



ENGINE

Model	FPT F5B FL413 D*C001
Emissions Certificati	on Tier 4 Final
Туре	Diesel 4-stroke, Turbo, D.I.
Cylinders	4
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)
Displacement	207 in ³ (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	#2 Diesel
Fuel filter: Pre-filter Main filter	Beta (30) = 200/spin-on Beta (4) = 20/spin-on
Air intake	Turbocharged w/ waste ate and external cooled EGR
Exhaust aftertreatme	ent Selective Catalytic Reduction (SCR)
Cooling	Liquid
Engine speeds High idle – no load Rated – full load Low idle	RPM 2500 +/- 25 2500 1150 +/- 25
Horsepower @ 2500 Gross	RPM – SAE J1349: 90 hp (67 kW)
Net	84 hp (63 kW)
Peak torque @ 1400	RPM 282 lb·ft (383 N·m)
Radiator: Core type Core size area Rows of tubes x co Cap pressure	Aluminum bar and plate 319 in² (0.206 m²) blumns 21 rows 16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan: Diameter Ratio 0.96	22 in (560 mm) 6:1 standard, 1.1:1 high-flow
Water pump: Style Flow	Centrifugal 47.8 gpm (181 L/min)
Engine lubrication p Rotor pump w/ dea and pressurized ur	ep sump pan, plate cooler
Pump operating ang	•

Side to side

Bucket up Bucket Down

LIFT GEOMETRY

Vertical Lift

DRIVETRAIN

Drive pump controls Pump to engine ratio Displacement Flow @ rated engine F @ 97% efficiency Charge pressure System relief pressure	29.4 gpm (111 L/min) 360 psi (24.5 bar)		
Drive pump controls Pump to engine ratio Displacement Flow @ rated engine F @ 97% efficiency Charge pressure System relief pressure	28.8 gpm (109 L/min) 362 psi (24.5 bar)		
Drive motors: Max. displacement 3.10 in ³ (50.9 cm ³) Displacement: High speed 2.02 in ³ (33.1 cm ³) Motor RPM @ high idle and 97% efficiency: 2-speed 156 Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar): 4,654 lb-ft (6 310 N·m)			
Travel speed: Low range High range	5.5 mph (8.9 kph) 8.0 mph (12.9 kph)		
Final drive: Planetary gearbox w/ 2-speed motor			
Tractive effort	7,414 lb (3 370 kg)		
Engagement Dep	Spring-applied, hydraulic release multiple disc. press on/off brake button		
	Indle or instrument panel, et off seat or stop engine.		

ELECTRICAL		
Alternator	160 amp	
Starter	4.29 hp (3.2 kW)	
Battery	12-volt low-maintenance	
1,000 cold-cranking amps @ 0° F (-18° C°)		

OPERATOR ENVIRONMENT

45°

35°

45°

ROPS/FOPS Level 1 canopy w/ side screens; Keyed start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Suspension Seat, vinyl w/ 2 in (51 mm) retractable 3 point lap seat belt; Hand and foot throttles; Alarm package – back-up and horn; Rearview mirror; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator's compartment floor cleanout; Proportional

TV450B COMPACT TRACK LOADER TIER 4 FINAL CERTIFIED

auxiliary hydraulic control – on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, Fuel level LCD bar graph w/ alarm, diagnostic features and security lockout.

Warning lights with alarms:

Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature: Critical system stop, Engine system, Hydraulic system, Electrical and diagnostic system.

Warning alarms:

Battery voltage – plus display; Oil service. Indicator light: Engine preheat; Parking brake;

Seat bar reminder.

OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 78 in Heavy Duty bucket; full of fuel:

	10,610 lb (4 823 kg)
Shipping weight	10,267 lb (4 667 kg)
Add-on weights:	
Side cab glass	47 lb (21.3 kg)
Polycarbonate cab door	75 lb (34.0 kg)
Glass cab door w/ wiper	75 lb (34.0 kg)
Suspension seat	22 lb (10.0 kg)
Additional counterweight	600 lb (273 kg)

HYDRAULICS

Implement pump type	Gear
Displacement:	
Standard aux.	2.23 in ³ (36.6 cm ³)
High-flow aux.	1.42 in ³ (23.3 cm ³)
Standard flow @ rated e	ngine RPM:
@ 100% efficiency	24.2 gpm (91.5 L/min)
Optional high-flow @ rat	ed engine RPM:
@ 100% efficiency	39.5 gpm (149 L/min)
Enhanced high-flow @ ra	ated engine RPM:
@ 100% efficiency	35.0 gpm (132.5 L/min)
Loader control valve:	
Type 3 spool/op	en center/series - series
Relief pressure	3,450 psi (238 bar)
Port relief pressures:	
Loader raise	3,625 psi (250 bar)
Bucket curl	3,916 psi (270 bar)
Bucket dump	3,625 psi (250 bar)
Hydraulic lines:	
Tubing	ORFS + 37° JIC Flare
Loop hoses	SAE 100 R19
Hydraulic oil cooler:	
Number of fins 1	0 per inch (3.94 per cm)
Number of tube rows x	columns 9 bar/plate
Area	138.7 in ² (890 cm ²)
Hydraulic filter	Beta (4) = 75/spin-on

