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HOWO T7H



<https://truckmanualshub.com/>

HOWO-T7H

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HOWO T7H SERIES is a series of heavy-duty trucks with world quality newly developed by Sinotruk with the help of strategic cooperation with German company, which lasted three years.

When you are driving with its super power and perfect braking and enjoying comfortable and flexible operation, you will feel unparalleled in its ability to carry large tonnage and long-distance transportation in the form of an assembly line.

The extremely high dynamics when going uphill and the excellent braking ability when going downhill enable it to maintain a consistent comfortable driving experience, strengthen the transportation capacity and good fuel economy, which will give you a bold and bold detachment.

Efficient

Ultra-high reliability and ultra-long fault interval mileage ensure that your car can run unimpeded;

Economic

Ultra-low fuel consumption and long engine oil change mileage will help you get greater transportation benefits;

Safety

Super safety that meets the world's most stringent Swedish regulations and guarantees driving safety.



HOWO T7H
SERIES

CAB APPEARANCE

Italian design style, with thick lines highlighting the modern, dynamic and concise design concept, the overall shape is unique, with good aerodynamic performance, and low drag coefficient;

The air intake vent is perfectly combined with the air deflector on the same side; the flying waistline is refreshing; the new rearview mirror with electric adjustment and electric heating; the chic gull-wing sunshade; the combination of black with a modern sense Bottom front headlights; large-capacity toolbox, which can provide users with sufficient storage space; three-level stainless steel anti-skid pedals, making it safer and more convenient for passengers to get on and off.



HOWO T7H

SERIES

WELCOME BACK HOME

ENJOY WORKING ENJOY CAB

Comfort in the workplace. This is a key requirement for stress-free driving. And a promise which the HOWO T7H cabs live up to on trip with their ergonomics as well as their equipment and details which are matched precisely to the work processes involved in transport.

Originated from German technology and tools, HOWO T7H cabin is finely crafted with reliable rigidity, generating high safety in line with European regulations.

Four-point suspension, front lateral stabilizer, front and rear airbag shock absorber and rear lateral shock absorber contribute to better damping effect and better comfort.

The large front and rear windows create an excellent surrounding visual environment for the drivers and passengers.



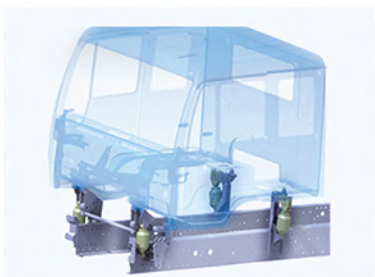
SINOTRUK
HOWO T7H SERIES

Seat— as good as a first class chair

The airbag seat with backrest cushion helps the driver find proper position to be seated quickly; the ergonomic integrated design of the safety-belt and the seat avoids driver's sensation of suffocation caused by emergency braking during driving.

Comfort with the air suspension:

four-point air suspension with simple structure provides better stability, damping effect and comfort, as well as the function of cabin backward deflection against collision, which secures safety of the occupants.



Dashboard: A Word of infotainment at your fingertips

Integral surround structure, reasonable layout of various switches, easy to operate.



High capacity storage space



Magazine rack



Multifunctional storage box under the dashboard

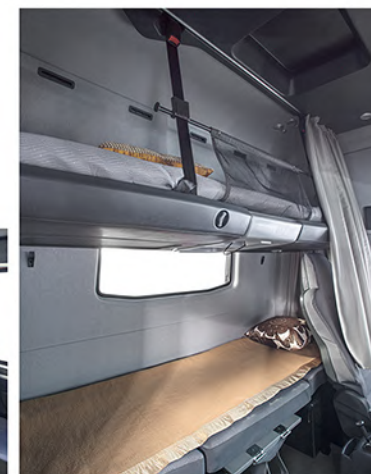


Steering wheel

The height angle can be adjusted in all directions, and the adjustment range is large, which can meet the driving comfort requirements of drivers of different sizes.

