

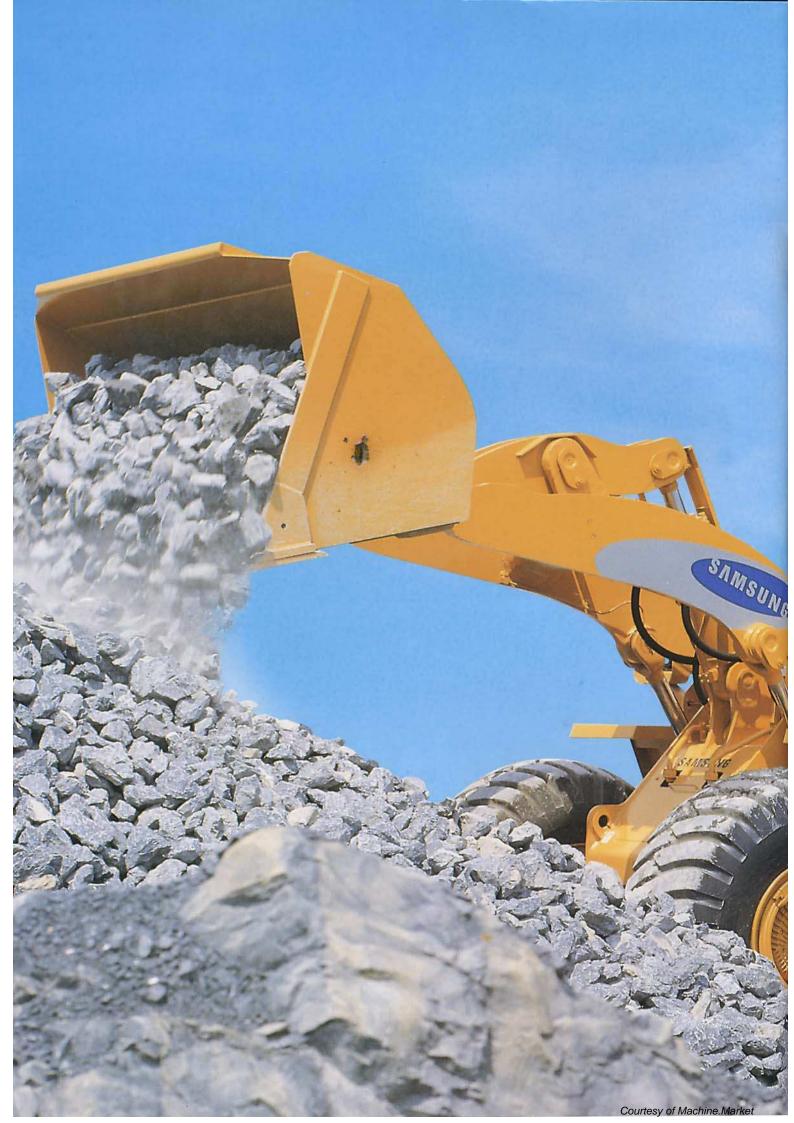
SL250.2

SAMSUNG WHEEL LOADER

Flywheel Horsepower; 191 kW 256 hp

Bucket Capacity; 3.7 m³ 4.8 cu.yd

Operating Weight; 20850 kg 45970 lb



Samsung's many years of experiences in building and designing construction equipment were used in developing our Series 2 Wheel Loader. The heavy duty Series 2 Wheel Loaders offer modern technology and quality components such as;

a powerful Cummins Engine and a 4×3 full power shift transmission to enhance the operational performance of these machines. We've added features such as a transmission kick-down switch, auto bucket leveler, auto boom lift kick-out and torque proportioning differentials.

In addition, the fully enclosed, dual circuit, wet disk brakes provide superior braking and long life to perform a wide variety of jobs using attachments other than buckets.

amsung Series 2 Wheel Loaders, Designed with both Performance and Versatility in Mind.

To ensure a high degree of operator comfort and a fatigue free working environment, the new ergonomically designed deluxe ROPS Cab features a KAB seat, tiltable steering wheel, pillarless front window, one touch control panel with integrated climate control.

We invite you to see for yourself the performance of the new Series 2 Wheel Loaders and to experience the Samsung difference.



Higher Performance and More Productivity

Powerful Cummins Engine

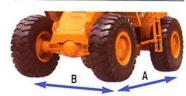
The Cummins engine is world renowned for it's power and reliability. It's excellent combustion

efficiency provides maximum power with low fuel consumption, even in cold weather. The world-wide Cummins dealer network assures that parts and service support is readily available.

Machine Stability

A long wheel base with a wide tread width provides exellent balance for maximum performance and safety.

