

ENGINE

Model	F5CE 5454 G* A001
Emissions Certification	Tier 3
Type	Diesel, Turbo – Direct Injection
Cylinder	4
Bore/Stroke	3.9 x 4.1 in (99 x 104 mm)
Displacement	195 in ³ (3.2 L)
Fuel injection	Direct
Fuel	#2 diesel
Fuel filter	In-line strainer
Oil filtration	Spin-on/full-flow cartridge
Air intake	Turbocharged w/o waste gate
Cooling	Liquid
Engine speeds	RPM
High idle – no load	2675 +/- 75
Rated – full load	2500
Low idle	1075 +/- 75
Horsepower – SAE J1349 @ 2500 RPM:	
Gross	74 hp (55 kW)
Net	68 hp (51 kW)
Peak torque	203 lb-ft (275 N-m) @ 1400 RPM
Radiator:	
Core type	All aluminum
Core size area	399 in ² (0.257 m ²)
Rows of tubes	43 x 3
Cap pressure	16 +/- 2 psi (110 +/- 14 bar)
Fan:	
Diameter	18.9 in (480 mm)
Ratio	0.96:1
Water pump:	
Style	Centrifugal
Flow	29 gpm (110 L/min)
Engine lubrication:	
Pump	Rotor pump w/ deep sump pan, plate cooler, and pressurized under-piston nozzles
Pump operating angle ratings:	
Side to side	45°
Bucket up	35°
Bucket down	45°

DRIVETRAIN

Drive pump	Electro-hydraulic
Pump to engine ratio	1:1
Displacement	2.81 in ³ (46 cm ³)
Flow at rated engine RPM	
@ 97% efficiency	29.4 gpm (111.3 L/min)
Charge pressure:	
360 +/- 10 psi (24.5 +/- 0.5 bar)	
System relief	5,220 psi (360 bar)

DRIVETRAIN (cont.)

Drive motors:	
Max. displacement	3.10 in ³ (50.9 cm ³)
Optional high speed	2.02 in ³ (33.1 cm ³)
Speed @ high idle engine RPM	
100% efficiency @ rated engine RPM	103
Speed @ optional high speed RPM	156
Torque @ max. displacement and relief pressure	4,654 lb-ft (6 310 N·m)
Travel speed:	
Low range	5.1 mph (8.2 kph)
High range – optional	7.6 mph (12.2 kph)
Final drive	Planetary reduction
Parking brake:	
Type	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

ELECTRICAL

Alternator	120 amp
Starter	3.2 kW
Battery	12-volt low-maintenance 925 cold-cranking amps @ 0° F (-18° C)

OPERATOR ENVIRONMENT

ROPS/FOPS level 1 canopy w/ side screens; Tilt ROPS/FOPS; Rear window w/ emergency escape; Instrument panels; Suspension vinyl seat; 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 w/ integral armrests; Loader control lockout system; Electric parking brake control; Floor cleanout panel.

Indicators:
Digital hourmeter, Fuel level LCD bar graph w/ alarm.

Warning lights w/ 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 preheat, Parking brake, Seat bar reminder.