Internal space

The interior space is warm and home-like, the interior space is maximized, the range of personnel activities is large, and the passability is good.



POWERTRAIN

EFFICIENT AND ENVIRONMENT-FRIENDLY

Powertrain is more reasonable

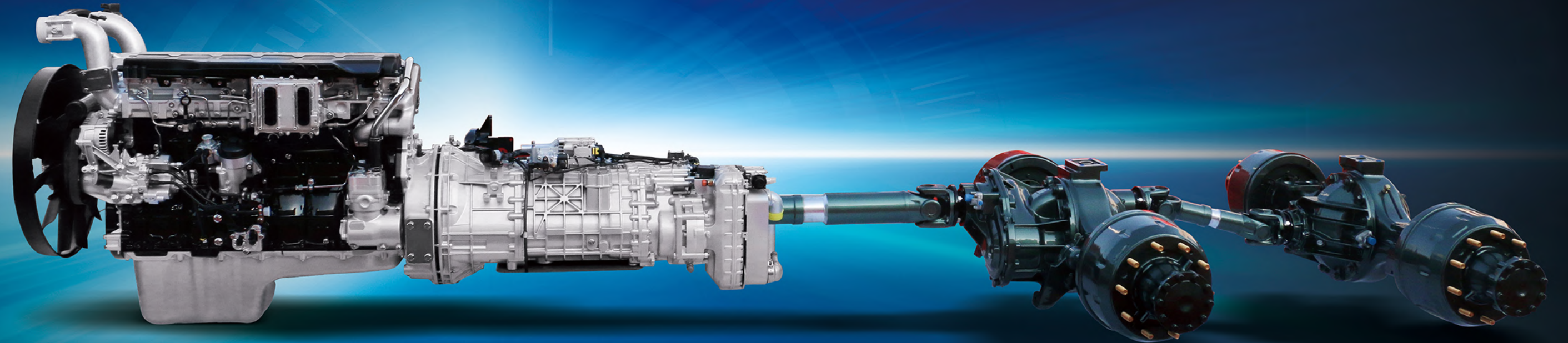
The whole powertrain has gone through vigorous theory verification and various complicated field validation. Every assembly in the powertrain fully plays its superior performance, truly realizing reasonable match and the best use of every part.

Higher transmission efficiency

Precise and reasonable matching, advanced technology and processing technique make the transmission efficiency better for the whole powertrain, saving the costs making more efficient.

Longer maintenance interval mileage

The oil change interval of axle, engine and transmission reaches 100,000 miles, realizing long oil change interval and high attendance.



