

# FIAT 55-66, 60-66 AND 65-66 NORMAL AND 4WD "THE EVERY DAY TRACTORS"



 **FIATAGRI**





## Tractors for today



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A well-chosen slogan that goes hand in hand with the success of the Series 66 — a range of 2WD and 4WD models in the 55 to 80 hp power bracket. The 55 to 65 hp models are illustrated in this brochure. They are multipurpose tractors par excellence, designed to handle the requirements of small and medium-sized estates, both as basic vehicles and as auxiliary vehicles for light, quick tasks and for services round the farm, especially when they are fitted with front loaders and forks.

New gearboxes are now available, including the version with 20 forward and 12 reverse gears which offers both creeper and reverser, and new 4WD versions with top speed 40 km/h and front braking.

For economical, safe transport service.

These tractors are the fruit of the technological innovation and experience possessed by a world leader such as Fiatagri, top of the European sales league for more than ten years, and the world's biggest manufacturer of 4WD tractors and crawlers for agriculture. Designed to meet the need for both excellent performance and versatility together with an economic price and running costs, on small and medium-sized farm business in both hot and temperate climates.

# Power, economy, long service life: Fiat Series 8000 diesel engines

The Fiat Group is the world's leading manufacturer of diesel engines for self-propelled vehicles and industrial applications and has 80 years of experience behind it in this particular field.

The Series 8000 is simply the most recent fruit of this experience. It is composed of a family of modular 3, 4, 5 and 6-cylinder engines, all with a 115 mm stroke, and a marked commonality of parts and hence very easy to service.

Their key features are low fuel consumption figures and clean burn, powerful torque reserves and enormous flexibility. Their main strongpoints include:

- the typical Fiat omega-shaped combustion chamber, which means high turbulence, total combustion with no smoke. Better use of the energy generated by combustion. "Clean" cylinder head with the injector targeted at the centre of the combustion chamber

- newly designed, spiral pattern inlet ducts, ensuring faster flowing of more violently swirling air.

The Series 66 is powered by:

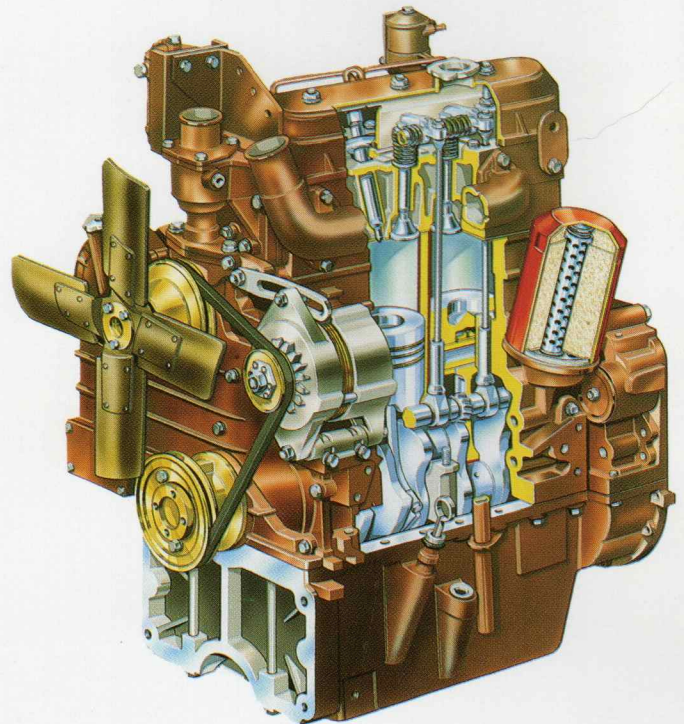
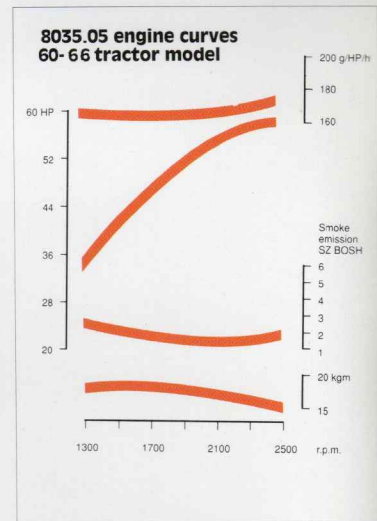
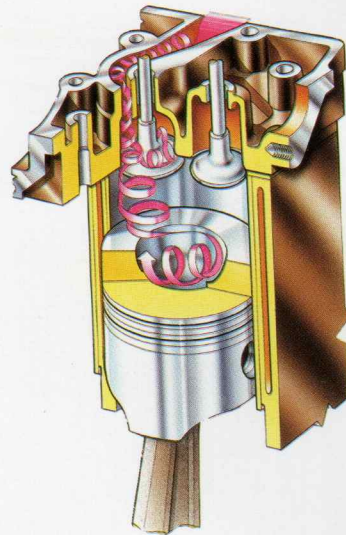
- 55-66: 8035.06 engine, piston diameter 100 mm, three cylinders, displacement 2710 cc, 55 hp

