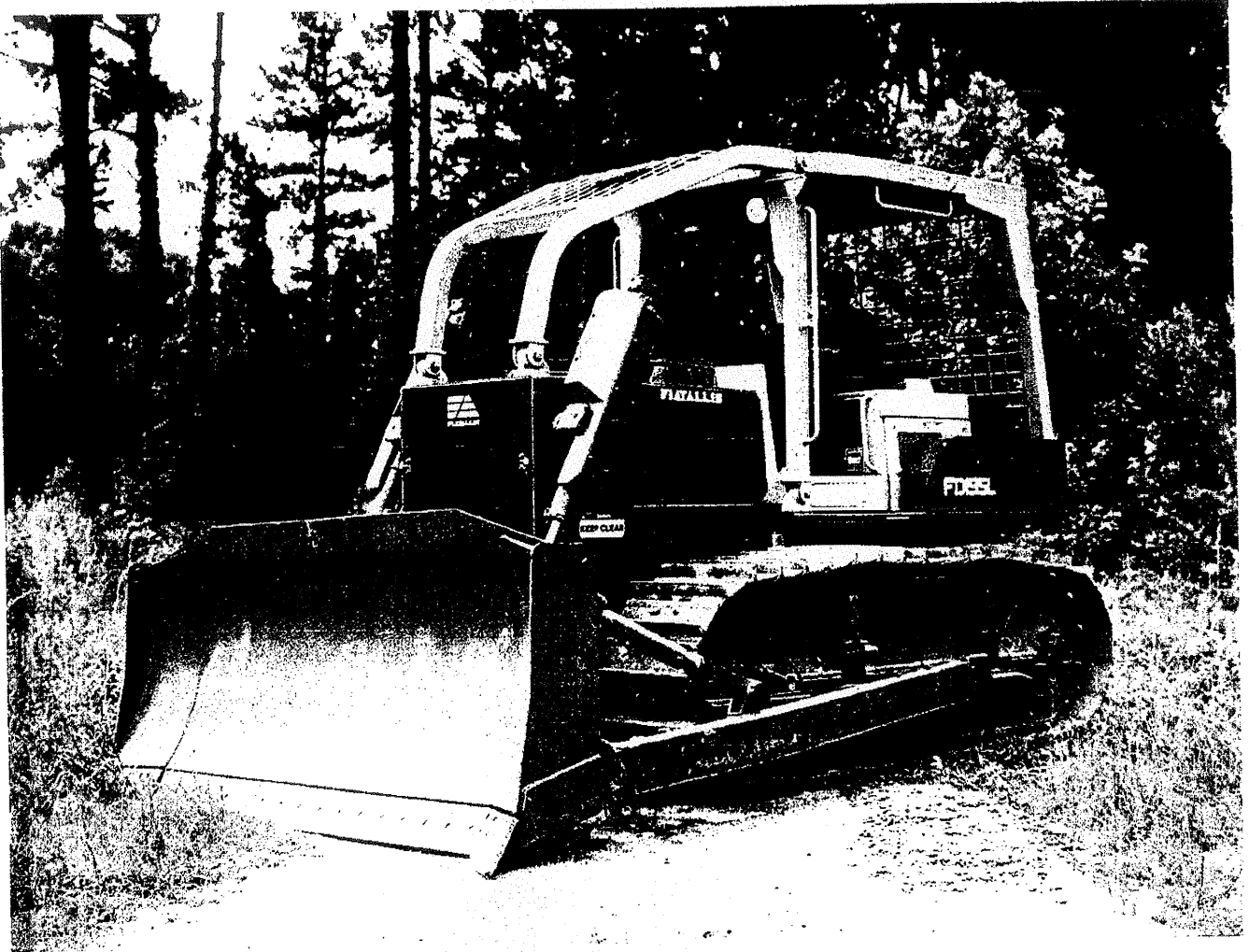


FIATALLIS CRAWLER TRACTOR

FD195L



- NET FLYWHEEL POWER 123 kW/167 HP
- OPERATING WEIGHT 18,480 kg/40,746 lb.