ENGINE

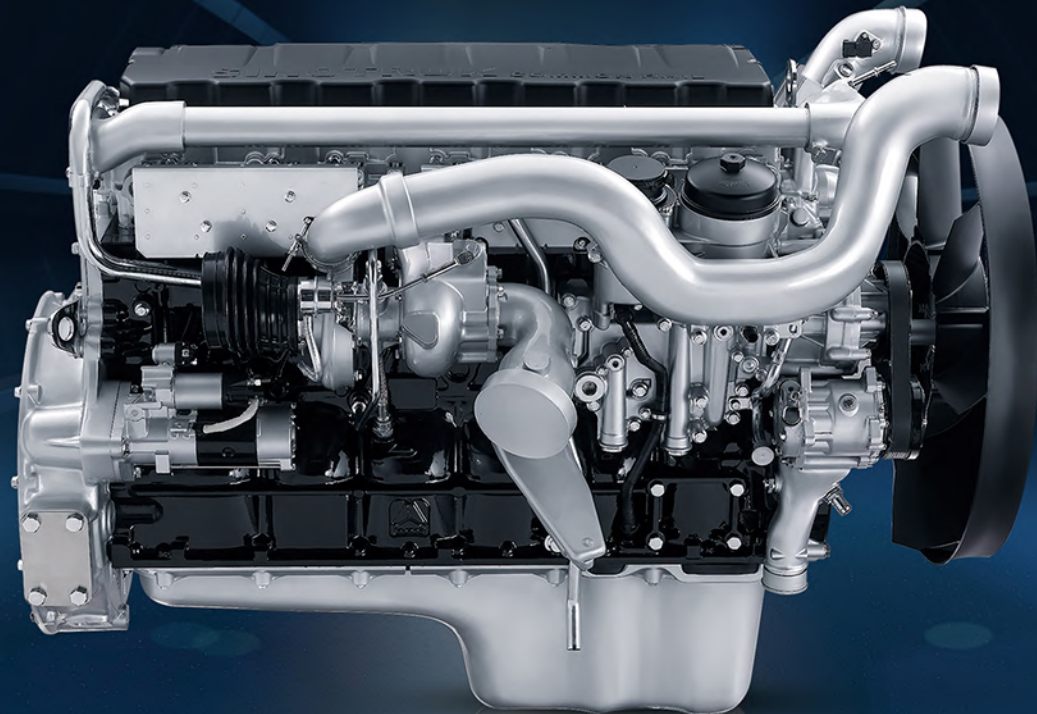
DERIVING FROM GERMAN TECHNOLOGY AND IMPROVED IN CHINA

– THE MC ENGINE EURO V

Wide rotation speed with high torque, low rated speed and strong power. The engines adopt more advanced fuel injection system and exhaust treatment system. The power of MC11 series engines Euro V ranges from 320 to 460PS and the torque ranges from 1600 to 2200Nm. MC11 series engines adopt a range of new structures, new technologies, new materials and new designs, which presently empowers them world-leading engines.

Euro V engine main parameters

Model	MC11.40-50	MC11.44-50	MC11.46-50
Cylinder No.	6		
Bore (mm)	120		
Stroke (mm)	155		
Displacement (L)	10.518		
Compression ratio	19:01		
Max. net Power (Kw)	294 (400hp)	324 (440hp)	341 (460hp)
Rated revolution (rpm)	1900		
Max. Torque (Nm)	1900	2100	2200
Rpm@ Max. Torque	1000 ~ 1400		



Vermicular cast iron

The material of the cylinder block adopts vermicular cast iron, which has higher rigidity and strength, realizes thinner wall thickness and reduces the weight of the engine. Compared with traditional gray cast iron, the extension strength of vermicular cast iron improves by 75%, elasticity modulus improves by 40% and fatigue strength improves by 100%.

