



#### ENGINE

Model	FPT F5B FL413 D*C005
Emissions Certification	n Tier 4 Final
Type D	Diesel 4-stroke, Turbo, D.I.
Cylinders	4
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)
Displacement	207 in <sup>3</sup> (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 gate	Turbocharged w/ waste and external cooled EGR
Exhaust aftertreatment	t Selective Catalytic Reduction (SCR) I Oxidation Catalyst (DOC)
Cooling	Liquid
Engine speeds High idle – no load Rated – full load Low idle	RPM 2500 +/- 25 2500 1150 +/- 25
Horsepower @ 2500 R Gross Net	PM – SAE J1349: 114 hp (85 kW) 114 hp (85 kW)
Peak torque @ 1400 R	
Radiator: Core type Core size area Rows of tubes x colu Cap pressure	Aluminum bar and plate 253 in² (0.163 m²) mns 19 rows 16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan: Diameter	22 in (560 mm)
	standard, 1.1:1 high-flow
Water pump: Style Flow	Centrifugal 47.8 gpm (181 L/min)
Engine lubrication purr Rotor pump w/ deep and pressurized under	sump pan, plate cooler
Pump operating angle Side to side Bucket up Bucket Down	ratings: 45° 35° 45°

### LIFT GEOMETRY

Vertical Lift

#### DRIVETRAIN

Drive pump contro	ls Electro-hydraulic		
Pump to engine r	ratio 1:1		
Displacement			
Flow @ rated eng	ine RPM:		
@ 96% efficier	, ,		
Charge pressure	377 psi (26 bar)		
System relief pres	ssure 5,800 psi (400 bar)		
Drive Motors - Rul	bber Undercarriage:		
Max. displaceme	nt 3.0 in <sup>3</sup> (49.1 cm <sup>3</sup> )		
Flow @ rated eng	ine RPM @ 96% efficiency:		
	1.83 in <sup>3</sup> (30.0 cm <sup>3</sup> )		
Motor torque @ max. displacement and relief			
pressure, calculated @ 5,800 psi (400 bar):			
	4,840 lb·ft (6 562 N·m)		
Travel speed – Rubber Track:			
Low range	5.0 mph (8.0 kph)		
High range	8.7 mph (14.0 kph)		
Travel speed - Ste	el Track:		
Low range	3.1 mph (5.0 kph)		
High range	5.9 mph (9.5 kph)		
Final drive:			
Planetary gearbo	x w/ 2-speed motor		
Tractive effort	10,995 lb (4 998 kg)		
Parking brake:			
Type	Spring-applied, hydraulic		
	release multiple disc.		
Engagement	Depress on/off brake button		
0 0	on handle or instrument panel		

on handle or instrument panel, raise seat bar, get off seat or stop engine.

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#### ELECTRICAL

Alternator	145 amp	
Starter	4.29 hp (3.2 kW)	
Battery	12-volt low-maintenance	
950 cold-cranking amps @ 0° F (-18° C°)		

#### **OPERATOR ENVIRONMENT**

Enclosed cab (ROPS/FOPS Level 1): Fully sealed and pressurized - FSP Glass door w/ wiper and washer, Sliding side windows - removable, Ventilation system w/ integrated heater, Heater and air conditioner, AM/FM Bluetooth radio w/ 2 speakers and USB port; Keyless start ignition; 8 in Color LCD Display; Economy Mode (auto idle shutdown); Auto Engine Protection Shutdown; Deluxe cloth, air suspension seat, w/ heater and lumbar support; 2 in (51 mm) retractable 3 pt lap seat belt; Ignition Timeout; Machine Settings; User Access Levels; Operator Security Codes; 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 auxiliary hydraulic control - on joystick; Advanced Instrument Cluster w/ digital hour meter,

# TV620B COMPACT TRACK LOADER TIER 4 FINAL CERTIFIED

tachometer, Fuel level LCD bar graph w/ alarm, diagnostic features; Electro-hydraulic controls: For drive/steering, loader functions, Switchable between H and ISO patterns, Adjustable sensitivity of controls.

