

# **RHOCT**

Dump Truck catalog



# **YUNLIHONG-RHOCT**

Shiyan Yunlihong Industrial & Trade Co., Ltd.

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## 4x2 Dump Truck



**R42GV13E3D3.9**

Volume capacity	4 - 6.5cbm
Loading capacity	6000 kg
Engine	Cummins B140-33
Gearbox	6 speed
Front axle capacity	6000 kg
Rear axle capacity	9600 kg
Fuel tank	170 L
Tire	9.00R20



**R42GV15E3D5.9**

**R42GV20E3D8.3**

Volume capacity	8 - 13.5cbm	8 - 16cbm
Loading capacity	10000 kg	15000 kg
Engine	Cummins 5.9L 170-210hp	Cummins 8.3L 260hp
Gearbox	8 speed	9 speed
Front axle capacity	6000 kg	8400 kg
Rear axle capacity	12000 kg	15600 kg
Fuel tank	200 L	280 L
Tire	10.00R20	11.00R20



## 6x2 Dump Truck



**C62FGV27E3D8.3**

Volume capacity	10 - 18cbm
Loading capacity	20000 kg
Engine	Cummins 8.3L 260hp
Gearbox	9 speed
Front axle capacity	8400 kg x 2
Rear axle capacity	15600 kg
Fuel tank	280 L
Tire	11.00R20



**C62MGV25E3D8.3**

**C62RGV25E3D8.3**

Volume capacity	10 - 18cbm	10 - 18cbm
Loading capacity	20000 kg	20000 kg
Engine	Cummins 8.3L 260hp	Cummins 8.3L 245-300hp
Gearbox	9 speed	9 speed
Front axle capacity	8400 kg	8400 kg
Drop axle capacity	5000 kg ( Middle pusher axle )	5000 kg ( Rear tag axles )
Rear axle capacity	15600 kg	15600 kg
Fuel tank	280 L	280 L
Tire	12.00R20	12.00R20





## 6x4 Dump Truck



**C64GV25E3D8.3**

**C64GV25E3D8.9**

	<b>C64GV25E3D8.3</b>	<b>C64GV25E3D8.9</b>
Volume capacity	15 - 22cbm	15 - 22cbm
Loading capacity	20000 kg	20000 kg
Engine	Cummins 8.3L 260hp	Cummins 8.9L 315-375hp
Gearbox	9 speed	12 speed
Front axle capacity	6000 kg	6000 kg
Rear axle capacity	12000 kg x 2	12000 kg x 2
Fuel tank	350 L	350 L
Tire	12.00R20	12.00R20



**C64GV33E3D8.9**

**C64GV41E3D8.9**

**C64GV41E3D13**

	<b>C64GV33E3D8.9</b>	<b>C64GV41E3D8.9</b>	<b>C64GV41E3D13</b>
Volume capacity	15 - 23cbm	15 - 23cbm	15 - 23cbm
Loading capacity	25000 kg	35000 kg	35000 kg
Engine	Cummins 8.9L 315-375hp	Cummins 8.9L 315-375hp	Cummins 13L 460-560hp
Gearbox	10 speed	12 speed	12 speed
Front axle capacity	8400 kg	11000 kg	11000 kg
Rear axle capacity	32000 kg	38400 kg	38400 kg
Fuel tank	350 L	350 L	350 L
Tire	12.00R20	12.00R20	12.00R20



## 8x4 Dump Truck



**C84FGV50E3D8.9**

**C84FGV50E3D13**

**C84FGV60E3D13**

	<b>C84FGV50E3D8.9</b>	<b>C84FGV50E3D13</b>	<b>C84FGV60E3D13</b>
Volume capacity	16 - 32cbm	16 - 32cbm	16 - 32cbm
Loading capacity	50000 kg	50000 kg	60000 kg
Engine	Cummins 8.9L 315-375hp	Cummins 13L 460-560hp	Cummins 13L 460-560hp
Gearbox	12 speed	12 speed	12 speed
Front axle capacity	22000 kg	22000 kg	28000 kg
Rear axle capacity	38400 kg	38400 kg	48000 kg
Fuel tank	400 L	400 L	400 L
Tire	13.00R22.5	13.00R22.5	13.00R22.5



**C84MGV50E3D8.9**

**C84MGV50E3D13**

**C84MGV66E3D13**

	<b>C84MGV50E3D8.9</b>	<b>C84MGV50E3D13</b>	<b>C84MGV66E3D13</b>
Volume capacity	17 - 32cbm	17 - 32cbm	17 - 32cbm
Loading capacity	50000 kg	50000 kg	60000 kg
Engine	Cummins 8.9L 315-375hp	Cummins 13L 460-560hp	Cummins 13L 460-560hp
Gearbox	12 speed	12 speed	12 speed
Front axle capacity	11000 kg	11000 kg	16000 kg
Middle drop axle capacity	9000 kg	9000 kg	9000 kg
Rear axle capacity	38400 kg	38400 kg	48000 kg
Fuel tank	400 L	400 L	400 L
Tire	13.00R22.5	13.00R22.5	13.00R22.5



