



## Lovol, In the wide world

The large and medium-sized tractors powered by Lovol engines are widely sold to US, East Europe, Mid-Asia, South America, Africa and so on. With the strong power output, reliable and lasting quality, lower oil consumption, these tractors are welcome and trusted by the customers all over the world.

### Advantages

#### High torque

Optimize the performance, increase the torque. The Max torque for 4 cylinder engines: 445N.m (1000 series) and 650N.m (1100 series); The max torque for 6 cylinder engines: 770N.m (1000 series) and 960N.m (1100 series). The max torque reserves can reach 40% which helps to satisfy the heavy duty work requirement, like tractor deep ploughing, joint soil preparation and so on.

#### Small libration

Dynamic unbalance control for all working parts effectively reduce the engine libration.

#### High efficiency

Power output with equal torque effectively improve the engine working efficiency. Comparing with the similar products, it also can save more time.



Inheriting from the world's leading technology



### Performance Parameter

Model	Induction system	Cylinder number	Bore×Stroke	Displacement (L)	Rated power/speed (kw/rpm)	Max.Torque/speed (N.m/rpm)	Emission
1003C-D3T	Turbocharged	3	100×127	2.99	42/2200	224/(1400-1600)	Stage II
1004-4	Naturally aspirated	4			53/2200	260/(1400-1600)	
1004D-4TA	Turbocharged & air intercooled				74/2200	390/(1400-1600)	Stage IIIA
1004-4T	Turbocharged				76/2300	405/(1400-1600)	Stage II
1004-4TW	Turbocharged & water intercooler	6		5.99	80/2300	435/(1400-1600)	Tier2
1004D-E4TA	Turbocharged & air intercooled				90/2200	445/(1400-1600)	Stage IIIA
1006-6T	Turbocharged				107/2400	545/(1500-1600)	
1006D-6TA	Turbocharged & air intercooled				115/2300	610/(1500-1600)	Stage IIIA
1006-6TW	Turbocharged & water intercooler				124/2400	623/(1500-1600)	
1006-6TA	Turbocharged & air intercooled				144/2400	735/(1500-1600)	
1006D-E6TA	Turbocharged & air intercooled	140/2200	737/(1400-1600)	Stage IIIA			

### Product Superiority

Leading technology: perfectly exhibits 100 years historical experiences and advanced design concept.

- Optimized structure strengthening design: power per liter and torque per liter are superior to other similar engines.
- Purchased parts and components are all from high level domestic suppliers.
- The water pump is gear-driven, which has a high efficiency and reliability, so engine overheat caused by failure of belt transmission is avoided. The dual-thermostat design further enhances the reliability of the cooling system.
- Main maintenance parts as oil filters, fuel filters and fuel injection pump, etc. are all mounted on the left side of the engine while inlet and outlet manifolds on the right side, making the maintenance more convenient.
- Separate rear oil seal from flywheel housing results in convenient maintenance.
- Good cold starting performance ensures the engine is simple to use.
- The adoption of turbocharged and intercooling technology guarantees enough air intake

Strong power : providing the best power with compact concept.

- Diversified performance curves: 1000 series engines with power output ranging from 60HP to 185HP, such as 1004-4, 1004-4T, 1004-4TW, 1006-6, 1006-6T, 1006-6TW, 1006-6TA, these engine model are specially developed for non-road application and have diversified performance curves, which can be equipped with all kinds of non-road machinery and power is quite strong.

Good fuel economy and environmental protection: the fuel consumption is further reduced, fuel economy is better.

- Ultra low oil consumption: the oil consumption rate is only 2 thousandth of the fuel consumption rate.
- Low noises: The patented combustion system, the timing case cover made of special sound-proof composite, the cylinder head cover and the oil sump made of aluminum alloy and all grinded gears help to reduce noises.
- High emission standard: we can supply whole series engines which can meet National III/IV emission standard.

Excellent manufacture: good structure and reliable quality can be assured.

- Modern production lines: more than 80% of the processing equipments are imported from Europe and America, these guarantee the process and assembly of precise parts.
- Advanced sealing technology.
- All bolts are self-locking, eliminating the need of washers and ensuring firm joints.
- Dry cylinder liner honed by silicon carbide, top ring grooves with embedded heat-resistant alloy ring is covered with durable plasma molybdenum layer; all these special treatments enhance the wear resistance