

FL9

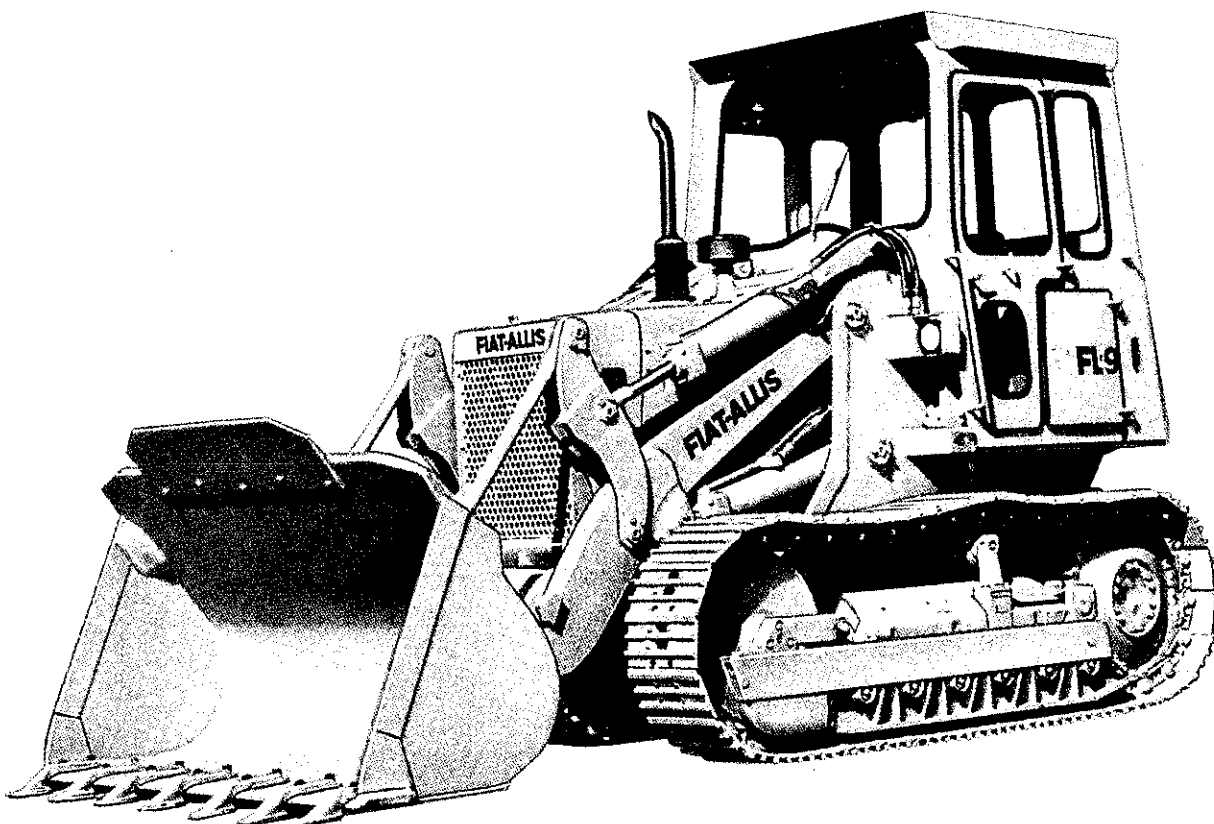


Illustration includes
optional equipment.

FL9 Crawler Loader

POWER SHIFT ... 87 Flywheel H.P.

BUCKETS

- General Purpose — $1\frac{5}{8}$ cu. yd. (1.24 m³)
- Light Material — $1\frac{7}{8}$ cu. yd. (1.43 m³)
- Multi-Purpose — $1\frac{5}{8}$ cu. yd. (1.24 m³)

WEIGHT

- Operating Weight — 26,635 lbs. (12082 kg) to 24,005 lbs. (10889 kg)

DIGGING ABILITY

- Breakout Force — 18,750 lbs. (8500 kg) to 17,000 lbs. (7710 kg)

STABILITY

- Tipping Load — 18,734 lbs. (8498 kg) to 14,365 lbs. (6516 kg)
- Length of Track on Ground — 85 in. (2160 mm)

LOADING ABILITY

- Dump clearance — 105½ in. (2680 mm) to 102½ in. (2605 mm)
- Hinge pin height — 134½ in. (3415 mm)
- Automatic bucket positioner and lift-kickout
- Pedal steering

DEPENDABILITY

- Full power shift, countershaft type transmission
- Completely sealed hydraulic system
- Double reduction final drives
- Disc idlers
- Full length track roller guards
- Reinforced bucket with extended cutting edge

