

**Fiat
580
580 dt**



Fiat Trattori
FIAT

The soundest choice when it's a question of versatility.

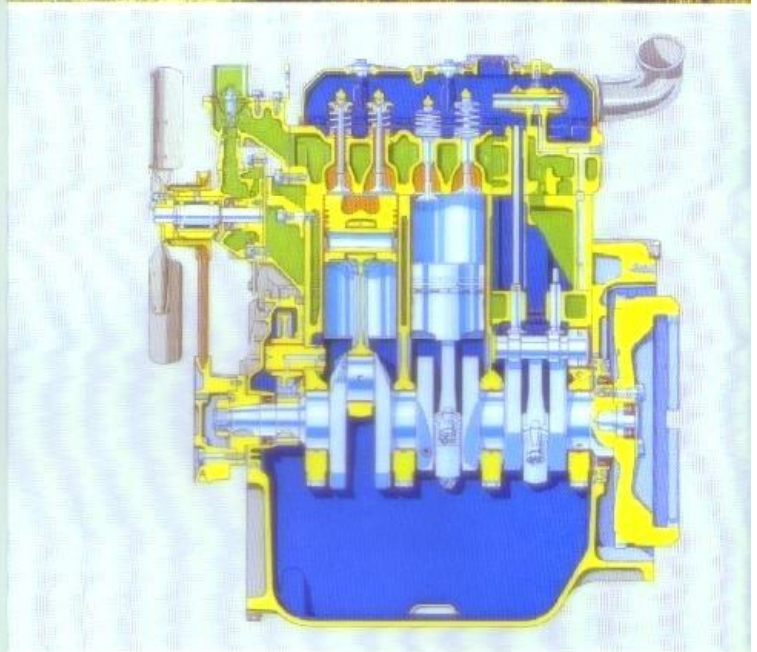
Engine power: 58 CV/DIN.

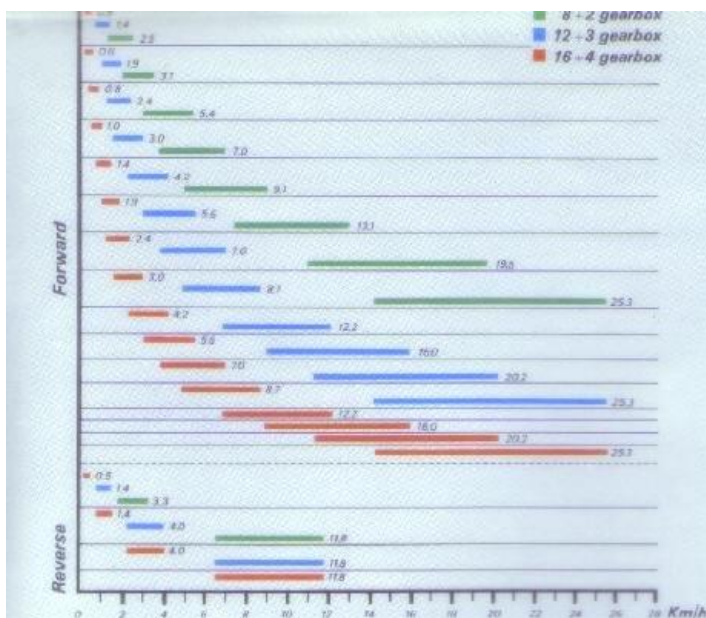
Operating weight: from 2,200 to 3,100 kg.

Three types of transmission.

Suspended platform, with cab.

The absence of solutions and features that makers save for their top-bracket tractors is often what sets the limit to tractors of the medium class. Fiat's 580 and 580 DT, on the other hand, have the same wide range of speeds, the same degree of comfort, and the same track variation and towing attachments as their other companions in the "80" class.





World-famous, fully reliable engine.