- 60-66: 8035.05 engine, piston diameter 104 mm, three cylinders, displacement 2931 cc, 60 hp

- 65-66: 8045.06 engine, piston diameter 100 mm, four cylinders, displacement 3613 cc, 65 hp.

All these models provide their maximum power output at 2500 rpm.

Max. torque is at 1500 rpm, with reserve of more than 20% and a usable range of more than 1000 rpm.





# Comfort and safety

A driver's position really in the top class for tractors of this type, designed for comfort and safety. In the version with safety frame and canopy and above all in the version with cab.

Carefully designed details, ergonomic controls and easy handling make these small Series 66 tractors a pleasure to drive and work with.

- Canopy with safety frame or all-weather safety cab with ventilation and heating, good allround visibility and easy access from both sides.

- Highly comfortable, arm-chair-type seat, adjustable position and with fine-adjustment flexible suspension. All the controls are sensibly arranged around the seat and within easy reach.

- Newly designed steering wheel through which the driver has full visibility of the instruments in a modern dashboard which enables a constant check to be kept on the operation of the tractor.

- Cab interior in top-quality, washable material with good acoustic properties.

- Forward, opening wind screen.

- Side and rear windows can be opened for improved ventilation and full access for adjustment of rear implements.

- Lower rear section is glazed behind the driver seat, for full visibility of implement linkage.

- Fully opening door, with retainer.







# More versatile transmission to meet all requirements

For top operational versatility and to provide a truly multipurpose tractor, Series 66 low-power tractors now offer new transmission alternatives, further increasing their "strongpoints", such as the new combination of creeper and reverser and the top speed of 40 km/h for 4WD tractors with braking on all four wheels.

## Clutch assembly

Two 11" plates made of organic material. The first is used to operate the fully independent PTO via a lever on the dashboard, the second is employed for the transmission, with gentle, gradual pedal operation.

## Basic gearbox

Four ratio, constant-mesh, helical-toothed main gearbox with automobile type synchromesh for changing on the move, and a three forward and one reverse range gearbox, making a total of 12 forward and 4 reverse speeds.

**Only two control levers:** the one on the right for the gears, the one on the left for the ranges. Direct shift from the medium range (i.e. that most commonly employed for open-field work) to the reverse gears for fast manoeuvring.

**Overlapping ranges** i.e. the 1st speed of each range is always slower than the 4th speed of the range before. This helps take-off when laden, especially during cultivation jobs and when towing loaded trailers.

**Speed range from 1.8 to 30 km/h for 2WD and from 1.8 to 40 km/h for 4WD tractors,** with no less than 5 gears between 3 and 8 km/h, and top speed of about 6 km/h in fast first gear.

## Gearbox with reverser

12 forward and 12 reverse gears through reverser located in front of the basic gearbox. The 12 reverse gears

have the same speeds as the 12 forward speeds. This is the ideal transmission for quicker turnround at the end of the field and when using a front loader. It is operated by an independent reverser lever on the driver's left.

## Gearbox with creeper and reverser

All the advantages of the creeper combined with the reverser. Meaning a total of 20 forward and 12 reverse gears. The most complete range on the market today for top versatility: 8 creeper gears from 300 metres/hour to 2.2 km/h, with 5 gears under 1 km/h! A single gear lever, on the driver's left, moved forward and down for creeper operation, and backwards and forwards for the reverser.

## For 4WD tractors, 40 km/h and braking on all four wheels

For 4WD models, all these gearboxes are available in both 30 and 40 km/h, using a bevel gear pair with a different ratio. Front-wheel braking is optional on 30 km/h models and compulsory for high-speed tractors.

