

SR130

SKID STEER LOADER

TIER 4 FINAL CERTIFIED



Water pump:

Side to side

Bucket Down

Bucket up

Engine lubrication pump

Pump operating angle ratings:

Style

ENGINE	
Model	ISM N844L-F
Emissions Certification	Tier 4 Final
Type Diesel 4-strok	ke, naturally aspirated
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
Air intake Natural	ly aspirated w/o 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 -	- SAE J1349:
Gross Net	48.8 hp (36.4 kW) 45.8 hp (34.1 kW)
Peak torque @ 1800 RPM	105.5 lb·ft (143 N·m)
Radiator: Core type Core size area Rows of tubes x columns Cap pressure	All aluminum 2.77 ft² (0.257 m²) 43 x 3 16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan: Diameter Ratio	17.7 in (450 mm) 0.89:1

LIFT GEOMETRY

Radial Lift

DRIVETRAIN

Drive pump controls Pump to engine ratio Displacement Flow @ rated engine R @ 97% efficiency Charge pressure System relief pressure	Direct mechanical 1:1 2.14 in³ (35 cm³) PM: 25.1 gpm (95 L/min) 360 psi (24.5 bar) 5,000 psi (345 bar)
Drive pump controls Pump to engine ratio Displacement	Electro-hydraulic 1:1 2.14 in ³ (35 cm ³)
Flow @ rated engine R @ 97% efficiency Charge pressure System relief pressure	25.1 gpm (95 L/min) 362 psi (24.5 bar) 5,220 psi (360 bar)
Drive motors: Displacement Motor RPM @ high idle Max. torque @ 5,000 p	19.8 in ³ (325 cm ³) and 97% efficiency 313 si (345 bar): 1,315 lb·ft (1 783 N·m)
Travel speed	7.4 mph (11.9 kph)
Final drive Sing	gle-reduction chain drive
Drive chain: Size Tensile strength	ASA #80 21,000 lb (93.4 kN)
Axles: Torque Diameter Length	4,381 lb·ft (5 940 N·m) 2.0 in (50.8 mm) 13.2 in (346.0 mm)
Parking brake: Type	Spring-applied, hydraulic release multiple disc.

ELECTRICAL

Centrifugal

35°

35°

35°

Pressure feed

w/ Trichoid pump

19.0 gpm (71.9 L/min)

Engagement

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

raise seat bar, get off seat or stop engine.

Depress on/off brake button on handle or instrument panel,

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; 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: 5,070 lb (2 300 kg) Shipping weight 4,770 lb (2 160 kg) Add-on weights: Side cab glass 47 lb (21.3 kg) Polycarbonate cab door 74 lb (33.6 kg) 134 lb (60.8 kg) Glass cab door w/ wiper Suspension seat 22 lb (10.0 kg) Additional counterweight 168 lb (76.2 kg)

HYDRAULICS

Rod diameter

Closed length

Stroke

Implement pump type	Gear	
Displacement	1.45 in ³ (23.8 cm ³)	
Standard flow @ rated engine RPM: @ 100% efficiency 17.5 gpm (66.2 L/m		
Loader control valve: Type 3 spool/open center/series - seri Relief pressure 3,050 psi (210 b		
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 10 per inch (3.94 per c Number of tube rows x columns 9 x Area 130.7 in² (843.2 cr		
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	2.25 in (57.2 mm)	

1.25 in (31.7 mm)

14.57 in (370.1 mm)

23.38 in (594.0 mm)

SERVICE CAPACITIES	1
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)

DED	$rac{1}{2}$	RAAA	\sim \sim	ODEA
PER	FUR	11//// * * * * * * * * * * * * * * * * *		

Rated operating capacity – ROC*:
50% of tipping load 1,300 lb (590 kg)
w/ additional counterweight 1,400 lb (635 kg)

Tipping load* 2,600 lb (1 179 kg)

Breakout forces @ 3,150 psi (217 bar)*:
Bucket cylinders 4,180 lb (18.6 kN)

Lift cylinders – tip limit 2,850 lb (12.7 kN)

Cycle times:

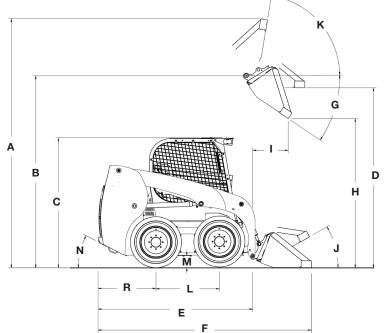
 Raise
 3.2 sec

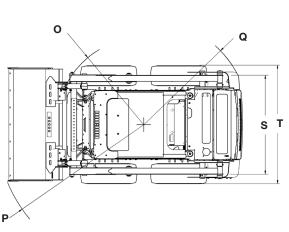
 Lower
 2.0 sec

 Dump
 1.8 sec

 Roll back
 1.3 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 with low profile bucket with low profile extended bucket	141.4 in (3.59 m) 146.9 in (3.73 m) 152.0 in (3.86 m)
Height to: B. Bucket hinge pin C. Top of ROPS D. Bottom of level bucket, fully raised	112.0 in (2.85 m) 75.5 in (1.92 m) 105.6 in (2.68 m)
Overall length: E. without attachment with coupler F. with foundry/excavating bucket on ground with low profile bucket with low profile extended bucket	95.9 in (2.44 m) 119.2 in (3.03 m) 125.0 in (3.18 m) 129.8 in (3.30 m)
G. Maximum dump angle H. Dump height: with foundry/excavating bucket with low profile bucket	40.2° 88.4 in (2.25 m) @ 40.2° 84.8 in (2.15 m) @ 40.2°
Dump reach at maximum height with low profile bucket	22.7 in (0.58 m) @ 40.2°
Maximum attachment rollback: J. Bucket on ground K. Bucket at full height	26.1° 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 P. with 60 in (1.52 m) foundry/excavating bucket in carry position with 60 in (1.52 m) low profile bucket on ground with 60 in (1.52 m) extended low profile on ground	48.7 in (1.24 m) 73.3 in (1.86 m) 78.5 in (1.99 m) 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 tires	49.2 in (1.25 m)
T. Over the tire width spec tires	59.0 in (1.50 m)

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TIRE SELECTION					
Туре	Size	Tread Gauge	Over Tires Width	Each Tire Weight*	
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)	64.0 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)	

NOTE: *Tire weight does not include the wheel weight.

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 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	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 with spillguard	66 in (1.68 m)	520 lb (235 kg)	16.6 ft ³ (0.47 m ³)
	72 in (1.83 m)	585 lb (265 kg)	18.4 ft ³ (0.52 m ³)

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STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

ISM N844L-F diesel

135.2 CID (2.2 L) Naturally Aspirated

Tier 4 Final Certified

Spark Arresting Diesel Particulate Filter

(DPF) muffler

Charged Air Cooler (CAC)

Indirect fuel injection

Horsepower:

Gross: 48.8 hp (36.4 kW) Net: 45.8 hp (34.1 kW)

Peak torque: 105.5 lb·ft (143 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) - 17.5 gpm (66.2 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 SAE operating load: 1,300 lbs

Tipping load: 2,600 lbs

TIRES

10 X 16.5 Heavy duty

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood

Heavy duty front lights

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

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Enclosed cab:

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

Sliding side windows - removable Ventilation system with integrated heater

AM/FM radio with 2 speakers

Keyless start ignition

Control lockout system

Electro-hydraulic controls:

For drive/steering, loader functions Switchable between H and ISO patterns

Adjustable sensitivity of controls

Mechanical hand controls

Hand and foot controls:

Hand controls the loader drive function and foot controls the bucket and boom

Non suspension seat

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

Open cab interior trim package

Demolition cab door with polycarbonate

FOPS level 2

HYDRAULICS

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

LOADER

Auxiliary front electric control Hydraulic attachment coupler

OTHER

Language decals

Factory-installed tires - see page 3

Buckets - see page 3

Bolt-on bucket cutting edges

Bolt-on heavy-duty bucket spill guard

Special paint

Offsite service arrangement

Telematics

FACTORY SUPPLIED ATTACHMENTS

Interior mirror

Add-on counterweights

Road lights

Rotating beacon

Four-corner LED strobe

Bolt-on heavy-duty bucket teeth

48 in (1.22 m) pallet forks

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

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