FIATALLIS®

FD195L Specifications



ENGINE

FLYWHEEL POWER (SAE)123 kW* **167 HP**
 The net flywheel power of the vehicle engine under conditions of temperature and pressure specified in SAE standard J1349, i.e. at 25°C/77°F and 100 kPa/29.63 in. Hg after deductions have been made for fan, alternator, lubrication oil pump, water pump, air cleaner, fuel pump, air compressor and muffler.

* Values given in kW derive from the HP to kW conversions of the International System of Units.

Make and modelFiat 8365 T
 TypeDiesel, 4 cycle, turbocharged direct injection
 Governed rpm2,000
 Number of cylinders6
 Bore x stroke115 x 130 mm **4.53" x 5.12"**
 Displacement8, 1 lit / **494 cu. in.**
 Lubricationfull pressure by double gear pump
 Maximum torque702 Nm at 1,400 rpm
**518 lb. ft.** at 1,400 rpm

Altitude performance: Engine will maintain specified flywheel power up to 2,500 m **8,200 ft.**



ELECTRICAL SYSTEM

System voltage24
 Alternator55 amp.
 Batteries in series2
 typemaintenance free
 rating (total)160 Ah
 Starter7.5 kW



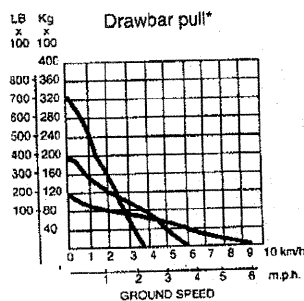
POWER SHIFT TRANSMISSION

TORQUE CONVERTER

Typesingle stage, single phase
 Torque multiplication ratio2.7:1
TRANSMISSION

Type: full powershift, countershaft design, with five modulating valves for controlled directional and speed clutch pack engagement.
 ControlHydropower, single lever, open pattern
 Clutchesmultiple disc, hydraulically operated
 — Lever provided for locking transmission in neutral and prevention of engine starts with transmission in gear.

Max. speeds		
Fwd	Km/h	MPH
1st	3.7	2.29
2nd	6.1	3.78
3rd	9.6	5.95
Rev	Km/h	MPH
1st	4.6	2.85
2nd	7.5	4.65
3rd	11.5	7.13



*Drawbar tractive efforts depend on coefficient of adhesion, rolling resistance and crawler dozer operating weight.



STEERING

Hydraulically released, spring applied, oil cooled multiple disc clutches

ControlHydropower, 2 levers, Partial travel releases clutch, full travel applies brakes
 Control Modulationhydraulic retarder valves provide smooth re-engagement of steering clutches
 Number of Driven Plates15 each side
 Total Friction Area-Each Clutch8,574 cm²/1,329 in²

BRAKES

Hydraulically assisted, spring applied, hydraulically released oil bath contracting band with automatic band adjustment.

ControlHydropower, by full travel of combined steering and braking levers.
 Central pedal simultaneously applies both track brakes.
 Total Friction Area-Each Brake937 cm²/145 in²
 Brakes are automatically applied with engine shut off and/or combined parking brake-transmission lock lever is applied.



FINAL DRIVES

TypeDouble reduction
 Reduction ratio12.3 to 1
 Lubricationoil bath



UNDERCARRIAGE

Sealed and lubricated track chain with split master link. Disc-type idlers. Sprockets w/bolt-on segments. Hydraulic track adjustment. Long life lubricated rollers and idlers with metal to metal seals.

Track frameBox Section
 Length of track on ground2,600 mm / **102.5"**
 Track gauge1,880 mm / **74.0"**
 Ground clearance406 mm / **16.0"**
 Track rollers (each side)7
 Carrier rollers (each side)2
 Track shoes (each side)41
 Shoe width600 mm / 23.75"
 Ground contact area3.12 cm² / **4,836 in²**
 Ground pressure0.52 bar / **7.6 psi**
 Track oscillation347 mm / **13.7"**