## Oil-bath disc brakes

Highly safe and efficient, total heat dispersion: an advanced solution. Separately operated parking brake.

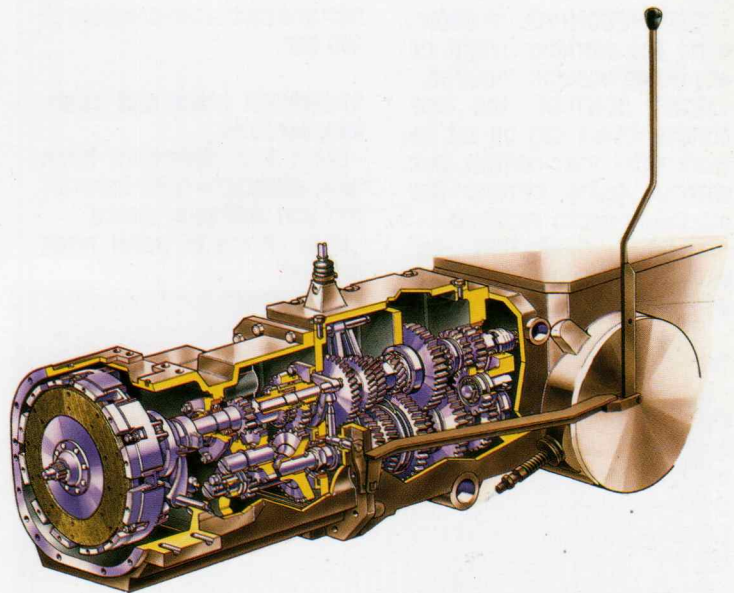
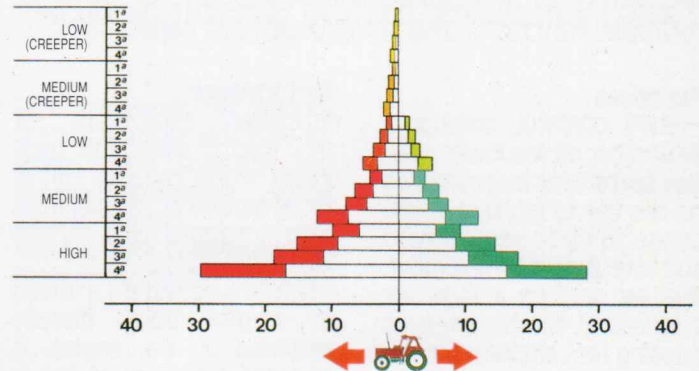
## Differential lock

Mechanical type, engaged via a pedal convenient to the right heel of the driver.

## Final drives

Cascade type, single reduction, rugged construction.

GEARBOX WITH CREEPER SPEED REDUCTION UNIT AND REVERSER 20F + 12R SPEEDS (30km/h)



Cutaway of the 12F + 12R gearbox with reverser unit.

# Superior class hydraulic lift

This is the maximum expression of the technological modernity of the Series 66 on account of both its multiple functions and its exceptional capabilities.

## Functions

- **DRAFT CONTROL**, through a flexion bar on the lower links; two spacers can be positioned on the bar to increase or decrease the lift's sensitivity to suit the type of implement. The bar and its linkage are enclosed in the transmission housing for complete protection.
- **POSITION CONTROL**, to determine the working height or any other position required.
- **MIXED CONTROL**, the two control levers can be set to work with draft control, but without going beyond the maximum depth required.
- **FLOATING OPERATION**, for use with all implements that work resting on the ground.

