

TD SERIES TRACTOR (80-100HP)

LOVOL

TD series tractor is a specialized product with excellent quality, and its user-friendly design and good manufacturing process will bring you convenient operation and comfortable driving experience.





Lovol G3 tractor is a new product with its bodywork system parts and accessories redesigned and optimized by Lovol' s European Technical Team.

With a brand new cab structure, air conditioner + sunroof window, first-class tightness + manipulation space, interior trim, luxury adjustable seat, adjustable steering wheel, brand new hood assembly, and streamline LED headlamp + rear lamp, the whole cab looks more fashionable and energetic, with its safety improved.

With the latest overall structure, being fashionable and energetic, the floor and framework integrated cab possesses good load carrying capacity, safety and tightness. The hood is wide in the front and narrow in the rear, from which the front wheel is clearly visible.

Luxury, comfortable and flexible G3 model

For the TD series tractor, the ROPS model, Sunshade model and Cab model are available, and they have all passed the OECD safety certification.

If you prefer economic efficiency, convenient maintenance and vision without dead angle, then without Cab model, with or without ROPS model may be your best choice.

If you prefer comfortable driving, you can choose the model with cab which keeps out wind and rain. Except the framework and ceiling, all other components of the cab are built with glass. The first-class tightness, optimized ergonomic design, and luxury interior trim will provide you with comfortable operation experience as well as good vision. In addition, optional paddy field tires are available to meet your operating requirements.

Configuration			
Flat floor model	Optional	Optional	Optional (air conditioner)

- 1 Optimized ergonomic design, reasonable control distribution and color division, as well as side manipulation; suspended accelerator and clutch pedal; manual accelerator and shuttle shift mechanism below the steering wheel; and steering gear can be adjusted back and forth.
- 2 Grammer luxury wide seat, being integrally formed by stamping, can be adjusted back and forth, up and down, as well as in the seat depth; equipped with file box.
- 3 With the latest overall structure, being fashionable and energetic, the floor and framework integrated cab can provide good load carrying capacity and safety. LED daytime running lamp, as well as convex mirror headlamp of which the high and low beams are separated, are provided with chrome-plated decorative lamp frame, being beautiful and high in grade. U-shaped wide-vision LED lamps and LED brake lamps are used as rear lamps, in streamline sector shape.



Strong and highly efficient Engine



Lovol engine is equipped with the well-known European engine technology, four-cylinder engine dual-valve design, and turbocharged air inlet system.

High torque reserve

The engine torque reserve is high, so it can fully satisfy the heavy-duty operation requirements in deep plowing, soil separation, etc. In addition, the stable operation performance of tractors is guaranteed, gear shift frequency is reduced, and the operation is more simple and convenient.

High efficiency, high reliability and low fuel consumption

With higher output power at the same torque, the operation efficiency of the engine is improved. The self-developed cylinder block and cover structures are applied, and the key components are provided by the internationally well-known suppliers, which have passed the 100,000-hour verification test. In addition, the highly-efficient turbocharging technology guarantees the low fuel consumption of Lovol engine, which is 5%-10% lower than that for engines with the same power.

Maintenance-free storage battery

Being maintenance-free, no electrolyte is required for the storage battery, which guarantees its high reliability and long service life, and saves the maintenance costs.

More efficient two-stage dry air filter

The tractor is equipped with the well-known Donaldson two-stage dry air filter, which is high in filtering efficiency and easy to maintain. In such case, the reliability and fuel efficiency of the tractor are improved, and the maintenance time and cost are saved.



Standard Lovol engine: Cylinder number: 4; Displacement: 4L; Engine power: 66-80 kW (80-100Hp); PTO power: 56-68kW; Rated speed: 2,200; Intake mode: natural intake.

Stable and highly-efficient drive system

European design is integrated in the drive system. The precision machining of gearbox and unique gear design make the drive more stable and better matched with Lovol engine, and the whole-machine performance sees a more remarkable improvement.

