

ML12

SMALL ARTICULATED LOADER



OPERATING WEIGHT	
Open cab	2,425 lb. (1100 kg)
Enclosed cab	—

OVERALL DIMENSIONS	
Overall height	81.1 in. (2060 mm)
Overall length:	
Without bucket	87.0 in. (2211 mm)
Machine width	36.2 in. (920 mm)

LOADER PERFORMANCE SPECS	
Lifting height	85.4 in. (2170 mm)
Tipping load (ISO) – Straight	2,205 lb. (1000 kg)
Lifting capacity	2,425 lb. (1100 kg)

ELECTRICAL	
System voltage	12 volts
Alternator	40 amp
Battery	52 AHR 520 cold-cranking amps

— Not available.

ENGINE	
Model	Kubota D902
Emissions certification	Tier 4 Final Certified
Cylinders	3
Displacement	54.8 in. ³ (0.898 L)
Fuel	Diesel
Exhaust aftertreatment	—
Engine speeds	RPM
Rated – full load	3,600
Horsepower @ 3,600 RPM – SAE J1349:	
Gross	25 hp (18.5 kW)
Peak torque @ 2,600 RPM	41.4 lb-ft (56.1 N·m)

DRIVETRAIN	
Transmission type	Hydrostatic
Differential type	Hydraulic controlled
Parking brake:	Hydraulic multidisk
Type	brake
Max. travel speed	9.3 mph (15 kph)

HYDRAULICS	
Control valve type	Open center
Pump type	Fixed gear
Driving hydraulics:	
Flow rate	17.2 gpm (65 L/min)
Operating pressure	5,100 psi (350 bar)
Working Hydraulics:	
Total flow rate	7.4 gpm (28 L/min)
Operating pressure	2,200 psi (150 bar)
Auxiliary 1:	
Max. flow rate	7.4 gpm (28 L/min)
Pressure	2,200 psi (150 bar)
Auxiliary 2 — optional:	
Max. flow rate	7.4 gpm (28 L/min)
Pressure	2,200 psi (150 bar)
Continuous flow — optional:	
Max. flow rate	10.3 gpm (39 L/min)
Pressure	2,200 psi (150 bar)

SERVICE CAPACITIES	
Fuel tank	11.9 gal. (45 L)
Engine oil w/ filter	2.6 qt. (2.5 L)
Hydraulic system	13.7 gal. (52 L)
Engine coolant	1.1 gal. (4.35 L)

Standard Equipment

Operator Environment

- ROPS/FOPS safety roof
- Safety entry bar
- Key start
- Non-suspension vinyl seat
- Armrests
- Retractable seat belt
- Exterior mirrors

Engine

- Glow plug starting aid
- Engine block heater
- Locking fuel cap

Drivetrain

- Hydrostatic 4-wheel drive
- FNR control on joystick
- Electro-hydraulic controlled, manually activated differential
- Hydraulic parking brake

Hydraulics

- 3-spool main control valve
- 1x dual acting auxiliary hydraulics
- Attachment case drain return
- Loader arm float
- Oil cooler

Loader

- Standard lift path
- Mechanical self leveling
- Loader lift arm support strut
- CII mechanical attachment coupler
- Additional counterweights

Electrical

- 12 volt system
- 52 AHR, 520 CCA battery
- 40 A alternator
- 2 front cab work lights
- Remote jumpstart provision