SERVICEABILITY

- Externally mounted hydraulic control valves
- Hydraulic track adjusters
- Air cleaner service indicator
- Hydraulic oil filter restriction indicator

FL9 SPECIFICATIONS



ENGINE

Flywheel horsepower*	87
Kilowatts**	65
DIN Horsepower***	91
Make and Model	Fiat OM C03-130 MT
Type	Diesel, 4 cycle,

naturally aspirated, direct injection

Governed RPM	2100
Number of cylinders	4
Bore and stroke	4.53 x 5.12" (115 x 130 mm)
Displacement	329.4 cu. in. (5.4 lit)

*The net flywheel horsepower of the vehicle engine under SAE standard conditions of 85° F. (29° C.) and 29.38" (736 mm) Hg. after deductions have been made for fan, alternator, lube oil pump, water pump, air cleaner, fuel pump, and muffler.

**The International System of Units for power. One (1) horsepower equals 0.746 kilowatt in U.S.A. units.

***The net flywheel horsepower of the vehicle engine under standard conditions of 68° F. (20° C.) and 28.98" (736 mm) Hg. after deductions have been made for fan, alternator, lube oil pump, water pump, air cleaner, fuel pump, and muffler.



ELECTRICAL SYSTEM

Voltage	24V
Standard alternator	25 amp
Battery amp/hour rating	77



TORQUE CONVERTER

Type	Single Stage, Rotating Housing
Torque Multiplication	3.1 to 1



TRANSMISSION

Type	Full Power-Shift
	Countershaft, Constant Mesh
Actuation	Single Lever
Clutches	Multi-disc, Hydraulic
Lubrication	Full Pressure

Fwd	MPH	Km/h	Rev	MPH	Km/h
1st	0-2.1	(0-3.4)	1st	0-2.5	(0-4.1)
2nd	0-3.3	(0-5.3)	2nd	0-3.9	(0-6.2)
3rd	0-5.7	(0-9.2)	3rd	0-6.5	(0-10.5)

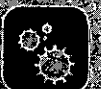


STEERING AND BRAKING

Steering and braking are controlled by a foot pedal for each track. Partial depression of pedal releases clutch; full depression applies brake. Full flow oil filtering system.

Clutches — Oil cooled and lubricated. Heavy duty multiple bimetallic discs. Hydraulically actuated. 10 friction surfaces each clutch.

Brakes — Contracting band. Mechanically actuated (dead engine safety). Oil cooled and lubricated.



FINAL DRIVES

Type	Double Reduction
Ratio	9.95:1
Lubrication	Splash



TRACK

Box section track frames. Hydraulic track adjusters with full length guard. Disc idlers. Front track guiding guard. Full length track roller guards. Long-life lubricated rollers and idlers, with metal to metal seals.

Track Frame	Non-oscillating
Track Rollers (each side)	6
Double Flange	3
Single Flange	3
Number of Shoes (each side)	39
Width of Standard Track Shoe	14" (360 mm)
Length of Track on Ground	85" (2160 mm)
Ground Contact Area	2387 sq. in. (1.54 m ²)
Gauge	60 1/4" (1530 mm)
Ground Clearance	14 3/8" (370 mm)



LOADER HYDRAULIC SYSTEM

Reservoir	Closed
Cylinders	Double Acting
Lift (2)	4 3/4 x 27" (140 x 795 mm)
Dump (2)	4 1/4 x 25" (110 x 635 mm)
Pump	Gear Type-Single
Capacity @ governed RPM	38 1/2 GPM (146 lit/min)
Control Valve	Three Spool
Relief Valve Pressure	2200 PSI (155 kg/cm ²)
Actuation	Dual Levers
Lift Circuit	Raise, Hold, Lower, Float
Dump Circuit	Roll Back, Hold, Dump



FILTRATION SYSTEMS

ENGINE

Lube oil	One spin on 15 micron (paper element)
Fuel	One spin on 20 micron paper element
	One replaceable 5 micron paper element
Air cleaner	Dry type with inner safety element and precleaner

TRANSMISSION AND TORQUE CONVERTER

Intake	Full flow 100 micron metallic element with magnetic plug
Delivery	Full flow 30 micron metallic

STEERING AND BRAKING

Intake	100 micron metallic element with magnetic plug
Delivery	15 micron paper

HYDRAULIC

Intake	100 micron metallic with magnetic plug
Return	20 micron replaceable paper element



CAPACITIES

ENGINE

Lube Oil	2 1/2 U.S. gal (9.4 lit)
Coolant	6 1/2 U.S. gal (25 lit)
Fuel Tank	50 U.S. gal (190 lit)

