

FL14-B

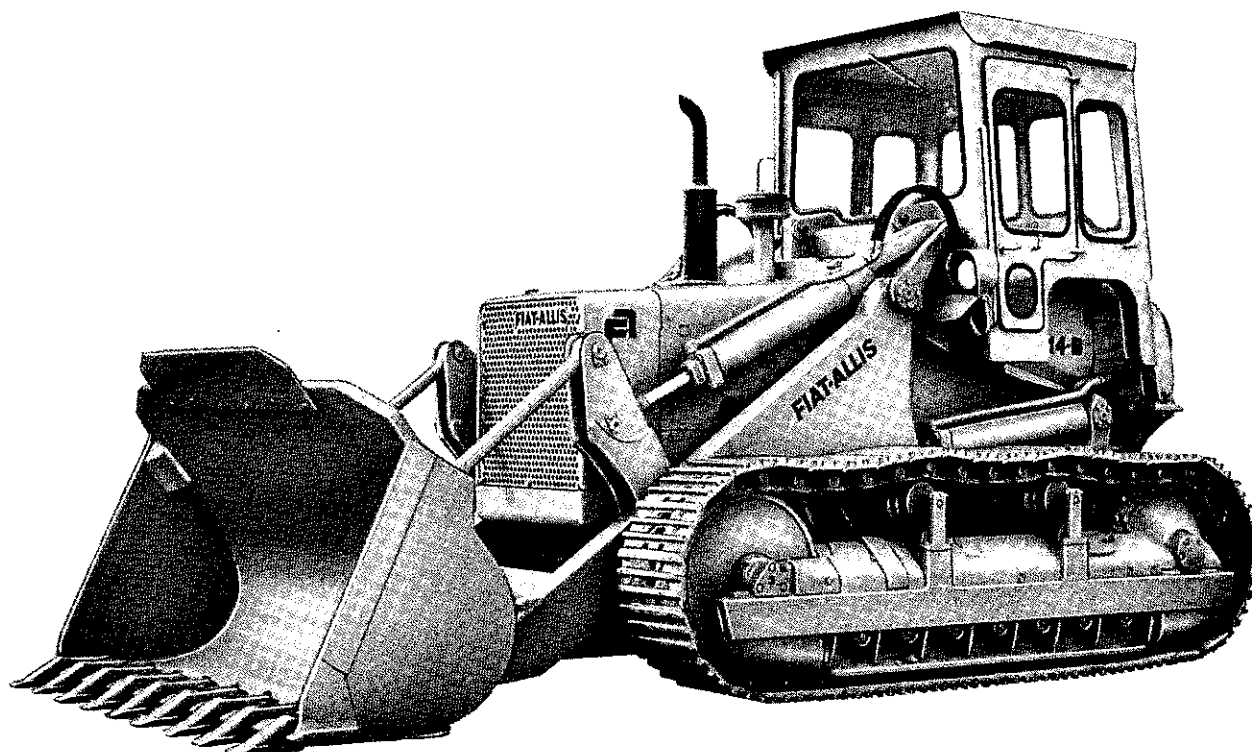


Illustration includes
optional equipment.

FL14-B Crawler Loader

POWER SHIFT ... 143 Flywheel H.P.

BUCKETS

- General Purpose — $2\frac{1}{2}$ cu. yd. (1,91 m³)
- Light Material — 3 cu. yd. (2,29 m³)
- Multi-Purpose — $2\frac{1}{4}$ cu. yd. (1,72 m³)

WEIGHT

- Operating Weight — 42,058 lbs. (19080 kg) to 37,620 lbs. (17065 kg)

DIGGING ABILITY

- Breakout Force — 26,000 lbs. (11795 kg) to 22,540 lbs. (10225 kg)

STABILITY

- Tipping Load — 30,650 lbs. (14195 kg) to 22,575 lbs. (9910 kg)
- Length of Track on Ground .. $102\frac{1}{4}$ in. (2600 mm)