Other Standard Features

- Tow coupling
- Lifting eyes
- Backup alarm
- Horn

Warranty

- Base warranty coverage: 2-Year/1,000-Hour Full Machine Limited Warranty

Optional Equipment

Engine

- Hand throttle

Drivetrain

- Hand inching creep control

Hydraulics

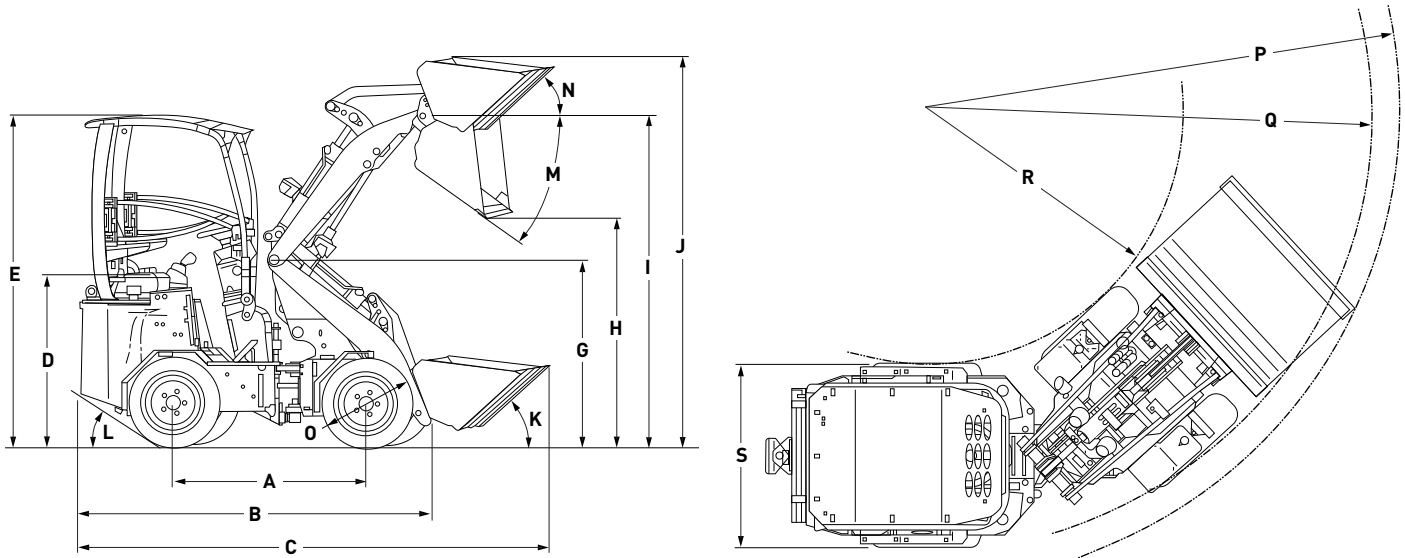
- 2x dual acting auxiliary hydraulics
- Auxiliary hydraulic hold function
- Continuous flow auxiliary hydraulics
- Hydraulic boom suspension (ride control)

Electrical

- 1 boom worklight
- 2 cab rear work lights
- 3-pin electrical auxiliary connection
- Rotating beacon light

