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LOVOL HEAVY INDUSTRY CO., LTD.

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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.

TD SERIES TRACTOR (80-100HP)

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
AGRICULTURE



LOVOL OVERVIEW

Lovol Heavy Industry Co, Ltd. is an international multi-business group primarily specializing in agricultural equipment, construction machinery, vehicles, financial services and other businesses. The company now has a total asset of 2.5 billion dollars with 15,000 employees in and beyond China In 2015, the sales revenue has reached 5 billion dollars.



LOVOL BRAND

In 2018, the brand value of LOVOL is evaluated to be RMB 58.195 billion .

LOVOL PRODUCT

As one of the fastest growing brands in China, Lovol is available to provide customers with a full range of products, including tractors, combine-harvester, tractor implements, etc.

LOVOL R&D

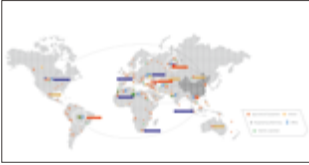
Located in Bologna, Italy, Lovol European R&D Center boasts a team of more than 200 experts, focusing on the development of power shifting platform tractors and large grain harvesters. Lovol Japan R&D Center is responsible for the research of construction machinery and hydraulic electric control technology. Equipped with Body Power Center, Transmission Capacity Center and Hydraulic Electric Control Center, Lovol Weifang Institute of Technology is mainly engaged in mechanical shifting platforms and harvest machinery; Lovol Zhucheng Technical Center is responsible for the development of agricultural implements and municipal equipment attachments.

LOVOL FACTORIES

Lovol has two major agricultural equipment production bases, one in Italy and one in Weifang, China, and 12 industrial parks, including Arbos (Europe) Factory, MaterMacc Factory, Goldoni Factory in Europe; Arbos (China) Factory and Lovol Heavy Equipment in Weifang, Shandong; Five-star Vehicle Factory, Five-star Car Factory and Arbos Agricultural Equipment and Implements Factory in Zhucheng, Shandong; Construction Machinery Factory in Qingdao; Axle Case Factory in Linyi, Shandong; Engine Plant in Tianjin; and Beidahuang Factory in Harbin, Heilongjiang.

LOVOL NETWORK

Lovol now has developed more than 300 distributors in 120 countries and regions, forming five-in-one global operating network integrating sales, after-sales service, spare parts supply, customer training and information feedback.



SPECIALIZED TRACTOR

Based on Lovol’s sense of responsibility and your trust, we will recommend you a good assistant with luxury appearance and outstanding connotation.

TD series tractors are specialized products with excellent quality. Its user-friendly design and good manufacturing process will bring you convenient operation and comfortable driving experience. When using it, you will experience many advantages beyond your imagination, and it will not only let you enjoy the fun for driving in high-efficiency operations, but also bring you better economic benefits.

TD series tractor is equipped with Lovol engine whose power range is 80-100hp. This engine boasts high torque reserve, so it can provide you with continuous and strong power, and thus help you to complete heavy operations without trouble.



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.



For TD series specialized tractor, the simple and fashionable G2 model and luxury and comfortable G3 model are available

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.

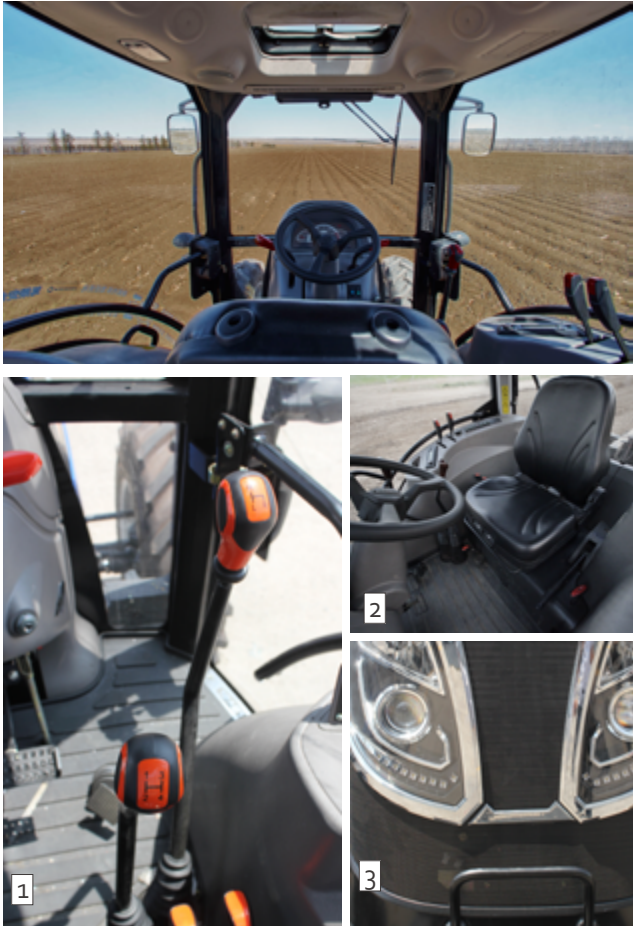
If you prefer economic efficiency, convenient maintenance and vision without dead angle, then without Cab model, with or without ROPS model may be your best choice.

