

**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 area 0.226 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

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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

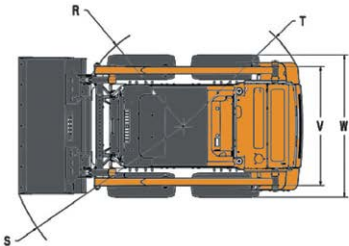
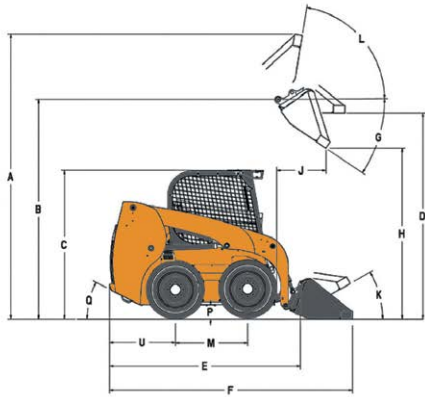
- Hydrostatic four wheel drive
- ASA #80HS drive chain
- SAHR disc parking brakes

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
	With foundry excavation bucket on ground	3.03 m
F	With low profile bucket	3.18 m
	With low profile extended bucket	3.30 m
G	Dump angle	40.2°
Dump height		
H	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 m³



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Corporate Identity Number: U29240DL1998PTC344616
CASE NEW HOLLAND CONSTRUCTION EQUIPMENT (INDIA) PRIVATE LIMITED
Level-4, Rectangle-1, D-4
District Center, Commercial Complex
Saket, New Delhi - 110017
Contact No.: 011-66544151 | Email: caseindia@cnhind.com

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