LOADING ABILITY

- Dump clearance — 120 in. (3050 mm) to $111\frac{1}{2}$ in. (2830 mm)
- Hinge pin height — $151\frac{1}{2}$ in. (3850 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
- Bolt-on sprocket segments

FL14-B SPECIFICATIONS



ENGINE

Flywheel horsepower* 143
 Kilowatts** 107
 DIN Horsepower*** 150
 Make and Model Fiat 8205
 Type Diesel, 4 cycle,
 naturally aspirated, direct injection

Governed RPM 2000
 Number of cylinders 6
 Bore and stroke 4.80" x 5.51" (122 x 140 mm)
 Displacement 599.2 cu. in. (9.8 lit)

*The net flywheel horsepower of the vehicle engine under SAE standard conditions of 85° F. (29° C) and 29.38" (746 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 143



TORQUE CONVERTER

Type Single Stage, Rotating Housing
 Torque Multiplication 2.37:1



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	0-2.6	(0-4.2)
2nd	0-3.5	(0-5.6)	2nd	0-4.3	(0-6.9)
3rd	0-5.5	(0-8.8)	3rd	0-6.5	(0-10.4)



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. 15 friction surfaces each clutch.

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



FINAL DRIVES

Type Double Reduction
 Ratio 12.286:1
 Lubrication Splash



TRACK

Box section track frames. Hydraulic track adjusters with heavy duty guard. Bolt on sprocket segments. Inner and outer sprocket guards. Disc idlers. Front and rear track guiding guards. Full length track roller guards. Lifetime lubricated rollers and idlers with metal to metal seals.

Track Frame Non-oscillating
 Track Rollers (each side) 7
 Double Flange 6
 Single Flange 1
 Number of Shoes (each side) 41
 Width of Standard Track Shoe 16 3/4" (425 mm)
 Length of Track on Ground 102 1/4" (2600 mm)
 Ground Contact Area 3425 1/4 sq. in. (2.2 m²)
 Gauge 73 1/2" (1870 mm)
 Ground Clearance 16" (410 mm)



LOADER HYDRAULIC SYSTEM

Reservoir Closed
 Cylinders Double Acting
 Lift (2) 6 1/4" x 33 3/4" (160 x 860 mm)
 Dump (2) 5" x 29 3/4" (130 x 755 mm)
 Pump
 Capacity @ governed RPM 75.7 GPM (287 lit/min)
 Control Valve Three Spool
 Relief Valve Pressure 1850 PSI (130 kg/cm²)
 Actuation Dual Levers
 Lift Circuit Raise, Hold, Lower, Float
 Dump Circuit Roll Back, Hold, Dump



FILTRATION SYSTEMS

ENGINE

Lube oil Two spin on 15 micron (paper elements)
 Fuel One spin on 10 micron paper element
 One replaceable 30 micron cloth element
 Air cleaner Dry type with inner safety element

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 250 micron metallic with magnetic plug
 Return 20 micron replaceable element