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)

- 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.
- 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.
- 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.



If you want to choose a more simple and fashionable cab, there is no doubt that TD series G2 model is the best choice for you. (optional cab and sunshade).

The fully-closed cab with full-view arc type glass windows and doors enjoys attractive appearance and wide vision, and it will make your driving more comfortable and convenient. The lock for semi-opening of the window can ensure the letting in of enough fresh air and minimum grass, hay and dust; the side windows and rear windows can be opened.

ROPS and Sunshade are optional, and they have all passed the OECD safety certification. The Sunshade model can maximize your operation vision and make your driving safer.

Configuration			
Flat floor model	Optional	Optional	Optional (air conditioner)

- Similar to G3 model, G2 model is also equipped with 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, making the operator more comfortable..
- User-friendly manipulation platform: suspended pedal is used to make your manipulation simpler and more comfortable,The side gear lever will reduce your fatigue and make your operation more convenient.

Stable performance, and low fuel consumption

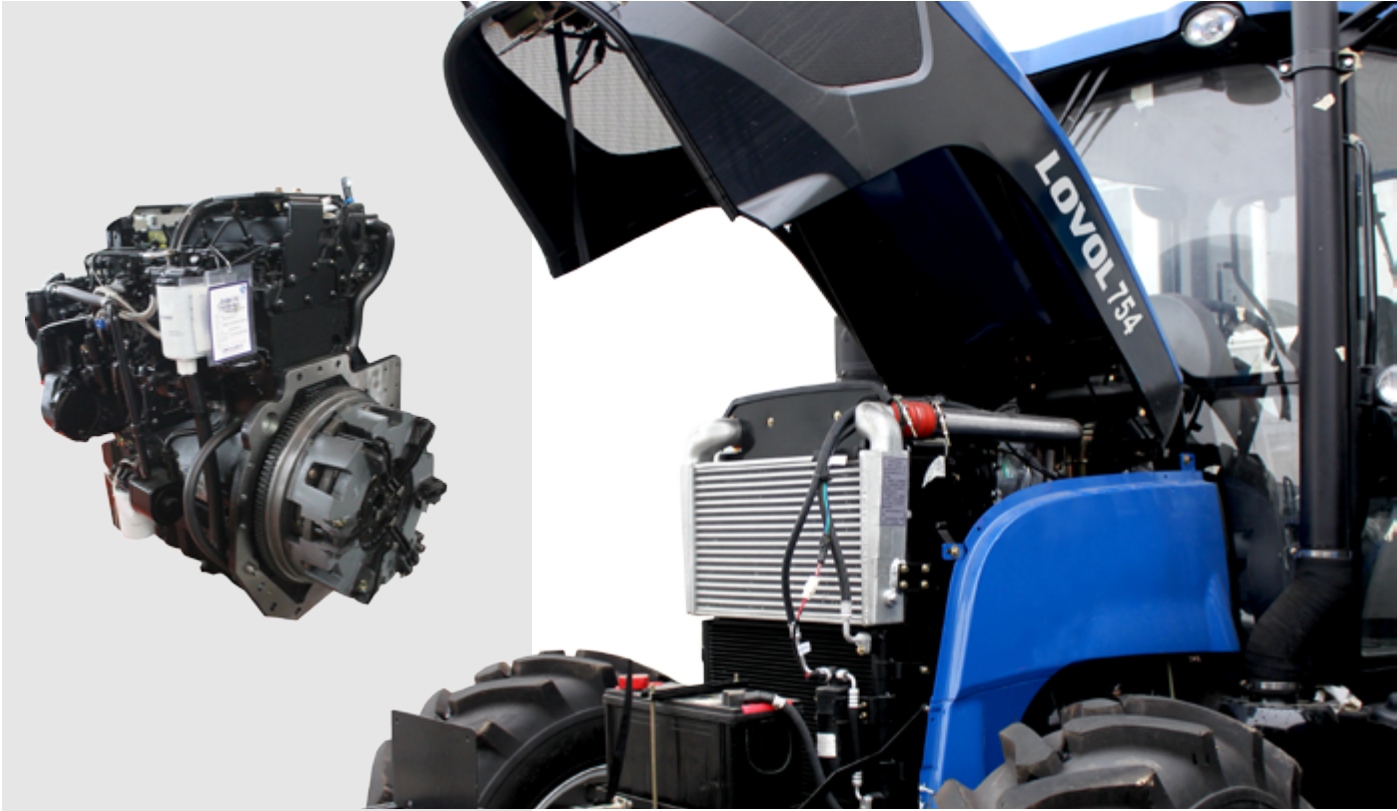
Strong and highly efficient Engine

A strong body needs a strong heart to provide the body with forceful and uninterrupted energy. The reliable, highly-efficient and excellent performance and the low operating costs are the reasons for you to choose Lovol's TD series tractors.

Lovol engine is equipped with the well-known European engine technology, four-cylinder engine dual-valve design, and turbocharged air inlet system, which can guarantee the strong power, low fuel consumption and high torque reserve, making your operation more efficient and energy-saving.