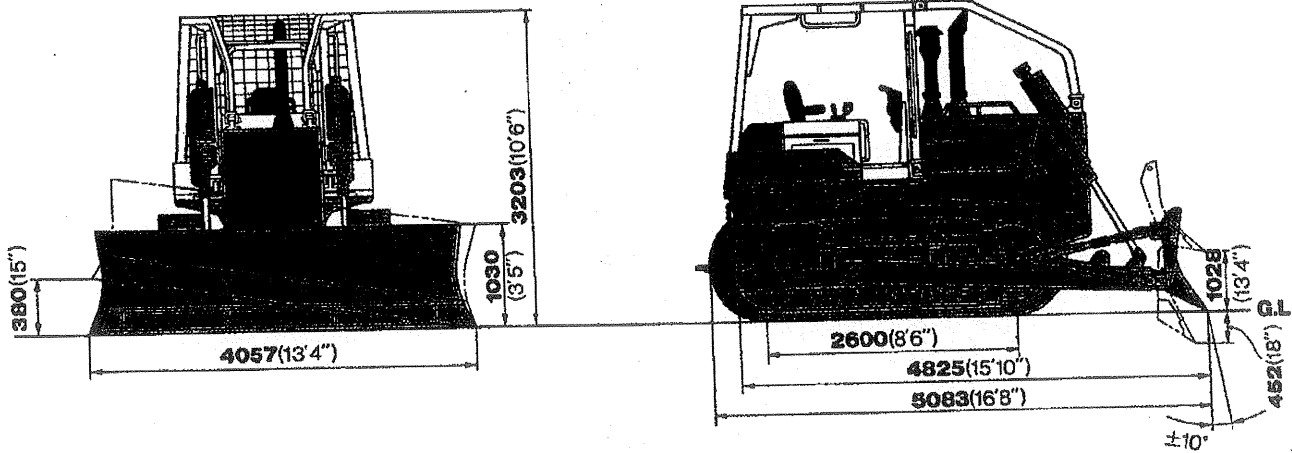
HYDRAULIC SYSTEM

Circuitsealed
 Pumpgear type, with automatic wear adjustment
 capacity (at 2000 engine rpm)162 Lit / min / **42.8 GPM**
 relief valve pressure190 bar / **2,755 psi**
 Control valvemonobloc, three balanced spools
 Blade lift and tilt controlsingle lever
 Blade control circuitraise, hold, lower, float
 tilt circuitright, hold, left
 Cylindersdouble acting
 blade lift (2)90 x 1050 mm / **3.54" x 41.4"**
 tilt (HSU) (1)140 x 126 mm / **5.51" x 4.96"**
 Safety lock for control levers
 Hydraulic sight gauges located to the rear of the hydraulic oil tank

FD195L Dimensions



Shipping weight 15,930 kg
 (including ROPS canopy, blade lift cylinders, lubricants, coolant, 10% fuel) 35,050 lb.

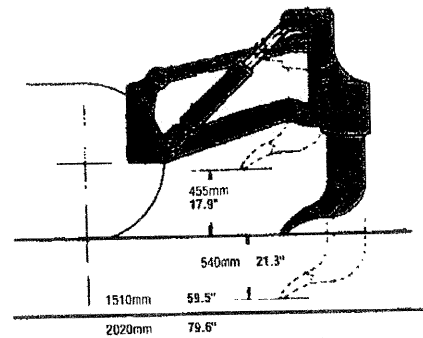


BLADE TYPE	Blade Width	Blade Height	Blade Capacity SAE J1265	Max tilt	Max pitch	Digging depth	Max lift above ground	Overall length with blade ***	Operating weight with blade*
Semi-U (HSU)	3,340mm 10'11 1/2"	1,350mm 53.1"	5.1m ³ 6.6 yd. ³	740mm 29.1"	11°	450mm 17.7"	1,000mm 39.4"	5,145mm 16'10 1/2"	18,480 kg 40,746 lb.
Angle (HA)**	4,057mm 13'4"	1,030mm 3'5"	3.2m ³ 4.2 yd. ³	380mm 1'3"	20°	452mm 1'6"	1,028mm 3'4"	5,085mm 16'8"	18,400 kg 40,570 lb.



