

FIAT 45-66 AND 50-66 NORMAL AND 4WD THE GREAT LITTLE TRACTORS



FIATAGRI





The great little tractors



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Two basic models with 2 and 4 wheel drive, offering 45 and 50 net HP at the engine flywheel: these are the latest additions to the Series 66 range. And these tractors are COMPLETELY NEW in a power category where almost all manufacturers are continuing to offer machines designed using old concepts and outdated technical solutions.

Designed and built on the same lines as the larger Series 66 and 90 tractors, these two models are the latest products of Fiatagri's strength and dedication in the service of farmers: only a market leader could invest in absolutely new products — from the housing castings to the gearings, the driver position and the bodywork — for a power class aimed at the small farmer. But heading the European rankings, as Fiatagri have for so long now, involves the duty of always offering pacesetter products with the latest technological features, to provide maximum efficiency and performance.

The 45 and 50-66

45 and 50 net HP at the flywheel, Fiat Diesel engines with outstanding flexibility, torque reserve and low fuel consumption, a wide choice of gears with fully synchronized gearbox, a sophisticated hydraulic lift offering draft, position and mixed control and lift capacity of over two tonnes, oil-immersed disk brakes, a comfortable driving position with the option of a soundproofed safety cab and a vast range of tyres.

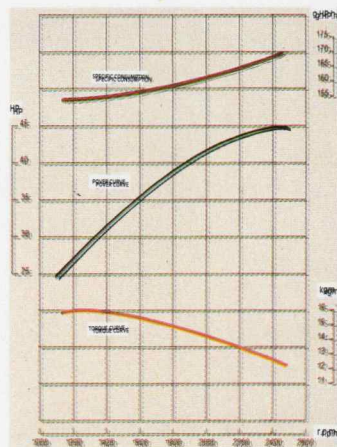
This is a summary of the new 45 and 50-66 in the 2 wheel drive version, and of the classical Fiat coaxial 4 wheel drives. Identical in technology to the tractor family up to 80 HP, but smaller in structure to provide the right power to weight ratio.

From a leader like Fiatagri, four new models which break new ground in specification and performance.

Fiat diesel engines: undisputed leaders

The Fiat Group is the world's leading producer of Diesel engines for motor vehicles and industrial applications, and can boast of 80 years' experience in this field! The Series 8000 engines are only the latest fruit of all this experience and form a modular family with 3, 4, 5 and 6 cylinders, all with stroke 115 mm, providing a high degree of standardization of components for top after-sales service.

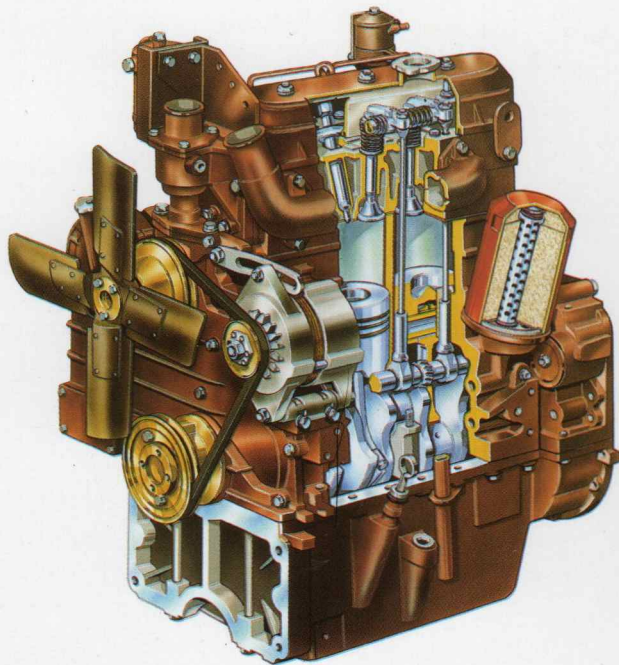
THE 45 AND 50-66 TRACTORS MOUNT THE 8035.06 3-CYLINDER ENGINE of the 8000 Series, bore 100 and stroke 115 mm, with total displacement 2710 cm³, suitably calibrated to offer the two power ratings required.



