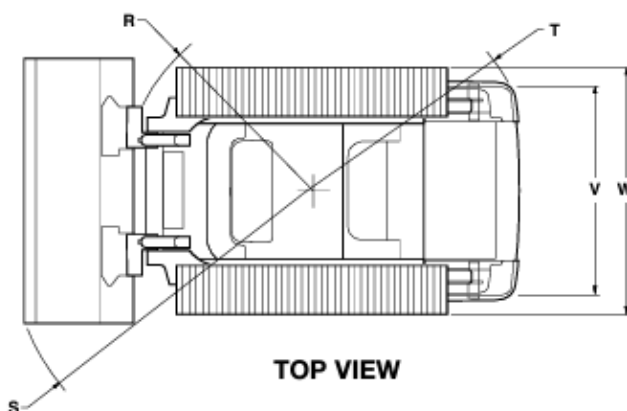


# L316



## DIMENSIONS

### Overall operating height

A	with foundry/excavating bucket short	in (mm)	141.4 (3591)
A	with low profile/standard bucket	in (mm)	146.9 (3732)
A	with low profile extended/long bucket	in (mm)	152 (3859)

### Height to

B	Bucket hinge pin	in (mm)	112 (2845)
C	Top of ROPS	in (mm)	75.5 (1919)
D	Bottom of level bucket, fully raised	in (mm)	105.6 (2682)

### Overall Length

E	without attachment with coupler	in (mm)	95.9 (2435)
F	with foundry excavation bucket on ground	in (mm)	119.2 (3028)
F	with low profile bucket	in (mm)	125 (3175)
F	with low profile extended bucket	in (mm)	129.8 (3297)

### Dump

G	Dump angle	degrees	40
H	Dump height		
	with foundry/excavating bucket short in (mm)	in (mm)	88.4 (2246)
	with low profile/standard bucket	in (mm)	84.8 (2154)
J	Dump reach (max height)	in (mm)	18.5 (469)

Maximum attachment rollback		
K	Bucket on ground	degrees 26
L	Bucket at full height	degrees 95
Track and clearance		
M	Wheelbase	in (mm) 37 (941)
P	Ground clearance (bottom of belly pan)	in (mm) 7 (178)
Q	Angle of departure	in (mm) 22
Clearance circle		
R	Without bucket	in (mm) 48.8 (1240)
S	With foundry bucket in carry position	in (mm) 73.3 (1862)
S	With low profile bucket on ground	in (mm) 78.5 (1994)
S	With extended low profile bucket on ground	in (mm) 83.1 (2112)
T	Clearance circle rear	in (mm) 56.4 (1433)
V	Tread width	in (mm) 49.2 (1248)
W	Overall width	in (mm) 59.8 (1518)
ENGINE		
Manufacturer/model		ISM / N844LT
Type		Diesel 4-stroke, T, I.D.I.
Bore/stroke	in (mm)	3.31 x 3.94 (84 x 100)
Displacement	in <sup>3</sup> (L)	135.2 (2.216)
Fuel injection		Indirect
Fuel		#2 diesel
Fuel filter		Pre-filter spin on @ 14 microns Main-filter spin on @ 10 microns
Air intake		Turbocharged with external EGR
Cooling		Liquid
Engine Speeds		
High idle - no load		rpm 2825 +/- 25
Rated - full load		rpm 2800
Low idle		rpm 1200 +/-50

Horsepower per SAE J1349		
	Gross hp (kW)	60 (45) @ 2800 rpm
	Net hp (kW)	57 (42) @ 2800 rpm
Peak torque	lb-ft (N•m)	139 (188) @ 1800 rpm

POWER TRAIN		
Drive pump electro hydraulic		
Pump to engine ratio		1:1
Displacement	in <sup>3</sup> (L)	2.14 (35)
Flow	gpm (lpm)	25.1 (95)
Charge pressure	psi (bar)	360 (25)
System relief	psi (bar)	5000 (345)
Control		Direct mechanical
Drive Motors		
Effective max displacement	in <sup>3</sup> (cc)	19.83 (325)
Effective Displacement opt high speed	in <sup>3</sup> (cc)	-
Speed @ high idle engine	rpm	313
Speed @ optional high speed	rpm	-
Torque @ max displ. and relief pressure	lb-ft (N•m)	1315 (1783)
Travel Speed		
Low range	mph (km/h)	7.9 (12.7)
High range	mph (km/h)	-
Final drive	mph (km/h)	Single-reduction chain drive
Parking Brake		
Type		Spring applied, hydraulic release multiple disk
Engagement		Depress on/off brake button on instrument panel, disconnect lapbelt, get off seat, or stop engine
UNDERCARRIAGE		
System		-
Idlers / rollers per side		-
Ground Pressure		
PSI (with spec belt)		-

HYDRAULIC SYSTEM		
Pumps		
Type		Gear
Displacement standard aux.	in <sup>3</sup> (cc)	1.52 (24.9)
Displacement high flow aux.	in <sup>3</sup> (cc)	-
Standard pump flow	gpm (Lpm)	18.4 (69.7)
Optional high flow	gpm (Lpm)	-
Enhanced high flow	gpm (Lpm)	-
Loader control valve		
Type		3 Spool / open center / series
Standard relief pressure	psi (bar)	3046 (210)
Enhanced high flow relief pressure	psi (bar)	-
Hydraulic filter		4 microns / spin on
CYLINDERS		
Lift Cylinder		
Bore diameter	in (mm)	2.25 (57)
Rod diameter	in (mm)	1.38 (35)
Stroke in	in (mm)	25.4 (645)
Closed length	in (mm)	38.9 (989)
Bucket Cylinders		
Bore diameter	in (mm)	2.5 (63.5)
Rod Diameter	in (mm)	1.38 (34.9)
Stroke in	in (mm)	14.6 (370)
Closed length	in (mm)	23.4 (594)
Rated Operating Load		
50% tip	lbs. (kg)	1600 (725)
35% tip	lbs. (kg)	-
Tipping load	lbs. (kg)	3200 (1455)
Breakout Forces		
Lift cylinder	lbs. (kN)	3160 (14.1) Tip Limit
Bucket cylinder	lbs. (kN)	4180 (18.6)

Cycle Times		
Raise	sec	3.2
Lower	sec	2.0
Dump	sec	1.8
Roll back	sec	1.3
Loader control valve		
Type		-
Standard relief pressure	psi (bar)	-
Enhanced high flow relief pressure	psi (bar)	-
Hydraulic filter		-
WEIGHTS		
Operating weight	lbs (kg)	5645 (2560)
Shipping weight	lbs (kg)	5210 (2370)
SERVICE CAPACITIES		
Fuel tank, gal (L)		16 (60.5)
Engine oil with filter, qt (L)		7.5 (7.1)
System Capacity with filter, qt (L)		30.9 (29.2)
DEF tank, gal (L)		-