The new 580 is fitted with Fiat's 3-cylinder, 8035 diesel engine, carefully balanced to cut down noise and vibration. There is also a reliable and efficient cooling system, and a two-stage, oil-bath air cleaner to ensure a long working life. Maintenance is both quick and easy.

Three types of transmission.

- 8 forward + 2 reverse speeds.
- 12 forward + 3 reverse speeds.
- 16 forward + 4 reverse speeds.

These three gearboxes enable the 580 to be put to the best possible use in the different operations required in various types of cultivation. Each gearbox has an excellent gear spacing that ensures optimum teamwork between the tractor and its implements. The 580 is also equipped with:

- double clutch with separate controls;
- epicyclic final reduction gears to give longer life and greater ground clearance under the rear axle;
- hydrostatic, self-adjusting, oil-bath disc type service brakes;
- fully independent, oil-bath disc type parking brake.

Big tractor comfort.

The Fiat 580 is undeniably the first 58 CV tractor to offer the driving comfort you only expect from big tractors. This is because the comfort features you get on the 580 are the same as those to be found on more powerful models.

Driver's compartment.

- Suspended platform.
- Subdued vibration.
- Adjustable, anatomically designed seat, with hydraulic shock-absorber.
- Easy-to-reach controls.
- Over 96 cm wide.
- Comprehensive instrumentation.
- Assisted steering (optional).

Cab (optional).

- Sound-proofing, with max. noise level 82.5 dB (A) (measured in accordance with the OECD rules).
- Ventilation and heating system.
- Air conditioning.
- Accessible from either side.
- Wide visibility.



Suitable for every type of job.

- Fully independent 540 rpm (standard) power take-off, with optional ground speed combination.
- Draft and position control hydraulic lift, with cat. 1 and cat. 2 three-point linkage.
- Towing devices: front hook, cat. A-B-C trailer hitch (optional), swinging drawbar.
- Wide front and rear counterweight range, up to a maximum of over 1,100 kg (with water in rear tyres).
- Extensive tyre range to enable the tractor to be used to the best advantage on all types of terrain.
- Hydraulic system available with two or three control valves (on request) for remote single- and double-acting controls.

Fiat: the world's leading 4-wheel drive manufacturer.

Fiat produces more 4-wheel drive tractors than any other manufacturer in the world. So it's not surprising that there's also a 580 DT, a real, fully up-to-date 4-wheel drive version, and not just an adaptation like those put out by many other makers. What are the practical advantages offered by Fiat's 4-wheel drive models, and the 580 DT in particular?

- central transmission shaft, tucked out of the way in a safe place;
- front differential and central joints that are small enough to ensure a really excellent ground clearance.

A centrally placed differential means that ground clearance is the same on both sides, which is impossible when the differential is off-centre. In addition, the front differential is small because it is fitted with sturdy, oversized final epicyclic reduction gearing housed within the wheel spaces;

- variable front track: a system of "bell-shaped" rims is used on 4-wheel drive tractors to vary the position of the front track.

Weights and stability:

excellent stability and grip under all conditions are ensured by the 580's weight range (2,200 kg in operating order and 3,100 kg with the full set of counterweights), long wheelbase (2.15 m), and good weight distribution (40% on the front axle and 60% on the rear axle).

Optionals:

a vast selection of accessories can be supplied to supplement the basic arrangement so as to make the tractor capable of dealing with particular local needs or working conditions.

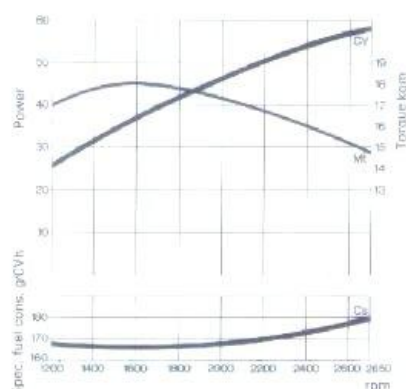
Fiat 580 580 dt

Specification.

Engine.