The strong points

Extremely rugged structure in special cast iron with internal ribbing, large main journals and connecting-rods, Fiatagri "omega" combustion chambers for high turbulence and perfect air-fuel mixing, direct injection with rotary pumps and enricher device for start-up from cold.

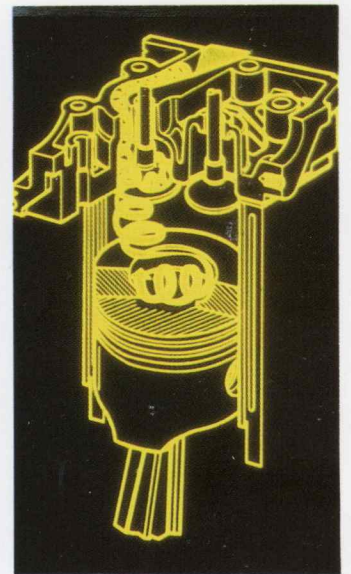
Great elasticity with an operating range of over 1300 rpm between maximum power at 2500 rpm and maximum torque at 1200 rpm; the absolutely outstanding torque reserve, or in other words the engine's capacity to "pick up" as the load increases, by 26%; low specific fuel consumption figures for the most economical operation down to a minimum of only 155 grams per HP per hour, and a gradually rising power curve, with 90% of the maximum power available at just 2200 rpm.





New intake ducts in the cylinder head with "spiral" design to accelerate air speed and thus the amount of air present, with higher turbulence providing a clean, smokeless burn, total use of fuel for better efficiency and reduced fuel consumption at the same power and engine speed.

It is in applications like these, ploughing or using the tractor's PTO, that all the advantages of the 8035 engine fitted to the 45 and 50-66 tractors can be appreciated in full: "pick-up" capacity with minimum need for gear shifting, low smoke thanks to improved combustion and economy on fuel. And to this we must add the usual ruggedness and long operating life of Fiat Diesel engines.



For top-comfort work

Complete instrumentation, ergonomically designed, smooth-operating pedals and levers, padded seats which can be adjusted to drivers of any stature, and the choice between safety frame and canopy or sound-proofed safety cab. All these contribute to providing top operator comfort; exceptional for tractors in this class.

Seat with up-down and backward-forward adjustment, and with adjustable shock-absorber for adaptation to all sizes: all controls for hydraulic lift, auxiliary control valves, creeper or reverser, PTO etc. are perfectly to hand. This is a fully-equipped, comfortable driver's position.

Instruments which are clearly in view and easy to read; gear-lever with logical routing, PTO clutch lever with long stroke for gradual engagement, non-slip brake and clutch pedals, three-spoke steering wheel in matt material, large, perforated, no-slip footrests and the option of power steering. A cab which is unique in this class, constructed on a semi-platform structure, with large glazed areas for top visibility,

accessible from both sides, equipped with heating and ventilation, with soundproofing to less than 88 dbA, with safety structure to withstand tractor rolling, mounted on silent-blocks for complete separation from tractor body.

The quality of the soundproof, washable lining, the rubber flooring on the enclosing structure of the semi-platform which insulates the cab from the noise and heat generated by mechanical assemblies, and the lay-out of the various controls are all outstanding features. The cab is fitted in the factory.



Complete transmission for all applications

Clutch with 10" plate in organic material with gradual engagement and backlash compensation, operated by a pressure of just 15 kg on the pedal.

