



ENGINE

Model	Perkins/ISM N844LT-F-45SL
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, turbocharged
Cylinders	4
Bore/Stroke	3.31 x 3.94 in (84 x 100 mm)
Displacement	135.2 in ³ (2.2 L)
Fuel injection	Indirect
Fuel	#2 Diesel
Fuel filter:	
Pre-filter	14 micron/in line
Main filter	10 micron/spin-on
Air intake	Turbocharged w/ waste gate and external cooled EGR
Exhaust aftertreatment	Diesel Particulate Filter – DPF
Cooling	Liquid
Engine speeds	RPM
High idle – no load	2825 +/- 25
Rated – full load	2800
Low idle	1200 +/- 50
Horsepower @ 2800 RPM – SAE J1349:	
Gross	60 hp (44.7 kW)
Net	57 hp (42.4 kW)
Peak torque @ 1800 RPM	139 lb-ft (188 N-m)
Radiator:	
Core type	All aluminum
Core size area	2.77 ft ² (0.257 m ²)
Rows of tubes x columns	43 x 3
Cap pressure	16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan:	
Diameter	17.7 in (450 mm)
Ratio	0.89:1
Water pump:	
Style	Centrifugal
Flow	14.7 gpm (55.5 L/min)
Engine lubrication pump	Pressure feed w/ Trichoid pump
Pump operating angle ratings:	
Side to side	35°
Bucket up	35°
Bucket Down	35°

LIFT GEOMETRY

Radial Lift

DRIVETRAIN

Drive pump controls	Direct mechanical
Pump to engine ratio	1:1
Displacement	2.14 in ³ (35 cm ³)
Flow @ rated engine RPM:	
@ 97% efficiency	25.1 gpm (95 L/min)
Charge pressure	360 psi (24.5 bar)
System relief pressure	5,000 psi (345 bar)

Drive motors:	
Displacement	19.8 in ³ (325 cm ³)
Motor RPM @ high idle and 97% efficiency	313
Max. torque @ 5,000 psi (345 bar):	1,315 lb-ft (1 783 N-m)

Travel speed	7.4 mph (11.9 kph)
Final drive	Single-reduction chain drive

Drive chain:	
Size	ASA #80
Tensile strength	21,000 lb (93.4 kN)

Axles:	
Torque	4,381 lb-ft (5 940 N-m)
Diameter	2.0 in (50.8 mm)
Length	13.2 in (346.0 mm)

Parking brake:	
Type	Spring-applied, hydraulic release multiple disc.
Engagement	Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat or stop engine.

ELECTRICAL

Alternator	120 amp
Starter	2.95 hp (2.2 kW)
Battery	12-volt low-maintenance 925 cold-cranking amps @ 0° F (-18° C°)

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy w/ side screens;
Keyed start ignition; Tilt ROPS/FOPS; Rear
window w/ emergency escape; Suspension Seat,
vinyl w/ 2 in (51 mm) retractable 3 point lap seat
belt; Hand and foot throttle; Alarm package –
back-up and horn; Rearview mirror; Headliner;
Dome Light; Top window; Cup holder; 12V Power
plug socket; Foot rest; Seat pocket; Padded seat
bar w/ integral armrests; Loader control lockout
system; Electric parking brake control; Operator's
compartment floor cleanout; Proportional
auxiliary hydraulic control – on joystick; Advanced
Instrument Cluster w/ digital hour meter,
tachometer, fuel level LCD bar graph w/ alarm,
diagnostic features and security lockout.

Warning lights with alarms:

Engine coolant temperature; Engine oil pressure;
Engine malfunction; Hydraulic charge pressure;
Hydraulic filter restriction; Hydraulic oil
temperature; Critical system stop, Engine
system, Hydraulic system, Electrical and
diagnostic system.

Warning alarms:

Battery voltage – plus display; Oil service.

Indicator light:

Engine preheat; Parking brake;
Seat bar reminder.

OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 60 in Dirt & Foundry bucket; full of fuel;	
10 x 16.5 tires:	5,645 lb (2 560 kg)
Shipping weight	5,210 lb (2 370 kg)

Add-on weights:

Side cab glass	47 lb (21.3 kg)
Polycarbonate cab door	74 lb (33.6 kg)
Glass cab door w/ wiper	134 lb (60.8 kg)
Suspension seat	22 lb (10.0 kg)
Additional counterweight	168 lb (76.2 kg)

HYDRAULICS

Implement pump type	Gear
Displacement	1.52 in ³ (24.9 cm ³)

Standard flow @ rated engine RPM:	
@ 100% efficiency	18.4 gpm (69.7 L/min)

Loader control valve:

Type	3 spool/open center/series - series
Relief pressure	3,050 psi (210 bar)

Port relief pressures:

Loader raise	3,263 psi (225 bar)
Bucket curl	3,770 psi (260 bar)
Bucket dump	1,160 psi (80 bar)

Hydraulic lines:

Tubing	37° JIC Flare
Loop hoses	SAE 100 R19

Hydraulic oil cooler:

Number of fins	10 per inch (3.94 per cm)
Number of tube rows x columns	9 x 1
Area	130.7 in ² (843.2 cm ²)

Hydraulic filter	Beta (4) = 75/spin-on
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Lift cylinders:

Bore diameter	2.25 in (57.2 mm)
Rod diameter	1.38 in (34.9 mm)
Stroke	25.40 in (645.0 mm)
Closed length	38.94 in (989.0 mm)

Bucket cylinders:

Bore diameter	2.50 in (63.5 mm)
Rod diameter	1.38 in (35.0 mm)
Stroke	14.57 in (370.1 mm)
Closed length	23.38 in (594.0 mm)

SERVICE CAPACITIES

Fuel tank	16.0 gal (60.5 L)
Engine oil w/ filter	7.5 qt (7.1 L)
Hydraulic system:	
Reservoir	4.0 gal (15.1 L)
Total	7.71 gal (29.2 L)
Chain tanks – per side	1.65 gal (6.5 L)

PERFORMANCE SPECS

Rated operating capacity – ROC*:	
50% of tipping load	1,600 lb (726 kg)
w/ additional counterweight	1,700 lb (771 kg)
Tipping load*	3,200 lb (1 455 kg)

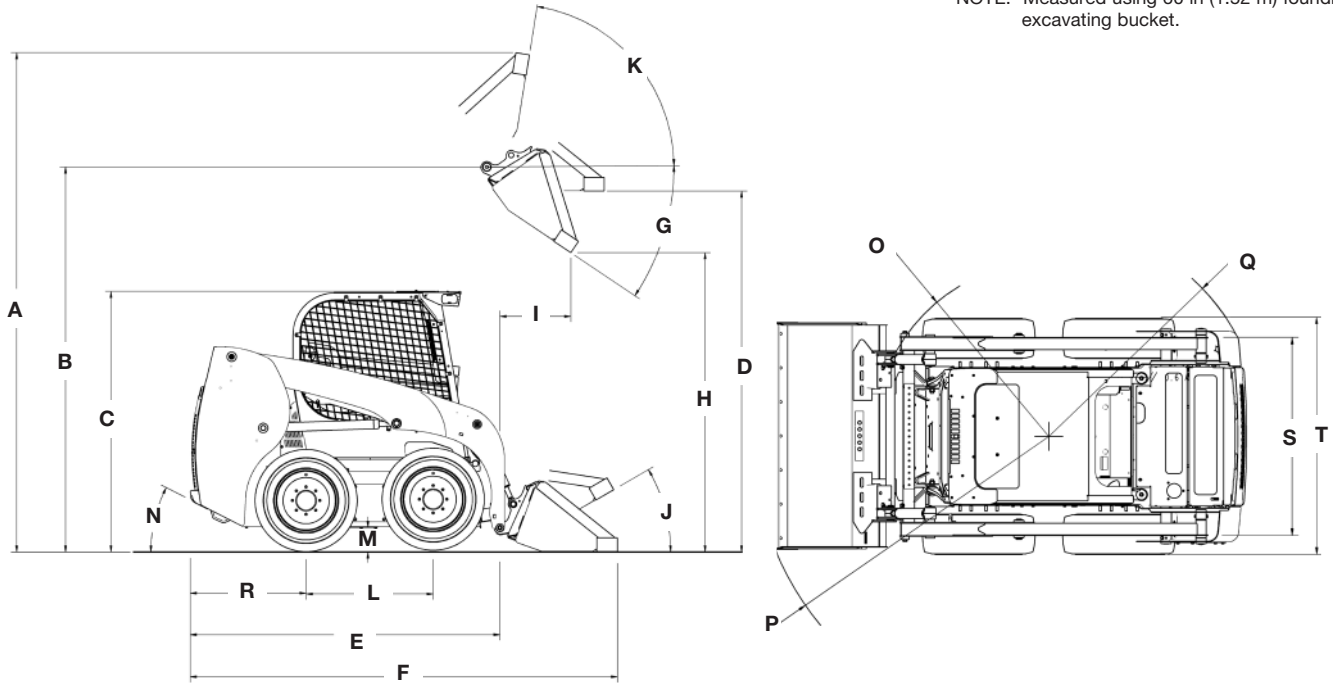
Breakout forces @ 3,150 psi (217 bar)*:

