SKID STEER LOADER

SR250B

ENGINE

Brand	FPT		
Model	F5CE5454C*A003		
Туре	4 strokes, turbocharged with		
	Tier 3 certification		
Cylinders			
Bore x Stroke	99 x 104 mm (3.9 x 4.1")		
Displacement	3,200 cm ³ (195 in ³)		
Fuel injection	Direct		
Fuel	Diesel		
Fuel filter	In-line filter		
Air inlet Tur	t Turbocharged with external EGR		
Cooling system	Liquid		
Motor speed (rpm)			
High - no load	2,675 ± 75		
Rated - full load	2,500		
Low - no load	1,075 ± 75		
Power at 2,500 rpm			
Gross SAE J1995	90 hp (67 kW)		
Net SAE J1349	84 hp (63 kW)		
Maximum torque at 1,	400 rpm 340 N.m (251 lbf.ft)		

ENGINE COOLING SYSTEM

Radiator			
Core type	Fully aluminum		
Core area	0.266 m ²		
Rows of tubes	44		
Pressure on the lid	1.1 ± 0.1 bar (16 ± 2 psi)		
Fan			
Diameter	518 mm (20.4")		
Ratio	0.96:1		
Water pump			
Туре	Centrifuge		
Flow	110 l/min (29 gpm)		
Engine lubrication			
Pump Rotor pump with sump par			
	depth, plate cooler and		
pressuri	zed nozzles under the piston		
Pump Operational Angles			
Side by side	45°		
Raised bucket	35°		
Lowered bucket	45°		
Oil filtration	Full flow cartridge		

POWERTRAIN

FOWENTHAIN	
Drive Pump - Mechanic	al
Pump / motor ratio	1:1
Displacement	46 cm ³ (2.81 in ³)
Pump flow rate with	
motor at rated rotatio	n
	111 l/min (29.4 gpm)
Charging pressure	25 bar (363 psi)
System relief pressure	
Control	Mechanical
Drive pump - Electrohy	
Pump / motor ratio	1:1
Displacement	45 cm ³ (2.75)
Pump flow rate with r	
at rated rotation	109 l/min (28.8 gpm)
Charging pressure	25 bar (363 psi)
System relief pressure	
Control	Electrohydraulic
Traction engines	
Maximum displaceme	ent 470 cm ³ (28.68 in ³)
Speed at rated	
motor rotation of	241 rpm
Speed at optional hig	
Torque at full flow and	
relief pressure	2,694 N.m (1,987 lbf.ft)
Displacement speed	
Low	11.3 km/h (7.0 mph)
High (optional)	16.9 km/h (10.5 mph)
Final reduction	Chain drive with single
	reduction
Drive chain	
Size	ASA #100
Tensile strength	133.4 kN (30,000 lbf)
Axles	
Maximum torque at fu	III flow
and relief pressure	8,975 N.m (6,620 lbf.ft)
Diameter	62 mm (2.44")
Length	396 mm (15.6")
Parking break	
Туре	Spring applied, hydraulic
.	disc release
Actuation	Application of the parking
brakes by actuating th	he brake knob on the hand
	ment panel, by raising the
	operator's seat, when the
operator rises fro	m the seat or by switching
	off the engine

CASE

SINCE 1842.

HYDRAULIC SYSTEM

Standard pump	
Туре	Gear pump
Displacement	
Standard	34.1 cm ³ (2.08 in ³)
Optional High Flow	18.3 cm ³ (1.1 pulg ³)
Pump flow at	
rated motor rotation of	85 l/min (22.5 gpm)
Flow rate with optional Hig	gh flow at
rated motor rotation	131 l/min (34.6 gpm)
Skid Steer control valve	
3 spools / Open Center	/ In-line
Relief pressure	210 bar (3,046 psi)
· · ·	210 bar (3,046 psi)
Relief pressure Relief pressures Arm lift	210 bar (3,046 psi) 225 bar (3,263 psi)
Relief pressures	· · · ·
Relief pressures Arm lift	225 bar (3,263 psi) 260 bar (3,770 psi)
Relief pressures Arm lift Bucket discharge	225 bar (3,263 psi) 260 bar (3,770 psi)
Relief pressures Arm lift Bucket discharge Bucket retraction	225 bar (3,263 psi)
Relief pressures Arm lift Bucket discharge Bucket retraction Hydraulic oil cooler	225 bar (3,263 psi) 260 bar (3,770 psi) 80 bar (1,160 psi)

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

tain
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	3.2 kW
Battery	12 V, low maintenance, 950 CCA for cold cranking at -18 °C (0 °F)

OPERATOR ENVIRONMENT

ROPS / FOPS cab with side screens
Tilting ROPS / FOPS frame
Rear window with emergency exit
Instrument panel
Retractable seat belt
Manual 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
Controls locking system
of the loader
Electric parking brake control
Rubber mat for fl oor protection / cleaning

CYLINDERS

Lift cylinder		
Cylinder diameter	63.5 mm (2.5")	
Stem diameter 44.5 mm (1.		
Stroke	817.9 mm (32.2")	
Closed length 1,158.0 mm (4		
Bucket cylinders		
Cylinder diameter	76.2 mm (3.0")	
Stem diameter	38.1 mm (1.5")	
Stroke 410.0 mm (16.1		
Closed length	610.0 mm (24")	