## 10x4 Dump Truck & 6x6 Dump Truck



**CX4MGV59E3D13**

**CX4MGV79E3D13**

Volume capacity	30 - 36cbm	30 - 36cbm
Loading capacity	60000 kg	70000 kg
Engine	Cummins 13L 460-560hp	Cummins 13L 460-560hp
Gearbox	12 speed	12 speed
Front axle capacity	22000 kg	28000 kg
Drop axle capacity	9000 kg	9000 kg
Rear axle capacity	38400 kg	48000 kg
Fuel tank	400 L	400 L
Tire	13.00R22.5	13.00R22.5





## 4x4 Dump Truck



**O44GV13E3D3.9**

**O44GV15E3D5.9**

Volume capacity	8-13.5cbm	8-16cbm
Loading capacity	8000 kg	10000 kg
Engine	Cummins 3.9L 140hp	Cummins 5.9L 170-210hp
Gearbox	6 speed	8 speed
Front axle capacity	6000 kg	6000 kg
Rear axle capacity	9600 kg	12000 kg
Fuel tank	200 L	200 L
Tire	12.00R20 off-road tire	12.00R20 off-road tire



**O44GV15E3D8.3**

**O44GV20E3D8.3**

**O66GV20E3D8.9**

Volume capacity	15 - 23cbm	15 - 23cbm	15 - 23cbm
Loading capacity	10000 kg	15000 kg	30000 kg
Engine	Cummins 8.3L 260hp	Cummins 8.3L 260hp	Cummins 8.9L 315-375hp
Gearbox	9 speed	9 speed	9 speed
Front axle capacity	6000 kg	8400 kg	8400 kg
Rear axle capacity	12000 kg	15600 kg	15600 kg
Fuel tank	280 L	280 L	350 L
Tire	12.00R20 off-road tire	12.00R20 off-road tire	12.00R20 off-road tire





## 6x6 Dump Truck & 8x8 Dump Truck



**O66GV25E3D8.3**

**O66GV41E3D8.9**

**O66GV41E3D13**

Volume capacity	15 - 23cbm	15 - 23cbm	15 - 23cbm
Loading capacity	20000 kg	35000 kg	35000 kg
Engine	Cummins 8.3L 260hp	Cummins 8.9L 315-375hp	Cummins 13L 460-560hp
Gearbox	9 speed	12 speed	12 speed
Front axle capacity	6000 kg	11000 kg	11000 kg
Rear axle capacity	24000 kg	38400 kg	38400 kg
Fuel tank	400 L	400 L	400 L
Tire	14.00R20 off-road tire	415/80R22 off-road tire	415/80R22 off-road tire



**O88GV50E3D8.9**

**O88GV50E3D13**

Volume capacity	16 - 30cbm	16 - 30cbm
Loading capacity	45000 kg	45000 kg
Engine	Cummins 8.9L 315-375hp	Cummins 13L 460-460hp
Gearbox	9 speed	12 speed
Front axle capacity	22000 kg	22000 kg
Rear axle capacity	38400 kg	38400 kg
Fuel tank	400 L	400 L
Tire	14.00R20 off-road tire	415/80R22 off-road tire



## RHOCT SPECIFIC TECHNOLOGY

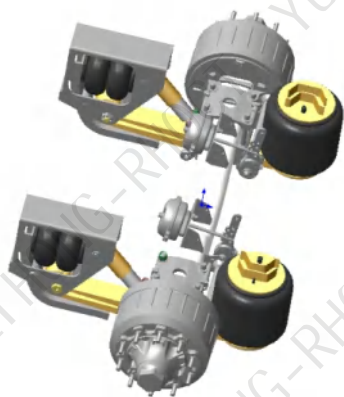
### 9 TONS DROP AXLE WITH AIR SUSPENSION

The current standard drop axle in China is a 5-ton load and can only be equipped with two tires. The matching suspension is a leaf-spring less strut suspension with a mid-mounted single lift airbag. This is designed for the Chinese market and therefore does not offer excellent load and heavy-duty ride comfort.

To meet the needs of our customers in the Americas, we have developed a targeted drop axle with 4 tires and a standard load of 9 tons with a 20% overload capacity.

