

SR160

SKID STEER LOADER TIER 4 FINAL CERTIFIED

ENGINE

Model	ISM N844LT-F
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 EGR
Fulcation of the state of the s	
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	1 – 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 Rows of tubes x colum	2.77 ft ² (0.257 m ²) ns 43 x 3
Cap pressure	16 +/- 2 psi
oup prossure	(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 rat	
Side to side	35°
Bucket up Bucket down	35° 35°
Daonot down	

POWERTRAIN

Direct mechanical
1:1
2.14 in ³ (35 cc)
M:
25.1 gpm (95 L/min)
360 psi (24.5 bar)
5,000 psi (345 bar)
Electro-hydraulic
1:1
2.14 in ³ (35 cc)
M:
25.1 gpm (95 L/min)
362 psi (24.5 bar)
5,220 psi (360 bar)

POWERTRAIN (cont.)

Drive motors:			
Displacement	19.8 in ³ (325 cc)		
Motor RPM @ hig	h idle, 97% efficiency 313		
Max. torque @ 5,0	000 psi (345 bar):		
	1,315 lb·ft (1783 N·m)		
Travel speed	7.4 mph (11.9 kph)		
Final drive	Single-reduction chain drive		
Drive chain:			
Size	ASA #80		
Tensile strength	h 21,000 lb (93.4 kN)		
Axles:			
Torque	4,381 lb·ft (5940 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

Alternat	or 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; Tilt ROPS/FOPS; Rear window w/ emergency escape; Instrument panel w/: hour meter, tachometer, fuel level, hydraulic oil temperature, engine coolant temperature, diagnostic features and security lockout; Non-suspension vinyl seat; 2 in (51 mm) retractable lap seat belt; Hand and foot throttles; Alarm package – back-up and horn; Headliner; Dome light; Top window; Cup holder; 12-volt power plug socket; Foot rest; Storage tray; Low effort ergonomic hand controls; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Floor cleanout panel; Proportional auxiliary hydraulic control – on joystick.

Indicators:

Digital hourmeter; Fuel level LCD bar graph w/ alarm.

Warning lights w/ alarms:

Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature.

Warning alarms:

Battery voltage – plus display

Indicator light:

Engine preheat; Parking brake;

Seat bar reminder.

OPERATING WEIGHT

Operating weight	5,510 lb (2505 kg)
Shipping weight	5,210 lb (2370 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 cc)
Standard flow @ rated	engine RPM:
@ 100% efficiency	18.4 gpm (69.7 L/min)
Loader control valve:	
Type 3 spool/o	pen 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 row	s x columns 9 x 1
	100 - 1 0 (0 10 0 0)

Number of fins Number of tube ro	10 per inch (3.94 per cm) ws x columns 9 x 1
Area	130.7 in ² (843.2 cm ²)
Hydraulic filter	Beta (4) = 75/spin-on
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)

1.38 in (35.0 mm)

14.57 in (370.1 mm)

23.38 in (594.0 mm)

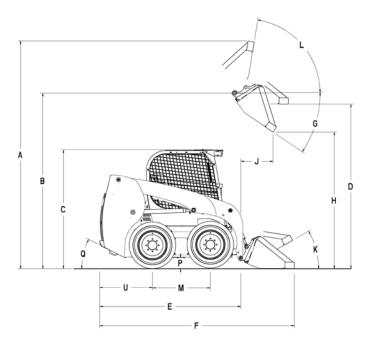
SERVICE CAPACITY

Rod diameter

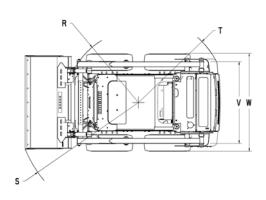
Closed length

Stroke

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 (6.25 L)



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



PERFORMANCE SPECS

Rated operating capacity – ROC*:	
50% of tipping load	1,600 lb (726 kg)
with additional counterweight	1,700 lb (771 kg)
Tipping load*	3,200 lb (1455 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	3.0 sec
Lower	1.9 sec
Dump	2.1 sec
Roll back	1.5 sec

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

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		-	w	

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)
Heig	ght 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)
Ove	rall 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°
Н.	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°
J.	Dump reach at maximum height with low profile bucket	22.7 in (0.58 m) @ 40.2°
Max	ximum attachment rollback:	
K.	Bucket on ground	26.1°
L.	Bucket at full height	95.2°
М.	Wheelbase	37.0 in (0.94 m)
P.	Ground clearance – bottom of belly pan	7.0 in (0.18 m)
Q.	Angle of departure	
Clea	arance circle:	
R.	without bucket	48.7 in (1.24 m)
S.	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)
T.	Clearance circle rear	56.4 in (1.43 m)
U.	Rear axle to bumper	33.8 in (0.86 m)
V.	Tread gage with spec tires	49.2 in (1.25 m)
W.	Over the tire width with spec tires	59.0 in (1.50 m)