Warning lights w/ 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/ closed cab; 165 lb operator; 84 in Heavy Duty bucket; full of fuel:

	16,300 lb (7 409 kg)
Shipping weight	16,000 lb (7 273 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 Air Ride	75 lb (34.0 kg) 20 lb (9.1 kg)
Additional counterweight	Not Available

#### **HYDRAULICS**

Implement pump type	Axial Piston
Displacement: Enhanced high-flow aux	x. 3.8 in <sup>3</sup> (63.0 cm <sup>3</sup> )
Standard flow @ rated er @ 100% efficiency	0
Optional high-flow @ rate @ 100% efficiency	
Enhanced high-flow @ ra @ 100% efficiency	ted engine RPM: 41.6 gpm (157 L/min)
Loader control valve: Type 3 spool/ope Relief pressure	n center/series - series 3,450 psi (238 bar)
Port relief pressures: Loader raise Bucket curl Bucket dump	4,351 psi (300 bar) 4,351 psi (300 bar) 4,351 psi (300 bar)
Hydraulic lines: Tubing Loop hoses	ORFS + 37° JIC Flare SAE 100 R19
Hydraulic oil cooler: Number of fins Number of tube rows x Area	10 per inch (4 per cm) columns 21 bar/plate 298.2 in <sup>2</sup> (1 920 cm <sup>2</sup> )

HYDRAULICS CONT.	
Hydraulic filter	Beta (4) = 75/spin-on
Lift cylinders:	
Bore diameter	3.25 in (82.5 mm)
Rod diameter	2.25 in (57.1 mm)
Stroke	38.8 in (985 mm)
Closed length	59.6 in (1 515 mm)
Bucket cylinders:	
Bore diameter	3.25 in (82.5 mm)
Rod diameter	1.75 in (44.5 mm)
Stroke	19.7 in (500 mm)
Closed length	31.5 in (800 mm)
1	

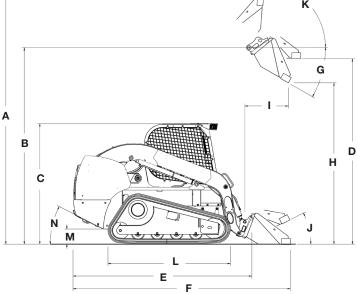
#### SERVICE CAPACITIES Fuel Tank 30.8 gal (116.5 L) Engine oil w/ filter 8.9 qt (8.5 L) Hydraulic system 10.7 gal (40.5 L)

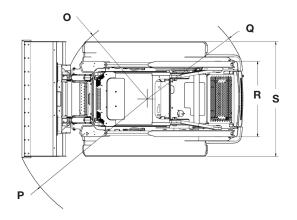
Diesel Exhaust Fluid (DEF) Tank 3.3 gal (12.4 L)

### PERFORMANCE SPECS

Rated operating capacity - 35% of tipping load 50% of tipping load	- ROC*: 4,340 lb (1 969 kg) 6,200 lb (2 812 kg)
Tipping load*	12,400 lb (5 625 kg)
Breakout forces @ 3,150 p	osi (217 bar)*:
Bucket Cylinders	12,907 lb (57.4 kN)
Lift cylinders	12,084 lb (53.8 kN)
Cycle times:	
Raise	4.2 sec
Lower	2.2 sec
Dump	2.3 sec
Roll back	1.6 sec

NOTE: \*Measured using 78 in (1.98 m) heavy-duty bucket.





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

DIMENSIONS	
A. Overall operating height:	
with heavy duty bucket with XHD bucket	176.5 in (4.48 m) 189.6 in (4.82 m)
Height to:	105.0 11 (4.02 11)
B. Bucket hinge pin	140.2 in (3.56 m)
C. Top of ROPS	84.6 in (2.15 m)
D. Bottom of level bucket, fully raised	133.3 in (3.39 m)
Overall length:	
E. without attachment with coupler	129.5 in (3.29 m)
F. with heavy duty bucket on ground	159.1 in (4.04 m)
with XHD bucket	172.7 in (4.39 m)
G. Maximum dump angle	46.1°
H. Dump height:	
with heavy duty bucket with XHD bucket	109.0 in (2.77 m) @ 46.1°
	99.2 in (2.52 m) @ 46.1°
I. Dump reach at maximum height with heavy duty bucket	39.0 in (0.99 m) @ 46.1°
Maximum attachment rollback:	223
J. Bucket on ground K. Bucket at full height	30° 84°
<b>`</b>	
L. Track on ground rubber	74 in (1.88 m)
L. Track on ground steel	66 in (1.7 m)
M. Ground clearance – bottom of belly pan	12.6 in (0.32 m)
N. Angle of departure	37.7°
Clearance circle:	
<b>O.</b> without bucket – Rubber Track	67.4 in (1.71 m)
P. with 84 in (2.13 m) heavy duty bucket on ground – Rubber Track	102.3 in (2.60 m)
Q. Clearance circle rear – Rubber Track	69.5 in (1.77 m)
R. Track gauge	60.6 in (1.54 m)
S. Over the track width – Rubber Track	78.3 in (1.99 m)
S. Over the track width – Steel Track:	
14 in (356 mm) tracks	74.6 in (1.894 m)
18 in (457 mm) tracks	78.6 in (1.995 m)
TV620B	2 of 4

