



ENGINE	
Model	F5H FL463 A*F001
Emissions Certification	Tier 4 Final
Type Diesel, T	urbo – Direct Injection
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
Main filter	eta (30) = 200/spin-on Beta (4) = 20/spin-on
	arged w/ external EGR
Exhaust aftertreatment	Diesel Oxidation Catalyst – DOC
Cooling	Liquid
Engine speeds High idle – no load Rated – full load Low idle	RPM 2500 +/- 25 2500 1150 +/- 25
Horsepower @ 2500 RPM	– SAE J1349:
Gross Net	74 hp (55 kW) 68 hp (51 kW)
Peak torque @ 1400 RPM	232 lb·ft (314 N·m)
Radiator: Core type Core size area Rows of tubes x columns Cap pressure	All aluminum 2.05 ft ² (0.191 m ²) 3 31 x 4 13 +/- 2 psi (0.90 +/- 0.14 bar)
Fan: Diameter Ratio 0.96:1 sta	20.4 in (518 mm) Indard, 1.1:1 high flow
Water pump: Style Flow	Centrifugal 29 gpm (110 L/min)
•	Rotor pump w/ deep pan, plate cooler and under-piston nozzles
Pump operating angle ratir	ngs:
Side to side Bucket up Bucket Down	45° 35° 45°

LIFT GEOMETRY

Vertical Lift

DRIVETRAIN

Drive pump controls S Pump to engine ratio Displacement	Servo-assist mechanical 1:1 2.81 in ³ (46 cm ³)
Flow @ rated engine RF	PM:
@ 97% efficiency	29.4 gpm (111 L/min)
Charge pressure	360 psi (24.5 bar)
System relief pressure	5,220 psi (360 bar)
Drive pump controls	Electro-hydraulic
Pump to engine ratio	1:1 2.75 in ³ (45 cm ³)
Displacement	()
Flow @ rated engine RF	
@ 97% efficiency	28.8 gpm (109 L/min)
Charge pressure	362 psi (25 bar)
System relief pressure	5,220 psi (360 bar)
Drive motors:	
Max. displacement	28.7 in ³ (470 cm ³)
Displacement – optiona	
High speed	17.2 in ³ (282 cm ³)
Motor RPM @ high idle	and 97% efficiency:
Standard 1-speed	237
Optional 2-speed	355
Motor torque @ max. di	
pressure, calculated	@ 5,220 psi (360 bar):
	1,987 lb·ft (2 694 N·m)
Travel speed:	
Low range	7.0 mph (11.3 kph)
High range – optional	10.5 mph (16.9 kph)
Final drive Sing	
	le-reduction chain drive
Drive chain:	le-reduction chain drive
Drive chain: Size	le-reduction chain drive ASA #100
Drive chain: Size Tensile strength	le-reduction chain drive
Drive chain: Size Tensile strength Axles:	le-reduction chain drive ASA #100 30,000 lb (133.4 kN)
Drive chain: Size Tensile strength Axles: Torque @ max. displace	ASA #100 30,000 lb (133.4 kN)
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Drive chain: Size Tensile strength Axles: Torque @ max. displace relief pressure Diameter Length Parking brake:	Ie-reduction chain drive ASA #100 30,000 lb (133.4 kN) ement and 5,957 lb-ft (8 077 N·m) 2.44 in (62 mm) 15.6 in (396 mm) pring-applied, hydraulic
Drive chain: Size Tensile strength Axles: Torque @ max. displace relief pressure Diameter Length Parking brake: Type S	Ie-reduction chain drive ASA #100 30,000 lb (133.4 kN) ement and 5,957 lb·ft (8 077 N·m) 2.44 in (62 mm) 15.6 in (396 mm) pring-applied, hydraulic release multiple disc.
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ELECTRICAL

Alternator	120 amp
Starter	4.29 hp (3.2 kW)
Battery	12-volt low-maintenance
925 cold-cr	anking amps @ 0° F (-18° C°)

OPERATOR ENVIRONMENT

Enclosed Cab w/ Heater and AC; Fully sealed and pressurized - FSP; Glass door w/ wiper and washer; Sliding side windows - removable; Heater and air conditioner; AM/FM radio w/ 2 speakers; Keyless start ignition; Tilt ROPS/FOPS;



Rear window w/ emergency escape; Deluxe cloth, air suspension seat, w/ 2 in (51 mm) retractable 3 point lap seat belt, w/ heater and lumbar support; Hand and foot throttle; 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, 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; 72 in Low Profile bucket; full of fuel; 12 x 16.5 tires: 8,090 lb (3 670 kg) Shipping weight 7,665 lb (3 475 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) 300 lb (136.0 kg) Additional counterweight

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	240	

Gear			
2.23 in ³ (36.6 cm ³)			
1.24 in ³ (20.4 cm ³)			
engine RPM:			
24.2 gpm (91.5 L/min)			
Optional high-flow @ rated engine RPM:			
37.6 gpm (142.5 L/min)			
en center/series - series			
3,046 psi (210 bar)			
3,263 psi (225 bar)			
3,770 psi (260 bar)			
1,160 psi (80 bar)			
37° JIC Flare			
SAE 100 R19			

HYDRAULICS CONT.