Other

- English, Spanish, or French operator manual
- Groundskeeper tool carrying kit



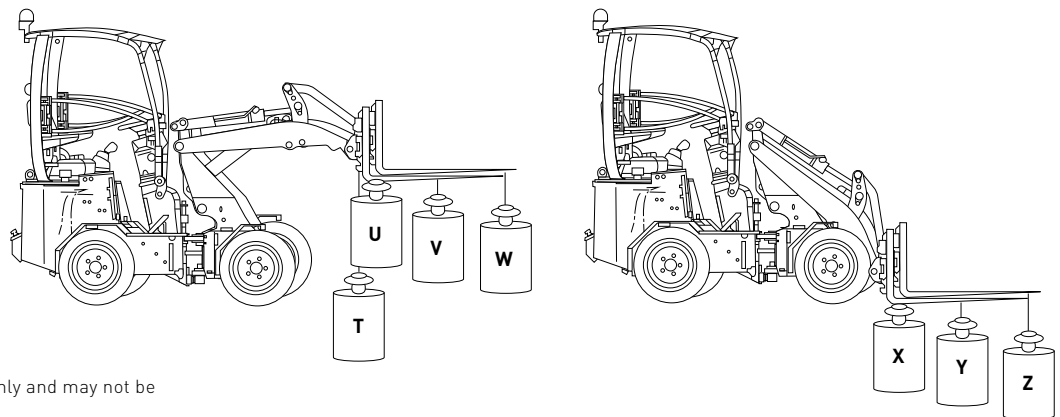
DIMENSIONS

A	Wheelbase	47.4 in. (1205 mm)
B	Total length	87.0 in. (2211 mm)
C	Length with bucket	114.6 in. (2911 mm)
D	Seat height	40.2 in. (1020 mm)
E	Max. height with safety roof	81.1 in. (2060 mm)
F	Max. height with cabin	—
G	Height front frame	54.3 in. (1380 mm)
H	Max. dumping height	55.4 in. (1408 mm)
I	Lifting height	85.4 in. (2170 mm)
J	Height with bucket	117.2 in. (2976 mm)
K	Rollback angle on the ground	43°
L	Rollback angle at max. lift height	45°
M	Max. dumping angle	46°
N	Max. loading angle	34°
O	Outer size of tires	22.4 in. (570 mm)
P	Maximum radius external	87.6 in. (2225 mm)
Q	Turning radius on outer edge	77.4 in. (1967 mm)
R	Inner turning radius	38.5 in. (978 mm)
S	Width on standard tires	36.2 in. (920)

— Not available.

TIPPING LOADS

T	2,200 lb. (1000 kg)
U	1,760 lb. (800 kg)
V	1,210 lb. (550 kg)
W	900 lb. (410 kg)
X	3,730 lb. (1690 kg)
Y	1,850 lb. (840 kg)
Z	1,120 lb. (510 kg)



Line drawings are for illustrative purpose only and may not be exact representation of unit.



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500 Diller Ave.
New Holland, PA 17557

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.

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ML12 T

TELESCOPIC REACH SMALL ARTICULATED LOADER



OPERATING WEIGHT	
Open cab	2,646 lb. (1200 kg)
Enclosed cab	—

OVERALL DIMENSIONS	
Overall height	81.1 in. (2060 mm)
Overall length:	
Without bucket	89.2 in. (2265 mm)
Machine width	36.2 in. (920 mm)

LOADER PERFORMANCE SPECS	
Lifting height	111.0 in. (2820 mm)
Tipping load (ISO) – Straight	See graph page 2
Lifting capacity	See graph page 2

ELECTRICAL	
System voltage	12 volts
Alternator	40 amp
Battery	52 AHR 520 cold-cranking amps

— Not available.

ENGINE	
Model	Kubota D902
Emissions certification	Tier 4 Final Certified
Cylinders	3
Displacement	54.8 in. ³ (0.898 L)
Fuel	Diesel
Exhaust aftertreatment	—
Engine speeds	RPM
Rated – full load	3,600
Horsepower @ 3,600 RPM – SAE J1349:	
Gross	25 hp (18.5 kW)
Peak torque @ 2,600 RPM	41.4 lb-ft (56.1 N·m)

DRIVETRAIN	
Transmission type	Hydrostatic
Differential type	Hydraulic controlled
Parking brake:	Hydraulic multidisk
Type	brake
Max. travel speed	9.3 mph (15 kph)

HYDRAULICS	
Control valve type	Open center
Pump type	Fixed gear
Driving hydraulics:	
Flow rate	17.2 gpm (65 L/min)
Operating pressure	5,100 psi (350 bar)
Working Hydraulics:	
Total flow rate	7.4 gpm (28 L/min)
Operating pressure	2,200 psi (150 bar)
Auxiliary 1:	
Max. flow rate	7.4 gpm (28 L/min)
Pressure	2,200 psi (150 bar)
Auxiliary 2 — optional:	
Max. flow rate	7.4 gpm (28 L/min)
Pressure	2,200 psi (150 bar)
Continuous flow — optional:	
Max. flow rate	10.3 gpm (39 L/min)
Pressure	2,200 psi (150 bar)

SERVICE CAPACITIES	
Fuel tank	11.9 gal. (45 L)
Engine oil w/ filter	2.6 qt. (2.5 L)
Hydraulic system	13.7 gal. (52 L)
Engine coolant	1.1 gal. (4.35 L)

Standard Equipment

Operator Environment

- ROPS/FOPS safety roof
- Safety entry bar
- Key start
- Non-suspension vinyl seat
- Armrests
- Retractable seat belt
- Exterior mirrors

