SKID STEER LOADER



SV185B

ENGINE	
Brand	Perkins
Model	404D-22T
Type 4-stroke, to	urbocharged, Tier 3 certified
Cylinders	4
Bore x Stroke	84 x 100 mm (3.31 x 3.94")
Displacement	2,212 cm ³ (135 in ³)
Fuel injection	Indirect
Fuel	Diesel
Fuel filter	In-line filter
Air inlet	Turbocharged with internal EGR
Cooling system	Liquid
Motor speed (rpm)	
High - no load	$3,140 \pm 40$
Rated - full load	2,900
Low - no load	$1,200 \pm 30$
Power at 2,900 rpm	
Gross SAE J1349	60 hp (44.7 kW)
Net SAE J1349	57 hp (42.4 kW)
Maximum torque at 1,80	0 rpm 171 N.m (126 lbf.ft)

ENGINE COOLING SYSTEM

COOLING STSTEM	
Radiator	
Core type	Fully aluminum
Core area	0.257 m ²
Row of tubes	43
Pressure on the lid	1.1 ± 0.1 bar $(16 \pm 2 \text{ psi})$
Fan	
Diameter	440 mm (17,7")
Ratio	1.1:1
Water pump	
Type	Centrifuge
Flow	71.2 l/min (18.8 gpm)
Engine lubrication	
Pump Operational	Angles
Side by side	35°
Raised bucket	35°
Lowered bucket	35°
Oil filter	Full flow cartridge, disposable

POWERTRAIN

	OWEITHOUN
	Drive Pump - Mechanical
1:1	Pump / motor ratio
35 cm ³ (2.14 in ³)	Displacement
or	Pump flow rate with mo
98 I/min (25.9 gpm)	at rated rotation of
25 bar (363 psi)	Charging pressure
345 bar (5.000 psi)	System relief pressure
Mechanical	Control
ılic (EH)	Drive pump - Electrohydra
1:1	Pump / motor ratio
35 cm ³ (2.14 in ³)	Displacement
	Pump flow rate with mo
95 I/min (25.1 gpm)	at rated rotation of
25 bar (363 psi)	Charging pressure
000 1 (5.000 %	System relief
360 bar (5.220 psi)	pressure
Electrohydraulic	Control
	Traction engines
325 cm³ (19.83 in³)	Maximum displacement
	Speed at rated motor
313 rpm	rotation
443 rpm	High speed - optional
	Torque at full flow
1,783 N.m (1,315 lbf.ft)	and relief pressure
(tire 10 x 16.5)	Displacement speed
12.7 km/h (7.9 mph)	Low
18.0 km/h (11.2 mph)	High (optional)
Chain drive with single	Final reduction
reduction	
	Drive chain
ASA #80	Size
93.4 kN (21,000 lbf)	Tensile strength
	Axles
ow and	Maximum torque at full t
	relief pressure
5,940 N.m (4,381 lbf.ft)	
5,940 N.m (4,381 lbf.ft) 50.8 mm (2")	Diameter

Type Spring applied, hydraulic disc release
Actuation Application of the parking
brakes by actuating the brake knob on the hand
control or on the instrument panel, by raising
the safety bar of the operator's seat, when the
operator rises from the seat or by switching off
the engine

HYDRAULIC SYSTEM

	· -
Standard pump	
Туре	Gear pump
Displacement	
Standard	24.9 cm ³ (1.52 in ³)
Optional High Flow	12.5 cm ³ (0.76 in ³)
Pump flow at	
rated motor rotation	72 l/min (19 gpm)
Flow rate with optional High t	flow at
rated motor rotation	109 l/min (28.7 gpm)
Skid Steer control valve	
3 spools / Open Center / In-li	ne
Relief pressure	210 bar (3,046 psi)
Relief pressures	
Arm lift	225 bar (3,263 psi)
Bucket discharge	260 bar (3,770 psi)
Bucket retraction	80 bar (1,160 psi)
Hydraulic oil cooler	
Flaps numbers	3.94 per centimeter
Number of tubes	9
Area	887 cm ² (137.5 in ²)

