



ENGINE

Model	ISM N844LT-D-ROW
Emissions Certification	Tier 3
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	In-line strainer
Oil filtration	Replaceable, full-flow spin-on cartridge
Air intake	Turbocharged w/ Internal EGR
Cooling	Liquid
Engine speeds	RPM
High idle – no load	3140 +/- 40
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	126 lb-ft (171 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	15.2 gpm (57.7 L/min)
Engine lubrication pump	Pressure feed w/ Trichoid pump and plate cooler
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	25.9 gpm (98 L/min)
Flow	Bi-directional
Charge pressure	360 psi (25 bar)
System relief pressure	5,000 psi (345 bar)

Drive pump controls	Electro-hydraulic
Pump to engine ratio	1:1
Displacement	2.14 in ³ (35 cm ³)
Flow @ rated engine RPM:	
@ 97% efficiency	25.4 gpm (96 L/min)
Flow	Bi-directional
Charge pressure	363 psi (25 bar)
System relief pressure	5,220 psi (360 bar)

Drive motors:	
Max. displacement	19.83 in ³ (325 cm ³)
Speed @ high idle engine RPM	
97% efficiency @ rated engine RPM	313
Torque @ max. displacement and relief pressure – calculated @ 5,000 psi (345 bar):	1,316 lb-ft (1 784 N-m)

Travel speed	7.9 mph (12.7 kph)
Final drive	Hydrostatic w/ chain Final Drive to wheels

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

Axles:	
Torque @ max. displacement and relief pressure	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 throttles; Alarm package – back-up and horn; 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:	5,370 lb (2 430 kg)
Shipping weight	5,070 lb (2 300 kg)

Add-on weights:

Side cab glass	47.70 lb (21.3 kg)
Lexan® cab door	74.0 lb (33.6 kg)
Glass cab door w/ wiper	134.0 lb (60.8 kg)
Suspension seat	22.0 lb (10.0 kg)

HYDRAULICS

Standard equipment pump type	Gear
Displacement:	
Standard aux.	1.24 in ³ (20.4 cm ³)
Standard flow @ rated engine RPM: @ 100% efficiency	15.6 gpm (59 L/min)

Loader control valve:

Type	3 spool/open center/series – series
Relief pressure	3,000 psi (207 bar)

Port relief pressures:

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

Hydraulic lines:

Tubing	37° JIC Flare
Loop hoses	SAE 100 R13

Hydraulic oil cooler:

Number of fins	10 per inch (3.94 per cm)
Number of tube rows x columns	9 x 1
Area	136.5 in ² (880.6 cm ²)

Hydraulic filter	6 micron/Spin-on
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HYDRAULICS CONT.

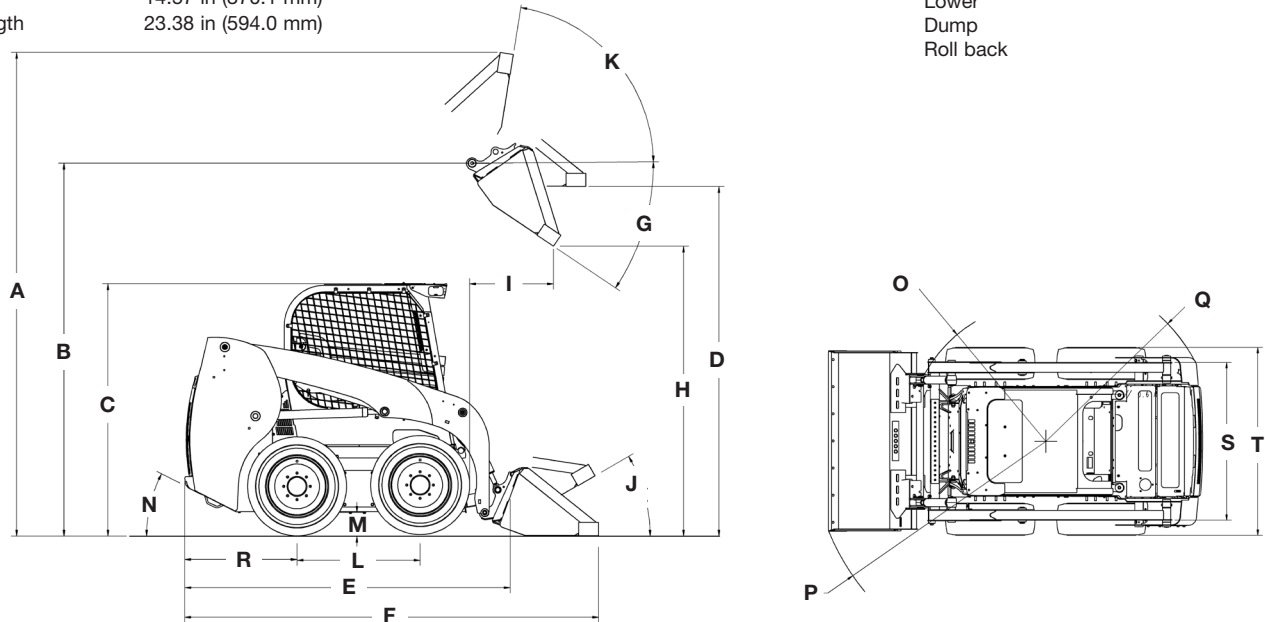
Lift cylinders:	
Bore diameter	2.25 in (57.2 mm)
Rod diameter	1.38 in (34.9 mm)
Stroke	25.39 in (645.0 mm)
Closed length	38.93 in (989.0 mm)
Bucket cylinders:	
Bore diameter	2.25 in (57.2 mm)
Rod diameter	1.25 in (31.8 mm)
Stroke	14.57 in (370.1 mm)
Closed length	23.38 in (594.0 mm)