Bucket cylinders	5,270 lb (23.4 kN)
Lift cylinders – tip limit	3,310 lb (14.7 kN)

Cycle times:

Raise	3.5 sec
Lower	2.2 sec
Dump	2.0 sec
Roll back	1.4 sec

NOTE: *Measured using 60 in (1.52 m) foundry/ excavating bucket.



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

DIMENSIONS

A. Overall operating height:	
with foundry/excavating bucket	141.4 in (3.59 m)
with low profile bucket	146.9 in (3.73 m)
with low profile extended bucket	152.0 in (3.86 m)
Height to:	
B. Bucket hinge pin	112.0 in (2.85 m)
C. Top of ROPS	75.5 in (1.92 m)
D. Bottom of level bucket, fully raised	105.6 in (2.68 m)
Overall length:	
E. without attachment with coupler	95.9 in (2.44 m)
F. with foundry/excavating bucket on ground	119.2 in (3.03 m)
with low profile bucket	125.0 in (3.18 m)
with low profile extended bucket	129.8 in (3.30 m)
G. Maximum dump angle	40.2°
H. Dump height:	
with foundry/excavating bucket	88.4 in (2.25 m) @ 40.2°
with low profile bucket	84.8 in (2.15 m) @ 40.2°
I. Dump reach at maximum height with low profile bucket	22.7 in (0.58 m) @ 40.2°
Maximum attachment rollback:	
J. Bucket on ground	26.1°
K. Bucket at full height	95.2°
L. Wheelbase	37.0 in (0.94 m)
M. Ground clearance – bottom of belly pan	7.0 in (0.18 m)
N. Angle of departure	22.0°
Clearance circle:	
O. without bucket	48.7 in (1.24 m)
P. with 60 in (1.52 m) foundry/excavating bucket in carry position	73.3 in (1.86 m)
with 60 in (1.52 m) extended low profile on ground	83.1 in (2.11 m)
Q. Clearance circle rear	56.4 in (1.43 m)
R. Rear axle to bumper	33.8 in (0.86 m)
S. Tread over gauge with spec lines	49.2 in (1.25 m)
T. Over the tire width spec tires	59.8 in (1.52 m)

