

**SKID STEER LOADER
SR130**

CASE
CONSTRUCTION



**THE STRENGTH
TO PERFORM**

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SINCE 1842

SKID STEER LOADER SPEC SHEETS

ENGINE

Model ISM N844 I L-D ROW diesel
 Type 4-stroke, naturally aspirated
 Cylinder..... 4
 Bore x stroke.....84 x 100 mm
 Displacement.....2.2 L
 Fuel injection..... Indirect
 Fuel..... High speed diesel (HSD)
 Air intake..... Naturally aspirated W/O EGR
 Cooling..... Liquid

Engine speeds

High idle - no load (rpm).....3140 +/- 50
 Rated -full load (rpm).....2900
 Low idle (rpm)..... 1080+/-50

Horsepower per SAE J1349

Gross.....48.8 hp (36.4 kW) @ 2800 rpm
 Net.....45.8 hp (34.1 kW) @ 2800 rpm
 Peak torque.....130.5 Nm@ 1750 rpm

ENGINE COOLING

Radiator

Core type.....All aluminum
 Core size area0.226 m²
 Rows of tubes.....43
 Cap pressure.....16 +/-2 psi

Fan

Diameter.....450 mm
 Ratio.....0.89:1

Water pump

Style Centrifugal
 Flow.....50.1 l/min

Engine lubrication

Pump..... Pressure feed with Trichoid pump

Pump operating angle ratings

Side to side.....35°
 Bucket up.....35°
 Bucket down.....35°
 Oil filtration..... Replaceable, full-flow cartridge

POWERTRAIN

Drive pump - Mechanical..... Individual pumps for LH and RH
 Displacement.....35 cc

Flow at rated engine rpm

@100% efficiency.....102 l/min
 Flow..... Bi-directional
 Charge pressure.....25 bar
 System relief.....345 bar
 Control..... Direct mechanical
 Drive motors..... Fixed displacement radial piston
 Max. displacement.....325 cc
 Torque @ max. displacement and relief pressure.....1784 N-m
 Travel speed.....11.9 Km/h

Drive chain

Size..... ASA#80
 Tensile strength.....93.4 KN

AXLES

One-piece, forged induction-hardened high carbon steel
 Torque @ Max displacement and relief pressure.....5940 Nm
 Diameter.....50.8 mm
 Length.....346 mm

Parking Brake

Spring-applied, hydraulic release disc

Engagement

Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine

STANDARD TYRE

	Size inch	Tread Width inch (mm)	Width Over Tyres inch (mm)
Heavy-Duty	10 X 16.5	49 (1248)	59 (1517)

*Tyre weight does not include the wheel weight

HYDRAULIC SYSTEM

Standard equipment pump

Type..... Gear
 Displacement.....23.8 cc
 Pump flow @ rated engine rpm @ 100 % efficiency.....66.2 l/min

Leader control valve

3 Spool I Open Center I Series

Relief pressure.....210 Bar

Hydraulic lines

Tubing 37° JIC Flare
 Loop hoses SAE 100 R13

Hydraulic oil cooler

Number of tubes.....9
 Area.....843.2 cm²
 Hydraulic filter 6 micron I Spin on type

SERVICE CAPACITIES

Fuel tank.....60.5 l
 Engine oil with filter.....7.5 l
 Hydraulic system - Reservoir.....15.13 l
 Chain tanks (per side).....6.3 l

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 pre-heat
 Parking brake

Seat bar reminder

ELECTRICAL SYSTEM

Alternator.....120 amp
 Starter.....2.2 kW
 Battery.....12-volt low-maintenance 925 CCC @ 0° F (-18° C)

WEIGHTS

Operating weight.....2300 Kg
 Shipping weight.....2160 Kg

SKID STEER LOADER SPEC SHEETS

STANDARD EQUIPMENT

- ROPS/FOPS level 1 canopy with side screens
- Control lockout system
- Tilt ROPS/FOPS
- Rear window with emergency escape
- Instrument panels
- 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 with integral armrests

- Loader control lockout system
- Electric parking brake control
- Floor cleanout panel

LOADER

- Radial loader arm design
- Mechanical attachment coupler
- Loader lift arm support strut

ENGINE

- ISM N844 L-D ROW diesel
- Integral engine oil cooling
- Fuel filter with water trap
- Dual element air cleaner
- 120 amp alternator
- 925 CCC 12-volt battery
- Glow plug
- Over & under radiator and oil cooler
- Spark arresting muffler

POWERTRAIN

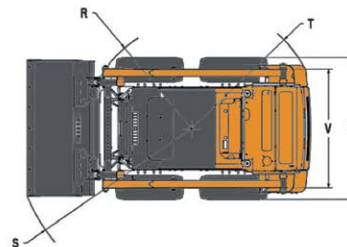
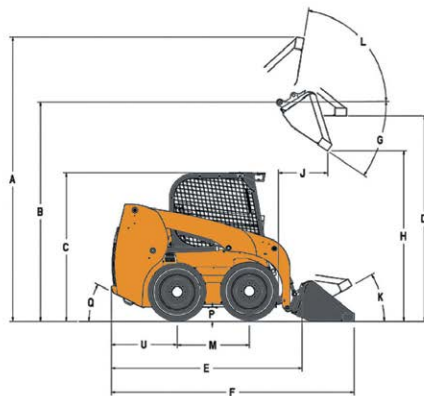
- Hydrostatic four wheel drive
- ASA #80HS drive chain
- SAHR disc parking brakes

HYDRAULICS

- 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

ATTACHMENTS

- Available as optional based on machine application



GENERAL DIMENSIONS

	Overall operating height	
A	With foundry/excavating bucket short lip	3.60 m
	With low profile/standard lip bucket	3.73 m
	With low profile extended/long lip bucket	3.86 m
B	Bucket hinge pin	2.84 m
C	Top of ROPS	1.92 m
D	Bottom of level bucket, fully raised	2.68 m
E	Without attachment with coupler	2.44 m
F	With foundry excavation bucket on ground	3.03 m
	With low profile bucket	3.18 m
	With low profile extended bucket	3.30 m
G	Dump angle	40.2°
H	Dump height	
	With foundry/excavating bucket short lip	2.25 m
	With low profile/standard lip bucket	2.15 m
J	Dump reach (max. height)	0.47 m
K	Bucket on ground angle	26.1°
L	Bucket at full height angle	95.2°
M	Wheelbase	0.94 m
P	Ground clearance (bottom of belly pan)	0.18 m
Q	Angle of departure	22°
R	Without bucket	1.24 m
S	With 60-in (1.52 m) foundry bucket in carry position	1.92 m
	With 60-in (1.52 m) inch low profile bucket on ground	1.99 m
	With 60-in (1.52 m) inch extended low profile on ground	2.11 m
T	Clearance circle rear	1.43 m
U	Rear axle to bumper	0.86 m
V	Tread width with spec tyres	1.25 m
W	Over the tyre width with spec tyres	1.52 m

PERFORMANCE SPECS

Rated operating load	590 kg
Tipping load	1179 kg
Cycle times - (seconds)	
Raise	3.4
Lower	2.1
Dump	1.9
Roll back	1.3

STANDARD BUCKET

Type	Width	Weight	Heaped Capacity
Dirt & Foundry	1.5 m	12 kg	0.33 m ³



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