TIRE SELECTION

Туре	Size	Ply Rating	Tread Depth	Tire Width	Tread Gage	Over Tires Width	Tire Weight
		riating	Бери				
Heavy-Duty	10 L x 16.5				49.2 in (1.25 m)	59.0 in (1.50 m)	87 lb (39.5 kg)
Premium	10 L x 16.5	_	_	_	49.2 in (1.25 m)	59.0 in (1.50 m)	96 lb (44.0 kg)
Premium-Lined	10 L x 16.5	_	_	_	49.2 in (1.25 m)	59.0 in (1.50 m)	63 lb (28.5 kg)
Non-Pneumatic – Solid	10 L x 16.5	_	_	_	51.0 in (1.29 m)	61.0 in (1.55 m)	229 lb (104.0 kg)
Premium	27 L x 10.5-15	_	_	_	_	64.0 in (1.63 m)	69 lb (31.0 kg)

OPTIONAL BUCKETS

Туре	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	60 in (1.52 m)	375 lb (170 kg)	12.0 ft ³ (0.34 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)
Low Profile	60 in (1.52 m)	400 lb (182 kg)	14.1 ft ³ (0.40 m ³)
Extended	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	60 in (1.52 m)	375 lb (170 kg)	19.4 ft ³ (0.55 m ³)
	72 in (1.83 m)	475 lb (216 kg)	23.3 ft ³ (0.66 m ³)
Manure & Slurry	60 in (1.52 m)	370 lb (168 kg)	15.9 ft ³ (0.45 m ³)
	72 in (1.83 m)	480 lb (218 kg)	19.1 ft ³ (0.54 m ³)
Heavy-Duty	66 in (1.68 m)	450 lb (205 kg)	13.1 ft ³ (0.37 m ³)
	72 in (1.83 m)	510 lb (230 kg)	14.1 ft ³ (0.40 m ³)
Heavy-Duty	66 in (1.68 m)	520 lb (235 kg)	16.6 ft ³ (0.47 m ³)
with spillguard	72 in (1.83 m)	585 lb (265 kg)	18.4 ft ³ (0.52 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

ISM N844LT-F Tier 4 diesel

Over & under radiator and oil cooler

Glow plugs

Integral engine oil cooling

Fuel filter with water trap

Dual element air cleaner

120 amp alternator

925 CCA 12-volt battery

Master electrical disconnect

POWERTRAIN

1-speed hydrostatic four wheel drive

Servo-assist mechanically-controlled pumps

ASA #80HS drive chain

SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics:

@ 3,050 psi (210 bar) - 18.4 gpm (69.7 L/min)

Auxiliary hydraulic disconnects, ISO flat-face – connect-under-pressure with case drain

Hydraulic circuit pedal lock

Loader arm-mounted ISO flat-face connectors

Auxiliary function lockout override

Loader function lockout system

Loader lift lockout override

3-spool loader control valve

Heavy-duty oil cooler

Loader arm float position

LOADER

Radial loader arm design

Mechanical attachment coupler

Loader lift arm support strut

OTHER

Machine protection auto shutdown

Mounting points for add-on counterweights

Halogen lights:

2 front

2 side

2 rear flood

Rear tail lights

Lockable service access hood

Single-point daily servicing

Pre-wired for rotating beacon

Remote oil drain

Remote oil and fuel filters

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Enclosed cab:

Fully sealed and pressurized – FSP Glass door with wiper and washer

Sliding side windows - removable

3-point seat belt – 2 in (51 mm) width

Ventilation system with integrated heater AM/FM radio with 2 speakers

Keyless start ignition

Electro-hydraulic controls:

For drive/steering, loader functions Switchable between H and ISO patterns Adjustable sensitivity of controls

Vinyl mechanical suspension seat

Deluxe cloth, air suspension seat, with heater and lumbar support

Interior mirror

3 inch (76.2 mm) retractable seat belt

Heater

Open cab interior trim package

Demolition cab door with polycarbonate

FOPS level 2

ENGINE

Coolant block heater

HYDRAULICS

Second auxiliary hydraulics

LOADER

Auxiliary front electric control

Ride control

Hydraulic attachment coupler

Hydraulic one-way self-leveling

OTHER

Add-on counterweights

Road lights

Rotating beacon

Four-corner LED strobe

Lift points - four-point or single-point

Language decals

Factory-installed tires - see page 3

Buckets - see page 3

Bolt-on bucket cutting edges

Bolt-on heavy-duty bucket spill guard

Bolt-on heavy-duty bucket teeth - field kit

42 in (1.07 m) and 48 in (1.22 m) pallet forks

Rear door guard insert

Special paint

Hydraulic attachment coupler

Debris reduction seal package

Steel tire tracks

CASE Customer 866-54-CASE6

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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