OPERATING WEIGHT

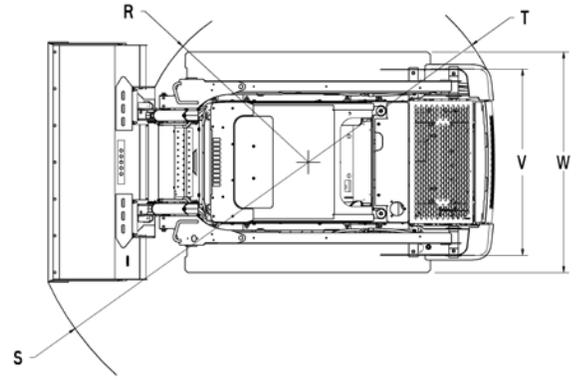
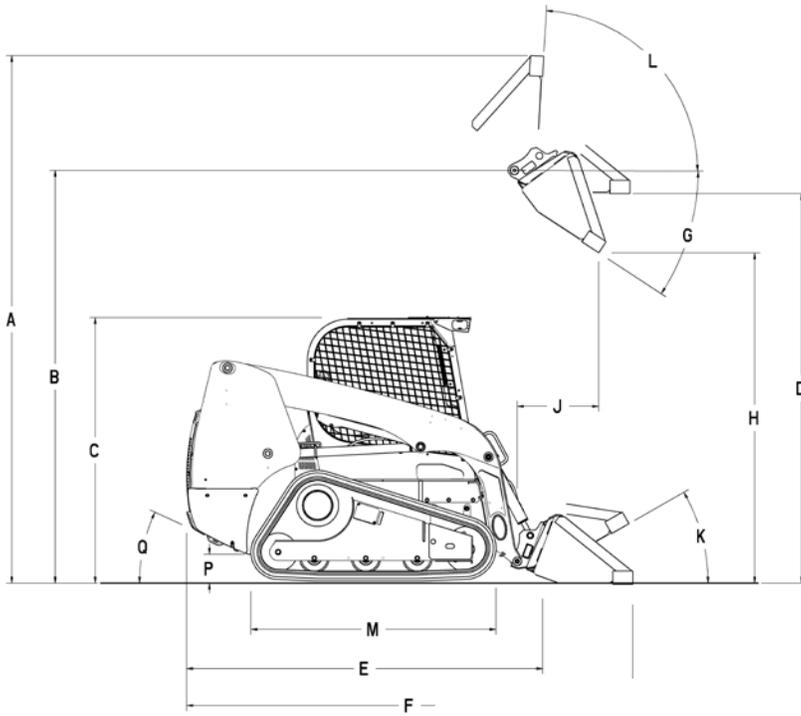
Shipping weight	7,970 lb (3 615 kg)
Operating weight	8,270 lb (3 750 kg)
Add-on weights:	
Side cab glass	47 lb (21.3 kg)
Lexan® door	74 lb (33.6 kg)
Glass door w/ wiper	134 lb (60.8 kg)
Suspension seat	22 lb (10 kg)

HYDRAULICS

Standard equipment pump type	Gear
Displacement:	
Standard aux.	2.08 in ³ (34.1 cm ³)
Pump flow @ rated engine RPM: @ 100% efficiency	22.5 gpm (85.2 L/min)
Loader control valve:	
Type 3	Spool/Open center/Series
Relief pressure	3,000 psi (207 bar)
Port relief pressures:	
Loader raise	3,263 psi (225 bar)
Bucket dump	3,770 psi (260 bar)
Bucket curl	1,160 psi (80 bar)
Hydraulic lines:	
Tubing	37° JIC Flare
Loop hoses	SAE 100 R13
Hydraulic oil cooler:	
Number of fins	10 per in (3.94 per cm)
Number of tubes	9 x 1
Area	136.5 in ² (887 cm ²)
Hydraulic filter	6 micron/Spin on
Lift cylinder:	
Bore diameter	2.50 in (63.5 mm)
Rod diameter	1.75 in (44.5 mm)
Stroke	31.69 in (804.9 mm)
Closed length	45.59 in (1 158.0 mm)
Bucket cylinders:	
Bore diameter	2.75 in (69.9 mm)
Rod diameter	1.38 in (34.9 mm)
Stroke	16.14 in (410.0 mm)
Closed length	24.02 in (610.0 mm)

SERVICE CAPACITIES

Fuel tank	20 gal (75.7 L)
Engine oil w/ filter	10 qt (9.5 L)
Hydraulic system:	
Reservoir	5.3 gal (20 L)
Total	34 qt (32.2 L)



PERFORMANCE SPECS

Rated operating load:	
50%	2,700 lb (1 225 kg)
35%	1,890 lb (860 kg)
Tipping load	
	5,400 (2 449 kg)
Breakout forces:	
Lift cylinder	6,260 lb (27.8 kN)
Bucket cylinder	7,270 lb (32.3 kN)
Cycle times:	
Raise	3.7 sec
Lower	1.9 sec
Dump	2.3 sec
Roll back	1.7 sec