CAPACITIES

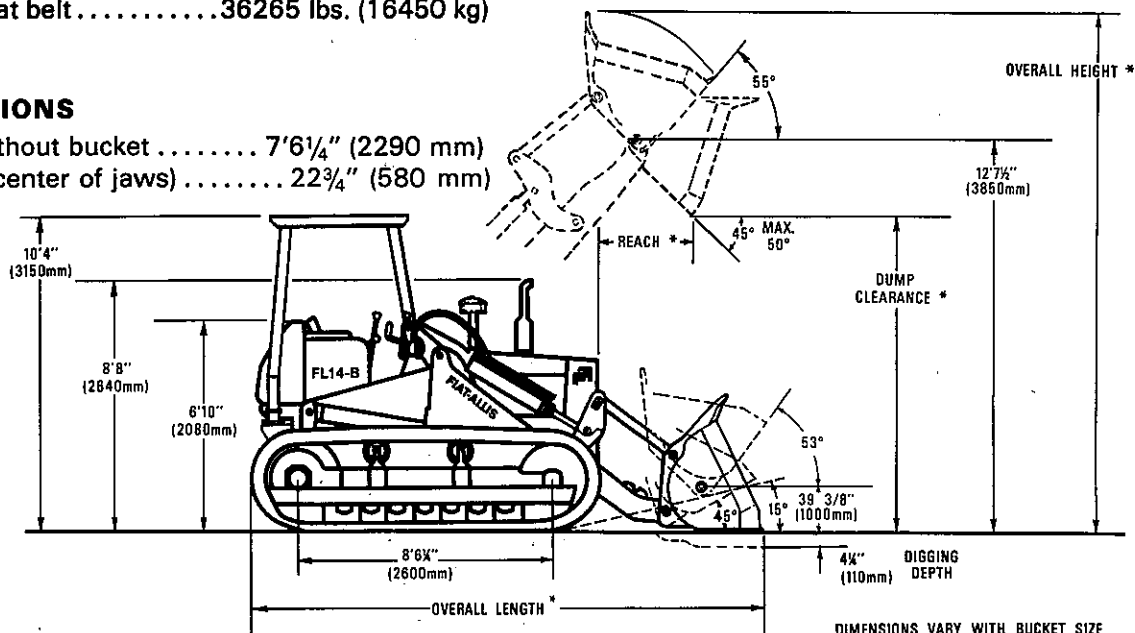
ENGINE

Lube Oil 7 1/2 U.S. gal (28.4 lit)
 Coolant 12 U.S. gal (46 lit)
 Fuel Tank 65 1/2 U.S. gal (248 lit)
 TRANSMISSION, TORQUE CONV. ... 10 3/4 U.S. gal (40.7 lit)
 STEERING AND BRAKES 7 1/4 U.S. gal (27.5 lit)
 FINAL DRIVES (each) 3 U.S. gal (11.3 lit)
 HYDRAULIC 23 1/2 U.S. gal (89 lit)

SHIPPING WEIGHT

w/standard equipment37015 lbs. (16790 kg)

w/o canopy & seat belt36265 lbs. (16450 kg)

**DIMENSIONS**Overall width, without bucket 7'6 $\frac{1}{4}$ " (2290 mm)Drawbar height (center of jaws) 22 $\frac{3}{4}$ " (580 mm)**PERFORMANCE SPECIFICATIONS**DIMENSIONS VARY WITH BUCKET SIZE
REFER TO PERFORMANCE SPECIFICATIONS *

BUCKET TYPE	GENERAL PURPOSE	LIGHT MATERIAL	MULTI-PURPOSE
RATED BUCKET CAPACITY	2 $\frac{1}{2}$ cu. yd. 1,91 m ³	3 cu. yd. 2,29 m ³	2 $\frac{1}{4}$ cu. yd. 1,72 m ³
STRUCK BUCKET CAPACITY	2.15 cu. yd. 1,64 m ³	2.5 cu. yd. 1,91 m ³	1.9 cu. yd. 1,45 m ³
BUCKET WIDTH	98 $\frac{1}{2}$ " 2500 mm	98 $\frac{1}{2}$ " 2500 mm	98 $\frac{1}{2}$ " 2500 mm
*OVERALL LENGTH (Bucket on ground)	17'6 $\frac{3}{4}$ " 5335 mm	17'11" 5460 mm	18' 5490 mm
*OVERALL HEIGHT (Bucket raised)	17' 5070 mm	17'5 $\frac{1}{4}$ " 5315 mm	16'9" 5110 mm
*DUMP CLEARANCE @ 45°	10' 3050 mm	9'9" 2970 mm	9'3 $\frac{1}{2}$ " 2830 mm
*REACH @ 45°	37 $\frac{1}{2}$ " 950 mm	40 $\frac{1}{2}$ " 1030 mm	35" 890 mm
BREAKOUT FORCE	26,000 lbs. 11795 kg	23,200 lbs. 10525 kg	22,540 lbs. 10225 kg
TIPPING LOAD	24,125 lbs. 10943 kg	23,415 lbs. 10621 kg	22,575 lbs. 10240 kg
OPERATING WEIGHT	37,620 lbs. 17064 kg	38,160 lbs. 17309 kg	38,800 lbs. 17600 kg
OPTIONAL EQUIPMENT PERFORMANCE DATA		WEIGHT INCREASE	TIPPING LOAD INCREASE**
ROPS CAB		1005 lbs. 456 kg	1260 lbs. 571 kg
RIPPER (Three Shanks)		2253 lbs. 1020 kg	5230 lbs. 2370 kg
WINCH		810 lbs. 370 kg	1370 lbs. 620 kg
COUNTERWEIGHTS		730 lbs. 330 kg 1470 lbs. 670 kg	1315 lbs. 600 kg 2660 lbs. 1210 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 2 $\frac{1}{2}$ cu. yd. (1,91 m³) bucket.