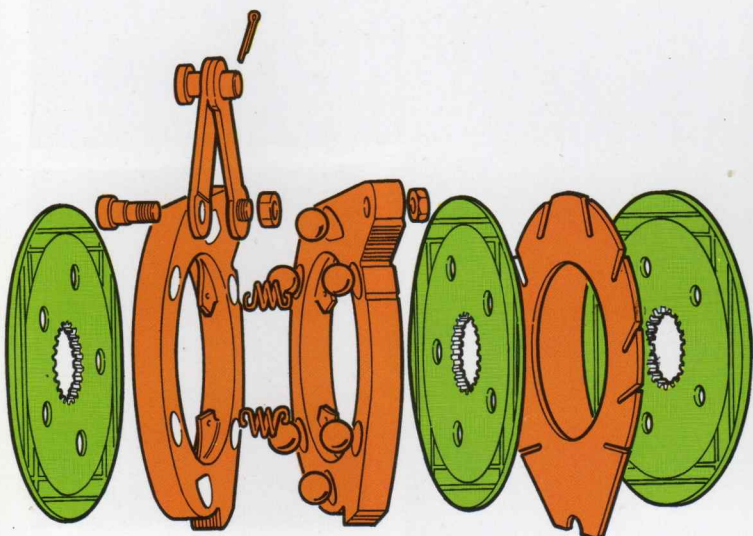
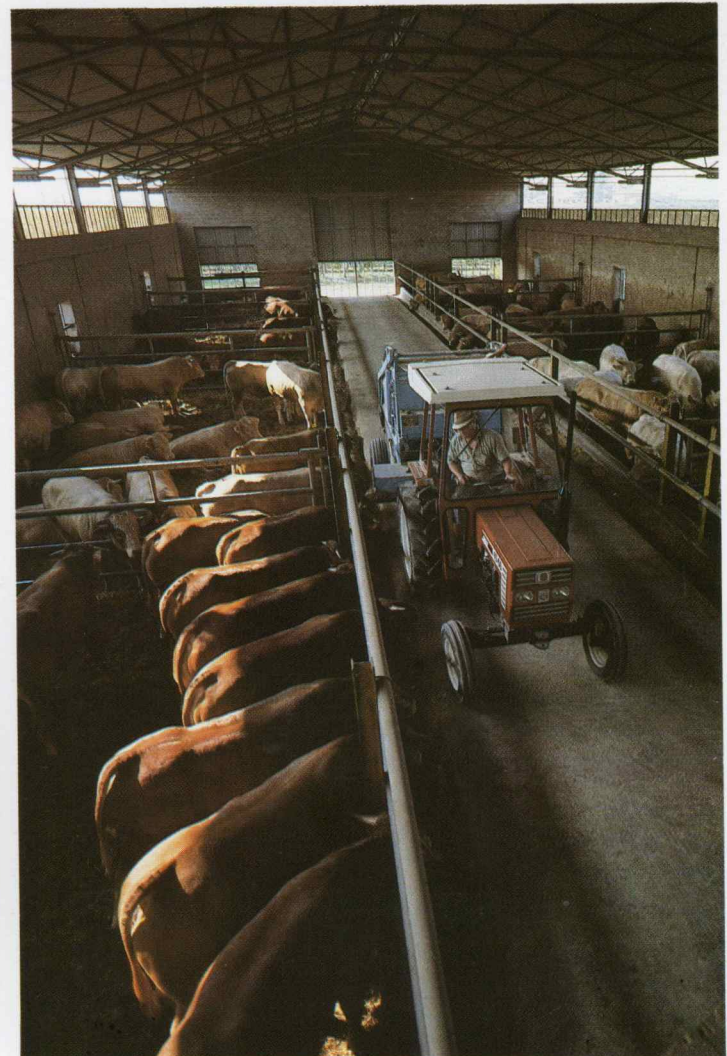
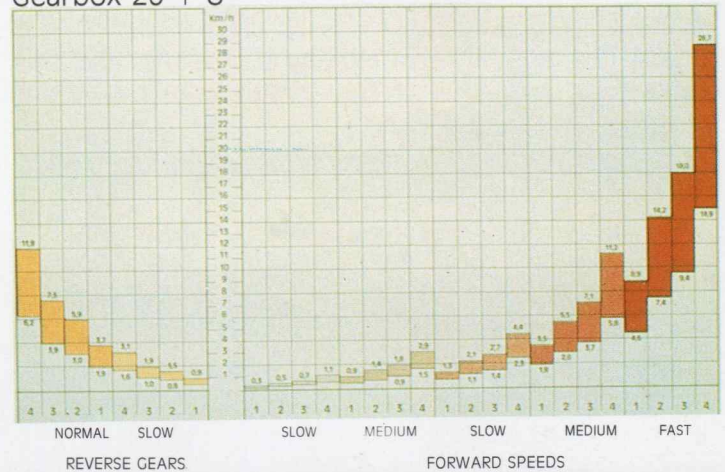
An ultra-modern gearbox with constant-mesh helical gears and automobile-class synchronizers offering 4 ratios for a total of 12 forward and 4 reverse gears in the standard version, or 12 F and 12 R with reverser, or no less than 20 F and 8 R with creeper! Just two levers for operation, one for the gears and the other for the ranges, while the range lever provides forward-backward positioning for selection of the medium forward and reverse settings, thus offering a 4+4 mini-reverser for the speeds most commonly used. The creeper version provides total cover of all working requirements in every situation. There are no less than 20 speeds available from 300 metres/hour in creeper 1st gear to 30 km/h in fast 4th