Its good performance, fuel efficiency and reliability are well combined, which can guarantee a stable torque curve and maximum torque level so as to make use of the maximum efficiency of PTO power.

With strong power, the engine can have excellent performance even in soil environment with great specific resistance. It can also satisfy the requirements for larger torque and higher power at high fuel efficiency, and the fuel consumption per hour will help you to save more money



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.

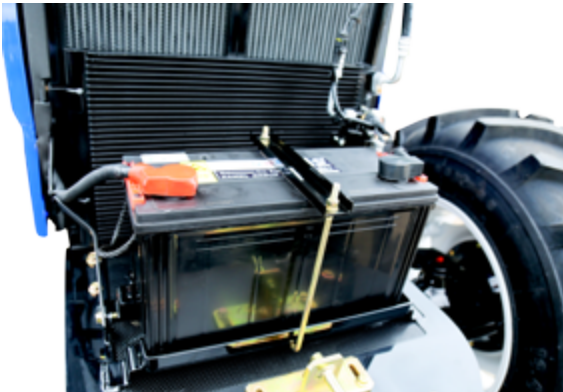
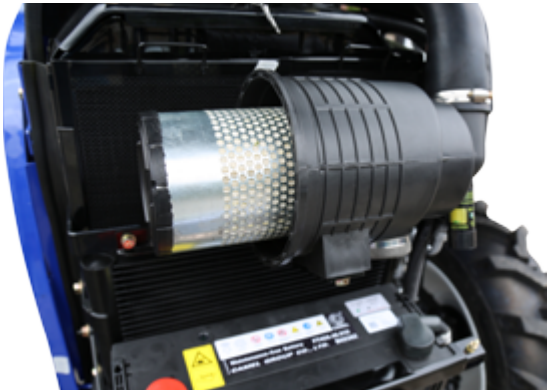
Highly user-friendly maintenance system to make it easy to meet different challenges

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.

Use and maintenance

- 1 Engine startup safety protection and electric stop**
The engine cannot be started unless the clutch is engaged and the engine switch is rotated, and certain time for safe evacuation is provided for people in front and back of the tractor before the clutch is released.
- 2 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.
- 3 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. The oil type air filter is available for optional, equipped with the desert prefilter, which features are excellent filtering performance and easy maintenance.
- 4 More efficient two-stage dry air filter**
You should clean or replace the filter element at the maintenance interval specified in the Operation Manual. Pressure sensor and alarm light are available on the air inlet at the back of the filter, which can timely remind the user who has not cleaned the filter element in time. The whole maintenance process is easy and simple, and no tools needed.



Multiple speed options meet different working conditions

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.

