



ENGINE		
Model Perkir	ns/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 Main filter	14 micron/in line 10 micron/spin-on	
	Turbocharged w/ waste gate and external cooled EGR	
Exhaust aftertreatment	Diesel Particulate Filter – DPF	
Cooling	Liquid	
Engine speeds High idle – no load Rated – full load Low idle	RPM 2825 +/- 25 2800 1200 +/- 50	
Horsepower @ 2800 RPM		
Gross Net	60 hp (44.7 kW) 57 hp (42.4 kW)	
Peak torque @ 1800 RPM	1 139 lb·ft (188 N·m)	
Radiator: Core type Core size area Rows of tubes x columr Cap pressure	All aluminum 2.77 ft² (0.257 m²) ns 43 x 3 16 +/- 2 psi (1.10 +/- 0.14 bar)	
Fan: Diameter Ratio	17.7 in (450 mm) 0.89:1	
Water pump: Style Flow	Centrifugal 14.7 gpm (55.5 L/min)	
Engine lubrication pump	Pressure feed w/ Trichoid pump	
Pump operating angle rat Side to side Bucket up Bucket Down	tings: 35° 35° 35°	

LIFT GEOMETRY

Radial Lift

DRIVETRAIN

Drive pump controls Pump to engine ratio Displacement Flow @ rated engine F	Direct mechanical 1:1 2.14 in ³ (35 cm ³) RPM:	
@ 97% efficiency Charge pressure	25.1 gpm (95 L/min) 360 psi (24.5 bar)	
System relief pressure	1 ()	
Drive motors:		
Displacement	19.8 in ³ (325 cm ³)	
Motor RPM @ high idle and 97% efficiency 313		
Max. torque @ 5,000 p	1,315 lb⋅ft (1 783 N⋅m)	
	, , , ,	
Travel speed	7.4 mph (11.9 kph)	
Final drive Sin	gle-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:		
Туре	Spring-applied, hydraulic	
0 0 1	release multiple disc. press on/off brake button ndle or instrument panel,	
raise seat bar, ge	et 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.

SR160B

SKID STEER LOADER TIER 4 FINAL CERTIFIED

Warning alarms:

Battery voltage - plus display; Oil service.

Indicator light:

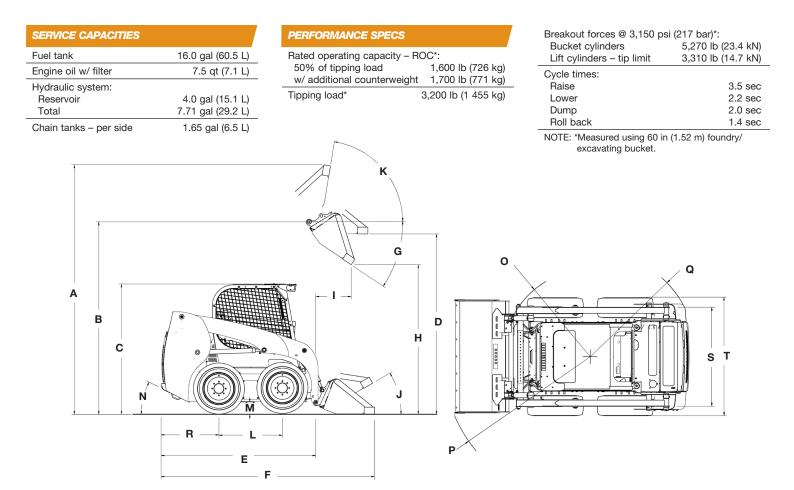
Engine preheat; Parking brake; Seat bar reminder.

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

HYDRAULICS

Implement pump type	Gear		
Displacement	1.52 in ³ (24.9 cm ³)		
Standard flow @ rated e @ 100% efficiency	flow @ rated engine RPM: efficiency 18.4 gpm (69.7 L/min)		
Loader control valve: Type 3 spool/op Relief pressure	en center/series - series 3,050 psi (210 bar)		
Port relief pressures: Loader raise Bucket curl Bucket dump	3,263 psi (225 bar) 3,770 psi (260 bar) 1,160 psi (80 bar)		
Hydraulic lines: Tubing Loop hoses	37° JIC Flare SAE 100 R19		
Hydraulic oil cooler: Number of fins 1 Number of tube rows > Area	0 per inch (3.94 per cm) columns 9 x 1 130.7 in² (843.2 cm²)		
Hydraulic filter	Beta (4) = 75/spin-on		
Lift cylinders: Bore diameter Rod diameter Stroke Closed length	2.25 in (57.2 mm) 1.38 in (34.9 mm) 25.40 in (645.0 mm) 38.94 in (989.0 mm)		
Bucket cylinders: Bore diameter Rod diameter Stroke Closed length	2.50 in (63.5 mm) 1.38 in (35.0 mm) 14.57 in (370.1 mm) 23.38 in (594.0 mm)		



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

DIMENSIONS	
A. Overall operating height:	
with foundry/excavating bucket with low profile bucket	141.4 in (3.59 m) 146.9 in (3.73 m)
with low profile extended bucket	140.9 m (3.73 m) 152.0 in (3.86 m)
Height to:	132.0 11 (0.00 11)
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)

Width	Weight	Heaped Capacity
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)
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)
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)
72 in (1.83 m)	475 lb (216 kg)	23.3 ft ³ (0.66 m ³)
72 in (1.83 m)	480 lb (218 kg)	19.1 ft ³ (0.54 m ³)
72 in (1.83 m)	510 lb (230 kg)	14.1 ft ³ (0.40 m ³)
72 in (1.83 m)	667 lb (303 kg)	17.4 ft ³ (0.49 m ³)
	60 in (1.52 m) 66 in (1.68 m) 72 in (1.83 m) 66 in (1.68 m) 72 in (1.83 m) 60 in (1.52 m) 66 in (1.68 m) 72 in (1.83 m) 72 in (1.83 m) 72 in (1.83 m) 72 in (1.83 m)	60 in (1.52 m) 300 lb (138 kg) 66 in (1.68 m) 385 lb (175 kg) 72 in (1.83 m) 420 lb (190 kg) 66 in (1.68 m) 440 lb (200 kg) 72 in (1.83 m) 480 lb (218 kg) 60 in (1.52 m) 400 lb (182 kg) 66 in (1.68 m) 470 lb (214 kg) 72 in (1.83 m) 510 lb (232 kg) 72 in (1.83 m) 480 lb (218 kg) 72 in (1.83 m) 480 lb (218 kg) 72 in (1.83 m) 510 lb (230 kg) 72 in (1.83 m) 510 lb (230 kg)

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

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

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 ingression sealing Mounting points for add-on counterweights

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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