000	1200	1400	1600
Length of discharge conveyor	(mm)	76000	29524	42524	48524
Rotation angle of discharge conveyor	(°)	±65	±65	±65	±65
Minimum stack height of discharge conveyor	(mm)	5500	6500	7000	7800
Track travel drive	(kw)	45/55	75/90	90/110	132
Bucket wheel driving drive	(kw)	75	90	132	160
Bucket wheel belt drive	(kw)	15×2	22×2	30×2	45×2
Discharge conveyor drive	(kw)	15×2	37×2	45×2	45×2



Complete tunneling program

As a good brainman and assistant of the customers.
Letting each investment of the users can obtain a rich repayment.

Option One: Mucking Loader+ Truck



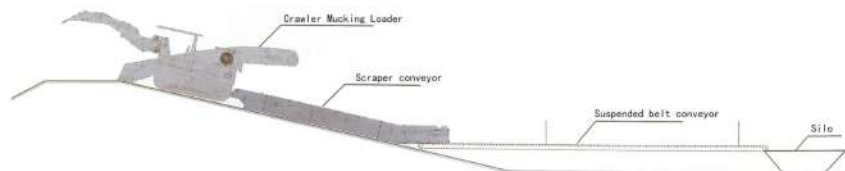
Option Two (Vertical shaft + horizontal drift) :

Crawler Mucking Loader—Truck—Silo—Multi-mining vehicle—Locomotive

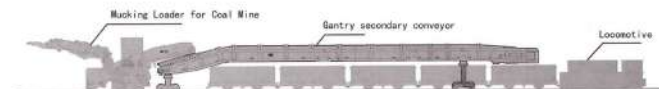


Option Three (Horizontal drift + inclined ramp) :

Crawler Mucking Loader—Scraper conveyor—Suspended belt conveyor—Silo



Option Four: Digging Mucking Loader for Coal Mine+Gantry secondary conveyor+Mine car(s)+Locomotive

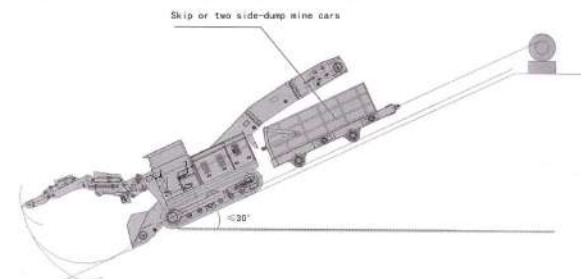


Option Five (Vertical shaft + horizontal drift) :

Tyre type, Rail wheel type, Crawler Mucking Loader—Multiple shuttle cars—Belt transfer conveyor—Multi-mining vehicle—Locomotive

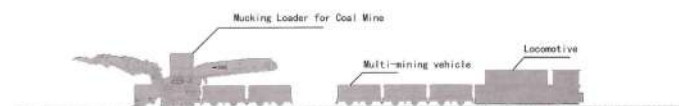


Option Six : Mucking Loader for Coal Mine (Special type for steep gradients)+Side-dump mine car (Skip)+Winch haulage



Option Seven (Vertical shaft + horizontal drift) :

Tyre type, Rail wheel type, Crawler Mucking Loader—Multi-mining vehicle—Locomotive



Option Eight (Horizontal drift) :

Tyre type, Rail wheel type, Crawler Mucking Loader—Single or multiple shuttle mine cars—Locomotive





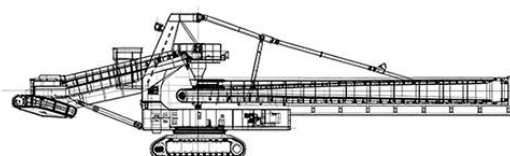
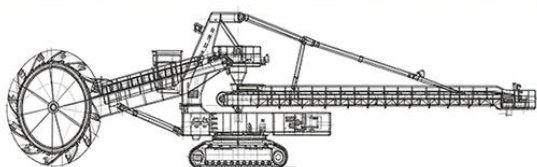
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New Bucket Wheel Stacker Reclaimer

JBL CNC GLOBAL LINK ☎ 082-302-8848 ✉ jblcncglobal@gmail.com 📍 273 General Hertzog Road Peacehaven Vereeniging



Project	Unit	STD L-500	STD L-1000	STD L-1600	STD L-2600
Overall dimensions (L × W × H)	mm	17100×3600×4680	21100×4000×5900	25000×5000×7280	30000×5900×8300
Bucket wheel diameter	mm	3000	3600	4500	5800
Bucket wheel arm length	mm	6980	8280	9280	11280
Bucket wheel volume	m ³ /pc	0.2	0.3	0.4	0.42
Number of buckets	pc	8	8	10	14
Rated output	m ³ /h	500	1000	1600	2600
Material density	t/m ³	(0.8-1.8)×10 ³	(0.8-1.8)×10 ³	(0.8-1.8)×10 ³	(0.8-1.8)×10 ³
Length of discharge arm	mm	7000+3000	8900+3400	9000+4000	9000+5000
Length of discharge conveyor	mm	25000	33375	33375	36000
Maximum stack height of discharge conveyor	mm	5500	6500	7000	8000
Power	kw	200	295	420	509



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New Bucket Wheel Stacker Reclaimer



Application:

- The mobile-type bucket-wheel stacking-reclaiming conveyor in stockyards is one of the most important devices in the transporting system.

Functions and features:

- **High efficiency:** The bucket wheel machine has a strong loading capacity, which can load a large amount of materials at one time and transport them to the destination. Its loading and unloading speed is fast, can complete a large number of handling tasks in a short time, and significantly improve production efficiency.
- **Wide range of applications:** bucket wheel machine is not only suitable for large coal, ports and other logistics centers, but also suitable for construction sites, metallurgy, chemical industry and other industries handling and drying work. The adaptability is very wide.
- **Strong ability of continuous operation:** bucket wheel machine adopts continuous operation mode without shutdown, which has greater advantages compared with traditional loading and unloading machinery.
- **High efficiency and reliability:** Bucket wheel machine has efficient operation capacity and transportation system, which can quickly complete a large number of material handling and stacking work. The advanced control and detection system can monitor the state of the machine in real time and improve the reliability and safety of the equipment operation.
- **Convenient maintenance:** The bucket wheel machine adopts modular design, which is easy to maintain and replace, and reduces the cost of operation and maintenance.
- **Simple operation:** The operation method of the bucket wheel machine is simple. It is only necessary to carry out operation training, be familiar with the functions of each operation interface and button, and understand the working principle and workflow of the equipment. This does not require a high level of skill for the user. If the safety specifications are set, it will be able to operate

