

FIAT

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Versatility now added to the power of the 655 and 70C crawlers—with 3 point linkage





While the tractor is under heavy pull load, the linkage swings off centre, allowing the tractor to run on the unploughed land without steering interference.

Semi-mounted ploughs are recommended as most suitable for tractor crawlers, since they do not affect the longitudinal stability of the tractors, even if they are very long and heavy (such as the 6 furrow type). Furthermore sharp steering corrections can be made with the plough still in the ground, without additional stress on the track components. Semi-mounted ploughs therefore mean increased efficiency, manoeuvrability and reliability of the tractor/implement combination. (A range of central draught fully mounted implements can also be operated.)

The linkage draught links and top links are fitted to a heavy duty mounting plate connected to the rear of the tractor by means of a swinging attachment.

Six large rollers, running on two heavy bearing surfaces (bolted to the rear of the tractor) carry the weight of both the implement and the linkage itself, while the tractive effort is entirely taken up by the tractor swinging drawbar.

The draught links are lifted by means of two large single acting rams. The tilt of the plough can be controlled by a double acting ram. During the ploughing operation, the lifting rams can be operated with float hydraulic control, so that even when ploughing on undulating land an even working depth can be maintained.



The hydraulic unit is made up of the following :

- engine driven hydraulic pump with delivery of 6 g.p.m.
- 8 Imp. gallon oil reservoir complete with filter, breather and oil level gauge.
- 3-spool control valve complete with 2100 p.s.i. relief valve.
- 5 quick release couplings with mounting block.
- pipework complete.

Two spools of the valve operate the linkage (lift and tilt). One spool complete with lines and quick release couplings, is available for external double acting duty.

Additional spools can be fitted to operate other services.



The complete linkage is quickly and easily removed and only involves the withdrawal of two pins.

Main Specification

Pump :	gear type
Pump delivery, g.p.m.	6
Operating pressure, p.s.i.	2100
Control valve	3-spool
Lifting rams (bore and stroke) ins.	2½ × 6
Tilting rams (bore and stroke) ins.	2½ × 4
Oil reservoir, Imp. galls.	8
3-point linkage, Category	2 (or 3)
½ in. check chains	
Front counterweights (Optional extra)	

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Gross engine horsepower 60

Operating weight, with basic equipment 8,675 lb. (3,935 kg.)

Speeds MPH

Forward	
— first	1.2
— second	1.7
— third	2.5
— fourth	3.3
— fifth	4.8
— sixth	6.8

Reverse 1.4

— first	3.9
— second	

Drawbar pulls	average (°) lb.	maximum lb.
— first	8,600 (*)	8,600 (*)
— second	8,600 (*)	8,600 (*)
— third	6,800	7,400
— fourth	4,800	5,000
— fifth	3,000	3,200
— sixth	1,900	2,050

(°) at 2,000 engine RPM (*) trackslip is limiting factor

Engine FIAT/OM model CN3	
4-stroke cycle Diesel, direct injection	
Number of cylinders	3
Bore and stroke	110 x 130 mm.
Piston displacement	225.8 cu. in.
Compression ratio	16.0:1
RPM—governed at full load	2,000
Speed at maximum torque, RPM	1,300
Replaceable, wet type cylinder sleeves	
Cooling system	water
Force-feed lubrication system	
In-line injection pump with mechanical governor	
Main bearings	4, precision type
12-volt starting system; 4-HP motor	
500-watt alternator	
136-Ah battery placed in front of radiator, easily accessible.	
Filters:	
— air: oil-bath with pre-cleaner and automatic dust unloader	
— fuel: one replaceable cartridge	
— oil: one full-flow cartridge	
Capacity of fuel tank	17.2 Imp. gal.

Main clutch
Dry, over-centre, dual-plate, with automatic clutch brake.

Gearbox
Sliding gears, with reduction gear.

Final drives
Single-reduction type; crown shaved gears.

Steering
Each track controlled by slow-speed, heavy-duty dry multiple disc clutch and contracting-band brake.
Number of driven plates, per clutch 11

Front Suspension
With equalizer spring.

