

R130

SKID STEER LOADER

TIER 3



M	G	И.	٧.	ΙΞ

Flow

Side to side

Bucket Down

Bucket up

Engine lubrication pump

Pump operating angle ratings:

Model	ISM N844L-D-ROW
Emissions Certification	Tier 3
Type Diesel 4-strok	e, 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	In-line strainer
Oil filtration	Replaceable,
full-f	low spin-on cartridge
Air intake	Naturally aspirated
Cooling	Liquid
Engine speeds High idle – no load Rated – full load Low idle	RPM 3140 +/- 40 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
Water pump: Style	Centrifugal

15.2 gpm (57.7 L/min)

Pressure feed w/ Trichoid pump

35°

35°

35°

LIFT GEOMETRY

Radial Lift

Drive pump controls

Pump to engine ratio	1:1		
Displacement	2.14 in ³ (35 cm ³)		
Flow @ rated engine RPI	M:		
@ 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 RPI	M:		
@ 97% efficiency	25.4 gpm (96 L/min)		
Flow	Bi-directional		
Charge pressure	363 psi (25 bar)		
System relief pressure	pressure 5,220 psi (360 bar)		
Drive motors:			
Max. displacement	19.83 in ³ (325 cm ³)		
Speed @ high idle engine	e RPM		
97% efficiency @ rate	d engine RPM 313		
Torque @ max. displacer	ment 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 Hyd	drostatic w/ chain Final		
	Drive to wheels		
Drive chain:			

Direct mechanical

Size Tensile strength Axles:

Torque @ max. displacement and relief pressure 4,381 lb·ft (5 940 N·m) Diameter 2.0 in (50.8 mm) 13.2 in (346.0 mm) Length

Parking brake:

Spring-applied, hydraulic Type 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	2.68 hp (2.0 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: 5,070 lb (2 300 kg) 4,770 lb (2 160 kg) Shipping weight Add-on weights: Side cab glass 47 lb (21.3 kg) Lexan® cab door 74 lb (33.6 kg) Glass cab door w/ wiper 134 lb (60.8 kg) Suspension seat 22 lb (10.0 kg)

HYDRAULICS

ASA #80

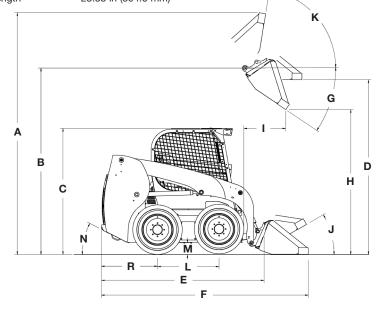
21,000 lb (93.4 kN)

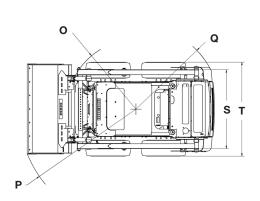
Standard equipment pump type	
Displacement:	
Standard aux.	1.24 in ³ (20.4 cm ³)
Standard flow @ rated en	gine RPM:
@ 100% efficiency	15.6 gpm (59 L/min)
Loader control valve:	
Type 3 spool/ope	n center/series - series
Relief pressure	3,000 psi (207 bar)
Port relief pressures:	
Loader raise	3,263 psi (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

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 (31.7 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	1,300 lb (590 kg)
Tipping load	2,600 lb (1 179 kg)
Breakout forces: Bucket cylinder Lift cylinder – tip limit	4,180 lb (18.6 kN) 2,850 lb (12.7 kN)
Cycle times: Raise Lower Dump Roll back	3.5 sec 2.2 sec 2.0 sec 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 with low profile/standard lip bucket with low profile extended/long lip bucket	141.4 in (3.59 m) 146.9 in (3.73 m) 152.0 in (3.86 m)
Height to:	132.0 111 (3.00 111)
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. Dump angle	40.2°
H. Dump height: with foundry/excavating bucket short lip with low profile bucket with low profile extended bucket	88.4 in (2.25 m) 84.8 in (2.15 m) 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 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 width with spec tires	49.2 in (1.25 m)
T. Over the tire width with spec tires	59.8 in (1.52 m)
SR130	2 of 4

R130 2 of 4

TIRE SELECTION				,
Туре	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			
Туре	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 (0.40 m ³)

SR130 3 of 4

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

ISM N844L-D-ROW diesel 135.2 CID (2.216 L) Naturally Aspirated

Tier 3 Certified Spark arresting muffler

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 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: @ 3,000 psi (207 bar) - 15.6 gpm (59 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

Mechanical attachment coupler Radial lift geometry Loader lift arm support strut SAE operating load: 1,300 lbs Tipping load: 2,600 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 function lockout system

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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SR130 4 of 4