TRACK SELECTION			
Туре	Area	Ground Pressure	Width to Outside Track
17.7 in (450 mm) – Rubber Track	2,286 in <sup>2</sup> (1.48 m <sup>2</sup> )	6.1 psi (42.2 kPa)	78.3 in (1.99 m)
14 in (356 mm) – Steel Track	1,851 in <sup>2</sup> (1.2 m <sup>2</sup> )	9.1 psi (62.6 kPa)	74.6 in (1.894 m)
18 in (457 mm) – Steel Track	2,377 in <sup>2</sup> (1.5 m <sup>2</sup> )	7.3 psi (50.2 kPa)	78.6 in (1.995 m)

OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	78 in (1.98 m)	440 lb (200 kg)	17.7 ft <sup>3</sup> (0.50 m <sup>3</sup> )
Low Profile Extended	78 in (1.98 m)	540 lb (245 kg)	19.1 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft <sup>3</sup> (0.58 m <sup>3</sup> )
Light Material	84 in (2.13 m)	540 lb (245 kg)	27.5 ft <sup>3</sup> (0.78 m <sup>3</sup> )
Heavy-Duty	78 in (1.98 m)	530 lb (240 kg)	15.5 ft <sup>3</sup> (0.44 m <sup>3</sup> )
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft <sup>3</sup> (0.48 m <sup>3</sup> )
Heavy-Duty Extended with SmartFit Teeth	78 in (1.98 m)	697 lb (316 kg)	18.9 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	728 lb (330 kg)	20.5 ft <sup>3</sup> (0.58 m <sup>3</sup> )
XHD (Extra Heavy Duty)	84 in (2.13 m)	900 lb (410 kg)	33.8 ft <sup>3</sup> (0.96 m <sup>3</sup> )
XHD (Extra Heavy Duty) with SmartFit Teeth	84 in (2.13 m)	990 lb (450 kg)	33.8 ft <sup>3</sup> (0.96 m <sup>3</sup> )

## STANDARD EQUIPMENT

#### **OPERATOR ENVIRONMENT**

#### See page 1

#### ENGINE

Charge Air Cooler (CAC) Dual element air cleaner Organic Acid Technology (OAT) Anti-freeze solution to -34° F 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 Master electrical disconnect Jump start terminal Hydraulically driven reversible fan

#### DRIVETRAIN

2-speed hydrostatic four wheel drive SAHR disc parking brake Foot pedal modes - Accelerate, Trans and Decelerate

#### **OPTIONAL EQUIPMENT**

#### **OPERATOR ENVIRONMENT**

Open Cab (ROPS/FOPS Level 1) w/ side screens; Keyed Start Mechanical Suspension Seat - Vinyl Demolition cab door with polycarbonate

#### **HYDRAULICS**

Enhanced High-Flow auxiliary hydraulics - EHF: @ 4,100 psi (283 bar) - 41.6 gpm (157 L/min) Second auxiliary hydraulics

### **HYDRAULICS**

- Auxiliary hydraulics: @ 3,450 psi (238 bar) - 24.2 gpm (91.5 L/min) High-flow auxiliary hydraulics: @ 3,450 psi (238 bar) - 41.6 gpm (157 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 Auxiliary front electric control Hydraulic one-way self leveling Auto Ride Control Creep Speed Mode

## TRACKS

14 in (356 mm) - Steel Tracks 18 in (457 mm) - Steel Tracks

Auxiliary flow control within cab

#### OTHER

Language decals Buckets - see page 3 Bolt-on bucket cutting edges Special paint

#### LOADER

Hydraulic attachment coupler Vertical lift geometry Loader lift arm support pin

#### TRACKS

Heavy Duty Rubber Tracks

#### **OTHER STANDARD FEATURES**

LED 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

#### **TELEMATICS**

CASE SiteWatch™ Telematics – includes hardware and a 1-yr data subscription SiteConnect Module providing remote diagnostics capability

## SERVICE PARTS

Road lights Four-corner LED strobe Precleaner FOPS Level 2 3 inch (76.2 mm) retractable seat belt Bolt-on heavy-duty bucket teeth Rotating beacon Four point lift hook Class III 48 in (1.22 m) pallet forks 1150 CCA battery for high altitude Fire Extinguisher Tamper resistant front door bracket Attachment Hose Kit Drawbar Extra counterweights not offered for this model

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Form No. CCE202205TV620B Replaces Form No. CCE202109TV620B

**TV620B** 

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