

Wheel loader

CG990H

Operating weight	31500-32000kg
Load capacity	9000kg
Rated Capacity	4.5-6.3 m ³
Max. Traction Force	260kn
Breakout Force	260kn
Working cycle time	12s
Max. dumping height	3313mm
Max. dumping reach	1317mm
Max. gradeability	25°
Wheel base	3600mm
Wheel track	3250mm
Min. turning radius	6882mm
Max speed (forwards)	32km/h
Length	9459mm
Width	3579mm
Height	3821mm
Engine	Cummins QSM11
Rated power of engine	250kw

Note:

1. Working cycle time equals the sum of the raising time taken by the swing arm, the descending time of the swing arm, and the rolling time of the bucket.
2. We reserve the right to make changes to the configuration and specification of our products without prior notice due to the continuous technical improvements of CG construction machines.

1. **CG990H (CE) Top Classwheel Loader** is in conformity with Euro CE standards.
2. This bucket loader is power by a Cummins QSM11 engine and meets European Emission Stage III/EPA Tier III standards.
3. Its original ZF 4WG 310 transmission makes it easy to operate and gives it better efficiency.
4. It has a world-class pilot control, emergency steering function and electronic rear review function.
5. Its ROPS/FOPS cab is spacious and has an operation box fixed to the seat.
6. The electronically controlled engine cover of this Top Classwheel Loader is able to open backwards for easy maintenance activities.
7. It has installment boxes and centered grease nipples.
8. This Top Classwheel Loader has an automatic electronic monitoring system and alarm.

Outstanding Performance

1. The hinge joint is located in the center of the wheelbase. The wheel loader has a minimum turning radius. The dumping load is more than 19 tons.
2. Cummins QSM11 engine
 - Cummins QSM11 engine meets European Emission Stage III/EPA Tier III standards.
 - It is powerful, supercharged, electronically controlled and has air to air intercooling.
 - The power is 250kW/2100.
 - The maximum torque is 1674N.m/1400r.
 - The lowest start temperature is -12°C.
3. This Top Class wheel loader is equipped with an imported ZF automatic transmission from Germany. It provides easy operation and high working efficiency.
4. Drive axle
 - Wet brake: in an enclosed structure, with the brake piece immersed in the oil. Wet brake works undisturbed by the external conditions. It produces no sparks and therefore has wider applications. The stopcock is repositioned by a spring to avoid getting stuck.
 - Limited Slip Differential: allows some difference in angular velocity of the output shafts, but imposes a mechanical bound on the disparity. It improves the overall driving force and enhances the dynamic performance of our CG990H (CE) Top Class wheel loader.
 - Positive cooling front and rear axles. When the oil temperature of the axle reaches 70°C, the cooling system starts to work.

Comfortable Driving Conditions

1. CG990H (CE) Top Class wheel loader has a large, comfortable ROPS, FOPS cab, which is equipped with useful accessories.
 - The angle of the steering wheel is adjustable.
 - The seat and operation devices can be adjusted at any direction.
 - The operation box is designed to be connected to the seats. This design is nationally patented.
 - Single joystick control

Simple Maintenance

1. Engine cover
The engine cover is electronically controlled and opens backwards. This facilitates easy maintenance.
2. Radiator
The radiator could be opened for daily maintenance of its core. This will help

maintain the heat dissipation efficiency of the radiator and the overall performance of the wheel loader.

Other Safety and Convenient Configurations

1. This Top Class wheel loader comes with a pilot locking device, which works to avoid false operation.
2. Emergency steering system
3. Electronic rear-view system
4. This wheel loader has a level -3 alarm system and an electronic monitoring device.

