

SV185 SKID STEER LOADER

ENGINE

| | ISM N844T / M3 | |
|--------------------------|--|--|
| Diesel 4-str | roke, Turbo, I.D.I. | |
| | 4 | |
| 3.31 x 3.94 | in (84 x 100 mm) | |
| | 135 cu in (2.2 L) | |
| | Indirect | |
| | #2 diesel | |
| | In-line strainer | |
| Turbochargeo | d w/ internal EGR | |
| | Liquid | |
| | | |
| load (rpm) | 3080 +/- 50 | |
| ad (rpm) | 2900 | |
| n) | 1200 +/-50 | |
| Horsepower per SAE J1349 | | |
| 60 hp (44.7 | kW) @ 2900 rpm | |
| 57 hp (42.1 | kW) @ 2900 rpm | |
| 126 lb-ft (171 N | N-m) @ 1800 rpm | |
| | 3.31 x 3.94 Turbocharged b load (rpm) ad (rpm) i) r SAE J1349 60 hp (44.7 57 hp (42.1 | |

ENGINE COOLING

| Radiator – | |
|--------------------|----------------------------------|
| Core type | All aluminum |
| Core size area | a 0.261 m ² |
| Rows of tubes | s 43 |
| Cap pressure | 16 +/-2 psi |
| Fan – | |
| Diameter | 17.7 in (450 mm) |
| Ratio | 0.89:1 |
| Water pump – | |
| Style | Centrifugal |
| Flow | 13.2 gpm (50.1 L/min) |
| Engine lubrication | n – |
| Pump | Pressure feed w/ Trichoid pump, |
| | deep sump & plate cooler |
| Pump operating | angle ratings - |
| Side to side | 35° |
| Bucket up | 35° |
| Bucket down | 35° |
| Oil filtration | Replaceable, full-flow cartridge |
| | |

POWERTRAIN

| Drive Pump – Mechanica | 1 |
|--------------------------|----------------------------|
| Pump to engine ratio | |
| Displacement | 2.14 cu in (35 cc) |
| Flow at rated engine r | |
| @100% efficiency | 26.9 gpm (102 L/min) |
| Charge Pressure | 363 psi (25 bar) |
| System relief | 5,000 psi (345 bar) |
| Control | Direct mechanical |
| Drive Pump Electro Hydra | |
| Pump to engine ratio | 1:1 |
| Displacement | 2.14 cu in (35 cc) |
| Flow at rated engine r | () |
| @100% efficiency | 26.9 gpm (102 L/min) |
| Charge Pressure | 363 psi (25 bar) |
| System relief | 5,220 psi (360 bar) |
| Control | Electro Hydraulic |
| Drive motors | Licotro Hydradiio |
| Max. displacement | 19.83 cu in (325 cc) |
| Displacement – option | |
| high speed | 12.2 cu in (200 cc) |
| Speed @ high idle eng | , |
| (100% eff. at rated e | |
| Speed @ optional high | 0 1) |
| Torque @ max. displac | |
| pressure (calculated) | 1,316 lb-ft |
| [-·····) | (1784 N-m) |
| Travel speed – | (|
| Low range | 7.4 mph |
| High range (optional) | 11.5 mph |
| | le-reduction chain drive |
| Drive chain – | le-reduction chain drive |
| Size | ASA #80 |
| | |
| Tensile strength | 21,000 lb (93.4 kN) |
| Axles – | oment and relief |
| Torque @ max. displac | |
| , | 4,868 lb-ft (6600 N-m) |
| Diameter | 2 in (50.48 mm) |
| Length | 15.1 in (384 mm) |
| Parking brake | |
| Туре | Spring-applied, |
| . | hydraulic release disc |
| 00 | ress on/off brake button |
| | dle or instrument panel, |
| rais | se seat bar, get off seat, |
| | or stop engine |

HYDRAULIC SYSTEM

| Standard equipment | pump – |
|-------------------------|------------------------------------|
| Туре | Gear |
| Displacement – | |
| Standard aux. | 1.52 cu in (24.9 cc) |
| High flow aux. | 0.76 cu in (12.5 cc) |
| Pump flow @ rated | l engine rpm |
| @ 100 % efficien | 19 gpm (72 L/min) |
| Optional high flow | @ rated engine rpm |
| @ 100 % efficien | icy 9.5 gpm (36 L/min) |
| Loader control valve | - |
| Type 3 S | pool / Open Center / Series |
| Relief pressure 3 | 8000 (+145/-0) PSI (207 Bar) |
| Port relief pressures - | - |
| Loader raise | 3,263 psi (225 bar) |
| Bucket dump | 3,481 psi (240 bar) |
| Bucket curl | 3,336 psi (230 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 tubes | 9 |
| Area | 137.5 sq in (887 cm ²) |
| Hydraulic filter | 6 micron / Spin on |
| , | |

INSTRUMENTATION

| Indicators |
|-------------------------------------|
| Digital Hourmeter |
| Fuel level LCD bar graph with alarm |
| Warning lights with 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 |