TRANSMISSION

TORQUE CONVERTER	4 1/2 U.S. gal (17.4 lit)
STEERING AND BRAKES	4 U.S. gal (15.3 lit)
FINAL DRIVES (each)	3 3/4 U.S. gal (14.2 lit)
HYDRAULIC	12 U.S. gal (45 lit)

SHIPPING WEIGHT

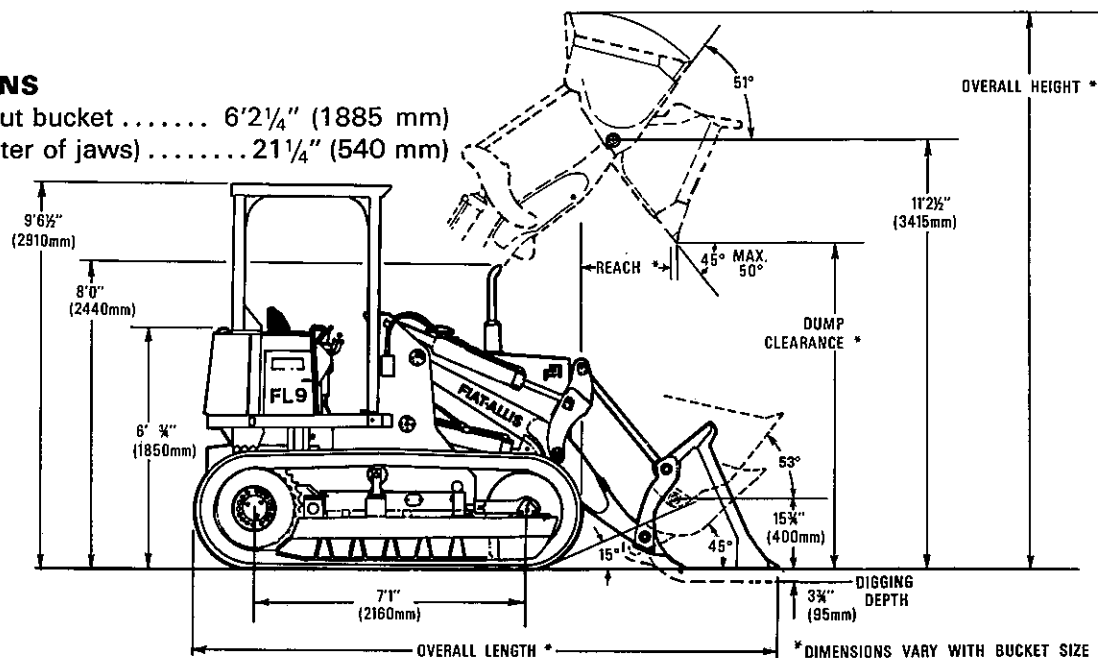
w/ standard equipment23,515 lbs. (10666 kg)

w/o canopy and seat belts22,900 lbs. (10387 kg)

**DIMENSIONS**

Overall width, without bucket 6'2 1/4" (1885 mm)

Drawbar height (center of jaws)21 1/4" (540 mm)

**PERFORMANCE SPECIFICATIONS*** DIMENSIONS VARY WITH BUCKET SIZE
REFER TO PERFORMANCE SPECIFICATIONS

BUCKET TYPE	GENERAL PURPOSE	LIGHT MATERIAL	MULTI-PURPOSE
RATED BUCKET CAPACITY	1 5/8 cu. yd. 1,24 m ³	1 7/8 cu. yd. 1,43 m ³	1 5/8 cu. yd. 1,24 m ³
STRUCK BUCKET CAPACITY	1.39 cu. yd. 1,06 m ³	1.50 cu. yd. 1,15 m ³	1.35 cu. yd. 1,03 m ³
BUCKET WIDTH	80 3/4" 2050 mm	80 3/4" 2050 mm	80 3/4" 2050 mm
*OVERALL LENGTH (Bucket on ground)	15 1/4" 4495 mm	15 3/4" 4665 mm	15 1 1/2" 4605 mm
*OVERALL HEIGHT (Bucket raised)	15' 4490 mm	15 2 3/4" 4645 mm	15 2 1/4" 4630 mm
*DUMP CLEARANCE @ 45°	8 9 1/2" 2680 mm	8 7 1/4" 2620 mm	8 6 1/2" 2605 mm
*REACH @ 45°	34 3/4" 880 mm	37" 940 mm	33" 840 mm
BREAKOUT FORCE	18,750 lbs. 8500 kg	17,000 lbs. 7710 kg	18,150 lbs. 8230 kg
TIPPING LOAD	15,305 lbs. 6942 kg	15,042 lbs. 6823 kg	14,365 lbs. 6516 kg
OPERATING WEIGHT	24,005 lbs. 10889 kg	24,275 lbs. 11011 kg	24,795 lbs. 11247 kg
OPTIONAL EQUIPMENT PERFORMANCE DATA	WEIGHT INCREASE		TIPPING LOAD INCREASE**
	ROPS CAB		809 lbs. 367 kg
	RIPPER (Three Shanks)		2620 lbs. 1190 kg
	WINCH		335 lbs. 150 kg
	COUNTERWEIGHT		1450 lbs. 660 kg