gear! And a Fiatagri extra: the overlapping ranges which mean that the 1st gear in each range is slower than the 4th gear of the previous range, an important factor especially when starting off with loaded trailers attached.

A very important "strong point": oil-immersed disk brakes with 3 disks per side for maximum braking safety and long working life. Backlash compensation, independent or combined control, and handbrake with separate control.

This versatile, modern transmission system is completed by a generously sized bevel gear pair with Gleason helical teeth, the differential lock and the large cascade-type final drives. A group of assemblies which guarantee the performance and durability of the 45 and 50-66.

Gearbox 20 + 8



A high class hydraulic lift

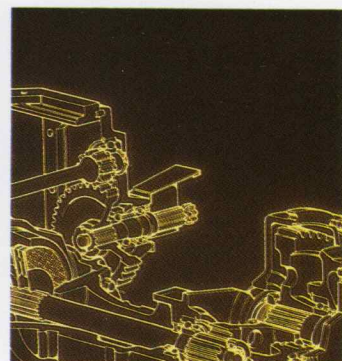
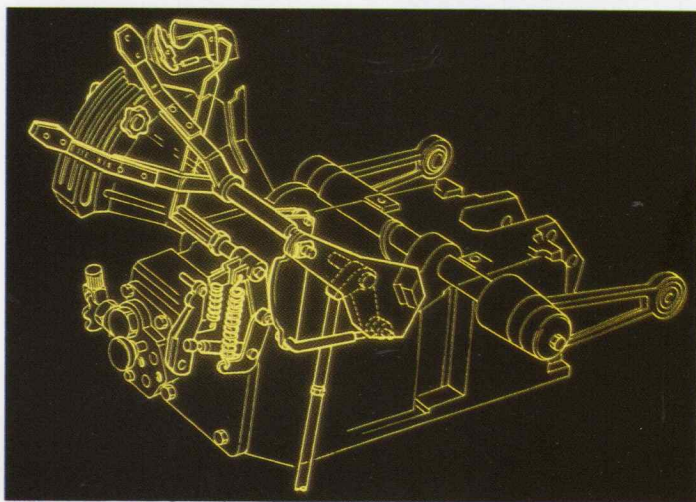
With a max. lifting capacity of 2150 kg at the ball ends with links horizontal, the hydraulic lift of 45 and 50-66 is clearly in a higher class than any competitor! But this capacity is only one of the strong points which it features. Its functions are:

- Draft control through a flexion bar on the lower links, for top operating sensitivity;
- Position control for all implements requiring it;
- Mixed control, for the best working combination;
- Float position for use with implements which work resting on the ground.

A tool whose value lies in quality of work and improved tractor performance, with a series of regulating devices generally found on high-power tractors.

- Fiat patented Lift-O-Matic to allow the implement to be raised or lowered without touching the control levers or varying the settings.