OPTIONAL BUCKETS

Type	Width	Weight	Heaped Capacity
Dirt & Foundry	60 in (1.52 m)	300 lb (138 kg)	11.3 ft ³ (0.32 m ³)
	66 in (1.68 m)	385 lb (175 kg)	14.8 ft ³ (0.42 m ³)
	72 in (1.83 m)	420 lb (190 kg)	16.2 ft ³ (0.46 m ³)
Low Profile	66 in (1.68 m)	440 lb (200 kg)	13.4 ft ³ (0.38 m ³)
	72 in (1.83 m)	480 lb (218 kg)	14.8 ft ³ (0.42 m ³)
Low Profile Extended	60 in (1.52 m)	400 lb (182 kg)	14.1 ft ³ (0.40 m ³)
	66 in (1.68 m)	470 lb (214 kg)	15.9 ft ³ (0.45 m ³)
	72 in (1.83 m)	510 lb (232 kg)	17.7 ft ³ (0.50 m ³)
Light Material	72 in (1.83 m)	475 lb (216 kg)	23.3 ft ³ (0.66 m ³)
Manure & Slurry	72 in (1.83 m)	480 lb (218 kg)	19.1 ft ³ (0.54 m ³)
Heavy-Duty	72 in (1.83 m)	510 lb (230 kg)	14.1 ft ³ (0.40 m ³)
Heavy-Duty Extended with SmartFit Teeth	72 in (1.83 m)	667 lb (303 kg)	17.4 ft ³ (0.49 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

Perkins/ISM N844LT-F-45SL diesel
135.2 CID (2.2 L) Turbo
Tier 4 Final Certified
Spark Arresting Diesel Particulate Filter (DPF) muffler
Charged Air Cooler (CAC)
Indirect fuel injection
Horsepower:
Gross: 60 hp (44.7 kW)
Net: 57 hp (42.4 kW)
Peak torque: 139 lb-ft (188 N·m)
120 amp alternator
Dual element air cleaner
Organic Acid Technology (OAT)
Anti-freeze solution to -34° F
Fuel tank - 16 gal (U.S.)
Over and under radiator and oil cooler
Single plane, top and bottom oil cooler/
radiator configuration
Glow plugs

Integral engine oil cooler
Fuel filter with water trap
925 CCA 12V battery
Master electrical disconnect

DRIVETRAIN

1-speed hydrostatic four wheel drive
ASA #80 drive chain
SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics:
@ 3,050 psi (210 bar) – 18.4 gpm
(69.7 L/min)
6 micron oil filtration system
3-spool loader control valve
Auxiliary hydraulic disconnects, ISO
flat-face – connect-under-pressure
with case drain
Hydraulic circuit pedal lock
Auxiliary function lockout override
Loader lift lockout override
Heavy-duty hydraulic oil cooler
Loader arm float position
Loader function lockout system

LOADER

Manual attachment coupler
Radial lift geometry
Loader lift arm support strut

TIRES

10 X 16.5 Heavy duty

OTHER STANDARD FEATURES

Halogen lights – 2 front, 2 side, 2 rear flood
Pre-wired for rotating beacon
Lockable service access hood
Single-point daily service
Rear tail lights
Remote oil drain
Remote oil and fuel filters
Block heater
Debris ingress sealing
Mounting points for add-on counterweights

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Enclosed cab:
Fully sealed and pressurized – FSP
Glass door with wiper and washer
Sliding side windows – removable
AM/FM Bluetooth radio with 2 speakers
Keyless start ignition
Control lockout system
Mechanical hand controls
Hand and foot controls:
Hand controls the loader drive function
and foot controls the bucket and boom
Deluxe cloth, air suspension seat, with heater
and lumbar support
Demolition cab door with polycarbonate
FOPS level 2

HYDRAULICS

Second auxiliary hydraulics
Hydraulic one-way self-leveling
Ride control

LOADER

Hydraulic attachment coupler

OTHER

Language decals
Buckets – see page 3
Bolt-on bucket cutting edges
Special paint
Offsite service arrangement
Telematics

FACTORY SUPPLIED ATTACHMENTS

Add-on counterweights
Road lights
Rotating beacon
Four-corner LED strobe

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt
Bolt-on heavy-duty bucket teeth

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Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

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4 of 4