NOTE: All performance specifications are obtained in compliance with the latest SAE Recommended Practices including J732c and J742b. Performance specifications are based on the standard unit equipped with bucket as indicated. **Based on 1 5/8 cu. yd. (1,24 m³) bucket.



RIPPER

RIPPER

Overall width 5'10³/₄" (1795 mm)
 Ripping width 4'11" (1500 mm)
 Ground clearance under tip, raised 16¹/₂" (420 mm)
 Overall length (implements lowered) 18'3" (5565 mm)
 Weight (basic ripper - less shanks) 1944 lbs. (880 kg)

BEAM (Welded Box Section)

Length 5'10³/₄" (1795 mm)
 Section 7⁷/₈" x 7⁷/₈" (200 x 200 mm)

SHANKS (3 Standard)

Type Semi-Curved, non-adjustable
 Spacing Center to Center 29¹/₂" (750 mm)
 Max. Depth of Penetration 14¹/₄" (360 mm)
 Length 2'7" (790 mm)
 Section 2.36" x 6" (60 x 150 mm)
 Weight, each shank
 (Wear plate and 1 tooth) 150 lbs. (68 kg)

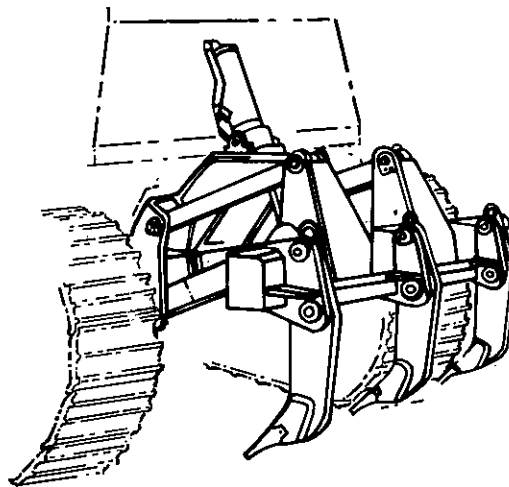
TEETH

Type One-piece, cast, self-sharpening
 Length 10¹/₂" (265 mm)
 Weight, each 16 lbs. (7,3 kg)

CONTROL

Hydraulic Single, double acting cylinder

Model SPL 9



STANDARD EQUIPMENT

- Air cleaner service indicator
- Alternator - 25 amp
- Anti-freeze
- Automatic bucket positioner
- Automatic lift kickout
- Boom support safety arm
- Counterweight — 1250 lbs. (560 kg)
- Fan-blower
- Fixed drawbar
- Full width crankcase and transmission guard
- Full track roller guard
- Track guiding guard, front
- Hood side plates
- Hook, front pull
- Horn
- Hydraulic track adjusters
- Hydraulic valve - 3 spool
- Muffler
- Radiator sand screens
- ROPS canopy
- Seat adjustable
- Seat belt
- Tool kit
- Vandalism protection-less locks
- Color coded gauges:
 - engine oil pressure
 - engine coolant temperature
 - transmission clutch pressure
 - transmission oil temperature
 - tachometer - hour meter
 - hydraulic oil level sight gauge
- Visual warning lights:
 - battery charge
 - transmission low lube oil pressure
 - hydraulic oil filter restriction
- 1⁵/₈ cu. yd. (1,24 m³) General Purpose Bucket
- Track shoes — 14" (360 mm)



OPTIONAL AND ALLIED EQUIPMENT

- Back hoe
- Buckets, general purpose, light material, multi-purpose, side dump
- Bucket teeth
- ROPS cabs
- Cab heater
- Cold weather starting aid
- Canopy front sweeps
- Canopy rear screen
- Counterweight
- Defroster fans
- Fire suppression kits
- Front attachment-quick disconnect
- Lighting
- Log forks
- Lumber forks
- Ripper
- Street shoes
- Winch
- Windshield wipers



The information contained herein is general in nature and is not intended for specific application purposes. Fiat-Allis reserves the right to make changes in specifications shown herein or add improvements at any time without notice or obligation. Illustrations show standard and optional items.