- Vario-Speed, to regulate the sensitivity and frequency of reaction when working with draft control.



- Lowering speed adjustable to implement weight, with safety lock in transport position.

A range of features which confirm the exceptional quality of this lift.

Cat. 1 and 2 implement hitch with adjustable right-hand lift rod and anti-sway chains; up to 2 auxiliary control valves with snap couplings and trailer light socket. All features which complete the tractor's operating capacity.

The sensitivity of the flexion bar may be increased or decreased by placing the spacer on the inside or outside of the lower link; a further refinement providing even greater efficiency in draft control depending on implement weight and dimensions.

The hydraulics of the 45 and 50-66 are of open-centre type with gear pump providing a delivery rate of 34.5 litres/min at the operating pressure of 186 bar, with total oil filtering by means of a cartridge filter on the intake line.

Fully independent PTO

Clutch with 10" plates in organic material in the same block as the transmission clutch, with fully independent control by means of a dashboard lever.

Option of 540 rpm and ground speed PTO or PTO at 540/1000 rpm and ground speed for maximum operating flexibility with all types of implements. Just one reduction gear pair for top efficiency: up to 95% of max. power is available at the PTO.

Selection levers (one for operating mode and one for speed) within easy reach.

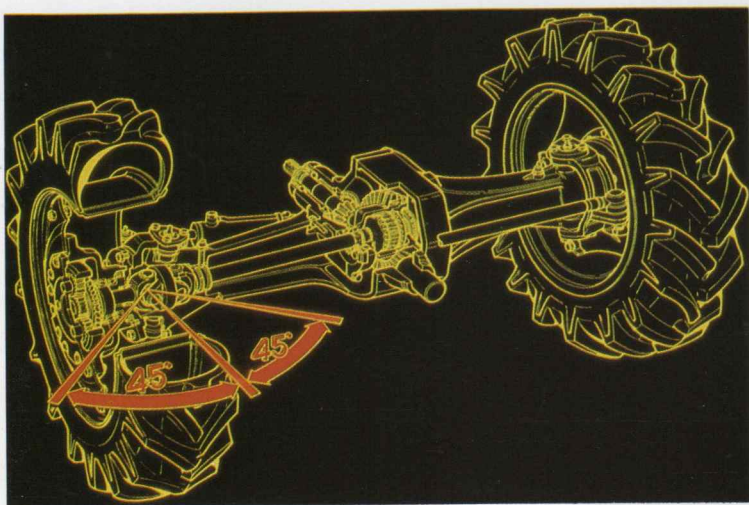


Fiat Formula 4WD a world record

Fiat 4WD tractors have been the world's best-sellers for many years, and there are plenty of good reasons for this:

- the coaxial formula with high ground clearance, with direct transmission, compact central differential and large epicyclic final drives;
- in-line drive shaft, fully protected;
- half-shafts with double universal joints, fully protected;
- large steering angle: 45° on 45 and 50-66 4WD;
- option of power steering, with cylinder in protected position behind the axle;
- option of NO-SPIN providing automatic differential lock and release.