INSTRUMENT PANEL

Indicators

Text indicators Hour meter, engine rotation, engine cooling fluid temperature, or hydraulic oil temperature

LCD bar chart for hydraulic oil temperature, engine cooler temperature, and fuel level in fuel tank

Warning lights with alarms
Immediate stop
Motor malfunction
Hydraulic system malfunction
Malfunction of the electronic system

Indicator lights

Warning to lower the security bar Parking brake indicator activated Engine preheating light

ELECTRIC SYSTEM

Alternator	120 A
Starting motor	2.0 kW
Battery	12 V
	950 CCA for cold cranking at
	-18 °C (0 °F)

OPERATOR ENVIRONMENT

<u> </u>
ROPS / FOPS cab with side screens
Tilting ROPS / FOPS frame
Rear window with emergency exit
Instrument panel
Retractable seat belt
Manual and foot throttle
Alarm package
Cabin roof lining
Solar roof
Cup holder
Power outlet
Foot rest
Storage tray
Ergonomic low effort manual controls
Padded safety bar with integrated armrest
Loader controls locking system
Electric parking brake control
Rubber mat for floor protection / cleaning
Suspension vinyl seat

CYLINDERS

Lift cylinder	
Cylinder diameter	63.5 mm (2.5")
Stem diameter	44.5 mm (1.75")
Stroke	681 mm (26.8' ")
Closed length	982 mm (38.7')
Bucket cylinders	
Cylinder diameter	63.5 mm (2.5")
Stem diameter	34.9 mm (1,375")
Stroke	410 mm (16.14' ")
Closed length	610 mm (24")

OPERATIONAL WEIGHTS

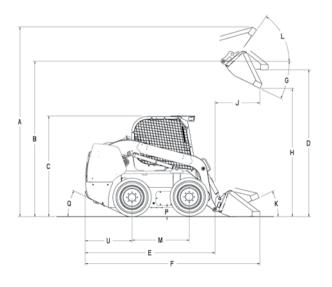
Operational weight	2,980 kg (6,570 lb)
Transport weight	2,840 kg (6,261 lb)
Cab side windows	21.3 kg (46.9 lb)
Lexan®Door	34.0 kg (75 lb)
Glass door withwindshield w	viper 34.0 kg (75 lb
Suspension seat	10 kg (22 lb)

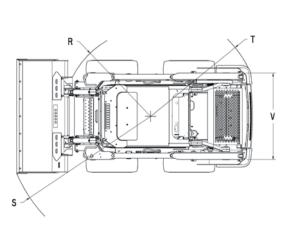
SERVICE CAPACITIES

Fuel tank	75.7 I (20 gal)
Engine oil (with filter)	7.1 I (7.5 gal ct)
Hydraulic system	
Storage	16.3 I (4.3 gal)
Storage for chains (on each side)	7.4 I (7.8 qt)

TIRE SELECTION

	Size	Overall width
Galaxy XD 2002 (10x16.5 Heavy Duty (64 OTW))	10x16.5	1.625 (5' 4")
TWEEL All Terrain (10X16.5 TWEEL 64 OTW)	10x16.5	1.625 (5' 4")
Galaxy XD 2002 (12x16.5 Heavy Duty (70 OTW))	12x16.5	1,785 mm (5' 10.3")