Hydraulic oil cooler:Number of fins10 per inch (3.94 per cm)Number of tube rows x columns11 x 2Area130.7 in² (843.2 cm²)Hydraulic filterBeta (4) = 75/spin-onLift cylinders:Bore diameter2.75 in (69.85 mm)

Bore diameter	2.75 in (69.85 mm)
Rod diameter	2.0 in (50.8 mm)
Stroke	34.9 in (886.5 mm)
Closed length	47.4 in (1 205 mm)

Bucket cylinders:
Bore diameter
Rod diameter
Stroke
Closed length

Engine oil w/ filter

Fuel tank

SERVICE CAPACITIES

3.0 in (76.2	mm)
1.5 in (38.1	mm)
16.4 in (410	mm)
24.0 in (610	mm)

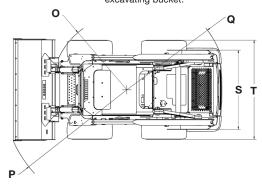
25.5 gal (96.5 L)

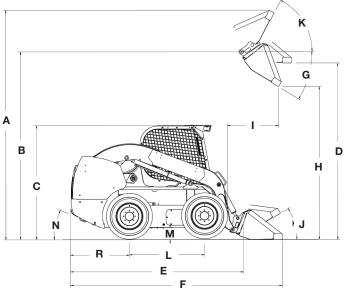
8.9 qt (8.5 L)

6.0 gal (22.7 L)
11.99 gal (45.46 L)
5.8 gal (22.2 L)

PERFORMANCE SPECS		
Rated operating capacity – 50% of tipping load w/ additional counterweig	2,800 lb (1 270 kg)	
Tipping load*	5,600 lb (2 540 kg)	
Breakout forces @ 3,150 psi (217 bar)*: Bucket cylinders 8,776 lb (39.0 kN) Lift cylinders – tip limit 6,011 lb (26.7 kN)		
Cycle times: Raise Lower Dump Roll back	4.6 sec 3.5 sec 2.6 sec 2.0 sec	

NOTE: *Measured using 72 in (1.83 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 with low profile bucket with low profile extended bucket	160.4 in (4.07 m) 164.4 in (4.18 m) 169.5 in (3.04 m)
Height to: B. Bucket hinge pin C. Top of ROPS D. Bottom of level bucket, fully raised	130.0 in (3.30 m) 78.8 in (2.00 m) 119.6 in (3.04 m)
Overall length: E. without attachment with coupler F. with foundry/excavating bucket on ground with low profile bucket with low profile extended bucket	117.7 in (2.99 m) 141.9 in (3.60 m) 146.0 in (3.71 m) 151.0 in (3.84 m)
G. Maximum dump angle H. Dump height: with foundry/excavating bucket with low profile bucket	53.5° 103.5 in (2.63 m) @ 45° 100.6 in (2.56 m) @ 45°
I. Dump reach at maximum height with low profile bucket	29.3 in (0.74 m) @ 45°
Maximum attachment rollback: J. Bucket on ground K. Bucket at full height	35.0° 86.0°
L. Wheelbase	52.0 in (1.32 m)
M. Ground clearance – bottom of belly pan N. Angle of departure	8.0 in (0.20 m) 23.5°
 Angle of departure Clearance circle: O. without bucket P. with 72 in (1.83 m) foundry/excavating bucket in carry position with 72 in (1.83 m) low profile bucket on ground with 72 in (1.83 m) extended low profile on ground 	56.2 in (1.43 m) 84.1 in (2.14 m) 87.8 in (2.23 m) 92.4 in (2.35 m)
Q. Clearance circle rear	70.4 in (1.79 m)
R. Rear axle to bumper	40.7 in (1.03 m)
S. Tread over gauge with spec tires	56.9 in (1.45 m)
T. Over the tire width spec tires	69.6 in (1.77 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)
	84 in (2.13 m)	545 lb (248 kg)	22.6 ft ³ (0.64 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)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

F5H FL463 A*F001 diesel 207 CID (3.4 L) Turbo **Tier 4 Final Certified** Particulate Matter Catalyst Charged Air Cooler (CAC) High Pressure Common Rail (HPCR) fuel injection Horsepower: Gross: 74 hp (55 kW) Net: 68 hp (51 kW) Peak torque: 232 lb·ft (314 N·m) 120 amp alternator Dual element air cooler 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

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy with side screens Keyed start ignition 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 Non suspension seat

Suspension Seat, vinyl with 2 in (51 mm) retractable lap seat belt

Demolition cab door with polycarbonate FOPS level 2

Integral engine oil cooler Fuel filter with water trap 925 CCA 12V battery Master electrical disconnect

DRIVETRAIN

2-speed hydrostatic four wheel drive ASA #100HS drive chain SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics: @ 3,050 psi (210 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

Auxiliary front electric control Heavy duty hydraulic attachment coupler Vertical lift geometry Loader lift arm support strut In-cab loader lock

TIRES

12 X 16.5 Heavy duty

OTHER STANDARD FEATURES

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

HYDRAULICS

High-flow auxiliary hydraulics - combined: @ 3,050 psi (210 bar) - 37.6 gpm (142.5 L/min) Second auxiliary hydraulics

Hydraulic one-way self-leveling Ride control

LOADER

Hydraulic attachment coupler

OTHER

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

FACTORY SUPPLIED ATTACHMENTS

Add-on counterweights Road lights Rotating beacon Four-corner LED strobe Bolt-on heavy-duty bucket teeth

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

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