Engine

- Glow plug starting aid
- Engine block heater
- Locking fuel cap

Drivetrain

- Hydrostatic 4-wheel drive
- FNR control on joystick
- Electro-hydraulic controlled, manually activated differential
- Hydraulic parking brake

Hydraulics

- Extension/retraction of lift arm controlled by lever or joystick
- 3-spool main control valve
- 1x dual acting auxiliary hydraulics
- Attachment case drain return
- Loader arm float
- Hydraulic self-level function
- Oil cooler

Loader

- Telescopic reach loader arm
- Loader lift arm support strut
- CII mechanical attachment coupler
- Additional counterweights

Electrical

- 12 volt system
- 52 AHR, 520 CCA battery
- 40 A alternator
- 2 front cab work lights
- Remote jumpstart provision

Other Standard Features

- Tow coupling
- Lifting eyes
- Backup alarm
- Horn

Warranty

- Base warranty coverage: 2-Year/1,000-Hour Full Machine Limited Warranty

Optional Equipment

Engine

- Hand throttle

Drivetrain

- Hand inching creep control

Hydraulics

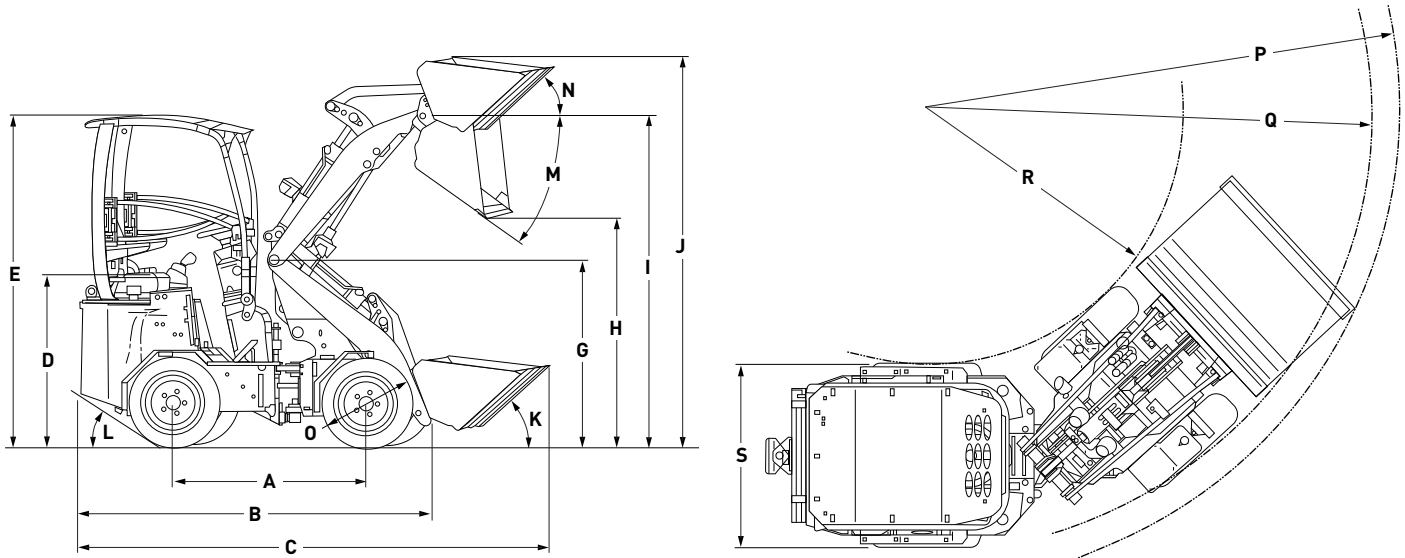
- 2x dual acting auxiliary hydraulics
- Auxiliary hydraulic hold function
- Continuous flow auxiliary hydraulics
- Hydraulic boom suspension (ride control)

Electrical

- 1 boom worklight
- 2 cab rear work lights
- 3-pin electrical auxiliary connection
- Rotating beacon light