Track roller frames
Box-channel construction, with four track rollers and one carrier roller per side.

Tracks with counterbored links.	
Length of tracks on ground	59½ in.
Track gauge	53½ in.
Number of shoes per side	32
Width of track shoes	
— standard	15½ in.
— optional	{ 14 in. 12½ in.
Height of grousers	1½ in.
Area in contact with ground	
— with 15½-in. shoes	1,872 sq. in.
— with 14-in. shoes	1,661 sq. in.
— with 12½-in. shoes	1,451 sq. in.
Pressure of tracks on ground	
— with 15½-in. shoes	4.63 PSI
— with 14-in. shoes	5.16 PSI
— with 12½-in. shoes	5.85 PSI

Power take-off: 1½ in. shaft; 540 RPM with 1,620 engine RPM.
Live action by pulling back both steering levers.
High-speed power outlet (non-standard shaft): same engine speed.

Swinging drawbar
Height of clevis above ground 8½, 10½, 11½, 13½ in.
Total lateral movement 26 in.

STANDARD EQUIPMENT
Lighting system (includes rear flood light)—Fuel level gauge—
Tractormeter—Swinging drawbar—Track roller guards—
15½ in. shoes.



Engine horsepower, at flywheel		74
Operating weight, with basic equipment 13,140 lb.		
Speeds		
Forward	MPH	
— first	1.4	
— second	2.3	
— third	2.9	
— fourth	3.6	
— fifth	5.2	
Reverse	1.8	
Drawbar pulls		
	average (°) lb.	maximum lb.
— first	13,200 (*)	13,200 (*)
— second	9,700	10,100
— third	7,500	8,000
— fourth	5,800	6,400
— fifth	3,600	4,000
(*) at 1,400 engine RPM		
(*) trackslip is limiting factor		

Engine FIAT model 604
Four-stroke cycle, naturally aspirated Diesel, direct injection
Number of cylinders 4
Bore and stroke 125 x 140 mm.
Piston displacement 419.3 cu. in.
Compression ratio 15.5:1
RPM—governed at full load 1,400
Max. torque speed—RPM 1,000
Crankshaft induction hardened
Bearings 5 main bearings, precision type
Replaceable, wet-type cylinder sleeves.
Dynamic balancer for 6-cylinder smoothness.
Lubrication with dual gear-type pump for maximum reliability on steep grades. Two full-flow replaceable cartridge-type filters.
Fuel filters two, cartridge-type
Starting method: choice of two systems:
— independent, 2-cylinders gasoline engine, 10.5 HP, assisted by a 12-volt electric motor.
— 24-volt direct electric motor.
Capacity of fuel tank 26.4 Imp. gal.

Main clutch
Dry, over-centre, single plate, with automatic clutch brake.

Transmission
Sliding gears.

Final drives
Single reduction type; crown shaved gears.

Steering: each track controlled by slow-speed, heavy-duty dry multiple disc clutch and contracting band brake.

Number of driven plates, per clutch 11

Track roller frames
Box channel construction, with five track rollers and one carrier rollers on each side.

Front suspension
With equalizer spring and rebound spring.

Tracks with counterbored links.	
Length of tracks on ground	71 in.
Track gauge	61 in.
Number of shoes per side	34
Width of track shoes	
— standard	17½ in.
— optional	23½ in.
Height of grousers	1½ in.
Area in contact with ground	
— with 17½-in. shoes	2,512 sq. in.
— with 23½-in. shoes	3,350 sq. in.
Pressure of tracks on ground	
— with 17½-in. shoes	5.23 PSI
— with 23½-in. shoes	4.02 PSI

Power take-off: 1½ in. shaft; 540 RPM with 520 engine RPM.
Live action by pulling back both steering levers.

Swinging drawbar
Height of clevis above ground 10½, 12½, 13½ in.
Total lateral movement 25½ in.

STANDARD EQUIPMENT
Lighting system (includes rear flood light) - Hourmeter - Swinging drawbar - Track roller guards - 17½-in. shoes - Hood side doors - Sprocket shields - Solid front idlers - Electric starting.

FIAT TRACTORS

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