RIPPER

Model PD175
 Type Parallelogram
 Overall width 2,130 mm / 83.9"
 Ripping width 1,900 mm / 74.9"
 Ripping depth 540 mm / 21.3"
 Shanks 3
 Shank depth adjustment holes 3
 Clearance, under raised shanks 455 mm / 17.9"
 Hydraulic cylinder, double acting 2
 bore x stroke 100 x 480 mm
 Weight (inc. hydraulics) 2,010 kg / 4,430 lb.



FILTRATION SYSTEMS

ENGINE
 Lube oil Strainer on intake; delivery one 15 micron
 Fuel One spin on 20 micron
 *Air cleaner Two stage, Dry type with dust ejector

TRANSMISSION AND TORQUE CONVERTER
 Intake Full flow 100 micron with magnetic rod
 Delivery 30 micron

STEERING AND BRAKING
 Intake Full flow 100 micron with magnetic rod
 Return 15 micron

HYDRAULIC
 Intake Full flow 100 micron with magnetic rod
 *Return 20 micron



REFILL CAPACITIES

	Liters	Gallons
ENGINE		
Lube oil	15.0	4.0
Coolant	40.0	10.5
Fuel tank	345	91.1
TRANSMISSION-TORQUE CONV.	39.0	8.7
STEERING AND BRAKES	32.0	8.5
FINAL DRIVES (each)	18.0	4.7
HYDRAULIC SYSTEM	57.0	14.8

*Restriction indicator on instrument panel in operator's compartment.

FD195L Standard Equipment

- Air cleaner, dry-type two stage
- Alternator, 55 Amp.
- Anti-freeze
- Back-up alarm
- Batteries, maintenance free, two 12V
- ROPS Canopy
- Decelerator
- Diagnostic test panel
- Drawbar
- Electrical system, 24V
- Engine side panels; upper, perforated and hinged
- Fan-pusher w/finger guard
- Guards — track tensioning, track end
- Hood, perforated
- Horn
- Hydraulic control locking lever
- Hydraulic system — three spool valve with single lever for blade lift and tilt
- Hydraulic track adjusters
- Hydropower controls for transmission, steering and braking
- Instrumentation—Electronic Data Monitor (E.D.M.)
 - Low level warning lights
 - Engine oil level
- Engine coolant level
- Transmission oil
- Low oil pressure warning lights
 - Engine
 - Transmission engagement
- High temperature warning lights
 - Engine Coolant
 - Transmission oil
- Restriction warning lights
 - Air cleaner
 - Hydraulic oil filter
- Indicators
 - Fuel level
 - Battery charge
- Main warning light
- Tachometer
- Hourmeter
- Lights, halogen, 2 front, 2 rear
- Logging Package
 - Heavy duty bottom guards
 - Lift cylinder and piping guards
 - Double type radiator guard
 - Sweeps guard
 - Sweeps screen
 - Rear Screen
 - Heavy duty rear tank guard with side extensions
- Muffler
- Pull hook, front
- Radiator, sand screen
- Starting receptacle
- Suspension seat, cloth w/seat belt
- Tilt cyl., pump and hoses for tiltable operator compartment
- Tool kit
- Track roller guards
- Track, sealed and lubricated
- Track, split master link
- Track shoes, 600 mm/23.75"
- Transmission:
 - Full powershift w/ converter
 - Transmission control locking lever
- Trunnions
- Vandalism protection, provision for locking: Instrument panel guards, fuel tank cap and access panels for master electrical switch, tool box, radiator cap, air cleaner, engine oil dip stick and fill tube

FD195L Optional Equipment

- Cold weather starting aid
- Control and piping for rear implement
- Fan, reversible
- Fire extinguisher
- Gauge Package, Analog - engine oil temperature, engine oil pressure, transmission oil temperature, transmission oil pressure, voltmeter, vandal protection provision
- Jumper cables, mate with starting receptacle, machine to machine or machine to battery
- Optional dozer equipment
 - Semi-U blade w/hydraulic tilt
 - Angle blade w/mechanical tilt and C-frame guides
- Ripper, type PD175
- Wide (3") seat belt

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