Other

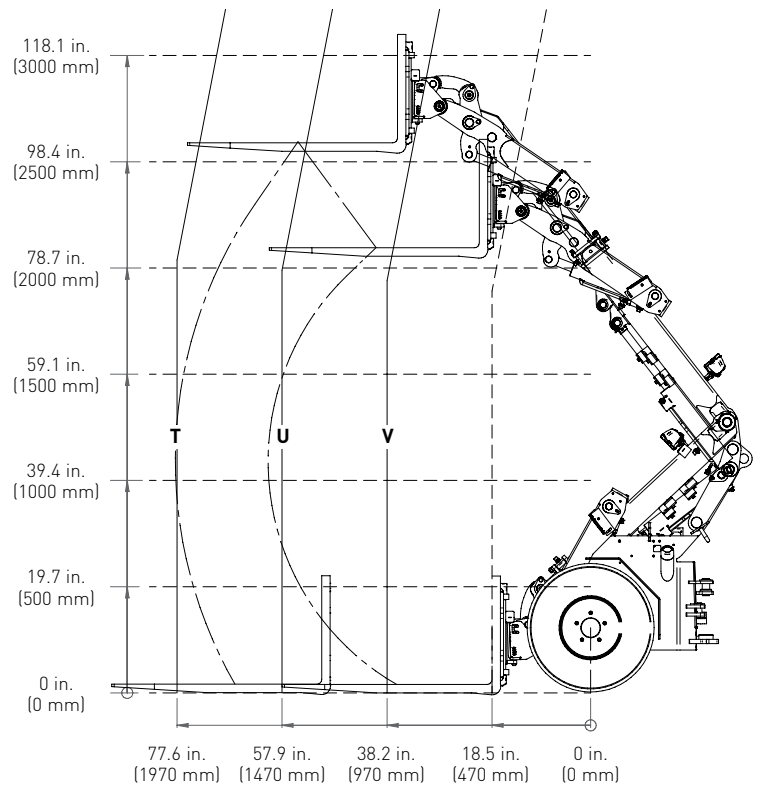
- English, Spanish, or French operator manual
- Groundskeeper tool carrying kit



DIMENSIONS

A	Wheelbase	49.1 in. (1247 mm)
B	Total length	89.2 in. (2265)
C	Length with bucket	115.2 in. (2927 mm)
D	Seat height	40.2 in. (1020 mm)
E	Max. height with safety roof	81.1 in. (2060 mm)
F	Max. height with cabin	—
G	Height front frame	51.6 in. (1310 mm)
H	Max. dumping height	81.1 in. (2060 mm)
I	Lifting height	107.9 in. (2740 mm)
J	Height with bucket	129.9 in. (3300 mm)
K	Rollback angle on the ground	43°
L	Rollback angle at max. lift height	50°
M	Max. dumping angle	40°
N	Max. loading angle	34°
O	Outer size of tires	22.4 in. (570 mm)
P	Maximum radius external	87.6 in. (2225 mm)
Q	Turning radius on outer edge	77.4 in. (1967 mm)
R	Inner turning radius	38.5 in. (978 mm)
S	Width on standard tires	36.2 in. (920)

— Not available.



Line drawings are for illustrative purpose only and may not be exact representation of unit.

TIPPING LOAD PATHS

T	440 lb. (200 kg)
U	1,010 lb. (460 kg)
V	1,650 lb. (750 kg)



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ML22X

SMALL ARTICULATED LOADER

ELECTRIC



OPERATING WEIGHT	
Open cab	4,850 lb. (2200 kg)

OVERALL DIMENSIONS	
Overall height	90.6 in. (2300 mm)
Overall length:	
Without bucket	120.2 in. (3054 mm)
Machine width	48.4 in. (1230 mm)

LOADER PERFORMANCE SPECS	
Lifting height	96.5 in. (2450 mm)
Tipping load (ISO) – Straight	4,528 lb. (2054 kg)
Lifting capacity	4,850 lb. (2200 kg)

SERVICE CAPACITIES	
Hydraulic system	6.6 gal. (25 L)

ELECTRIC POWERTRAIN	
Nominal battery voltage	48 Volts
Battery chemistry	Lithium Ion
Battery capacity	24.9 kWh
On-board charger	240V 1 phase
Charging time 20 - 80%	5.2 hr
Off-board charger	480V 3 phase optional
Charging time 0 - 100%	1.7 hr
Charging time 20 - 80%	1.0 hr
Motor type	3 phase DC brushless (IP54)
Drive motor power	9 hp (6.5 kW)
Implement motor power	16 hp (12.0 kW)
Expected run time – dependent on application:	5 - 6 hr.

