

# Fiat 100-90 / 100-90 dt



## **A HIGH POWERED AND EXTREMELY VERSATILE TRACTOR**

From heavy tasks using high power absorption implements to delicate and quick jobs

## **HIGH-POWERED ENGINE**

Outstanding power, large range of torque reserve, low fuel consumption whilst still maintaining exceptionally high performance

## **POWERFUL LIFT EFFICIENT AND VERSATILE WITH FLEXION BAR AND INTERNAL DIRECT LINKS**

Generous lifting capacity, absolute precision and sensitivity

## **FIAT FOUR WHEEL DRIVE, THE BEST AND MOST WIDELY SOLD 4WD IN THE WORLD**

Coaxial system, 50-degree steering angle with two hydraulic double acting cylinders



**FIATAGRI**

## Engine

Fiat	8065.06
Direct injection	Diesel
No. of cylinders	6
Bore and stroke	100 x 115 mm
Piston displacement	5,419 cc
Rpm at max power	2,500
Rpm at max torque	1,500
Engine power	100 Hp/DIN
Water cooling	
Air filter in oil bath with centrifugal prefilter	
Cold starting aid*	
thermostart or start-pilote	

\* Optional

## Clutch

Transmission	single-plate, dry-type
Pto with separate control	single-plate, dry-type

## Transmission

Gearbox with synchronized speeds	15F + 3R
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## Speeds (kph)

with tyres	16.9/14-38
engine (rpm)	2,500

F	LOW	MEDIUM	HIGH
1	1.1	3.4	10.9
2	1.4	4.6	14.5
3	1.9	6.0	19.1
4	2.4	7.5	23.9
5	3.0	9.4	29.9
			32.9*
R	1.4	4.5	14.4

\* Max speed effective with the largest available size of tyres

## Power take-off

1 3/8" - 6/21\*\* spline shaft: 540/1000\* rpm, synchronized with gearbox  
1 3/4" - 6 spline shaft\*

\* Optional

## Hydraulic lift

With draft, position and mixed control  
Automatic lifting and lowering device Lift-o-Matic (Fiat Trattori design)  
Linkage lowering speed adjustment  
Response control (Vario-speed)  
Lift position control lever accessible from ground  
3-point linkage Cat. 2  
Pump capacity 44 l/min  
Relief valve opening pressure 190 kg/sqcm  
Lifting capacity with 1 auxiliary cylinder 4,537 kg

## Hydraulics

1 convertible auxiliary control valve (single or double-acting) and 1/2" quick half-couplings (push-pull) for engagement under pressure

## Electrical system

Circuit voltage	12 V
Alternator	780 Watt
Battery	132 Ah
Starter safety switch	

## Safety frame

With roof  
Complies with O.E.C.D. standards

## Steering

Hydrostatic type  
Adjustable steering wheel

## Front axle

Telescopic-type with variable track

## For 100-90 dt

Coaxial pivoting  
Centre-mounted differential with "NO SPIN" automatic lock device\*  
Wheel steering: 50°

\* Optional

## Brakes

Service disc-type, oil bath  
Parking, with independent control disc-type  
Trailer brake bracket

## For 100-90 dt

Front brake\* multidisc-type, oil bath  
Control hydrostatic

\* Optional

## Towing attachments

Adjustable trailer hitch  
Front hook\*  
Swinging drawbar\*

\* Optional

## Tyres (pairing of tyres)

Front: a) 7.50-20  
b) 11.00-16\*  
Rear: a) 16.9/14-38 PAVT

## For 100-90 dt

Front: a) 12.4/11-28  
b) 14.9/13-24\*  
Rear: a) 16.9/14-38 PAVT

\* Optional

## Wheels

Rear wheels with cast discs  
Track adjustment through PAVT device\*

\* Optional

## Capacities

Fuel tank	93 l
with 1 auxiliary fuel tank*	133 l
Engine oil pump and filter	13.7 l
Rear transmission and hydraulic lift	44.5 l

**For 100-90 dt:** 44.5 l

\* Optional

## Dimensions

with tyres  
7.50-20 and 16.9/14-38 PAVT

Wheelbase	2,584 mm
Overall length	3,868 mm
Height to bonnet	1,595 mm
Height to steering wheel	1,850 mm
Front track with 7 positions from 1,450 to 2,050 mm	
Rear track with 8 positions from 1,500 to 2,200 mm	
Ground clearance under front axle	560 mm
Height to exhaust	2,672 mm
Height to cab	2,622 mm
Height to safety frame	2,616 mm

## Weight

Operating, including fluids  
with safety frame 3,840 kg

## For 100-90 dt

### Dimensions

with tyres  
12.4/11-28 and 16.9/14-38 PAVT

Wheelbase	2,535 mm
Overall length	3,932 mm
Height to bonnet	1,580 mm
Height to steering wheel	1,845 mm
Front track with 8 positions from 1,712 to 2,153 mm	
Rear track with 8 positions from 1,500 to 2,200 mm	
Ground clearance under front axle	535 mm
Ground clearance under front differential	455 mm
Height to exhaust	2,672 mm
Height to cab	2,622 mm
Height to safety frame	2,616 mm
Steering radius without brakes	4,725 mm

## Weight

Operating, including fluids  
with safety frame 4,240 kg

## Optionals

### Transmission

Synchronized-speed gearbox with reduction unit 20F + 4R

### Speeds (kph)

with tyres 16.9/14-38  
engine (rpm) 2,500

F	LOW	SR	LOW	MEDIUM	HIGH
1	0.3	1.1	3.4	10.9	
2	0.4	1.4	4.6	14.5	
3	0.6	1.9	6.0	19.1	
4	0.7	2.4	7.5	23.9	
5	0.9	3.0	9.4	29.9	32.9*
R	0.4	1.4	4.5	14.4	

\* Max speed effective with the largest available size of tyres

### For 100-90 dt Transmission

(40 kph)

Synchronized-speed gearbox with bevel gears

15F + 3R or 20R + 4R\*\*

### Speeds (kph)\*\*

with tyres 16.9/14-38  
engine (rpm) 2,500

F	LOW	SR	LOW	MEDIUM	HIGH
1	0.4	1.3	4.1	13.0	
2	0.5	1.7	5.5	17.4	
3	0.7	2.3	7.2	22.8	
4	0.9	2.8	9.0	28.6	
5	1.1	3.6	11.3	35.5	39.0*
R	0.5	1.7	5.4	17.2	

\* Max speed effective with the largest available size of tyres

## Hydraulics

With convertible auxiliary control valves (single or double-acting) and 1/2" quick half-couplings (push pull) for implements remote control  
Floating position availability

## Supercomfort cab\*

Soundproofing, with full all round vision  
Safety (escape) hatch, opening rear and side window glasses, side doors, fully glazed with semi-open position check control device, windshield washer and wiper, athermic glasses, ventilation and heating system, "Super-de-luxe" adjustable seat with cloth covering and tilting arm-rests  
Optional: Air conditioning, 2 front auxiliary and 2 rear headlights for night work

## Comfort cab\*

Soundproofing, with walls and side doors fully glazed, opening rear and side window glasses, ventilation and heating system

\* Complies with O.E.C.D. standards

## Ballast

Front support with hook  
Ballasting on front axle and on rear wheels

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