HYDRAULICS CONT.		SERV
Lift cylinders: Bore diameter Rod diameter Stroke Closed length	2.75 in (69.85 mm) 1.75 in (44.5 mm) 35.7 in (908 mm) 53.9 in (1 369 mm)	Fuel T Engin Hydra Rese
Bucket cylinders: Bore diameter Rod diameter Stroke Closed length	3.0 in (76.2 mm) 1.5 in (38.1 mm) 15.9 in (405 mm) 24.3 in (617.0 mm)	Tota

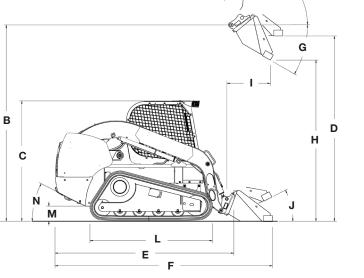
Α

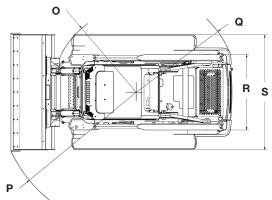
SERVICE CAPACITIES	
Fuel Tank	25.5 gal (96.5 L)
Engine oil w/ filter	8.9 qt (8.5 L)
Hydraulic system: Reservoir Total	6.0 gal (22.7 L) 11.9 gal (45.4 L)

PERFORMANCE SPECS

Rated operating capacity – ROC*:			
35% of tipping load	3,150 lb (1 432 kg)		
50% of tipping load	4,500 lb (2 045 kg)		
w/ additional counterweight	4,700 lb (2 135 kg)		
Tipping load*	9,000 lb (4 091 kg)		
Breakout forces @ 3,150 psi (217 bar)*:			
Bucket Cylinders	9,188 lb (41.8 kN)		
Lift cylinders – hydraulic limit	7,773 lb (35.3 kN)		
Cycle times:			
Raise	5.1 sec		
Lower	3.5 sec		
Dump	2.7 sec		
Roll back	2.0 sec		

NOTE: *Measured using 78 in (1.98 m) foundry/ excavating bucket.





Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS	
A. Overall operating height:	
with foundry/excavating bucket	161.4 in (4.10 m)
with heavy duty bucket	165.6 in (4.21 m)
with low profile extended bucket	170.4 in (4.33 m)
Height to:	
B. Bucket hinge pin	131.6 in (3.34 m)
C. Top of ROPS	80.4 in (2.04 m)
D. Bottom of level bucket, fully raised	123.2 in (3.13 m)
Overall length: E. without attachment with coupler	100.0 in (2.05 m)
F. with foundry/excavating bucket on ground	120.2 in (3.05 m) 144.4 in (3.67 m)
with heavy duty bucket	148.6 in (3.78 m)
with low profile extended bucket	153.5 in (3.89 m)
G. Maximum dump angle	45.3°
H. Dump height:	
with foundry/excavating bucket	104.1 in (2.65 m) @ 45.0°
with heavy duty bucket	101.1 in (2.57 m) @ 45.0°
I. Dump reach at maximum height with low profile extended bucket	35.1 in (0.89 m) @ 45.0°
Maximum attachment rollback:	
J. Bucket on ground	32.0°
K. Bucket at full height	83.1°
L. Track on ground	64.5 in (1.64 m)
M. Ground clearance - bottom of belly pan	9.5 in (0.24 m)
N. Angle of departure	32.0°
Clearance circle:	
0. without bucket	57.7 in (1.47 m)
P. with 78 in (1.98 m) foundry/excavating bucket on ground	87.8 in (2.23 m)
Q. Clearance circle rear	68.6 in (1.74 m)
R. Track gauge	58.6 in (1.49 m)
S. Over the track width	76.5 in (1.94 m)

TRACK SELECTION			
Туре	Area	Ground Pressure	Width to Outside Track
17.7 in (450 mm)	2,286 in ² (1.48 m ²)	4.6 psi (31.7 kPa)	76 in (1.93 m)

OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	72 in (1.83 m)	420 lb (190 kg)	16.2 ft ³ (0.46 m ³)
	78 in (1.98 m)	440 lb (200 kg)	17.7 ft ³ (0.50 m ³)
Low Profile	72 in (1.83 m)	480 lb (218 kg)	14.8 ft ³ (0.42 m ³)
Low Profile Extended	72 in (1.83 m)	510 lb (232 kg)	17.7 ft ³ (0.50 m ³)
	78 in (1.98 m)	540 lb (245 kg)	19.1 ft ³ (0.54 m ³)
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft ³ (0.58 m ³)
Light Material	72 in (1.83 m)	475 lb (216 kg)	23.3 ft ³ (0.66 m ³)
	84 in (2.13 m)	540 lb (245 kg)	27.5 ft ³ (0.78 m ³)
Manure & Slurry	72 in (1.83 m)	480 lb (218 kg)	19.1 ft ³ (0.54 m ³)
Heavy-Duty	72 in (1.83 m)	510 lb (230 kg)	14.1 ft ³ (0.40 m ³)
	78 in (1.98 m)	530 lb (240 kg)	15.5 ft ³ (0.44 m ³)
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft ³ (0.48 m ³)
Heavy-Duty Extended with SmartFit Teeth	72 in (1.83 m)	667 lb (303 kg)	17.4 ft ³ (0.49 m ³)
	78 in (1.98 m)	697 lb (316 kg)	18.9 ft ³ (0.54 m ³)
	84 in (2.13 m)	728 lb (330 kg)	20.5 ft ³ (0.58 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5B FL413 D*C001 207 CID (3.4 L) Turbo Tier 4 Final Certified Selective Catalytic Reduction (SCR) High Pressure Common Rail (HPCR) fuel injection Horsepower: Gross: 90 hp (67 kW) Net: 84 hp (63 kW) Peak torque: 282 lb·ft (383 N·m) 160 amp alternator Dual element air cleaner Organic Acid Technology (OAT) Anti-freeze solution to -34° F Fuel tank - 25.5 gal (U.S.) Over and under radiator and oil cooler 3-stack after cooler/radiator/oil cooler configuration Glow plugs Integral engine oil cooler Fuel filter with water trap 1,000 CCA 12V battery Master electrical disconnect Jump start terminal

DRIVETRAIN

2-speed hydrostatic four wheel drive SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics: @ 3,450 psi (238 bar) – 24.2 gpm (91.5 L/min) 6 micron oil filtration system 3-spool loader control valve Auxiliary hydraulic disconnects, ISO flat-face – connect-under-pressure with case drain Hydraulic circuit pedal lock Auxiliary function lockout override Loader lift lockout override Heavy-duty hydraulic oil cooler Loader arm float position Loader function lockout system

LOADER

Manual attachment coupler Vertical lift geometry Loader lift arm support strut SAE operating load: 3,150 lbs Tipping load: 9,000 lbs

TRACKS

Rubber Tracks

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood Pre-wired for rotating beacon Lockable service access hood Single-point daily servicing Rear tail lights Remote oil and fuel filters Block heater Debris ingression sealing Mounting points for add-on counterweights

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Enclosed cab:

Fully sealed and pressurized - FSP Glass door with wiper and washer Sliding side windows - removable Ventilation system with integrated heater Heater and air conditioner AM/FM Bluetooth radio with 2 speakers and USB port Keyless start ignition 8 in Color LCD Display Economy Mode (auto idle shutdown) Auto Engine Protection Shutdown Electro-hydraulic controls: For drive/steering, loader functions Switchable between H and ISO patterns Adjustable sensitivity of controls Mechanical hand controls Hand and foot controls: Hand controls the loader drive function and foot controls the bucket and boom Deluxe cloth, air suspension seat, with heater and lumbar support Demolition cab door with polycarbonate FOPS Level 2 Ignition Timeout Machine Settings User Access Levels

Operator Security Codes

HYDRAULICS

High-flow auxiliary hydraulics - combined: @ 3,450 psi (238 bar) - 39.5 gpm (149 L/min) Enhanced High-Flow auxiliary hydraulics - EHF: @ 4,000 psi (276 bar) - 35.0 gpm

(132.5 L/min) Second auxiliary hydraulics

Hydraulic one-way self-leveling Ride control

LOADER

Auxiliary front electric control Hydraulic attachment coupler

DRIVETRAIN

Creep Speed Mode

TRACKS

Heavy Duty Tracks

OTHER

Language decals Buckets - see page 3 Bolt-on bucket cutting edges Bolt-on heavy-duty bucket spill guard Special paint Offsite service arrangement Telematics

FACTORY SUPPLIED ATTACHMENTS

Interior mirror Add-on counterweights Road lights Rotating beacon Four-corner LED strobe 48 in (1.22 m) pallet forks

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt Bolt-on heavy-duty bucket teeth

CaseCE.com

©2020 CNH Industrial America LLC. All rights reserved. CASE is a trademark registered in the United States and many other countries. owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. CNH Industrial Capital is a trademark in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. Printed in U.S.A. Contains 10% post-consumer fiber.

Form No. CCE202001TV450B Replaces Form No. CCE201911TV450B

TV450B

IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



CASE Construction Equipment is biodieselfriendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAF Standards or Recommended Practices, where applicable.



▲ SAFETY™ Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and

use any safety features provided.