Cracking technology

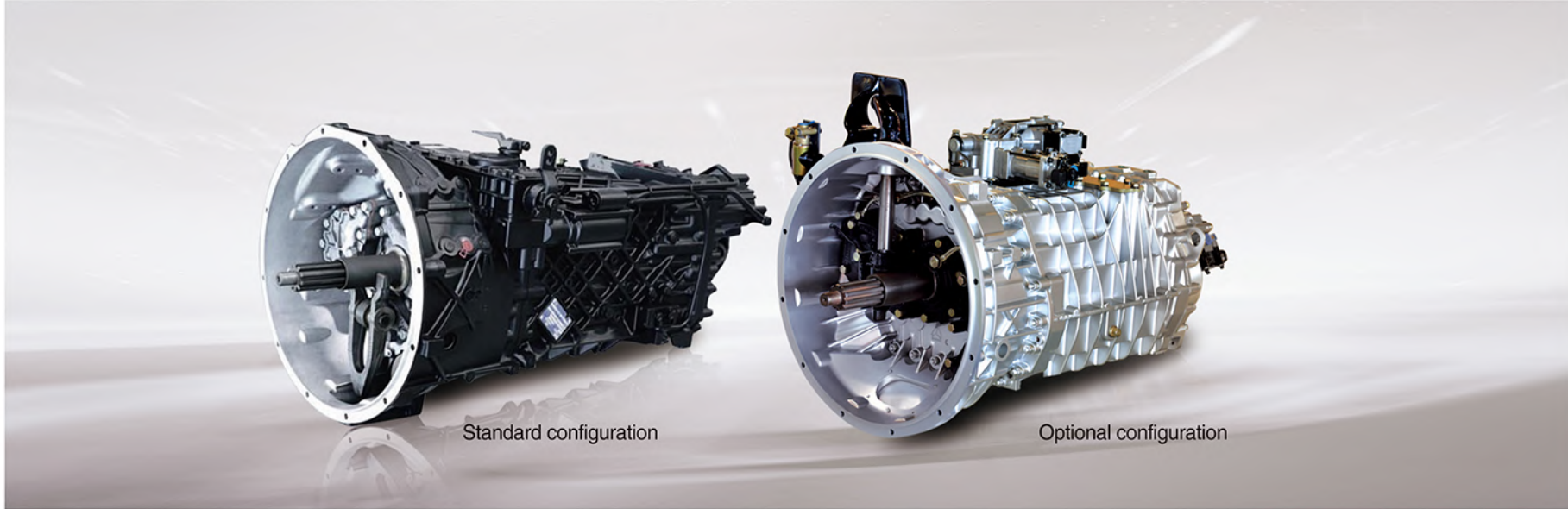
Both the main bearing cap of the crankshaft and the big end of the con-rod adopt world advanced cracking technology, they use rough cracking surface to form a junction surface of "tight matching", which creates extremely high lateral supporting effect and guarantees the precise strong positioning. This technology remarkably improves the carrying capacity and reduces the wear of the bearing.

100 000 km

The engine adopts common rail system, the electronic control unit (ECU) precisely control the fuel injection process according to the running status of the engine, the maximum injection pressure can reach 1600bar, which makes the atomization effect of the fuel injection better, the engine more powerful and the fuel consumption much lower. High outbreak and combustion pressure reduce the soot content of the engine oil, and the oil change interval can reach 100,000km.

TRANSMISSION

ENJOY THE SMOOTH OPERATION OF TRANSMISSION
AS MUCH AS YOU LIKE



SINOTRUK HW series transmission integrates global advanced technologies with outstanding performance. Torque coverage 850Nm-2500Nm, As far now, more than 1 million units have been put on domestic and overseas markets.

The main product adopts the structure of double countershaft in main box and planetary gear in auxiliary box, which has high load bearing capacity, stable performance and good fuel economy.

The gearbox also provides aluminum alloy housing, overspeed gear, synchronizer, AMT and other optional equipment to meet the needs of different customer groups.

The gearbox innovatively adopts a shift assisting structure, which greatly improves the portability of shifting.

Gears No.	Model	Max. Torque (Nm)	1st gear ratio	Corresponding overspeed gearbox (C)			Remarks
				Max. Torque (Nm)	1st gear ratio	Overspeed ratio	
12	HW25712XAL	2500	15.628	2500	12.960	0.833	AMT
	HW25712XSTL	2500	14.941	2500	11.697	0.783	Full synchronizer
16	HW25716XSTL	2500	15.628	2500	12.96	0.833	

DRIVE AXLE

ORIGINATED FROM GERMANY AND
MADE IN CHINA

Derived from European technology, and all axles are self-made by SINOTRUK. Standard-equipped with Oerlikon gear for main reduction, drum-type or disc-type brakes and multiple tonnage and configuration are optional to meet different working conditions.

MCY series single-reduction drive axle

Axle housing: stamping and welding high-tensile materials featured with light weight and strong carrying capacity.

Wheel hub: adopt wheel bearing unit, which is easy to assemble and is with long service life.

MCY16ZG/MCY17ZG: adopt casting axle housing and MCP 16 wheel.

MCP series double-reduction drive axle

Axle housing: casting high-tensile materials with its spindle head in terms of one-piece press fitting, of which the structure is reliable.