Wheel Base (A)	Tread (B)
3400mm	2250mm
(11' 2")	(7' 5")



High Performance Z-Bar Linkage

Z-bar linkage provides excellent breakout force and loader speed for digging, loading and dumping applications.

The Powerful Breakout Force and Tractive Effort

Engine power and loader hydraulics are matched to provide maximum breakout force up to 20tons and the maximum tractive effort up to 21.5tons respectively for fast cycle times and maximum productivity.



The Outstandingly Endurable Axle

A full floating axle is easy to service and provides long life.



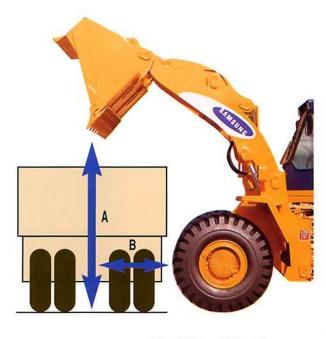
Steering Shock Dampening Device

Steering cylinder cushion dampens shocks when fully steered in one direction.

Excellent Loading Characteristics

A high dump clearance and long reach allows for fast, efficient truck loading. Our new link system softens the dumping impact for operator comfort.

Dump clearance (A)	Reach (B)
3040mm	1240mm
(10'0")	(4' 1")



The Highest Working Speed Compared to Similar Machines

The general working speed is 11.2 sec., which is the fastest among the same sized machines. The travel speed can be shifted by 4 stages forwards and 3 stages backwards, so the operator can freely select the relevant shift of transmission. And the maximum travel speed of quick movement from the job site to another job site is also possible.

Easy Starting at Low Temperature

A standard fuel heater is available for cold weather starting.



High Technology

A Pressurized Cab

A pressurized cab and air filtration system keeps the cab interior clean and comfortable.



Tiltable Steering Wheel

The steering wheel can be adjusted for operator comfort and better productivity.

3-stage Controlled Wiper

A 3-stage rear wiper (two continuous stages and one intermittant) provides increased visibility when working in rainy conditions.

Lever Controls

The operator can select dual or single lever joy stick control for an optimum operation.

Special Design for Low-Noise & Low-Vibration

By attaching the special dustproof material, and lowering the noise level to 75dB(A), the machine endurance has been enhanced and it reduces the operators fatigue by offering the ultimate working conditions.

Integrated Air Conditioning/Heating System with Large Capacity

The operator can easily control the temperature and wind direction with one-touch system like that of a passenger car. The defroster on the front windshield offers operator's convenience while working in winter.

Horn, Light, and Wiper Controls

The horn, light, and windshield wiper are controlled with a convenient lever on the right side of the steering console.

Self-Diagnostic Monitor System

The Self-Diagnostic Monitor System indicates the abnormal conditions of the machine and enhances its serviceability. The symbols show on the switchboard, so the operator can take emergeny measures on the



Automatic Power Shift

Automatic power shift transmission is equipped with the electro-hydraulic control unit for high productivity and serviceability.



<Shift pattern of an auto-transmission>

Gear select	1st Speed	2nd Speed	3rd Speed	4th Speed	
4th		Auto speed change 2nd-4th speed			
3rd					
		2nd-3	rd speed		
2nd	-	←→			
1st	\Rightarrow	2nd speed			
	1st speed				



Multi-Function Brake Pedal

The brake pedals require low pedal effort and positive braking power. The left pedal can be set to brake against the power of the machine, or to declutch transmission before applying the brake. The right pedal brakes against the power of the machine at all times.