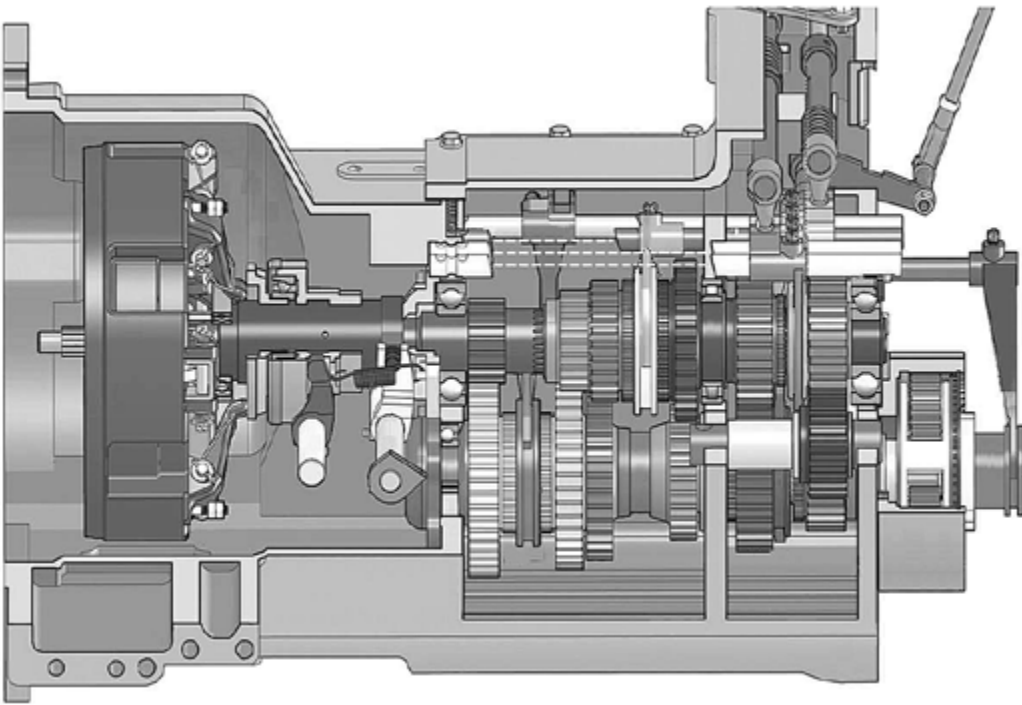
Main well-selling products of this series include 16F + 8R engaging sleeve and shuttle shift gearbox. According to your operation requirements, you can choose either the 8F+4R shift, 8F+8R shuttle shift and 16R+8R creeping shift gearboxes, or the latest synchronizer for gear shifting.

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.