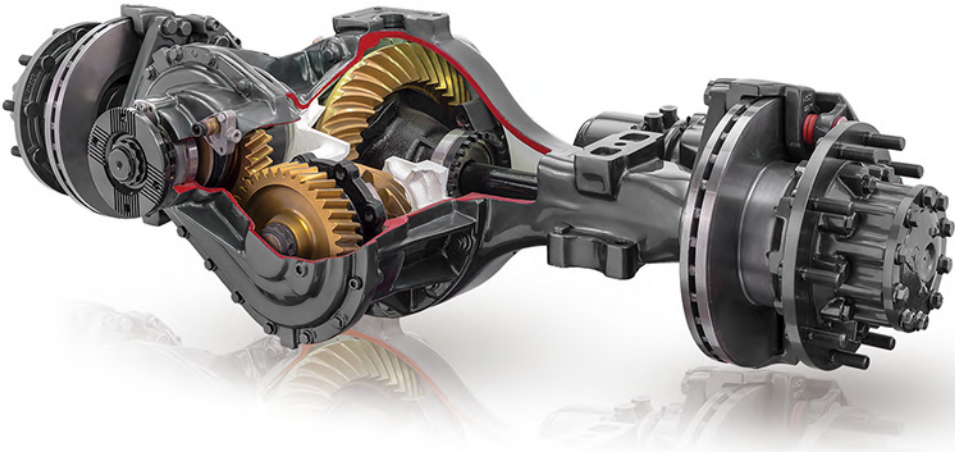
Wheel hub: hub bearing has reasonable load distribution, long service life and is highly reliable.

Full coverage of tonnage and specifications

MCY11、MCY12、MCY13、MCY16/MCP16/MAT16、MCY17、MCP23 can meet different axle load ranging from 11 ton to 23 ton.

Higher attendance rate longer oil change interval

With machine oil filter inside the drive axle, the oil change interval could be as long as 100 thousand kilometers under highway condition.



Type	Model	Rated load(T)	Ratio option	Braking type
Single reduction	MCY13	13	2.85/3.08/3.36/3.7/4.11/4.63/5.29	Drum, air brake
Double reduction	MAT16	16	3.93/4.42/4.8/5.73/6.304/6.72	
	MCP16	16	4.2/4.77/5.26/5.92/6.73	

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HOWO T7H SERIES

HOWO T7H TRACTOR



HOWO T7H 6x4 Tractor

Model		ZZ4257V324HE1B		ZZ4257W324HE1B
Driving Type		6x4		
Version		Single Reduction	Double Reduction	
Dead Weight	(kg)	9900	10300	
Rated load Capacity	(kg)	38900	38500	
Dimensions	LxWxH (mm)	7315x2496x3900	7400x2496x3950	7315x2496x3940
Wheel base	(mm)	3400+1400		3200
Cabin		T7H-G High roof with 2 bunk, 4-point suspension		
Engine	Model	MC11.44-50		
	Max.Torque(Nm/rpm)	2100/1000-1400		
	Horse Power (hp)	440		
	Displacement (L)	10.518		
Transmission	Model	HW25712XSTL (C)		HW25712XAC (AMT)
	Gear Position	12F, 2R, aluminum case with synchronizer.		
Front Axle	Model	HF VGD 71, HF VGD 95		
	Rated load (T)	7.1, 9.5		
Rear Axle	Model	MCY13	MAT16 / MCP16	MCP16
	Rated load (T)	13	16	16
	Ratios	4.11	4.8 (5.26; 4.77; 4.42)	5.26 (4.77, 4.2)
Suspension	Parameter	3/5 (F/R)	3/12 (F/R)	9/12 (F/R)
Fuel Tank Capacity	L	600 (option: 860L+240L)		600L
Tires	Model	12R22.5	12.00R20	



6x4 tractor



6x4 tractor