## Technological innovation

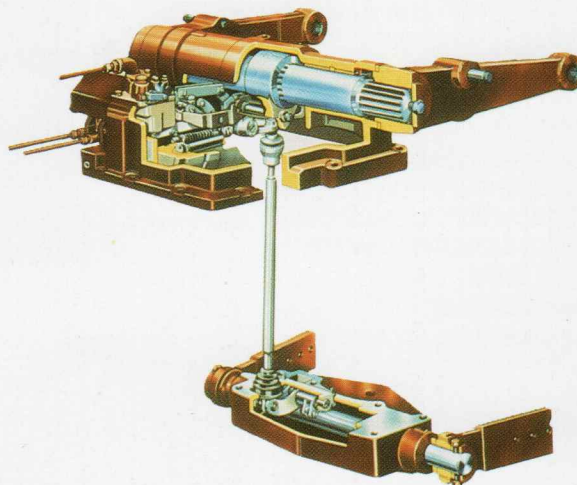
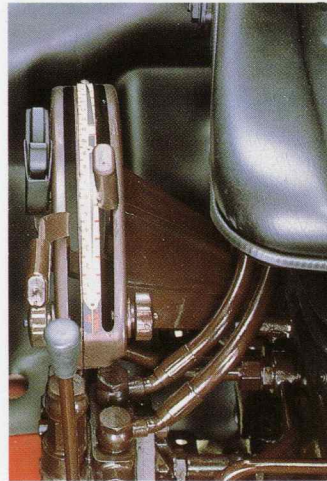
- The **Lift-O-Matic**, patented by Fiatagri, for automatic raising/lowering of the implements without using the control levers: two buttons that simplify the work and reduce fatigue.
  - The **VARIO-SPEED**, another exclusive Fiatagri feature, used to control the sensitivity and frequency of reaction when working with draft control: operated by an easy-to-reach four position lever.
  - **ADJUSTABLE LOWERING SPEED**, for safety and to prevent damage to the implements.
- IMPORTANT:** when the setting knob is completely unscrewed, the lift is locked to allow implements to be carried in the raised position.

## Performance

Absolutely exceptional for this tractor class. The maximum lifting capacity for all three models at the ball ends with horizontal links is 3000 kg. The hydraulic system is driven by a gear pump directly mounted on the engine. It provides a delivery of 34.5 l/min at a calibrated pressure of 190 bar.

## Implement hitch and auxiliary services

- Cat 1 & 2 implement hitch with adjustable right-hand lift rod and anti-sway chains.
- Wide choice of trailer hitch devices.
- Up to three auxiliary control valves for single or double action, and snap couplings. Float position and possibility of automatic uncoupling.
- Lighting socket for trailer lights.

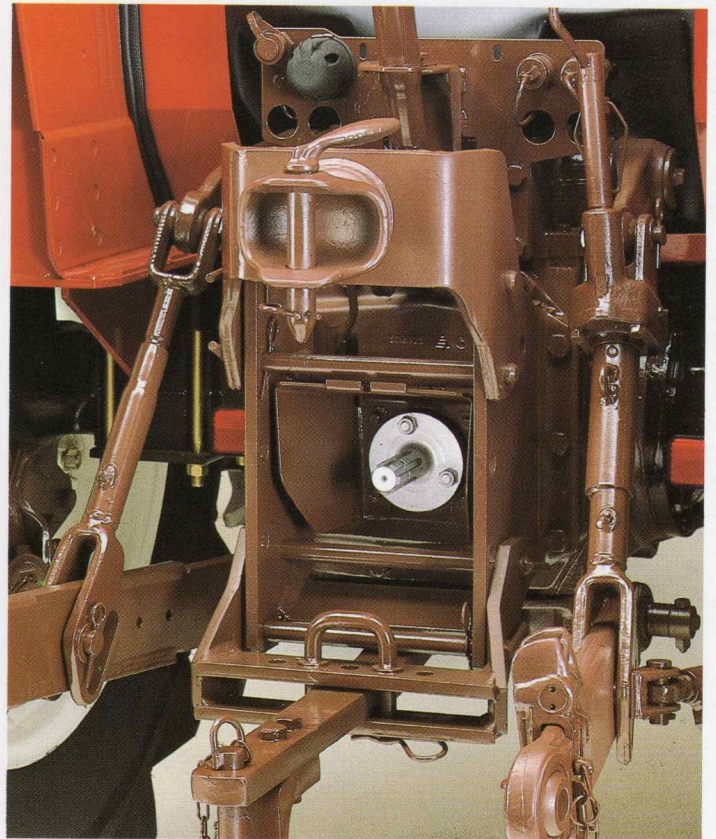


## The power take-off

The Series 66 tractors are fitted with independent 540 rpm or 540/1000 rpm PTO, and ground speed PTO.

Dashboard lever for smooth gradual engagement Easy-to-reach speed selection and (where applicable) speed change levers.

The 540 rpm calibration corresponds to 2200 engine revs.



# Fiat 4WD: for universal operation

There are good reasons why Fiat's 4WD tractors have topped the world sales charts for many years.

Because they are 4WD right from the start, designed and built for all-wheel utilisation of power.