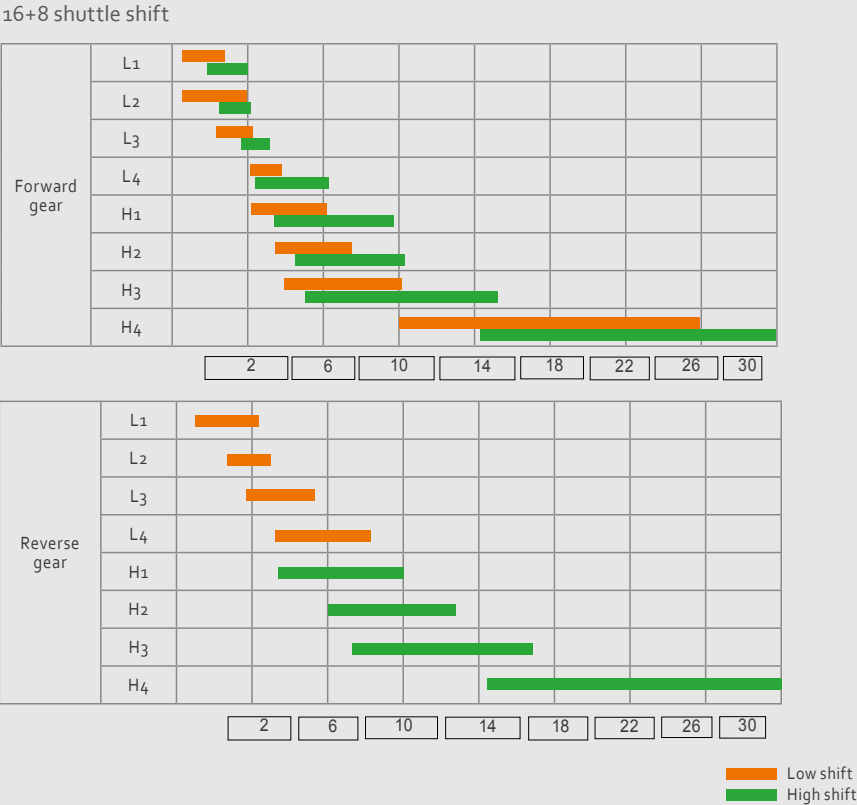
Proper speed distribution

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

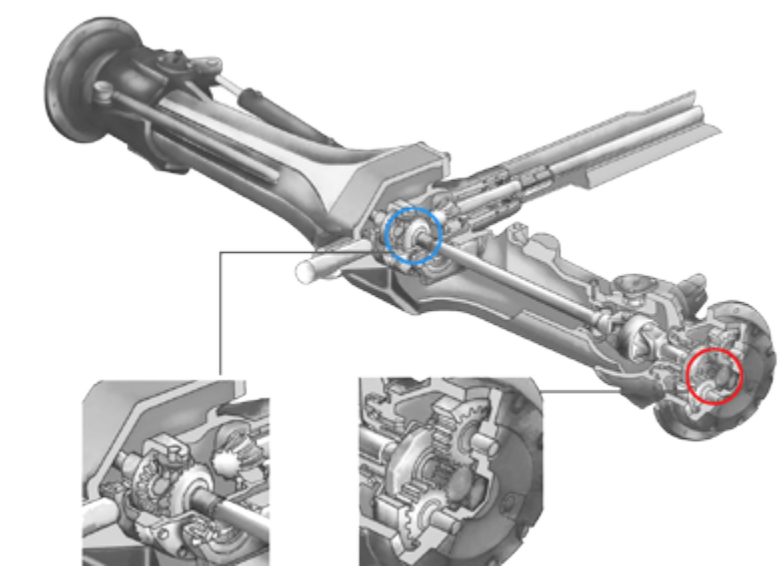


The high power transmission efficiency brings you comfortable manipulation



The high power transmission efficiency brings you comfortable manipulation

Front drive axle with good manipulating performance and high reliability



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

- 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.
- The regulating lever can be shorter, which makes the manipulation more accurate and helps to obtain consistent, reliable and strong steering performance in case of uneven landform. The toe-in has already been adjusted in place before delivery, so there is no need for the customer to calibrate again. This effectively avoids the early abrasion of tire due to improper toe-in regulation, and maximizes the service life of tire. The double-bevel gear drive structure is provided with good tightness and high waterproofness, and it can perfectly work even in paddy fields, so quality problems and maintenance costs can be significantly reduced.
- The steering angle is limited, which not only ensures the steering safety, but also provides more adjustment options for users on the steering radius. It also can cope with the local agronomic conditions, and make sure that the machine works within the proper steering zone.



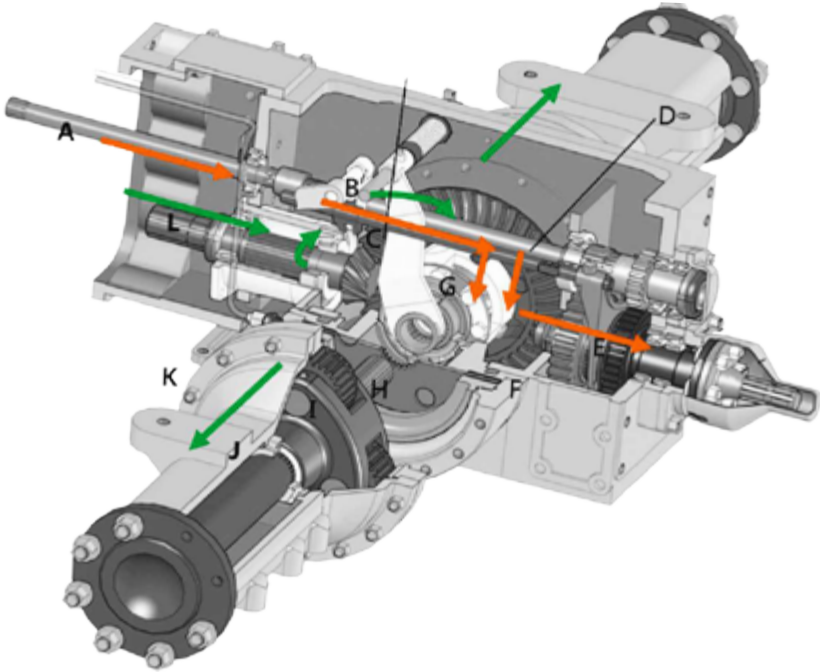
The front drive of TD series product is divided into two types, namely, the front drive axle and front axle, of which the former is in four-wheel drive structure, and the latter is in the mechanism that the two rear wheels drive the front wheel. The front drive axle is applicable to all the TD series 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.

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. Therefore, the customer will be provided with a rear axle with longer life, as well as less maintenance costs and time. In other words, more highly-efficient operation time will be won for the customer.