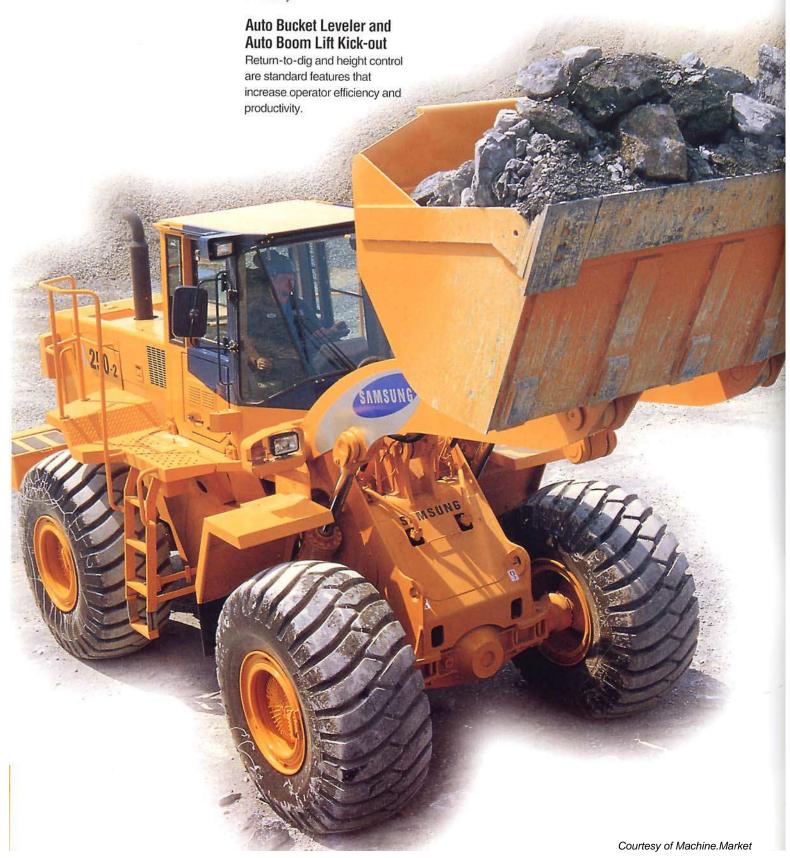
State of the Art Technology for Improved Loader Efficiency

Improved Accelerator

The pedal effort for the accelerator has been lowered to provide the operator with easy operation for increased efficiency.

Bell Crank Pin Guard

The bell crank pin guard prevents pin wear caused by infiltration of dirt, resulting in enhanced durability.



Lever Lock Safety Device

A safety switch is provided to prevent accidental activation of the hydraulic levers.

Parking Brake

The safe and comfortable parking brake switch provides excellent performance.

Wet Disk Brake

Wet disk brakes provide positive stopping power. The brakes are located at the wheel end, oil cooled for long life, enclosed to keep out dirt and provide easy service access. A dual system design allows for independent front and rear wheel braking.



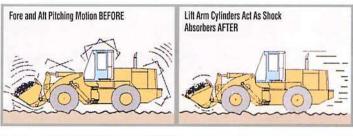


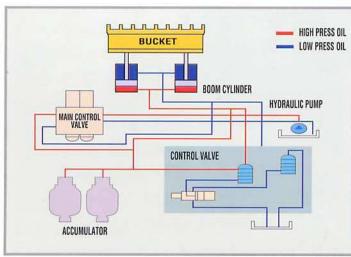
Ride Control System

At the touch of a switch, Ride Control dampens the wheel loader bounce over uneven ground conditions. Ride Control is an optional feature designed for smooth operation and increasing bucket capacity for greater productivity.

Kick-down Switch

A kick-down switch located on top of the loader control lever allows the operator to quickly shift from 2nd to 1st by simply pushing the button. The transmission will automatically shift back to 2nd when the operator changes direction or pushes the button again.







Electric Shift Lever

The twist grip electric shift lever is located on the left side of the steering console where it is easy for the operator to change direction or select the desired gear.

Durability, Maintenance Support System

Hinged Radiator Grill

A hinged radiator grill allows quick and simple access to the radiator for easy cleaning. The grill is designed with sound absorbent materials reducing noise levels.



Centralized Pressure Check Port

Centralized hydraulic and transmission brake pressure check ports enable easy pressure checks.

Airgun(Optional)

The airgun is particularly useful for on-site service and for cleaning the cab interior, the radiator core and for tire inflation.





Easy Servicing

Wide opening access doors make engine compartment checks and filter replacement fast and easy.

Hydraulic Oil Sight Gauge

A sight gauge is installed on the outside of the hydraulic tank for a quick check of the hydraulic oil level.

Protection Cover for Cylinder Rod

The bucket cylinder rod has a protective shield to prevent damage from falling rock.

Battery Master Switch

A keyed master switch disconnects battery power to protect the electrical system during down periods and to deter machine from fire or theft.

Wheel Stopper

A Wheel stop wedge is added as a standard specification to prevent machine creeping on a slope and ensure safety.