HYDRAULICS	
Control valve type	Open center
Pump type	Fixed gear
Working hydraulics:	
Total flow rate	9.2 gpm (35 L/min)
Operating pressure	2,500 psi (170 bar)
Working Hydraulics:	
Total flow rate	11.1 gpm (42 L/min)
Operating pressure	2,500 psi (170 bar)
Auxiliary 1:	
Max. flow rate	9.2 gpm (35 L/min)
Pressure	2,500 psi (170 bar)
Auxiliary 2 — optional:	
Max. flow rate	9.2 gpm (35 L/min)
Pressure	2,500 psi (170 bar)

DRIVETRAIN	
Transmission type	Electric
Differential type	Limited slip
Parking brake: Type	Drum
Max. travel speed:	
Turtle	3.7 mph (6 kph)
Mid	7.5 mph (12 kph)
Rabbit	11.2 mph (18 kph)

Standard Equipment

Operator Environment

- ROPS/FOPS safety roof
- Safety entry bar
- Key start
- Mechanical suspension vinyl seat
- Armrests
- Retractable seat belt
- Exterior mirrors

Electric Powertrain

- Lithium-ion battery
- 240V on-board charger
- Battery management system
- Battery DC fast-charge connector

Electrical

- 1 boom worklight
- 2 front cab work lights
- Anti-theft protection with access code

Drivetrain

- Electric 4-wheel drive
- FNR control on joystick
- Limited slip axles
- Drum brakes

Loader

- Standard lift path
- Mechanical self leveling
- Loader lift arm support strut
- SSL compatible attachment coupler, hydraulic powered
- Additional counterweights

Hydraulics

- 3-spool main control valve
- 2x dual acting auxiliary hydraulics
- Attachment case drain return
- Biodegradable hydraulic fluid

Other Standard Features

- Tow coupling
- Lifting eyes
- White-noise backup alarm
- Horn

Warranty

- Base warranty coverage: 2-Year/1,000-Hour Full Machine Limited Warranty
- Electric power train warranty coverage: 3-year/3,000 Hour Limited Warranty

Optional Equipment

Operator Environment

- Fold-able open ROPS
- Enclosed cab with heat
- Air suspension seat

Charging

- 480V 3 Phase DC fast charger

Electrical

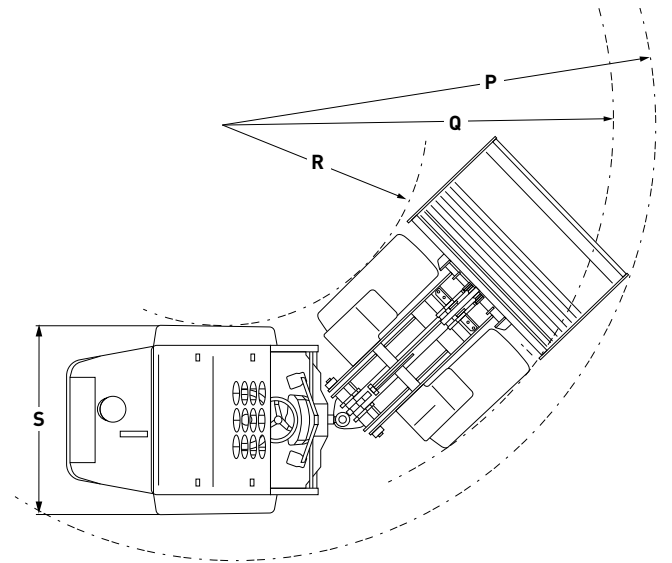
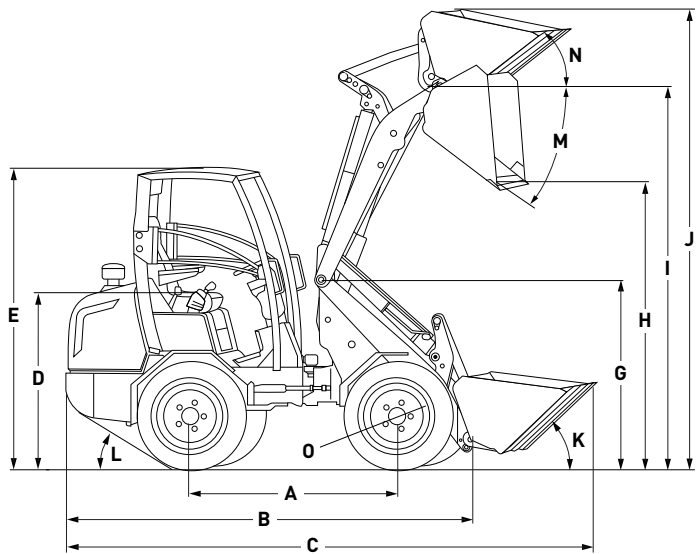
- 2 cab rear work lights
- 14-pin electrical auxiliary connection
- Rotating beacon light
- Strobe light

