WL38

Wheel Loader

The plus in performance and comfort

The WL38 wheel loader offers with an extraordinarily high hydraulic output and various motors you can select – both the best values in its performance class. With the P-Z kinematics, the WL38 offers high breakout forces and first-class parallel guidance. All this combined makes for impressive performance, allowing the flexible use of attachments. The machine is ideally equipped for different work tasks. The cab, with its extremely generous design, offers the operator extra comfort and ergonomics and makes working with the machine easy.

Highlights

- Ergonomic cockpit
- High hydraulic performance
- The wheel loader as an attachment carrier
- Variety of equipment
- Joystick console spring-mounted on the operator's seat

Technical Data

Standard engine data

Engine manufacturer	Deutz
Motor type	TD 2.9 L4 S5
Cylinder	4
Drive output	45 kW
Drive output	60.3 HP
at max. rpm	2,300 rpm
Cylinder capacity	176.97 in³
Type of coolant	Water
Exhaust standard level	V
Exhaust aftertreatment	DOC/DPF
Average sound power level LwA (cabin)	98.8 dB(A)
Guaranteed sound power level LwA (cabin)	101 dB(A)
Specified sound pressure level LpA (cabin)	74 dB(A)

Engine data Option 1

Engine manufacturer	Deutz
Motor type	TCD 2.9 L4 S5
Cylinder	4
Drive output	55.4 kW
Drive output	74.3 HP
at max. rpm	2,300 rpm
Cylinder capacity	176.97 in³
Type of coolant	Water/charge air
Exhaust standard level	V
Exhaust aftertreatment	DOC/DPF
Average sound power level LwA (cabin)	100 dB(A)
Guaranteed sound power level LwA (cabin)	101 dB(A)
Specified sound pressure level LpA (cabin)	77 dB(A)

Electrical system

Operating voltage	12 V
Battery	100 Ah
Alternator	95 A

Weights

Bucket capacity (standard bucket)	22.60 ft³
Operating weight	9,480 lb
Tipping load with bucket – machine straight, loading frame horizontal	8,199 lb
Tipping load with bucket – machine pivoted, loading frame horizontal	6,863 lb
Tipping load with pallet fork – machine straight, loading frame horizontal	6,989 lb

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Tipping load with pallet fork – machine pivoted, loading frame horizontal	5,869 lb

Driver's cab

Driver's cab	Cab

Filling levels

Tank capacity for fuel	17.17 US gal
Tank capacity for hydraulic oil	13.21 US gal

Drive system

Type of drive	Hydrostatic
drive unit	universal joint shaft
Speed levels	2
Axle	PA 1200
Travel speed Standard	0-12.43 mph
Travel speed Option 1	0-18.64 mph
Operating brake	Hydrostatic drive system acting on all 4 wheels (wear-free)
Parking brake	Service and parking brake in the drive train acts on all 4 wheels
Differential lock	100 % front axle + rear axle

Hydraulic system

Drive hydraulics working pressure (max.)	6,527 psi
Work hydraulics discharge volume (max.)	15.19 (19.55 - 30.38) gpm
Work hydraulics working pressure (max.)	3,046 psi

Kinematics

Kinematics type	PZ
Lifting cylinder	2
Tipping cylinder	1
Quick change system	hydraulic

Steering

Steering type	hydraulically activated articulated pendulum steering
Steering cylinder	1
Oscillating angle	±12 degree

Other information

FSD = overhead guard
DPF = diesel particulate filter
DOC = diesel oxidation catalyst
SCR = selective catalytic reduction
Tipping load calculation pursuant to ISO 14397

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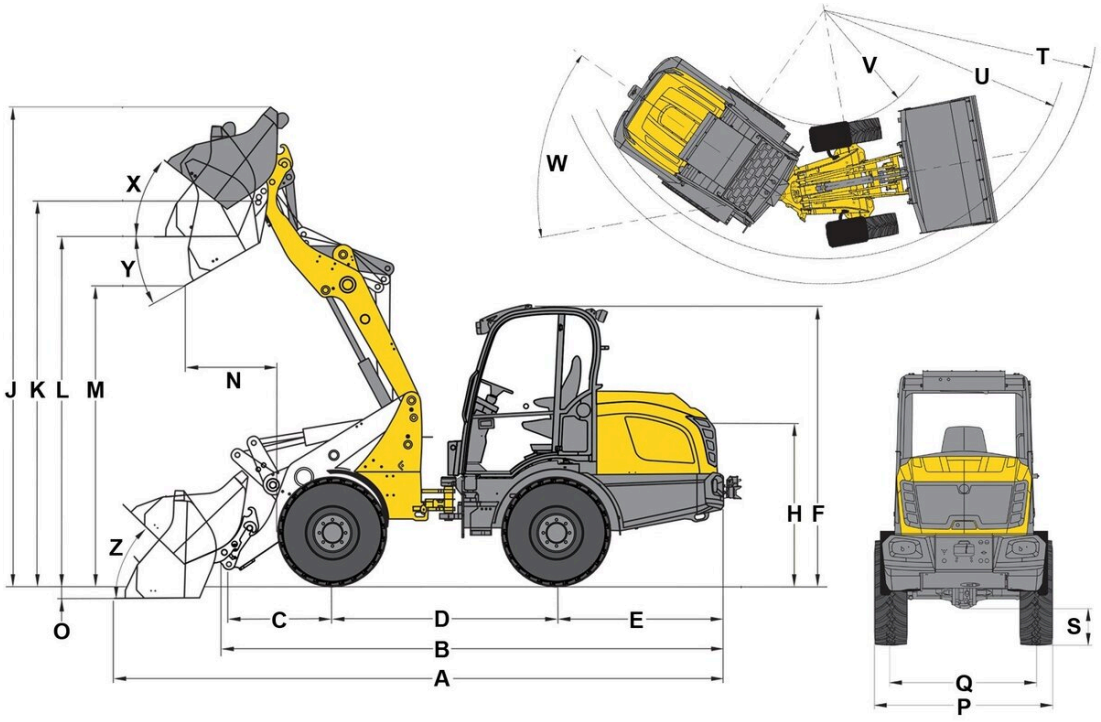
Dimensions



A	Total length	202.3 in
B	Total length without bucket	171.0 in
C	Bucket pivot point (to center of axle)	26.6 in
D	Wheel base	80.5 in
E	Rear overhang	59.7 in
F	Height with cab	93.3 in
	Height with cab raised	100.3 in
H	Seat height	47.4 in
J	Total working height	150.7 in
K	Bucket pivot point (max. lift height)	128.0 in
L	Load-over height	113.9 in
M	Dumping height	93.7 in
N	Reach (at M)	10.6 in
O	Digging depth	4.7 in
P	Total width	61.8 in
Q	Track width	47.2 in
S	Ground clearance	12.3 in
T	Maximum external radius	143.8 in
U	Radius on the outer edge	130.6 in
V	Inner radius	64.6 in
W	Articulation angle	45 °
X	Rollback angle at max. lift height	43 °
Y	Dumping angle	42 °
Z	Rollback angle on ground	41 °

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