



ENGINE			
Model	ISM N844LTA-DI-F-50		
Emissions Certification	Emissions Certification Tier 4 Final		
Type Dies	sel 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	Beta (30) = 200/spin-on Beta (4) = 20/spin-on		
	charged w/ waste gate cooled w/ external EGR		
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 RPM			
Gross Net	67 hp (50.0 kW) 64 hp (47.7 kW)		
Peak torque @ 1800 RPN	1 153 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) as 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 rat Side to side Bucket up Bucket Down	ings: 35° 35° 35°		

LIFT GEOMETRY

Radial Lift

DRIVETRAIN			
Drive pump controls	Direct mechanical		
Pump to engine ratio Displacement	1:1 2.14 in ³ (35 cm ³)		
Flow @ rated engine F			
@ 97% efficiency Charge pressure	25.1 gpm (95 L/min) 360 psi (24.5 bar)		
System relief pressure			
Drive pump controls Pump to engine ratio	Electro-hydraulic 1:1		
Displacement	2.14 in ³ (35 cm ³)		
Flow @ rated engine F @ 97% efficiency	PM: 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 – option	al:		
High speed Motor RPM @ high idle	12.2 in ³ (200 cm ³)		
Standard 1-speed	313		
Optional 2-speed	443 displacement and relief		
•	d @ 5,000 psi (345 bar):		
	1,315 lb·ft (1 783 N·m)		
Travel speed: Low range	7.4 mph (11.9 kph)		
High range – optional	10.8 mph (17.4 kph)		
	gle-reduction chain drive		
Drive chain: Size	ASA #80		
Tensile strength	21,000 lb (93.4 kN)		
Axles:			
Torque @ max. displac 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	Spring-applied, hydraulic		
	release multiple disc.		
00	oress on/off brake button ndle 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 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; 66 in Dirt & Foundry bucket; full of fuel; 10 x 16.5 tires: 6,270 lb (2 842 kg			
Shipping weight	5,970 lb (2 705 kg)		
Add-on weights: Side cab glass Polycarbonate cab door Glass cab door w/ wiper Suspension seat Additional counterweight	47 lb (21.3 kg) 74 lb (33.6 kg) 134 lb (60.8 kg) 22 lb (10.0 kg) 140 lb (63.5 kg)		

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 @ 100% efficiency	engine RPM: 20.6 gpm (78.0 L/min)
Optional high-flow @ ra @ 100% efficiency	0
Loader control valve: Type 3 spool/c Relief pressure	open 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 Area	10 per inch (3.94 per cm) x columns 9 x 1 130.7 in ² (843.2 cm ²)
Hydraulic filter	Beta (4) = 75/spin-on

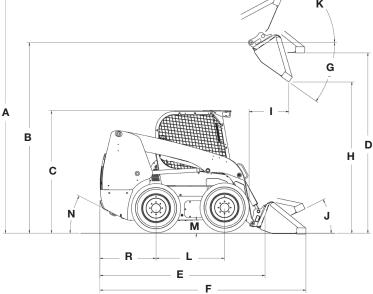
HYDRAULICS CONT.		SE
Lift cylinders:		Fue
Bore diameter	2.25 in (57.2 mm)	Eng
Rod diameter	1.50 in (38.1 mm)	Hyc
Stroke	31.69 in (804.9 mm) 45.59 in (1 158 mm)	Re
Closed length	45.59 III (1 156 IIIII)	To
Bucket cylinders: Bore diameter Rod diameter Stroke	2.75 in (69.9 mm) 1.38 in (34.9 mm) 16.14 in (410 mm)	Cha
Closed length	24.02 in (610 mm)	

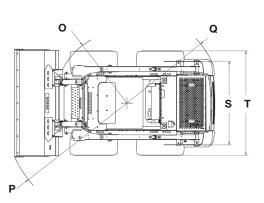
SERVICE CAPACITIES	
Fuel tank	19.5 gal (73.8 L)
Engine oil w/ filter	7.5 qt (7.1 L)
Hydraulic system:	
Reservoir	5.0 gal (18.9 L)
Total	8.5 gal (32.2 L)
Chain tanks – per side	1.95 gal (7.4 L)

PERFORMANCE SPECS

Rated operating capacity – Re 50% of tipping load w/ additional counterweight	1,750 lb (790 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.