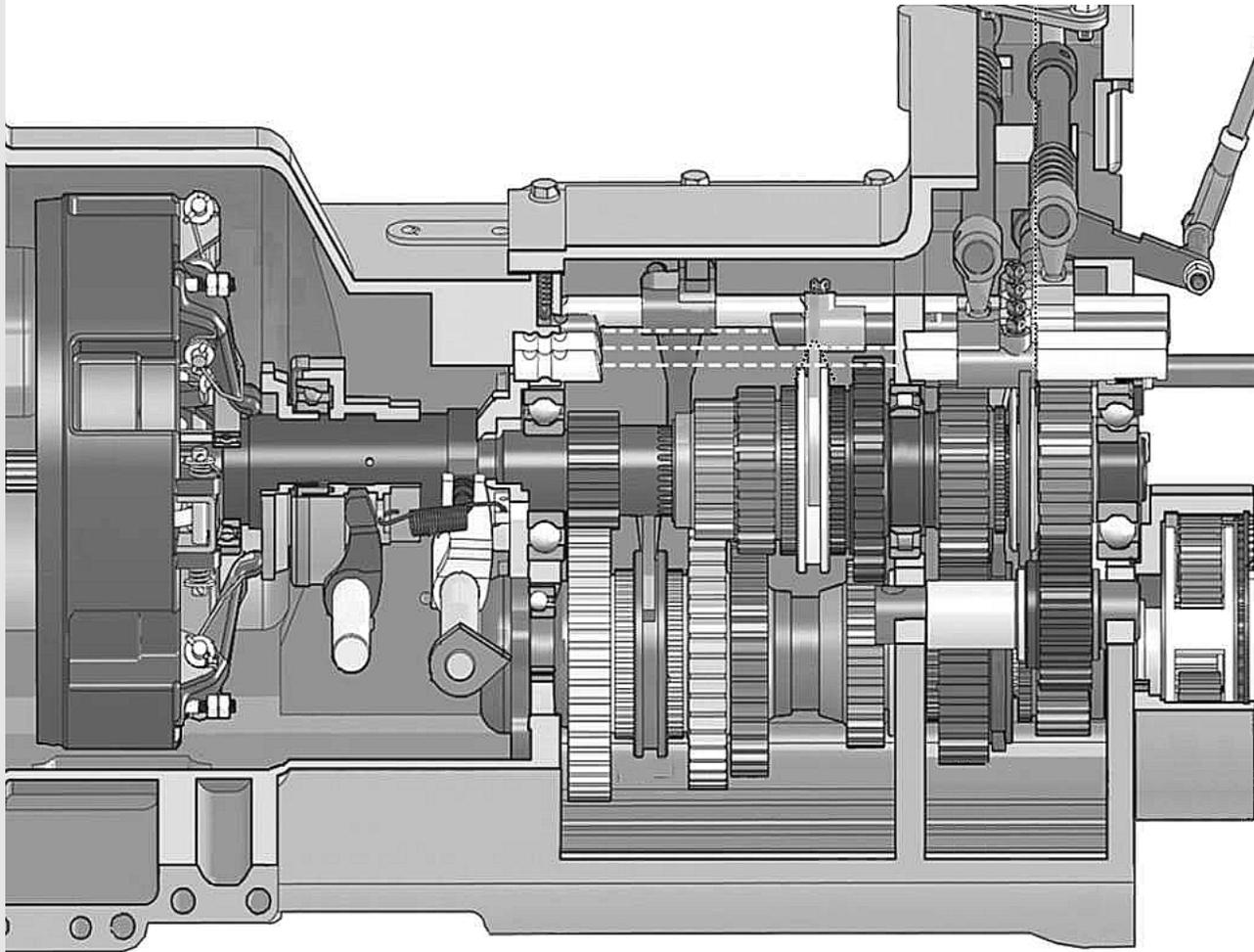
Main well-selling products of this series include 16F + 8R engaging sleeve and shuttle shift gearbox. According to your operation requirements, you can choose either the 8F+4R shift, 8F+8R shuttle shift and 16R+8R creeping shift gearboxes, or the latest synchronizer for gear shifting.

With proper speed distribution, it can adapt to various operation requirements; with Luk (Germany) double action clutch in independent manipulation, the quality is reliable, power transmission efficiency is high, and manipulation is comfortable; KOYA bearing is applied.

Proper speed distribution

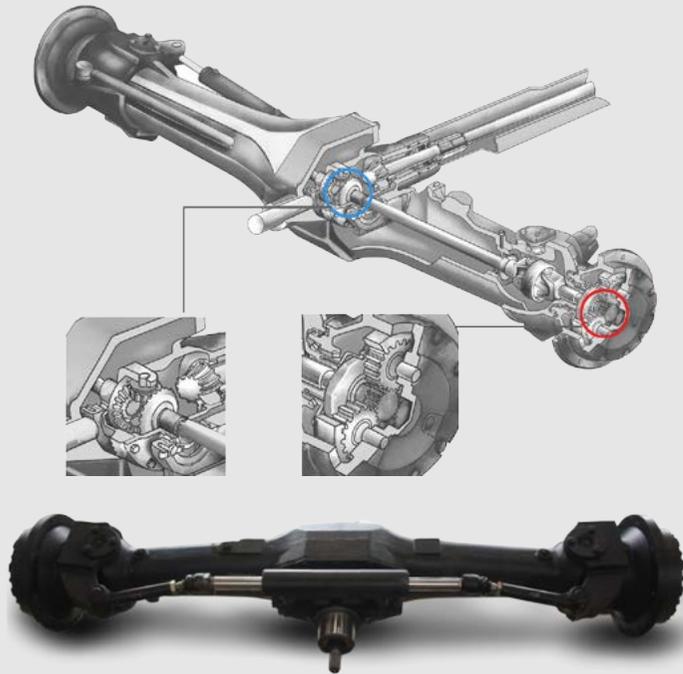
Proper working speed selection can not only deliver maximum productivity and economic efficiency, but also extend the service life of tractors. Tractors shall not always be operated at overload, so that engine can have a certain power reserve. Field working speed of tractors shall ensure that engine works at around 80% of its rated load. To save fuel, you can throttle down at gear H1 in case of light load operation and low working speed.

