

SR175B

SKID STEER LOADER

TIER 4 FINAL CERTIFIED



ENGINE

Side to side

Bucket Down

Bucket up

ENGINE	
Model Perkins/	ISM N4LDI-TA-50SL-01
Emissions Certification	Tier 4 Final
Type Die	esel 4-stroke, Turbo. D.I.
Cylinders	4
Bore/Stroke	3.31 x 3.94 in (84 x 100 mm)
Displacement	135.2 in ³ (2.2 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	#2 Diesel
Main filter Air intake Turbo	Beta (30) = 200/spin-on Beta (4) = 20/spin-on ocharged w/ waste gate
Exhaust aftertreatment	Diesel Oxidation Catalyst – DOC
Cooling	Liquid
Engine speeds High idle – no load Rated – full load Low idle	RPM 2825 +/- 25 2800 1200 +/- 50
Horsepower @ 2800 RPN Gross Net	M – SAE J1349: 67 hp (50.0 kW) 64 hp (47.7 kW)
Peak torque @ 1800 RPN	M 153 lb·ft (208 N·m)
Radiator: Core type Core size area Rows of tubes x column Cap pressure	All aluminum 2.05 ft² (0.191 m²) ns 31 x 4 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 ra	utings:

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 RP	M:
@ 97% efficiency	25.1 gpm (95 L/min)
Charge pressure	360 psi (24.5 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 RP	,
@ 97% efficiency	25.1 gpm (95 L/min)
Charge pressure	362 psi (24.5 bar)
System relief pressure	5,220 psi (360 bar)
Drive motors:	
Max. displacement	19.8 in ³ (325 cm ³)
Displacement:	(020 0111)
High speed	12.2 in ³ (200 cm ³)
Motor RPM @ high idle	and 97% efficiency:
2-speed	443
Motor torque @ max. dis	splacement and relief
pressure, calculated	
	1,315 lb·ft (1 783 N·m)
Travel speed:	
Low range	7.4 mph (11.9 kph)
High range	10.8 mph (17.4 kph)
	e-reduction chain drive
	c readonorr oriain arrec
Drive chain: Size	ASA #80
Tensile strength	21,000 lb (93.4 kN)
	21,000 ID (93.4 KIN)
Axles:	
Torque @ max. displace	
relief pressure	4,381 lb·ft (5 940 N·m)
Diameter	2.0 in (50.8 mm)
Length	15.1 in (384.0 mm)
Parking brake:	
Type Sp	oring-applied, hydraulic
	release multiple disc.
0 0	ess on/off brake button
	dle or instrument panel,
raise seat bar, get	off seat or stop engine.
ELECTRICAL	

Alternator

35°

35°

35°

Alternator	120 amp
Starter	2.68 hp (2.0 kW)
Battery	12-volt low-maintenance
925 cold-cran	king amps @ 0° F (-18° C°)

120 amn

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.

Warning alarms:

Battery voltage - plus display; Oil service.

Indicator light:

Hydraulic filter

Engine preheat; Parking brake; Seat bar reminder.

OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 66 in Dirt & Foundry bucket; full of fuel; 10 x 16.5 tires: 6,270 lb (2 842 kg) 5,970 lb (2 705 kg) Shipping weight 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 22 lb (10.0 kg) Suspension seat 140 lb (63.5 kg) Additional counterweight

HYDRAULICS	
Implement pump type	Gear
Displacement: Standard aux. High-flow aux.	1.7 in ³ (27.8 cm ³) 0.84 in ³ (13.8 cm ³)
Standard flow @ rated e @ 100% efficiency	engine RPM: 20.6 gpm (78.0 L/min)
Optional high-flow @ rat @ 100% efficiency	0
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 Number of tube rows of the	10 per inch (3.94 per cm) c columns 9 x 1 130.7 in² (843.2 cm²)

Beta (4) = 75/spin-on

HYDRAULICS CONT.	
Lift cylinders:	
Bore diameter	2.25 in (57.2 mm)
Rod diameter	1.50 in (38.1 mm)
Stroke	31.69 in (804.9 mm)
Closed length	45.59 in (1 158 mm)
Bucket cylinders:	
Bore diameter	2.75 in (69.9 mm)
Rod diameter	1.38 in (34.9 mm)
Stroke	16.14 in (410 mm)
Closed length	24.02 in (610 mm)

SERVICE CAPACITIES	
Fuel tank	19.5 gal (73.8 L)
Engine oil w/ filter	7.5 qt (7.1 L)
Hydraulic system:	
Reservoir	5.0 gal (18.9 L)
Total	8.5 gal (32.2 L)
Chain tanks - per side	1.95 gal (7.4 L)

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12211	10/15/11///		SPEC	٠

Rated operating capacity – ROC*:		
50% of tipping load	1,750 lb (790 kg)	
w/ additional counterweight	1,850 lb (839 kg)	
Tipping load*	3,500 lb (1 588 kg)	

Breakout forces @ 3,150 psi (217 bar)*:

Bucket cylinders 7,270 lb (32.3 kN)
Lift cylinders – tip limit 3,810 lb (16.9 kN)

Cycle times:

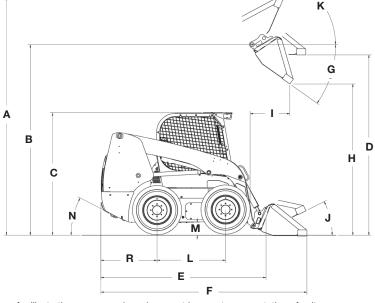
 Raise
 3.4 sec

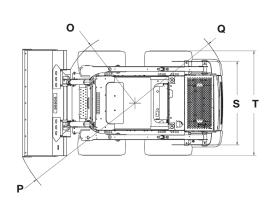
 Lower
 1.9 sec

 Dump
 2.6 sec

 Roll back
 1.9 sec

NOTE: *Measured using 66 in (1.68 m) foundry/ excavating bucket.





