

**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 m<sup>2</sup>  
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 cm<sup>2</sup>

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

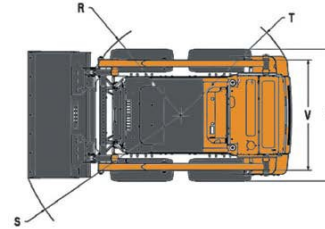
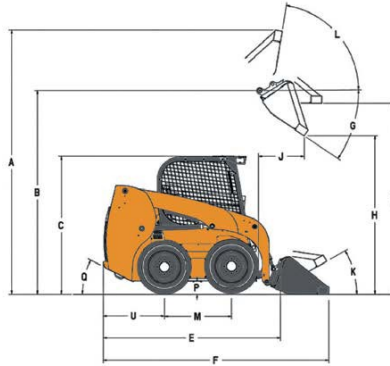
- Hydrostatic four wheel drive
- ASA #80HS drive chain
- SAHR disc parking brakes

### 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

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

### PERFORMANCE SPECS

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

### STANDARD BUCKET

Type	Width	Weight	Heaped Capacity
<b>Dirt &amp; Foundry</b>	1.5 m	12 kg	0.33 m³





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