Type	Plowing	Returning straws to field	Rotary tillage	Sowing	Spraying
Operation speed	6-9	7-8	3-5	5-7.5	2-5



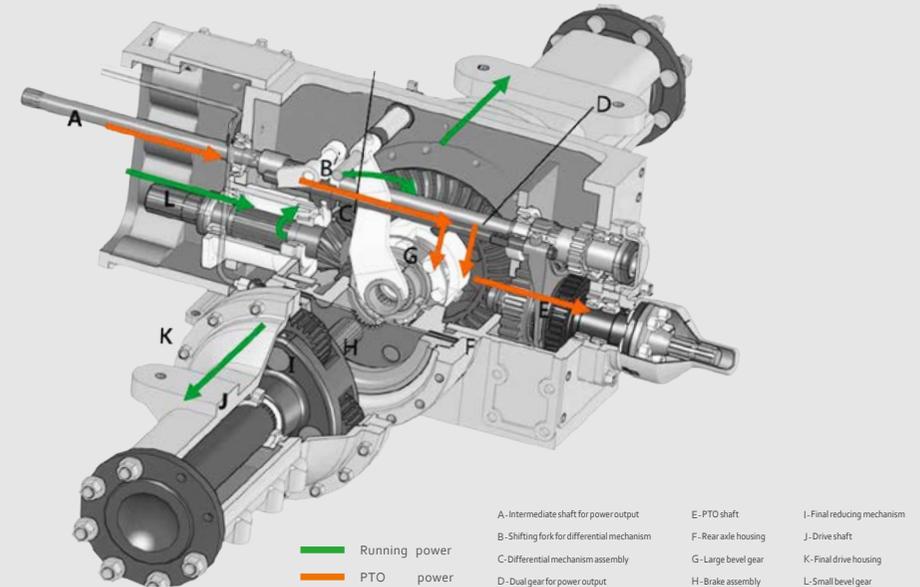
Stable and highly-efficient drive system

Stable and highly-efficient drive system



New design front axle with bigger burden capacity, higher clearance, two steering cylinders structure

The front drive axle is applicable to all the TD series products, which enjoys the best design. The housing is formed in an integrated manner, so its load carrying capacity is stronger, let alone dragging and traction. It can also be well matched with such front machines and tools as the front loader. The double-bevel gear drive structure is provided with high water tightness, as well as good operation performance in paddy fields, so it not only can meet the daily operation requirements, but also minimize the maintenance costs. The middle double action oil cylinder is more flexible in manipulation, and the overall ground clearance is larger. You can also configure the front drive axle of the double action oil cylinder, which is small in manipulation force. In such case, the user can drive it without trouble in complex landforms. With larger ground clearance and better accessibility, the user can drive it without trouble in complex landforms.



Lovol self-developed axle with planetary reduction mechanism, differential mechanism and wet brake is used as the rear drive axle of TD series products, which possesses high durability, stability and reliability and is almost free of maintenance under normal conditions. In addition, the operation comfort and safety are greatly improved.

The built-in final planetary reduction mechanism in the rear axle casing distributes the rear axle's pressure to three gears. Compared with the common externally meshing cylindrical gear at the same horsepower section, the planetary reduction mechanism has greatly reduced the stress on single gear and axle.

The wet brake is used, which is not only lighter, more stable and safer in braking, but also longer in service life when compared with the brake structure of dry drive axle, so it can provide you with safer and more comfortable braking experience.

Excellent performance of farm work



Dual-speed PTO is adopted for more fuel-efficient field operation, Solid CAT1 three-point hitch realizes more reliable field operation.

Enhanced chassis—the chassis is heavier than similar products, so its advantages in field operation is more remarkable. With 16 optional gears, it can be well matched with various disc plow, disc harrow, rotary cultivator, ridger, subsoiler, spraying machine and sugarcane planter during the field plowing, harrowing, rotary tillage, ridging, subsoiling and other similar operations.