Starter Safety Interlock

Safety relay prevents restart with engine running



SPECIFICATIONS

Model	Cummins	LTA10-C
Net Flywheel	hp/ps/kW	256/260/191
Horsepower	rpm	2100
Max. Torque	kg·m/rpm	117/1300
Piston Displacement	I /cu.in	10/610
Bore × Stroke	mm×mm/in	125×136/4.9×5.4
Туре		Water Cooled Direct Injection Turbocharged after cooled
	Motor	24V-7.76kW
Starting System	Alternator	24V-50A
	Battery	2×12V-200A

Model	Cummins	M11-C
Net Flywheel	hp/ps/kW	264/268/197
Horsepower	rpm	2100
Max. Torque	kg•m/rpm	127/1300
Piston Displacement	t /cu.in	10.8/659
Bore × Stroke	mm×mm/in	125×147/4.9×5.8
Туре		Water Cooled Direct Injection Turbocharged after cooled
	Motor	24V-7.76kW
Starting System	Alternator	24V-50A
	Battery	2×12V-200A

ELECTRICAL

Voltage		24V
Battery		2×12V-200A
Alternato	or	24V-50A

TRANSMISSION

Torque converter	3-element, single-stage, single-phase
Transmission	Countershaft with 4 speeds forward and 3 speeds reverse.
	Electric single lever shift and speed control.
	A modulating function assures smooth speed and directional
	changes without braking.
	A neutral safety circuit allows starting only when the
	directional lever is in neutral.

		23.5×	25 TIRE	TRE .		26.5×25 TIRE		E	
	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
FORWARD km/h/mph	7.9/4.9	13.2/8.2	20.3/12.6	35.8/22.2	8.6/5.3	14.4/8.9	22.2/13.8	39.1/24.3	
REVERSE km/h/mph	7.9/4.9	13.2/8.2	24.7/15.3		8.6/5.3	14.4/8.9	26.9/16.7	49	
MAX. TRACTIVE EFFORT(Kg)	21500			21500 19700					

AXLES & FINAL DRIVES

Front axle fixed

Rear axle Oscillates up or down 12°

Full floating front and rear axles include torque proportioning differential, enclosed brakes and final drives; spiral bevel gear for reduction and a planetary gear for final reduction.

BRAKES

Service brakes ······· Air-over hydraulic system operated by the right brake pedal, the left pedal can be used to simultaneously brake and neutralize the transmission; sealed wet disc brakes activate four wheels; dual braking system incorporated.

Parking brake ····· Dry-disc, air released, spring actuated on the T/M output shaft.

Emergency brake ···· Parking brake is automatically applied when air pressure

STEERING SYSTEM

HYDRAULIC SYSTEM

Main pump ----- 370 *l* /min (97.7 GPM) Steering pump ----- 240 *l* /min (63.4 GPM)

Relief valve setting

Main ------ 200 kg/cm² (2840 PSI) Steering ----- 145 kg/cm² (2060 PSI)

Control valve open center with 3 spool type pilot operated control.

Hydraulic cylinders:

Type ———— Double acting, piston No. of cylinders-bore \times stroke: Boom cylinder ———— 2-180mm \times 781mm (7' 1" \times 30' 7")

Hydraulic cycle time (rated load in bucket)

 Raise
 6.2 sec

 Dump
 1.4 sec

 Lower(empty)
 3.6 sec

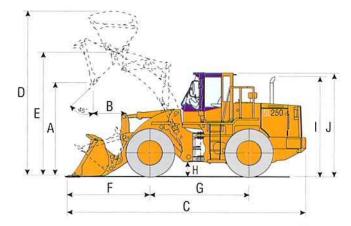
 Total
 11.2 sec

BOOM & BUCKET

Return-to-dig and height control	
Boom	Raise, hold, lower and float
Bucket ·····	Roll-back, hold and dump.
Z-bar loader linkage designed for maximum	m loading capacity.
Boom and bucket pins are of sealed desig exclusion.	n for lubrication retention and dirt
Sealed pins allow service interval.	

SERVICE REFILL CAPACITIES

Hydraulic system	255 / (67.4gal)
Hydraulic tank	
	364 / (96.2gal)
Cooling system	65.8 (17.4gal)
Torque converter and transmission	



DIMENSIONS

			Unit	SL250-2	
	Bucket Type			Genenal Purpose Bucket	
	Bucket	Heaped	m ^a (yd ^a)	3.7 (4.8)	
	Capacity	Struck	m³(yd³)	3.2 (4.2)	
	Bucket Width		mm(ft-in)	3090 (10′ 2″)	
A.	Dumping clear	rance at max. height and 45° dump angle	mm(ft-in)	3040 (10′ 0″)	
B.	Reach	at max. height and 45° dump angle	mm(ft-in)	1240 (4′ 1″)	
		at 2130mm(7') clearance and 45° dump angle	mm(ft-in)	1870 (6′ 2″)	
		with arm horizontal and bucket level.	mm(ft-in)	2600 (8' 6")	
	Digging depth (0')		mm(ft-in)	94 (3.7")	
C.	Overall length (Bucket on ground)		mm(ft-in)	8370 (27' 6")	
D.	Operating height (fully raised)		mm(ft-in)	5620 (18' 5")	
	Loader clearance circle (carry)		mm(ft-in)	13800 (45′ 3″)	
	Static tipping	Straight	kg (lb)	16990 (37260)	
	load	Full turn	kg (lb)	14500 (31970)	
	Breakout force		kg (lb)	19960 (41000)	
	Operating weight		kg (lb)	20850 (45970)	
E.	Bucket Pivot m	nax. height	mm(ft-in)	4136 (13′ 7″)	
F.	Front overhang	g	mm(ft-in)	2956 (9' 8")	
G.	Wheel base		mm(ft-in)	3400 (11′ 2″)	
H.	Ground clearar	nce	mm(ft-in)	445 (1′ 6″)	
1.	Height over ext	haust	mm(ft-in)	3300 (10′ 10″)	
J.	Height over cal	b	mm(ft-in)	3474 (11′ 5″)	
	Noise (Cabin)		dB(A)	75	