ITEM	CG938H	CG948H	CG958H	CG990H
Operating weight	12500kg/	13200KG / 29101LB	17700kg / 39021lb	31500-32000kg / 69300-70400LB
Bucket Capacity	2.1 m ³	2.3m ³ / 3yd	3-4.7yd / 2.5-3.6 m ³	5.9-8.9yd / 4.5-6.8m ³
Rated Load capacity	3800kg	4000kg / 8818.5lb	5000kg / 11023.1lb	9000kg / 19800lb
Breakout Force	119KN	133kn / 29.925kip	180kn / 40.5kip	260kn / 58.6KIP
Fuel Tank Capacity		180l / 39.6gal	250L / 55GAL	420L / 110.95GAL
Grade Ability	30°	30°	30°	30°
Max. dumping height	2949±50mm	2837+-50mm / 9'3"+-1.9"	3196mm+-50mm / 10'5"+-1.9"	3313mm+-50MM / 10'9"+-1.9"
Dump Clearance @ Max. Lift	923±50mm	960+-50mm / 3'1"+-1.9"	1039mm+-50MM / 3'4"+-1.9"	1317mm+-50MM / 4'5"+-1.9"
Max. Forward Speed	34km/h 21mhp	37km/h 23mhp	36KM/H 22.4MPH	32KM/H 19.9MPH
Hydraulic Oil Capacity		100l / 22gal	110L / 24GAL	260L / 68.6GAL
Max. Traction Force	110KN		180kn	260kn
Working cycle time	9.6S	10.4S	11.8s	12s
Wheelbase	2900±30mm		3360mm	3600mm
Wheel track			2745mm	3250mm
Min. turning radius	5200	5695	6400mm	6882mm
Length	7330mm	7400mm	8180mm	9459mm
Width	2470mm	2800mm	3000mm	3579mm
Height	3300mm	3485mm	34540mm	3821mm
Engine Model	Cummins QSB6.7	Cummins QSB6.7	Cummins QSB6.7	Cummins QSM11

Type	Line Engine, Water Cool,Dry Type Cylinder jacket, Direct Injection	Line Engine, Water Cool,Dry Type Cylinder jacket, Direct Injection	Line Engine, Water Cool,Dry Type Cylinder jacket, Direct Injection	Line engine, Turbo-charged, Electric control, Air to air aftercooler
Displacement		6.7L / 408.8IN ³	6.7L / 408.9IN ³	10.8L / 659IN ³
Peak Torque		732N.M	949N.M	1674N.M
Rated Power	116KW / 158HP	119KW / 159.6HP	164KW / 219.9HP	250kw / 335.2HP
Rated Revolution	2200R/MIN	2200R/MIN	2200R/MIN	2100R/MIN
Steering System				
Type		Full Hydraulic Steering system with pressure load-sensing	Full Hydraulic Steering system with pressure load-sensing	Full hydraulic amplification hinge joint steering
Turning Angle		35° each Side	35° each Side	38° each Side
Min. Turning Radius	5200MM	Bucket outboard 6600mm / 21'6" Rear Tire outboard 5800mm / 19'	Bucket outboard 7350mm / 24'1" Rear Tire outboard 6700mm / 21'10"	Bucket outboard 7695mm / 25'2" Rear Tire outboard 6882mm / 22'6"
Transmission				
Torque Converter Type		Three element, Single Turbine	Three element, Single Turbine	Three element, Single Turbine
Transmission Model	ZF 4WG 158, German original	ZF Electric-hydraulic control shift gearbox	ZF 4WG 200, Electric-hydraulic control shift gearbox	ZF 4WG 310, Fixed axis type, Automatic shifting
Gears		Four forward speed and three backward speed	Four forward speed and three backward speed	Four forward speed and three backward speed
Hydraulic Working System				
Working System Pressure	19MPA	21MPA	17.5MPA	22.5MPA
Lifting Time of Working Device		<=5.5S	<=6.5S	<=7.1S
Action Time of Implement	<=9.6S	<=11.6S	<=12.5S	<=12S
Front and Rear Axle				
Main transmission Type		First level spiral gear deceleration	First level spiral gear deceleration	Cone-shaped gear
Wheel side Braking Type		Planetary Reducer	Planetary Reducer	Planetary Reducer
Drive Axle	Wet type brake	Wet type brake	Wet type brake	Wet disc type brake

Braking Type				
Tire				
Specification	20.5-25-20PR	20.5-25-16PR	23.5-25-16PR	29.5-25-28PR
Front Tire				
Pressure		0.3MPA	0.3MPA	0.4MPA
Rear Tire				
Pressure		0.3MPA	0.3MPA	0.38MPA
Braking System				
Braking	Full hydraulic	Full hydraulic	Full hydraulic	Wet disc type brake
Parking Brake	Spring braking oil release	Spring braking oil release	Spring braking oil release	SAHR Caliper type brake