DIMENSIONS

A. Total operational height:	
With foundry / excavation bucket	3.82 m (150,4' ")
With low profile extended bucket	4.06 m (159.8' ")
Height up to:	
B. Bucket hinge pin	3.05 m (120")
C. Cabin top	1.97 m (77.6")
D. Leveled bucket bottom with fully raised loader arm	2.88 m (113,4")
Total length:	
E. Without accessories, with coupling device	2.69 m (105.9")
F. With foundry / excavation bucket at ground level	3.45 m (135.8")
With low-profile extended bucket at ground level	3.58 m (140.9")
G. Dump angle at maximum height	51.9°
H. Dump height - fully raised loader arm	
With foundry / excavation bucket	2.38 m (93.7' ")
With low profile extended bucket	2.21 m (87.0' ")
J. Reach - fully elevated loader arm with low profile extended bucket	0.95 m (37.4")
Attachment maximum retraction angle:	
K. Bucket at ground level	35°
L. Bucket at maximum height	87.6°
M.Wheelbase	1.13 m (44.5")
P. Ground clearance (bottom of protection plate)	0.18 m (7")
Q. Output angle	23°
Front turning radius:	
R. Without the bucket	1.35 m (53.1")
S. With foundry / excavation bucket at ground level	2.04 m (80.3")
With low-profile extended bucket at ground level	2.25 m (88.6")
T. Rear turning radius	1.60 m (63.0")
U. Rear axle to bumper	0.92 m (36.2")
V. Machine gauge, measure between the wheel centers	1.37 m (53.9")
SPECIFICATIONS	
Operational load	840 kg (1,850 lb)
Dump load	1,678 kg (3,700 lb)
Tear force	
Lifting arm	15.3 kN (3,440 lbf)
Bucket	24.7 kN (5,553 lbf)

OPTIONAL BUCKETS

Cycle times (in seconds)

To retract attachment

To raise arms
To lower arms
To unload attachment

Туре	Width m (in)	Weight kg (lb)	Heaped capacity m³ (yd³)
Foundry / excavation	1,83 (72)	190 (419)	0,46 (0,60)
Extended low profile	1,68 (66)	214 (472)	0,45 (0,59)
	1,83 (72)	232 (511)	0,50 (0,65)
Heavy Duty	1,83 (72)	230 (507)	0,40 (0,52)

3.5 2.3

2.1

1.5

STANDARD EQUIPMENT

Operator Environment

ROPS / FOPS cabin with side screens

Tilting ROPS / FOPS frame

Rear window with emergency exit

Instrument panel

Suspension vinyl seat

Retractable seat belt

Manual throttle

Alarm package

Cabin roof lining

Solar roof

Cup holder

Power outlet

Foot rest

Storage trav

Ergonomic low effort manual controls

Padded safety bar with integrated armrest

Loader controls locking system Electric parking brake control

Rubber mat for protection / cleaning of the floor

Loader

Loader arm vertical design

Mechanical device of attachment coupling Lift arm support beam of the loader

Engine

Perkins / 404D-22T

Integrated oil cooling system of the engine

Fuel filter with water separator

Dual element air filter.

120 A alternator

12V 950 CCA battery

Glow plug

Overlapped oil heat exchanger and radiador

Spark-arresting silencers

Power train

Hydrostatic four-wheel drive

Servo controls

ASA #80HS Drive chain

SAHR parking disc brakes

Hydraulic system

210 bar hydraulic system (3,046 psi)

72 l/min (19 gpm)

Hydraulic circuit pedal lock

ISO flat face couplers mounted on loader arm

Cancellation of auxiliary functions

Operational blocking system of the loader

Loader lift neutralizer

Loader 3-spool control valve Oil exchanger for severe applications

Loader arm fluctuation position

Others

Lockable maintenance access hood

Single point daily maintenance

Halogen lights, 2 frontal, 2 lateral, 2 rear Rear lights

Remote oil drain

OPTIONAL EQUIPMENT

Operator environment

Suspension seat Deluxe coated with special fabric, with lumbar support and heating system

76mm retractable seat belt (3")

Internal mirror

Radio

Air conditioning and heating

Door for demolition purposes

Front auxiliary electric control

Front glass door with windshield wiper and washer

Sliding side windows

Loader

Ride Control

Attachment coupling hydraulic device One-way hydraulic self-leveling (climb)

Electrohydraulic controls (EH)

Hydraulic system

High flow hydraulic system (High Flow) of 210 bar (3,046 psi) 109 l/min (28.7 gal)

Crankcase drain pipe fittings

Engine block heater Battery disconnect key

Others

2 speed drive

Deluxe Dashboard

Headlights for highway traffic

Giroflex

Lifting hooks

Special paint

Stickers

Factory installed tires - refer to page 2

Buckets - refer to page 3

Bolt-on bucket cutting blades Forks to 1.22 m (48") pallets



Site Watch Fleet management and monitoring system by satellite or cell phone tracking.

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Manufacturing plants

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