ELECTRICAL SYSTEM

| Alternator 95 amp |
|--|
| Starter 2.2 kW |
| Battery |
| 12-volt low-maintenance 1000 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 panels |
| Suspension vinyl seat |
| 2 in (51 mm) retractable seat belt |
| Hand throttle |
| Foot throttle |
| Alarm package |
| Headliner |
| Top window |
| Cup holder |
| 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 |
| |

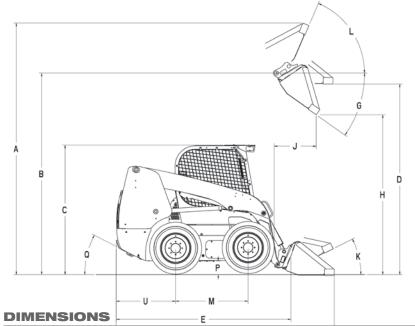
CYLINDERS

| Lift cylinder – | |
|---------------------------|--------------------|
| Bore diameter | 2.25 in (57.2 mm) |
| Rod diameter | 1.375 in (34.9 mm) |
| Stroke | 26.8 in (681.0 mm) |
| Closed length | 38.7 in (982.0 mm |
| Bucket cylinders – | |
| Bore diameter in (mm) | 2.5 in (63.5 mm |
| Rod diameter in (mm) | 1.375 in (34.9 mm |
| Stroke | 16.14 in (410.0 mm |
| Closed length | 24 in (610.0 mm |
| WEIGHTS | |
| Operating weight kg (lbs) | 6,500 lb (2950 kg |
| Shipping weight | 6,200 lb (2810 kg |
| Add-on weights – | |
| Side cab glass | 46.9 lb (21.3 kg |
| Lexan door | 74 lb (33.6 kg |
| Glass door with wiper | 134 lb (60.8 kg |
| Suspension seat | 22.1 lb (10 kg |
| SERVICE CAPAC | CITIES |
| Fuel tank | 20 gal (75.5 L |
| Engine oil with filter | 9 qt (8.5 L |
| Hvdraulic svstem – | |

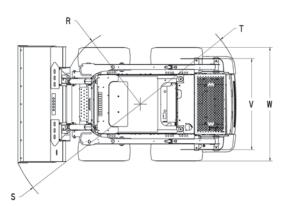
| Hydraulic system – | |
|------------------------|------------------|
| Reservoir | 4.3 gal (16.2 L) |
| Total | NA |
| Chain tanks (per side) | 7.1 qt (6.7 L) |

TIRE SELECTION

| | | | | | | Width | |
|-----------------|-----------|--------|-------|-------|--------|--------|---------|
| | | Ply | Tread | Tire | Tread | Over | Tire |
| | Size | Rating | Depth | Width | Width | Tires | Weight* |
| Heavy-Duty | 10 x 16.5 | _ | — | - | 53 | 64 | _ |
| | | | | | (1348) | (1627) | |
| Premium | 10 x 16.5 | _ | _ | _ | 53 | 64 | _ |
| | | | | | (1348) | (1627) | |
| Premium - Lined | 10 x 16.5 | _ | _ | _ | 53 | 64 | _ |
| | | | | | (1348) | (1627) | |
| Severe Duty | 10 x 16.5 | _ | _ | _ | 53 | 64 | _ |
| | | | | | (1348) | (1627) | |
| Non-Pneumatic | 10 x 16.5 | _ | _ | _ | 53 | 64 | _ |
| | | | | | (1348) | (1627) | |
| Heavy-Duty | 12 x 16.5 | _ | _ | _ | 57 | 70 | _ |
| | | | | | (1465) | (1785) | |
| Premium | 12 x 16.5 | _ | _ | _ | 57 | 70 | _ |
| | | | | | (1465) | (1785) | |
| Premium - Lined | 12 x 16.5 | _ | _ | _ | 57 | 70 | _ |
| | | | | | (1465) | (1785) | |