DIMENSIONS

A. Overall operating height:	
with foundry/excavating bucket short lip	154.3 in (3 920 mm)
with low profile/standard lip bucket	158.3 in (4 020 mm)
with low profile extended/long lip bucket	163.2 in (4.1 m)
Height to:	
B. Bucket hinge pin	123 in (3 124 mm)
C. Top of ROPS	78.7 in (1 998 mm)
D. Bottom of level bucket, fully raised	116.1 in (2 950 mm)
Overall length:	
E. without attachment with coupler	105.1 in (2 669 mm)
F. with foundry excavation bucket on ground	129.6 in (3 292 mm)
with low profile bucket	133.7 in (3 397 mm)
with low profile extended bucket	138.8 in (3 525 mm)
G. Dump angle	39.6°
H. Dump height:	
with foundry/excavating bucket short lip	98.2 in (2 495 mm)
with low profile/standard lip bucket	95.6 in (2 428 mm)
J. Dump reach – max. height	22.3 in (568 mm)
Maximum attachment rollback:	
K. Bucket on ground	31°
L. Bucket at full height	98.6°
M. Track on ground	56.7 in (1 440 mm)
P. Ground clearance – bottom of belly pan	8 in (203 mm)
Q. Angle of departure	32°
Clearance circle:	
R. without bucket	50.7 in (1 289 mm)
S. with 72 in (1.8 m) foundry bucket in carry position	79.9 in (2 031 mm)
with 72 in (1.8 m) low profile bucket on ground	83.1 in (2 112 mm)
with 72 in (1.8 m) extended low profile on ground	87.7 in (2 228 mm)
T. Clearance circle rear	62.9 in (1 599 mm)
V. Track width	53.4 in (1 356 mm)
W. Over the track width	65.9 in (1 676 mm)

TRACK SELECTION

Type	Area	Ground pressure	Width to Outside of track
12.6 in (320 mm)	1,424 in ² (9 187 mm ²)	5.9 psi (40.5 kPa)	65.9 in (1.7 m)

OPTIONAL BUCKETS

Type	Width	Weight	Heaped Capacity
Dirt & Foundry	66 in (1.68 m)	440 lb (200 kg)	14.8 ft ³ (0.42 m ³)
	78 in (2.0 m)	440 lb (200 kg)	18.4 ft ³ (0.52 m ³)
Dirt & Foundry	72 in (1.83 m)	420 lb (190 kg)	14.8 ft ³ (0.42 m ³)
Low Profile Extended	66 in (1.68 m)	440 lb (200 kg)	15.9 ft ³ (0.45 m ³)
	78 in (2.0 m)	440 lb (200 kg)	18.6 ft ³ (0.53 m ³)
	84 in (2.1 m)	575 lb (262 kg)	20.2 ft ³ (0.57 m ³)
Light Material	72 in (1.83 m)	420 lb (190 kg)	23.3 ft ³ (0.66 m ³)
	84 in (2.1 m)	575 lb (262 kg)	27.9 ft ³ (0.79 m ³)
Manure & Slurry	72 in (1.83 m)	420 lb (190 kg)	19.1 ft ³ (0.54 m ³)
	84 in (2.1 m)	575 lb (262 kg)	22.5 ft ³ (0.64 m ³)
Heavy-Duty	66 in (1.68 m)	440 lb (200 kg)	13.1 ft ³ (0.37 m ³)
	78 in (2.0 m)	440 lb (200 kg)	15.9 ft ³ (0.45 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

ROPS/FOPS level 1 canopy with side screens
Tilt ROPS/FOPS
Rear window with emergency escape
Instrument panels
Suspension vinyl seat
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

ENGINE

Case/Iveco 432T/M3 diesel
No maintenance belt
Over & under radiator and oil cooler
Glow plug
Integral engine oil cooling
Fuel filter with water trap
Dual element air cleaner
95 amp alternator
925 CCA 12-volt battery

DRIVETRAIN

Switchable EH controls
Planetary reduction final drive
2 speed ground drive
SAHR disc parking brakes

HYDRAULICS

Auxiliary hydraulics:
3,050 psi (210 bar) – 23.8 gpm (90 L/min)
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

LOADER

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

OTHER

Deluxe instrument panel
Add-on counterweights
Lockable service access hood
Single-point daily servicing
Halogen lights, 2-front, 2 side,
2-rear – halogen
Rear tail lights
Remote oil drain

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Deluxe cloth suspension seat with heater and lumbar support
Interior mirror
Electric auxiliary hydraulic control
Glass front door with wiper & washer
Sliding side windows
3 in retractable seat belt
Heater and AC
Radio
Demolition door

ENGINE

Coolant block heater
Battery disconnect switch

HYDRAULICS

High-flow auxiliary hydraulics:
3,050 psi (210 bar) – 33.2 gpm (126 L/min)
Second auxiliary hydraulics
Attachment case drain plumbing

LOADER

Auxiliary front electric control
Ride control
Hydraulic attachment coupler
Hydraulic one-way self-leveling

OTHER

Road lights
Rotating beacon
Lift hooks
Special paint
Language decals
Buckets – see page 3
Bolt-on bucket cutting edges



NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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