Fiat 8035
Power 58 CV/DIN
Direct injection
diesel 4-stroke
Number of cylinders ... 3
Bore and stroke 103x110 mm
Piston displacement ... 2,750 cu.cm
Rpm at max. power ... 2,650
Capacity of fuel tank ... 80 litres

Characteristic curves.



Transmission.

Gearbox with constant-mesh gears: 8 forward and 2 reverse speeds. (Optional: 12 F + 3 R or 16 F + 4 R speed gearbox). Planetary-type final drives. Differential with pedal actuated lock and automatic disconnection.

Clutch.

Dual plate, dry type, with separate controls; pedal for transmission and hand lever for PTO. Diameter of plates: 11 in.

Brakes.

Service: oil-bath, disc type, hydrostatic. Parking: oil-bath, dual plate, hand lever.

Speeds (kph)

With tyres	12.4/11-36			
Engine speed (rpm)	2,315	2,650	2,315	2,650
PTO speed (rpm)	540	618	540	618
Gearbox	8 + 2 12 + 3 (P) or 16 + 4 (P)			
Forward				
1st creeper*			0.43	0.49
2nd creeper*			0.57	0.65
3rd creeper*			0.71	0.82
4th creeper*			0.89	1.02
1st low	2.20	2.53	1.26	1.44
2nd low	3.18	3.64	1.65	1.89
3rd low	4.74	5.43	2.08	2.38
4th low	6.13	7.03	2.60	2.98
1st normal			3.66	4.19
2nd normal			4.81	5.51
3rd normal			6.05	6.93
4th normal			7.58	8.68
1st high	7.94	9.09	10.67	12.22
2nd high	11.44	13.11	14.01	16.05
3rd high	17.05	19.53	17.64	20.20
4th high	22.08	25.29	22.08	25.29
Reverse				
1st creeper*			0.41	0.48
1st	2.85	3.27	1.21	1.39
2nd	10.27	11.77	3.52	4.04
3rd			10.27	11.77

(P) * optional

Hydraulic lift.

With draft and position control. Pump capacity: 24.6 litre/min. Relief valve opening pressure: 190 kg/sq.cm. Response control. 3-point linkage, cat. 1-2; standard lower links with sway chains and retaining transverse spring.

Power take-off.

1 $\frac{3}{8}$ " - 6 spline shaft. Fully independent; 540 rpm at 2,315 engine rpm.

Treads.

Front (6 positions): 1,410, 1,510, 1,610, 1,710, 1,810, 1,910 mm. For DT (4 positions): 1,600, 1,700, 1,800, 1,925 mm. Rear (6 positions): 1,500, 1,600, 1,700, 1,800, 1,900, 2,000 mm.

Steering.

Manual, recirculating ball type. Joints lubricated for life. For DT: hydrostatic, with independent circuit.



Driver's seat.

Comfort type, with parallelogram suspension and hydraulic shock absorber, adjustable to driver's weight.

Fenders.

Platform and fenders are combined to form a modular structure.

Electric system.

12 V-starting system; 4 hp motor.
400 Watt alternator;
110/120 Ah battery.

Tyres.

Front: 6.00-16; 6.00-19; 7.50-16.
For DT: 9.5/9-24; 11.2/10-24; 12.4/11-24.
Rear: 12.4/11-36; 13.6/12-36; 14.9/13-30;
16.9/14-30.

Operating weight.

With hydraulic lift with
3-point linkage, cat. 1-2:
— mod. 580 with 6.00-19 and 12.4/11-36
tyres: 2,200 kg;
— mod. 580 DT with 11.2/10-24 and
12.4/11-36 tyres: 2,480 kg.
Safety frame weight: 70 kg.
Safety cab weight: 270 kg.

Ballast.

Front axle: support of 130 kg with up to
10 plates of 40 kg each, for a total weight
of 530 kg.
Rear wheels: 6 discs of 58 kg each, for a
total weight of 350 kg.