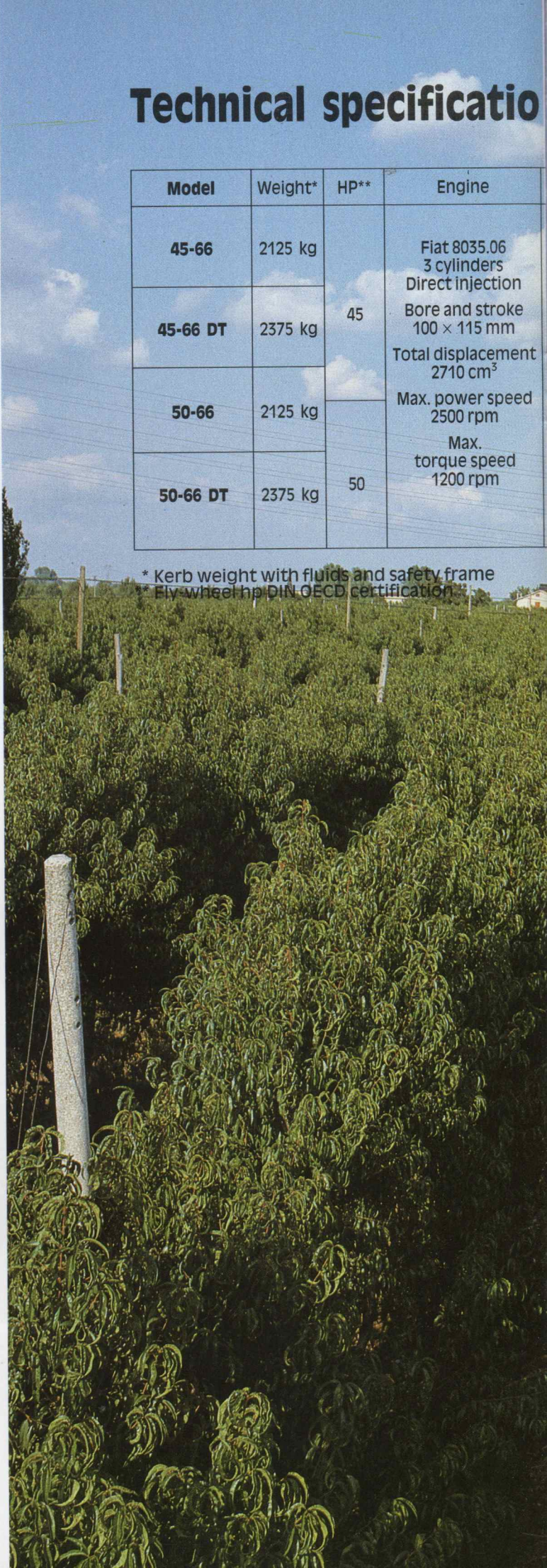
45 and 50-66 4WD: a formula for safe operation on all terrains, to enhance tractor performance.



Technical specificatio

| Model | Weight* | HP** | Engine |
|----------|---------|------|--|
| 45-66 | 2125 kg | 45 | Fiat 8035.06 3 cylinders Direct injection Bore and stroke 100 × 115 mm Total displacement 2710 cm ³ Max. power speed 2500 rpm Max. torque speed 1200 rpm |
| 45-66 DT | 2375 kg | | |
| 50-66 | 2125 kg | | |
| 50-66 DT | 2375 kg | 50 | |

* Kerb weight with fluids and safety frame
 ** Fly-wheel hp/DIN/CEC certification



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| Transmission | PTO | Fuel and lubricants | Front tyres | Rear tyres |
|--|---|---|-------------|------------|
| Clutch with single dry 10" plate in organic material | Fully independent Clutch with single dry 10" plate in organic material with dashboard lever control | Fuel tank 45 l. | 5.50-16 | 12.4/11-28 |
| | | | 6.00-16 | 13.6/12-28 |
| Standard gearbox 12 F + 4 R | 540 rpm and ground speed | Engine oil and filters: 7.3 l | 6.50-16 | 12.4/11-32 |
| | | | 7.50-16 | 12.4/11-32 |
| Creeper gearbox 20 F + 8 R | or | Transmission and hydraulic lift: 24.4 l | 7.50-20 | 12.4/11-28 |
| | | | 9.50-20 | 13.6/12-28 |
| Reverser gearbox 12 F + 12 R | 540/1000 rpm and ground speed | | 8.3-20 | 12.4/11-32 |
| | | | 5.50-16 | 12.4/11-28 |
| | | | 6.00-16 | 13.6/12-28 |
| | | | 6.50-16 | 12.4/11-32 |
| | | | 7.50-16 | 12.4/11-32 |
| | | | 7.50-16 | 14.9/13-28 |
| | | | 7.50-30 | 12.4/11-28 |
| | | | 9.50-20 | 13.6/12-28 |
| | | | 8.3-24 | 12.4/11-28 |
| | | | 11.2/10-20 | 14.9/13-28 |



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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