DIMENSIONS	
A. Overall operating height: with foundry/excavating bucket with low profile bucket with low profile extended bucket	153.4 in (3.90 m) 157.3 in (4.00 m) 162.2 in (4.12 m)
Height to: B. Bucket hinge pin C. Top of ROPS D. Bottom of level bucket, fully raised	122.0 in (3.10 m) 77.7 in (1.97 m) 115.2 in (2.93 m)
Overall length: E. without attachment with coupler F. with foundry/excavating bucket on ground with low profile bucket with low profile extended bucket	105.7 in (2.69 m) 130.1 in (3.31 m) 134.3 in (3.41 m) 139.8 in (3.54 m)
G. Maximum dump angle H. Dump height: with foundry/excavating bucket	39.6° 97.2 in (2.47 m) @ 39.6°
with low profile bucket I. Dump reach at maximum height with low profile bucket	94.6 in (2.40 m) @ 39.6° 24.4 in (0.62 m) @ 39.6°
Maximum attachment rollback: J. Bucket on ground K. Bucket at full height	31.6° 98.6°
L. Wheelbase	44.4 in (1.13 m)
M. Ground clearance – bottom of belly pan N. Angle of departure	
 Clearance circle: O. without bucket P. with 66 in (1.68 m) foundry/excavating bucket in carry position with 66 in (1.68 m) low profile bucket on ground with 66 in (1.68 m) extended low profile on ground 	50.7 in (1.27 m) 78.4 in (1.99 m) 81.7 in (2.07 m) 86.3 in (2.19 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	64.0 in (1.63 m)

TIRE SELECTION				
Туре	Size	Tread Gauge	Over Tires Width	Each Tire Weight*
Heavy-Duty	10 L x 16.5	53.9 in (1.37 m)	64.0 in (1.63 m)	87 lb (39.5 kg)
Premium	10 L x 16.5	53.9 in (1.37 m)	64.0 in (1.63 m)	96 lb (44.0 kg)
Premium-Lined	10 L x 16.5	53.9 in (1.37 m)	64.0 in (1.63 m)	63 lb (28.5 kg)
Severe-Duty	10 L x 16.5	53.9 in (1.37 m)	64.0 in (1.63 m)	115 lb (52.5 kg)
Non-Pneumatic – Solid	10 L x 16.5	53.9 in (1.37 m)	64.0 in (1.63 m)	229 lb (104.0 kg)
Heavy-Duty	12 L x 16.5	_	70.0 in (1.78 m)	110 lb (50.0 kg)
Premium	12 L x 16.5	_	70.0 in (1.78 m)	120 lb (54.5 kg)
Premium-Lined	12 L x 16.5	_	70.0 in (1.78 m)	120 lb (54.5 kg)

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

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)
	84 in (2.13 m)	545 lb (248 kg)	22.6 ft ³ (0.64 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)
	78 in (1.98 m)	530 lb (240 kg)	15.5 ft ³ (0.44 m ³)
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft ³ (0.48 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)
	78 in (1.98 m)	605 lb (275 kg)	19.8 ft ³ (0.56 m ³)
	84 in (2.13 m)	640 lb (290 kg)	21.5 ft ³ (0.61 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

ISM N844LTA-DI-F-50 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

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 Heater and air conditioner 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

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

Heavy duty rear door

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Form No. CCE201811SR175 Replaces Form No. CCE201608SR175T4

SR175

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 Hydraulic one-way self-leveling Ride control

HYDRAULICS

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

LOADER

Auxiliary front electric control Hydraulic attachment coupler

DRIVETRAIN

1-speed hydrostatic four wheel drive

IMPORTANT: CASE Construction Equipment Inc. reserves the right

to change these specifications without notice and without incurring

any obligation relating to such change. Availability of some models

and equipment builds vary according to the country in which the

equipment is used. The illustrations and text may include optional

equipment and accessories and may not include all standard

equipment. Your CASE dealer/distributor will be able to give you

details of the products and their specifications available in your area.

LOADER

Manual attachment coupler Radial lift geometry Loader lift arm support strut SAE operating load: 1,750 lbs Tipping load: 3,500 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 Heavy duty rear door

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



CASE Construction Equipment is biodieselfriendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAF Standards or Recommended Practices, where applicable.

▲ SAFETY™ 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.