OPERATIONAL WEIGHTS

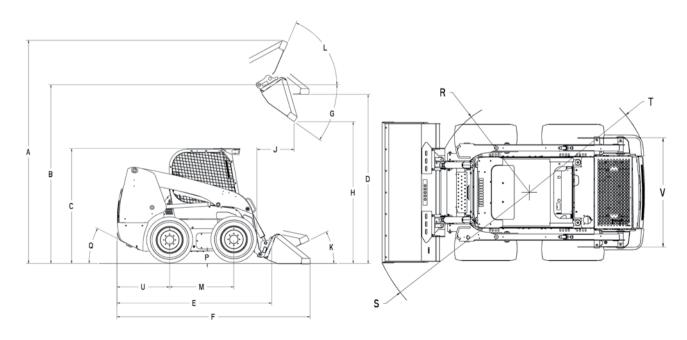
Operational weight	3,490 kg (7,700 lb)
Transport weight	3,340 kg (7,365 lb)
Cabin side windows	21.3 kg (46.9 lb)
Lexan®Door	34 kg (75 lb)
Glass door with windshield w	
Suspension seat	10 kg (22.0 lb)

SERVICE CAPACITIES

Fuel tank	96.5 l (25.5 gal)	
Engine oil (with fi Iter)	9.5 l (10.0 qt)	
Hydraulic system Storage	26.5 l (7.0 gal)	
Storage for chains (on each side)	22.2 l (5.9 gal)	

TIRE SELECTION

	Size	Overall width
Galaxy XD 2002 (12x16.5 Heavy Duty (70 OTW))	12x16.5	1,778 mm (5' 10)
TWEEL All Terrain (12X16.5 TWEEL 70 OTW)	12x16.5	1,778 mm (5' 10)
Galaxy Beef Baby III (14x17.5 Premium (76 OTW))	14x17.5	1,930 mm (6' 4")



DIMENSIONS

ווש	WENSIONS	
Α.	Total operational height	
	With foundry / excavation bucket	4.0 m (156.3")
	With low profile extended bucket	4.2 m (165.3")
	Height up to:	
В.	Bucket hinge pin	3.2 m (125.1")
C.	Cabin top	2.0 m (78.8")
<u>D.</u>	Leveled bucket bottom with fully raised loader arm	3.0 m (118")
_	Total length:	//
Ε.	Without accessories, with coupling device	3.0 m (117.4")
F.	With foundry / excavation bucket at ground level	3.6 m (142.2")
	With low-profile extended bucket at ground level	3.8 m (151.3")
<u>G.</u>	Dump angle at maximum height	38.3°
Н.	Dump height - fully raised loader arm	
	With foundry / excavation bucket	2.6 m (100.9")
	With low profile extended bucket	2.5 m (98.3")
J.	Reach - fully raised loader arm	0.7 m (26.7")
	Attachment maximum retraction angle:	
Κ.	Bucket at ground level	30.7°
L.	Bucket at maximum height	99.7°
м.	Wheelbase	1.3 m (52")
Ρ.	Ground clearance (bottom of protection plate)	0.2 m (8")
Q.	Output angle	23.5°
	Front turning radius:	
R.	Without the bucket	1.4 m (55.1")
S.	With foundry / excavation bucket at ground level	2.1 m (83.5")
	With low-profile extended bucket at ground level	2.3 m (91.9")
Т.	Rear turning radius	1.8 m (70.4")
U.	Rear axle to bumper	1.0 m (40.7")
V.	Machine gauge, measure between the wheel centers	1.5 m (56.9")

SPECIFICATIONS

Operational load	1,135 kg (2,500 lb)
Dump load	2,270 kg (5,000 lb)
Tear force	
Lifting arm	25.3 kN (5,688 lbf)
Bucket	33.3 kN (7,486 lbf)
Cycle times (in seconds)	
To raise arms	3.7
To lower arms	1.9
To unload attachment	2.7
To retract attachment	2.0

OPTIONAL BUCKETS

Туре	Width m (in)	Weight kg (lb)	Heaped capacity m ³ (yd ³)
Foundry / excavation	1,83 (72)	190 (419)	0,46 (0,60)
1,83 (72) Extended low profile 1,98 (78) 2,13 (84) 2,13 (84)	1,83 (72)	232 (511)	0,50 (0,65)
	1,98 (78)	245 (540)	0,54 (0,71)
	2,13 (84)	262 (578)	0,58 (0,76)
Heavy Duty	1,83 (72)	230 (507)	0,40 (0,52)

STANDARD EQUIPMENT

Operator environment 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 Controls locking system of the loader Electric parking brake control Rubber mat for floor protection/cleaning

Loader

Loader arm radial design Mechanical device of attachment coupling Lift arm support beam of the loader

Engine

FPT F5CE5454C*A003 diesel Overlapped oil heat exchanger and radiador Gow plug Integrated oil cooling system of the engine Fuel filter with water separator Dual element air filter 120 A alternator 12V 950 CCA battery

Power train

Hydrostatic four-wheel drive Servo controls ASA #100HS Drive chain SAHR parking disc brakes

Hydraulic system

210 bar hydraulic system (3,046 psi) – 85 l/min (22.5 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 Heavy Duty oil heat exchanger 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 2 speed drive Heavy Duty rear door

OPTIONAL EQUIPMENT

Operator environment

Suspension vinyl seat Suspension seat *Deluxe* coated with special fabric, with lumbar support and heating system Internal mirror Front auxiliary electric control Front glass door with windshield wiper and washer Sliding side windows Air conditioning and heating Bluetooth radio Door for demolition purposes Loader Ride Control Electrohydraulic controls (EH) Attachment coupling hydraulic device One-way hydraulic self-leveling (climb)

Hydraulic system

High flow hydraulic system (*High Flow*) of 210 bar (3,046 psi) – 131 l/min (34.6 gpm) Crankcase drain pipe fittings

Engine

Engine block heater Battery disconnect key

Others

Deluxe instrument panel 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 for 1.22 m (48") pallets

EASE Site Watch[™] Fleet management and monitoring system by satellite or cell phone tracking.

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Manufacturing plants

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