RIPPER

RIPPER

Overall width 7' (2150 mm)
 Ripping width 5'11" (1800 mm)
 Ground clearance under tip, raised 16 1/4" (415 mm)
 Overall length (implements lowered) 21'7" (6580 mm)
 Weight (basic ripper - less shanks) 3265 lbs. (1480 kg)

BEAM (Welded Box Section)

Length 7' (2150 mm)
 Section 8 1/4" x 8 1/2" (210 x 220 mm)

SHANKS (3 Standard)

Type Semi-curved, non-adjustable
 Spacing center to center 35 1/4" (900 mm)
 Max. Depth of penetration 18" (460 mm)
 Length 3'2 3/4" (985 mm)
 Section 2 1/2" x 8 3/4" (60 x 220 mm)
 Weight, each shank
 (Wear plate and 1 tooth) 180 lbs. (82 kg)

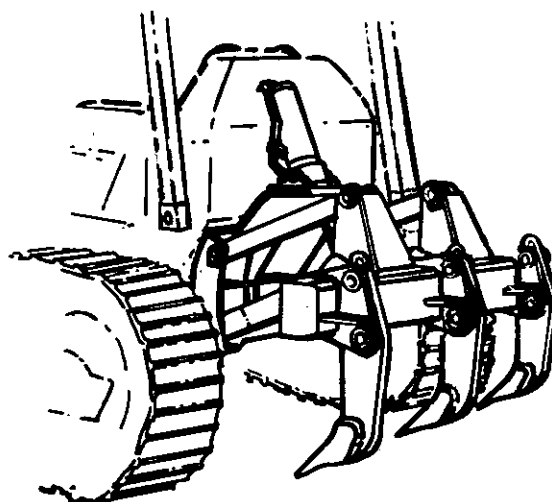
TEETH

Type One-piece, cast, self-sharpening
 Length 10 1/2" (265 mm)
 Weight, each 16 lbs. (7.3 kg)

CONTROL

Hydraulic Single, double acting cylinder

Model SPL 14



STANDARD EQUIPMENT

- Air cleaner service indicator
- Alternator - 25 amp
- Anti-freeze
- Automatic bucket positioner
- Automatic lift kickout
- Counterweight - 1540 lbs. (700 kg)
- Decelerator
- Fan-blower
- Fixed drawbar
- Full width crankcase and transmission guard
- Full track roller guard
- Sprocket guards (inner & outer)
- Track guiding guards - front & rear
- 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
- Visual warning lights
 - battery charge
 - transmission lube oil pressure
- Hydraulic track adjusters
- 2 1/2 cu. yd. (1.91 m³) General purpose bucket
- Track shoes - 16 3/4" (425 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 kit
- Front attachment-quick disconnect
- Lighting
- Logforks
- 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.