Because of their direct, coaxial transmission, high ground clearance, centrally mounted differential and large epicyclic final drives.

Because of their fully protected, in-line drive shaft.

Because of their half-shafts with double universal joints, fully protected for a long service life.

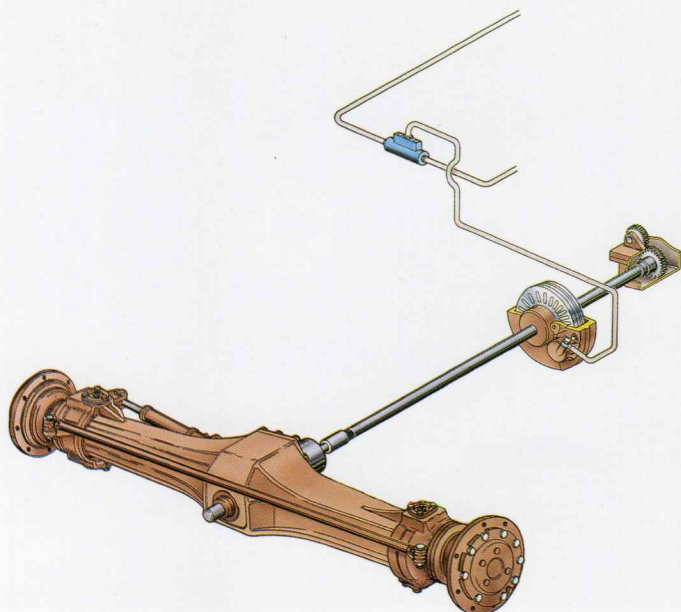
Because of their large-diameter drive wheels and tight steering radiuses.

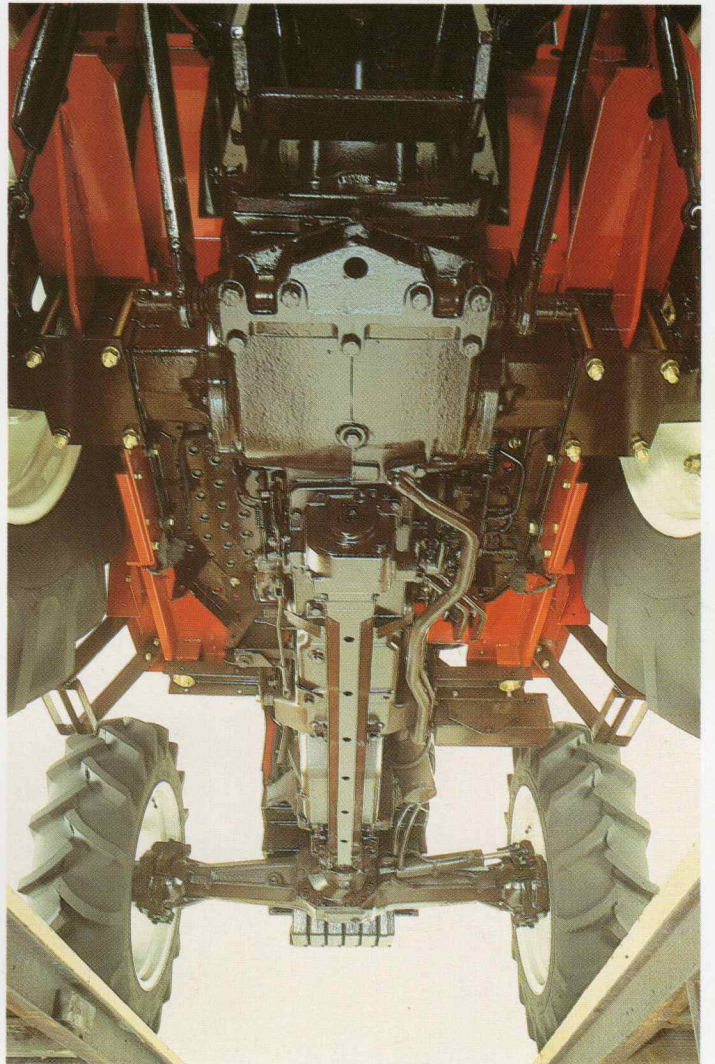
Because of their optional NO-SPIN device for automatic locking und unlocking of the front differential.

Because of the heavy ballast their rugged axles can carry.