SERVICE CAPACITIES

Fuel tank	16.0 gal (60.5 L)
Engine oil w/ filter	2.8 gal (10.5 L)
Hydraulic system:	
Reservoir	4.0 gal (15.13 L)
Chain tanks – per side	1.7 gal (6.25 L)

PERFORMANCE SPECS

Rated operating load:	
50% of tipping load	1,500 lb (680 kg)
Tipping load	3,000 lb (1 360 kg)
Breakout forces:	
Bucket cylinder	4,180 lb (18.6 kN)
Lift cylinder – tip limit	3,160 lb (14.1 kN)
Cycle times:	
Raise	3.5 sec
Lower	2.2 sec
Dump	2.0 sec
Roll back	1.4 sec



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

DIMENSIONS

A. Overall operating height:	
with foundry/excavating bucket short lip	141.4 in (3.59 m)
with low profile/standard lip bucket	146.9 in (3.73 m)
with low profile extended/long lip bucket	152.0 in (3.86 m)
Height to:	
B. Bucket hinge pin	112.0 in (2.84 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. Dump angle	40.2°
H. Dump height:	
with foundry/excavating bucket short lip	88.4 in (2.25 m)
with low profile bucket	84.8 in (2.15 m)
with low profile extended bucket	81.6 in (2.07 m)
I. Dump reach at maximum height with low profile bucket	18.5 in (0.47 m)
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) low profile bucket on ground	78.5 in (1.99 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 width with spec tires	49.2 in (1.25 m)
T. Over the tire width with spec tires	59.8 in (1.52 m)

TIRE SELECTION

Type	Size	Tread Gauge	Width Over Tires	Tire Weight
Heavy-Duty	10 x 16.5	49 in (1.25 m)	59 in (1.52 m)	—
Premium	10 x 16.5	49 in (1.25 m)	59 in (1.52 m)	—
Premium-Lined	10 x 16.5	49 in (1.25 m)	59 in (1.52 m)	—
Premium	27 x 15	—	—	—

OPTIONAL BUCKETS

Type	Width	Weight	Heaped Capacity
Dirt & Foundry	60 in (1.5 m)	300 lb (138 kg)	11.3 ft ³ (0.33 m ³)
	66 in (1.6 m)	440 lb (200 kg)	14.8 ft ³ (0.42 m ³)
	72 in (1.8 m)	420 lb (190 kg)	16.2 ft ³ (0.46 m ³)
Low Profile	60 in (1.5 m)	375 lb (170 kg)	12.0 ft ³ (0.34 m ³)
	66 in (1.6 m)	440 lb (200 kg)	13.4 ft ³ (0.38 m ³)
	72 in (1.8 m)	480 lb (218 kg)	14.8 ft ³ (0.42 m ³)
Low Profile Extended	60 in (1.5 m)	400 lb (182 kg)	14.1 ft ³ (0.40 m ³)
	66 in (1.6 m)	470 lb (214 kg)	15.9 ft ³ (0.45 m ³)
	72 in (1.8 m)	510 lb (232 kg)	17.7 ft ³ (0.50 m ³)
Light Material	60 in (1.5 m)	375 lb (170 kg)	19.4 ft ³ (0.55 m ³)
	72 in (1.8 m)	475 lb (216 kg)	23.3 ft ³ (0.66 m ³)
Manure & Slurry	60 in (1.5 m)	370 lb (168 kg)	15.9 ft ³ (0.45 m ³)
	72 in (1.8 m)	480 lb (218 kg)	19.1 ft ³ (0.54 m ³)
Heavy-Duty	66 in (1.6 m)	450 lb (205 kg)	13.1 ft ³ (0.37 m ³)
	72 in (1.8 m)	510 lb (230 kg)	14.1 ft ³ (0.41 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

ISM N844LT-D-ROW diesel
135.2 CID (2.216 L) Turbocharged
Tier 3 Certified
Spark arresting muffler
Indirect fuel injection
Horsepower:
Gross: 60 hp (44.7 kW)
Net: 57 hp (42.4 kW)
Peak torque: 126 lb-ft (171 N-m)
120 amp alternator
Dual element air cleaner
Fuel tank - 16 gal (U.S.)
Over and under radiator and oil cooler
Glow plugs
Integral engine oil cooler
Fuel filter with water trap
925 CCA 12V battery

DRIVETRAIN

Hydrostatic four wheel drive
ASA #80HS drive chain
SAHR disc parking brake
Servo controls

HYDRAULICS

Auxiliary hydraulics:
@ 3,050 psi (210 bar) – 19.5 gpm (73.8 L/min)
6 micron oil filtration system
3-spool loader control valve
Loader arm-mounted ISO flat face connectors
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

Mechanical attachment coupler
Radial lift geometry
Loader lift arm support strut
SAE operating load: 1,500 lbs
Tipping load: 3,000 lbs

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood
Lockable service access hood
Single-point daily service
Rear tail lights
Remote oil drain
Deluxe instrument panel
Options harness
Mounting points for add-on counterweights

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Vinyl suspension seat
Deluxe cloth suspension seat with heater
and lumbar support
Radio
Heat
Demo door
Glass front door with wiper & washer
Sliding side windows

ENGINE

Coolant block heater

HYDRAULICS

Hydraulic one-way self-leveling
Ride control

LOADER

EH controls
Attachment case drain plumbing

OTHER

Language decals
Factory-installed tires – see page 3
Buckets – see page 3
Bolt-on bucket cutting edges
Special paint
Lift hooks
Battery disconnect switch
Steel tracks

FACTORY SUPPLIED ATTACHMENTS

Interior mirror
Road lights
Rotating beacon
42 in (1.07 m) and 48 in (1.22 m) pallet forks

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

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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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