- 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, as well as the gear's fracturing risks.
- The differential lock pedal is located on the floor at the right side of cab so that the driver can hitch the differential lock when releasing the clutch. If the driving forces on both sides of the rear axle are uniform, the differential lock will be automatically released. With the differential lock, the customer can adapt to more working conditions.
- 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



Rear axle with high reliability and large driving force



- | | | |
|---|----------------------|-----------------------------|
| A- Intermediate shaft for power output | E- PTO shaft | I- Final reducing mechanism |
| B- Shifting fork for differential mechanism | F- Rear axle housing | J- Drive shaft |
| C- Differential mechanism assembly | G- Large bevel gear | K- Final drive housing |
| D- Dual gear for power output | H- Brake assembly | L- Small bevel gear |

- Running power
- PTO power

Dual-speed PTO is adopted for more fuel-efficient field operation

Solid CAT1 three-point hitch realizes more reliable field operation

TD series tractor is the real field operation expert, which possesses strong power and low fuel consumption.

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, so it will provide you with the optimum operating efficiency and effects, being the best choice for your field 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.



Three-point hitch is usually used to attach heavy spraying boxes and seeders in field operation. In the process, the high-strength design protects the hitch system from damage when tractors work on bumpy lands, so that the maintenance cost can be reduced.

Excellent performance of farm work



The lifting system is provided with force feedback, position feedback and force and position integrated feedback functions. Among them, the force feedback function is applied in the operation of such implements as plow and harrow and the position feedback function is applied in the operation of such implements as seeder and rotary cultivator. In such case, the customer can choose the forced lifter (forcing up and down) and lifter with separated force and position regulation according to the different working conditions, and thus the adaptability is wider.

Transportation capacity

TD series tractor is heavy in dead load and strong in traction force. When it is combined with the high-strength chassis, front axle, wide tire and highly-reliable wet brake, the customer can easily handle the rugged road surface and steep hill road surface during the transportation, and it is extremely suitable for the large-tonnage transportation.



Enhanced trailer and tilting traction mechanism are used, which are made of high-quality steel after heat treatment process, featuring high strength and resilience. When large-sized trailers or pesticide vehicles are dragged, enhanced draw bars are capable to bear stronger traction and torque force.



Transportation capacity



According to the height of the trailer, the trailer coupling can be adjusted upwards or downwards to avoid hindering the output of PTO, maximizing the convenience for users. 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.

Multi-functional operation capacity



TD series tractor not only can perfectly complete various field operations, but also can be well matched with front loader thanks to its high-strength chassis and front axle, high hydraulic flow rate and convenient shuttle gear shift manipulation. You can easily complete such work as shoveling, transferring and snatching with proper auxiliary front-loading machines, so it is a real multi-functional tractor.

The open-center hydraulic system is used for TD model, the pressure of which can reach 18MPa; the lifting system and steering system are equipped with one independent gear pump each, and their hydraulic systems will not interfere with each other; when the lifter works, the machine can normally turn without influencing the lifting speed. The two independent gear pumps not only guarantee the steering safety, but also ensure the work efficiency. Moreover, the lifting system, steering system and hydraulic system are mutually independent, with simple structure and stable performance; if any hydraulic failure occurs, it is easy to find out the source of failure to facilitate maintenance. The hydraulic oil for lifting and steering is stored in separate tanks and the hydraulic oil is separated from the gearbox oil, which guarantees the cleanness of oil for both the steering and hydraulic systems, reduces the failure of hydraulic system and brings down the maintenance costs.

The hydraulic flow rate is high, with lifting system flow rate of 41L/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.



Basic Specifications and Configuration						
Engine	Unit	TD754 LOVOL ENGINE	TD824 LOVOL ENGINE	TD904 LOVOL ENGINE	TD954 LOVOL ENGINE	TD1004 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	46.7	51.3	56.3	59.5	62.5
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) 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 Creeper Shift: Forward (0.4~33.3) / Reverse (0.6-10.3) 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	4.2±0.3				
Turning Radius With One Side Brake	m	3.6±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	12.4-24/13.6-24/12.4R24				
Rear Tires	Standard	16.9-34				
	Optional	18.4-30/18.4-34/13.6-38/13.6-38(paddy land tires)/18.4R30				
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	2050				
Height	mm	2810				
Wheel Base	mm	2195				
Ground clearance	mm	405				

Note: ● Standard ○ Optional * Tractor Dry Mass