Because they provide braking on the front wheels simultaneously with rear-wheels when both pedals are pressed together, thanks to a hydraulically operated, air cooled disk on the drive shaft. This is compulsory on 40 km/h tractors and optional but recommended for 30 km/h models to ensure top safety in all conditions and especially in on-road travel.

**A formula for all-wheel transfer, for operating on any kind of terrain, and for a long service life. In a word, for enhancing a tractor's performance.**





# Technical specifications

Model	Weight*	HP**	Engine	Transmission
<b>55-66</b>	2230 kg	55	Fiat 8035.06 3 cylinders Direct injection diesel Bore × stroke: 100 × 115 mm Displacement: 2710 cc Max. Power at 2500 rpm	Single-plate 11" clutch  Basic gearbox 12 FWD + 4 REV  or  Reverse gear 12 FWD + 12 REV  or  Creeper + reverser 20 FWD + 12 REV  Constant-mesh helical toothed gears
<b>55-66 4WD</b>	2430 kg			
<b>60-66</b>	2270 kg	60	Fiat 8035.05 3 cylinders Direct injection diesel Bore × stroke: 104 × 115 mm Displacement: 2931 cc Max. Power at 2500 rpm	All gears synchronized; disc brakes in oil bath  For 4WD, versions at 30 km/h or at 40 km/h with fast bevel gear pair and front brakes
<b>60-66 4WD</b>	2490 kg			
<b>65-66</b>	2340 kg	65	Fiat 8045.06 4 cylinders Direct injection diesel Bore × stroke: 100 × 115 mm Displacement: 3613 cc Max. Power at 2500 rpm	
<b>65-66 4WD</b>	2560 kg			

\* Weight of tractor in working trim with safety frame

\*\* Net power at flywheel DIN



Power take-off	Hydraulic system	Capacities:	Tyres
Fully independent	Gear pump Delivery rate: 34.5 l/min	Fuel tank: 73 litres	front: 6.00-16/7.50-16 rear: 13.6/12-28 14.9/13-28
	Pressure: 190 bar		front: 8.00-20; 11.2/10-20 rear: 13.6/12-28 14.9/13-28
Single plate 11" clutch	Lift with draft and position control	Engine oil: 7.3 litres	front: 7.50-16 rear: 14.9/13-30 12.4/11-36
Lever control on dashboard	Mixed control		front: 11.2/10-20; 12.4 R-20 rear: 14.9/13-28 14.9/13-30
540 rpm ground speed	Floating position	Transmission oil: 40 litres	front: 7.50-16 rear: 14.9/13-30 12.4/11-36
or	Max lifting capacity: 3000 kg		front: 11.2/10-24; 12.4 R-20 rear: 16.9/14-30 14.9/13-30
540/1000 rpm ground speed	Lift-O-Matic	Fuel tank: 73 litres	front: 11.2/10-24; 12.4 R-20 rear: 16.9/14-30 14.9/13-30
	Vario-Speed		front: 11.2/10-24; 12.4 R-20 rear: 16.9/14-30 14.9/13-30
	Controlled lowering speed	Engine oil: 11.7 litres	
	Up to three auxiliary control valves		Transmission oil: 40 litres



# **The Fiatagri service, Original spares and servicing system. An assurance for customers all over the world.**

The San Matteo, Modena, Spares Centre is the heart of the Fiatagri Service. It extends to 2 hectares under cover and can handle more than 3000 orders a day. Its warehouses hold 21 million items classed under 60,000 headings, all original spare parts designed, inspected and checked to guarantee reliability and operating efficiency.

The Spares Centre is linked to the Service School, where workshop foremen and service mechanics are trained to serve the distribution network and customers throughout the world.

Fiatagri's sales organisation is active in more than 100 countries through branches, dealers and importers, guaranteeing the same efficiency and the same operating continuity of its vehicles everywhere.

Product quality, efficient service and dynamic organisation are the key features of the Fiatagri image and the success of Fiat's tractors:

- No. 1 in Europe for 10 years.
- No. 1 in the world for 4WD.
- No. 1 in the world for agricultural crawlers

In Italy, one farmer out of two chooses Fiatagri.



Fiatagri is the Agricultural  
Tractor and Machinery  
Division of FiatGeotech S.p.A.

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To be sure of getting accurate, detailed and up-to-date information, an intending buyer should consult his nearest dealer.

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