All specifications and performance values on SAE J732C and J7426 Standards.

Static tipping load and operating weight shown include the standard tires, coolant, full fuel tank, ROPS cab and operator.



PERFORMANCE FEATURES

POWERFUL CUMMINS ENGINE

- For fuel economy and reliability

Z-BAR LOADER LINKAGE

- Produces high breakout forces for faster cycles.

TORQUE PROPORTIONING DIFFERENTIALS

 Minimize tire slippage, improve traction and increase tire service life.

• 40° FRAME ARTICULATION

- Provides a shorter turning radius for excellent maneuverability in close quarters operations.

OPTIMUM WEIGHT TO HORSEPOWER RATIO

- Means quick, responsive operation

PILOT OPERATED CONTROLS AND ERGONOMICALLY DESIGNED CAB

- For maximum operator comfort & productivity.

PILLARLESS FRONT WINDOW

- For wide scope of obstruction-free visibility.



SAMSUNG WHEEL LOADER \$ 1.250-2



SUPPLEMENTARY SPECIFICATIONS

Tire	Width over tire	Tread width	Changes in vertical dimensions	Changes in overall length
23.5×25	2870mm(9' 15")	2250mm (7′ 5″)	**	
26.5×25	2950mm(9′ 8″)	223011111 (7-3)	+75mm (2.8")	-66mm (2.6")

STANDARD EQUIPMENT Standard and optional equipment may vary. Please ask your SAMSUNG dealer for more information

- Air-conditioning
- · Air cleaner, dry type
- Alternator(50-AMP)
- Automatic bucket leveler
- Automatic lift kickout
- Auto tuning radio AM/FM cassette stereo
- Back up alarm
- Batteries (two 12-Volt)
- Boom stopper
- Brake system(service, parking, secondary)
- Cab (ROPS / FOPS) Isolation Mount
- Cigarette lighter & Ashtray
- Coolers (engine oil, hydraulic oil and transmission oil)
- Counterweight
- Drawbar hitch pin
- Differential, Torque proportioning
- Engine shut-down system(key type)
- Fenders
- Floormat
- Gauge
- -Speedometer
- -Fuel level
- -Coolant temperature
- -Torque convertor oil temperature
- -Air pressure (or Battery charge)
- Heater and defroster
- Horn, Electric
- Hydraulic control (3 spool valve, joystick with option lever)
- Indicator (Warning & Monitoring lights)
- -Air restriction indicator
- Alternator voltage
- -Engine oil pressure
- -Brake oil pressure
- -Transmission oil pressure
- -Air pressure
- -Engine coolant temperature
- -Parking brake applied
- -Transmission cut-off applied
- Secondary steering, ready and activated (if equipped)

- Air inlet preheating
- -Working lights
- -High beam driving lights
- -Direction indicator, hazard
- Key (single key for cab and access doors)
- Kick down switch
- Lever safety lock
- Lifting eyes
- · Lights (front and rear), halogen
- Mirror(2-inside and 2-outside)
- Muffler
- Precleaner
- Rubber steering stops
- Seat (fully adjustable seat with armrest)
- Seat belt
- Sight gauge (hydraulic tank)
- Starting aid (air inlet heater or ether)
- Sunvisor
- Tires and rims
- Windshield washers/wipers (front and rear)
- Wheel stopper

OPTIONAL EQUIPMENT

- Additional counterweight
- Alternator(80-AMP)
- Buckets
- Differential (limited slip)
- Emergency steering system
- Fire extinguisher
- Fuel filler pump
- Mono-lever, loader control for 2 spool valve
- Two lever control for 2 spool valve
- Ordinary spare parts
- Purimuffler
- Ride control system
- Seat back rest extention
- Starting aid (block heater)
- Tires
- Tool kit

Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.



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