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

DITETURA (A) A	
DIMENSIONS	
A. Overall operating height:	450.41.70.00
with foundry/excavating bucket	153.4 in (3.90 m)
with low profile bucket with low profile extended bucket	157.3 in (4.00 m) 162.2 in (4.12 m)
· · · · · · · · · · · · · · · · · · ·	102.2 111 (4.12 111)
Height to: B. Bucket hinge pin	122.0 in (3.10 m)
C. Top of ROPS	77.7 in (1.97 m)
D. Bottom of level bucket, fully raised	115.2 in (2.93 m)
Overall length:	,
E. without attachment with coupler	105.7 in (2.69 m)
F. with foundry/excavating bucket on ground	130.1 in (3.31 m)
with low profile bucket	134.3 in (3.41 m)
with low profile extended bucket	139.3 in (3.54 m)
G. Maximum dump angle	39.6°
H. Dump height:	
with foundry/excavating bucket	97.2 in (2.47 m) @ 39.6°
with low profile bucket	94.6 in (2.40 m) @ 39.6°
I. Dump reach at maximum height with low profile bucket	24.4 in (0.62 m) @ 39.6°
Maximum attachment rollback:	
J. Bucket on ground	31.6°
K. Bucket at full height	98.6°
L. Wheelbase	44.4 in (1.13 m)
M. Ground clearance – bottom of belly pan	7.0 in (0.18 m)
N. Angle of departure	23.0°
Clearance circle:	
O. without bucket	52.2 in (1.33 m)
P. with 66 in (1.68 m) foundry/excavating bucket in carry position	79.3 in (2.02 m)
with 66 in (1.68 m) low profile bucket on ground	83.1 in (2.11 m)
with 66 in (1.68 m) extended low profile on ground	87.7 in (2.23 m)
Q. Clearance circle rear	62.9 in (1.60 m)
R. Rear axle to bumper	36.4 in (0.92 m)
S. Tread over gauge with spec lines	53.9 in (1.37 m)
T. Over the tire width spec tires	64.6 in (1.64 m)

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OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	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)
	78 in (1.98 m)	440 lb (200 kg)	17.7 ft ³ (0.50 m ³)
Low Profile	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	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)
	78 in (1.98 m)	540 lb (245 kg)	19.1 ft ³ (0.54 m ³)
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft ³ (0.58 m ³)
Light Material	72 in (1.83 m)	475 lb (216 kg)	23.3 ft ³ (0.66 m ³)
	84 in (2.13 m)	540 lb (245 kg)	27.5 ft ³ (0.78 m ³)
Manure & Slurry	72 in (1.83 m)	480 lb (218 kg)	19.1 ft ³ (0.54 m ³)
Heavy-Duty	72 in (1.83 m)	510 lb (230 kg)	14.1 ft ³ (0.40 m ³)
	78 in (1.98 m)	530 lb (240 kg)	15.5 ft ³ (0.44 m ³)
Heavy-Duty Extended with SmartFit Teeth	72 in (1.83 m)	667 lb (303 kg)	17.4 ft ³ (0.49 m ³)
	78 in (1.98 m)	697 lb (316 kg)	18.9 ft ³ (0.54 m ³)

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STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

Perkins/ISM N4LDI-TA-50SL-01 diesel 135.2 CID (2.2 L) Turbo

Tier 4 Final Certified

Spark Arresting Diesel Oxidation Catalyst (DOC) muffler

Charged Air Cooler (CAC)

High Pressure Common Rail (HPCR) fuel injection

Horsepower:

Gross: 67 hp (50.0 kW) Net: 64 hp (47.7 kW)

Peak torque: 153 lb·ft (208 N·m)

120 amp alternator

Dual element air cleaner

Organic Acid Technology (OAT)

Anti-freeze solution to -34° F

Fuel tank - 20 gal (U.S.)

Over and under radiator and oil cooler

3-stack after cooler/radiator/oil cooler configuration

Glow plugs

Integral engine oil cooler Fuel filter with water trap 925 CCA 12V battery Master electrical disconnect

DRIVETRAIN

2-speed hydrostatic four wheel drive ASA #80 drive chain SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics: @ 3,050 psi (210 bar) - 20.6 gpm (78.0 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

Auxiliary front electric control Manual attachment coupler Radial lift geometry Loader lift arm support strut

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

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Enclosed cab:

Fully sealed and pressurized - FSP Glass door with wiper and washer Sliding side windows - removable Heater and air conditioner AM/FM Bluetooth radio with 2 speakers Keyless start ignition

8 in Color LCD Display

Economy Mode (auto idle shutdown)

Auto Engine Protection Shutdown

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

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

Demolition cab door with polycarbonate FOPS level 2

Ignition Timeout

Machine Settings User Access Levels **Operator Security Codes**

HYDRAULICS

High-flow auxiliary hydraulics - combined: @ 3,050 psi (210 bar) - 30.7 gpm (116.2 L/min)

Second auxiliary hydraulics Hydraulic one-way self-leveling

LOADER

Ride control

Hydraulic attachment coupler

DRIVETRAIN

Creep Speed Mode

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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