| A. Overall operating height - in (m) – | |
|--|--------------|
| with foundry/excavating bucket short lip | 150.4 (3.82) |
| with low profile/standard lip bucket | 154.6 (3.9) |
| with low profile extended / long lip bucket | 159.6 (4.1) |
| Height to - in (m) – | |
| B. Bucket hinge pin | 120 (3.05) |
| C. Top of ROPS | 77.7 (1.97) |
| D. Bottom of level bucket, fully raised | 113.3 (2.9) |
| Overall length - in (m) - | |
| E. without attachment with coupler | 106.7 (2.71) |
| F. with foundry excavation bucket on ground | 131.7 (3.3) |
| with low profile bucket | 135.8 (3.5) |
| with low profile extended bucket | 140.9 (3.6) |
| G. Dump angle | 51.9° |
| H. Dump height - in (m) – | |
| with foundry/excavating bucket short lip | 93.6 (2.38) |
| with low profile/standard lip bucket | 88.6 (2.3) |
| with low profile extended bucket | NA |
| J. Dump reach (max. height) - in (m) | 30.8 (0.78) |
| Maximum attachment rollback - | |
| K. Bucket on ground | 35° |
| L. Bucket at full height | 87.6° |
| M. Wheelbase - in (m) | 44.4 (1.13) |
| P. Ground clearance (bottom of belly pan) - in (m) | 7 (0.18) |
| Q. Angle of departure | 23° |
| Clearance circle - in (m) - | |
| R. without bucket | 50.7 (1.3) |
| S. with 66-inch (1.68 m) foundry bucket in carry position | 79.6 (2.0) |
| with 66-inch (1.68 m) low profile bucket on ground | 83.9 (2.1) |
| with 66-inch (1.68 m) extended low profile on ground | 88.6 (2.3) |
| T. Clearance circle rear - in (m) | 62.9 (1.60) |
| U. Rear axle to bumper - in (m) | 36.4 (0.92) |
| Rolling radius - in (m) | 15.2 (0.39) |
| V. Tread width with spec tires - in (m) - | 53.1 (1.35) |
| Over the tire width with spec tires - in (m) - | 64.07 (1.63 |



PERFORMANCE SPECS

| Rated operating load – 50% | 1850 lb (840 kg) |
|-------------------------------|--------------------|
| Tipping load | 3,700 lb (1678 kg) |
| Breakout forces - | |
| Lift cylinder | 2,740 lb (12.2 kN) |
| Bucket cylinder | 5,435 lb (24.2 kN) |
| Dig depth with bucket flat | 0 |
| Cycle times (seconds) – | |
| Raise | 3.0 |
| Lower | 2.4 |
| Dump | 2.2 |
| Roll back | 1.5 |

OPTIONAL BUCKETS

| Туре | Width inch (m) | Weight Ib (kg) | Heaped Capacity ft ³ (m ³) |
|-------------------------|---|--|---|
| Dirt & Foundry | 60 (1.5) 66 (1.6) 72 (1.8) | 270 (122) 370 (168) 390 (177) | 11.5 (0.33) 15.2 (0.43) 16.7 (0.47) |
| Low Profile | 60 (1.5) 66 (1.6) 72 (1.8) | 330 (150) 400 (181) 425 (193) | 11.5 (0.33) 13.2 (0.37) 14.5 (0.41) |
| Low Profile Extended | 60 (1.5) 66 (1.6) 72 (1.8) | 360 (163) 434 (197) 477 (216) | 14.3 (0.40) 15.5 (0.44) 17.1 (0.48) |
| Light Material | 60 (1.5) 72 (1.8) | 350 (159) 434 (197) | 19.7 (0.56) 23.7 (0.67) |
| Manure & Slurry | 60 (1.5) 72 (1.8) | 340 (154) 465 (211) | 16.7 (0.47) 19.1 (0.54) |
| Heavy Duty | 66 (1.6) 72 (1.8) | 474 (215) 501 (227) | 13.3 (0.37) 14.6 (0.41) |

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS level 1 canopy w/side screens **Tilt ROPS/FOPS** Rear window w/ emergency escape Instrument panels Suspension vinyl seat 2 in (51 mm) retractable seat belt Hand throttle Foot throttle Alarm package Headliner Top window Cup holder 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

LOADER

Vertical loader arm design Mechanical attachment coupler Loader lift arm support strut

ENGINE

ISM N844T / M3 diesel Integral engine oil cooling Fuel filter w/water trap Dual element air cleaner 120 amp alternator 1000 CCA 12-volt battery Glow plug Over & under radiator and oil cooler Spark arresting muffler

POWERTRAIN

Hydrostatic four wheel drive Servo controlled pumps ASA #80HS drive chain SAHR disc parking brakes

HYDRAULICS

Auxiliary hydraulics 3050 psi (210 bar) – 23.8 gpm (90 L/min) 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

OTHER

Add-on counterweights Lockable service access hood Single-point daily servicing Halogen lights, 2-front, 2 side, 2-rear (halogen) Rear tail lights Remote oil drain

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Deluxe cloth suspension seat w/ heater and lumbar support Interior mirror Electric auxiliary hydraulic control Glass front door w/wiper & washer Sliding side windows 3 inch retractable seat belt Heater and AC Radio Demolition door

LOADER

Auxiliary front electric control Ride control Switchable EH controls Hydraulic attachment coupler Hydraulic one-way self-leveling

HYDRAULICS

High-flow auxiliary hydraulics 3050 psi (210 bar) – 33.2 gpm (126 L/min) Attachment case drain plumbing

ENGINE

Coolant block heater Battery disconnect switch

OTHER

2 speed ground drive Deluxe instrument panel Road lights Rotating beacon Lift hooks Special paint Language decals Factory-installed tires – see page 2 Buckets – see page 3 Bolt-on bucket cutting edges 42 in (1.07 m) and 48 in (1.22 m) pallet forks Steel tracks



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

NOTE: All engines meet current EPA emissions requirements.

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All Case construction equipment is biodiesel ready.