Hydraulics

- Hydraulic boom suspension (ride control)

Other

- English, Spanish, or French operator manual

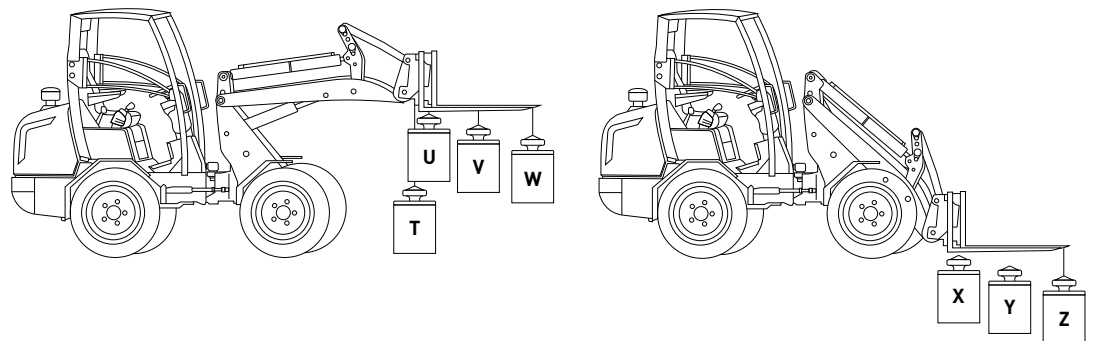


DIMENSIONS

A	Wheelbase	62.2 in. (1580 mm)
B	Total length	120.2 in. (3054 mm)
C	Length with bucket	150.8 in. (3830 mm)
D	Seat height	49.4 in. (1256 mm)
E	Max. height with safety roof	90.6 in. (2300 mm)
F	Max. height with cabin	89.9 in. (2284 mm)
G	Height front frame	49.2 in. (1250 mm)
H	Max. dumping height	66.1 in. (1680 mm)
I	Lifting height	96.5 in. (2450 mm)
J	Height with bucket	119.7 in. (3040 mm)
K	Rollback angle on the ground	41°
L	Rollback angle at max. lift height	46°
M	Max. dumping angle	37°
N	Max. loading angle	29°
O	Outer size of tires	29.9 in. (760 mm)
P	Maximum radius external	42.5 in. (1080 mm)
Q	Turning radius on outer edge	104.3 in. (2650 mm)
R	Inner turning radius	92.2 in. (2342 mm)
S	Width on standard tires	48.4 in. (1230 mm)

TIPPING LOADS

T	4,530 lb. (2054 kg)
U	3,480 lb. (1580 kg)
V	2,510 lb. (1140 kg)
W	1,870 lb. (850 kg)
X	5,900 lb. (2675 kg)
Y	3,510 lb. (1590 kg)
Z	2,470 lb. (1120 kg)



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