Hitch system

the lower link and lift link are made of high-quality steel after stern heat treatment process, featuring high strength, resilience and durability, and the fast hitching mechanism is optional.

Hydraulic system

the hydraulic lifter is provided with position control, force and position integrated control and floating control functions. When it works, the control handle can lift the farm implements up and down and control the plowing depth. The hydraulic flow rate is high, with lifting system flow rate of 40L/min, steering system flow rate of 13L/min, and total flow rate of 53L/min. During the operation, the implements are lifted at high speed and in high efficiency.

TD series tractor is equipped with dual-speed power output shaft, which have four speed combinations, including 540/760, 540/1000, 760/1000 and 760/850.

Basic Specifications and Configuration

	Unit	TD754	TD824	TD904	TD954	TD1004
Engine		LOVOL ENGINE	LOVOL ENGINE	LOVOL ENGINE	LOVOL ENGINE	LOVOL ENGINE
"Rated Engine Power ISO TR14396-ECE R120"	hp/kW	75/55.1	82/60.3	90/66.2	95/69.9	100/73.5
Type				4 cylinders diesel		
Rated Engine Speed	rpm	2200	2200	2200	2200	2200
Max. Torque ISO TR14396	Nm	>263	>288	>350	>360	>380
Rated PTO Power	kW	49.6	54.3	59.6	62.9	66.1
Displacement	ltr	4	4	4	4	4
Fuel Tank Capacity	ltr		145 (The second Generation) /230 (The third Generation, with auxiliary fuel tank)			
Transmission						
Dry Dual Clutch (Ceramic disk)	in.	12	12	12	12	12
8F+4R Collar Shift		○	○	○	○	○
8F+8R Shuttle Shift		○	○	○	○	○
16F+8R Shuttle shift		●	●	●	●	●
16F+8R Creeper Shift		○	○	○	○	○
16F+8R Synchro Shift		○	○	○	○	○
Speed Range	km/h	8F+4R Collar Shift: Forward (2.2~33.3) / Reverse (3.0-10.3) 16F+8R Creeper Shift: Forward (0.4~33.3) / Reverse (0.6-10.3)	8F+8R Shuttle Shift: Forward (0.2~33.3) / Reverse (2.2-33.2)	16F+8R Shuttle shift: Forward (1.5~32.2) / Reverse (2.3-33.2) 16F+8R Synchro Shift: Forward (1.7-33.3) / Reverse (2.4-21.4)		
Differential Lock		●	●	●	●	●
Power Take-Off 540/1000 rpm		○	○	○	○	○
Power Take-Off 760/1000 rpm		○	○	○	○	○
Power Take-Off 540/760 rpm		○	○	○	○	○
Brakes						
Type				Wet disc, Static hydraulic control		
Parking Brake				Independent Hand Brake		
Air Trailer Brake		○	○	○	○	○
Front Axle						
4WD Front Axle		●	●	●	●	●
2WD Front Axle		○	○	○	○	○
Steering Angle	°	30	30	30	30	30
Turning Radius Without Brake	m			4.9±0.3		
Turning Radius With One Side Brake	m			4.2±0.2		
Hydraulic Power Lift						
Type				Combined Control on Force and Position, Floating Control		
Cat. 2 Three Point Hitch		●	●	●	●	●
Hydraulic Flow	l/min			33/41(powerful lifter)		
Lift Capacity at Lift Point	kg			Semi-separated: ≥2500 Separated: ≥4500		
Lift Capacity at 610mm behind Hitch Point	kg			Semi-separated: ≥1500 Separated: ≥2000		
No. of Remote Valves		2	2	2	2	2
Cab and Driving Seat						
ROPS		●	●	●	●	●
Full-view Cab		○	○	○	○	○
Air Conditioning		○	○	○	○	○
Suspended Platform		●	●	●	●	●
Tires and Weights						
Front Tires	Standard			11.2-24		
	Optional			12.4-24/13.6-24/320/85R24		
Rear Tires	Standard			16.9-34		
	Optional			18.4-30/18.4-34/13.6-38/13.6-38(paddy land tires)/460/85R30		
Structure Weight (ROPS) *	kg	3615	3615	3615	3615	3615
Structure Weight (Cab) *	kg	3915	3915	3915	3915	3915
Overall Dimensions						
Length	mm			4530		
Width	mm			2150		
Height	mm			2900		
Wheel Base	mm			2366		
Ground clearance	mm			405		

Note: ● Standard ○ Optional * Tractor Dry Mass

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Specifications and designs are subject to change without prior notice.

Machines shown may include optional parts.

The above parameters are subject to change without notice, the illustrations in text is not always the type of standard models.



LOVOL website



LOVOL Europe