The matching suspension design uses two independent groups of 4 airbags. The two groups of airbags are independently supplied with air, the vertical airbag is used for the damping function of the drop axle and the horizontal airbag is used for the lifting and lowering of the drop axle. It is also available to increase the number of lift airbags to three. This group of drop axle with suspension can be arranged with equal wheelbase to the drive axle.

At the same time, we designed a new independent air supply line with pressure gauge for this suspension, and the two air lines operate independently. In order to perfectly fit this complex system to the frame, we also re-optimized the frame's piping layout.



### MULTI-LINK SUSPENSION WITH COIL SPRING

This multi-link with coil spring structure fulfills 3 needs.

First, it can improve the ground clearance and the distance between the floor and the axle, so the vehicle can be matched with very large tires, and we have currently installed oversized desert tires with a diameter of over 1700mm.

Secondly, it can meet the stability of the diving stance of the vehicle within 100km/h, which means it has very excellent damping effect.

At the same time, this suspension allows for very large tire travel compared to traditional leaf spring suspension, which is very good for extrication and climbing.

The suspension is also strong enough because it is matched with a 9-ton front drive axle and a 16-ton rear drive axle.

Moreover, this set of suspensions is an independently mountable suspension, so you can match any number of axles to each suspension individually as required.

It has high compatibility and design extensibility.



### 13 TONS FRONT STEERING AXLE

This is an axle based on the axle design of special operating equipment conforming to truck use.

The standard Chinese truck front steering axle load capacity is 7 tons, while the standard load capacity of this newly designed front steering axle is 13 tons. This greatly increases the load capacity of the vehicle.

Based on our unique technology of having a triple front steering axle, we have increased the maximum load capacity of the vehicle by 25 tons.

This is ideal for jobs that require a high load capacity in an environment that is influenced by transport operations with strict restrictions on vehicle length. And such harsh operating environments are common.



### 12x12 SPECIAL WORKING VEHICLE CHASSIS

Based on our unique technology of front triple steering axle and diverse suspension design, we have designed 12x6 and 12x12 special work truck chassis.

The chassis load of 12x6 is 80 tons and the chassis load of 12x12 is 70 tons. The wheelbase of the vehicle is 9700mm and the overall length is 12400mm.

It adopts 13L cummins engine, including 460hp, 480hp, 520hp and 560hp four power options, matched with 12-speed Fast transmission or 14-speed volvo transmission.

We have solved the most difficult problems of the vehicle design: the long wheelbase leads to tire grinding during driving, especially when turning, and the torsional resistance of the frame when driving on uneven roads.



Drive type	Wheelbase (mm)	Container size (mm)	Overall size (mm)
4x2	3650	4300×2350×800	6875×2550×3070
	3800	4500×2350×800	7075×2550×3070
		4750×2350×800	7375×2550×3070
	4200	5000×2350×800	7625×2550×3070
		5200×2350×800	7825×2550×3070
	4500	5400×2350×800	8025×2550×3070
	4700	5700×2350×800	8325×2550×3070
		5700×2350×800	8000×2550×3070
6x2	1800+2800	4500×2350×1500	7375×2550×3080
		4800×2350×1500	7500×2550×3080
		5000×2350×1500	7725×2550×3080
	1800+3500	5500×2350×1500	8425×2550×3080
	1850+4000	6500×2350×1500	9425×2550×3250
6x4	3800+1350	5400×2350×1500	8250×2550×3450
		5600×2350×1500	8450×2550×3450
	4050+1350	5800×2350×1500	8550×2550×3450
		6000×2350×1500	8750×2550×3450
	4250+1350	6200×2350×1500	8950×2550×3450
		6400×2350×1500	9150×2550×3450
8x4	1850+2800+1350	6000×2350×1500	9000×2550×3160
		6200×2350×1500	9200×2550×3160
	1850+3100+1350	6500×2350×1500	9480×2550×3160
		6800×2350×1500	9780×2550×3160
	1850+3200+1350	6500×2350×1500	9250×2550×3450
		6800×2350×1500	9550×2550×3450
		7000×2350×1500	9750×2550×3450
	1850+3400+1350	7200×2350×1500	9950×2550×3450
		7400×2350×1500	10150×2550×3450
	1850+3800+1350	7300×2350×1500	10050×2550×3450
		7600×2350×1500	10350×2550×3450
		7800×2350×1500	10550×2550×3450
	1850+4200+1350	7800×2350×1500	10750×2550×3450
		8000×2350×1500	10750×2550×3450
	1850+4600+1350	8200×2350×1500	10950×2550×3450
		8600×2350×1500	11550×2550×3450
10x4	1850+4600+1350++1350	8200×2350×1500	11150×2550×3450
		8600×2350×1500	11550×2550×3450
		9000×2350×1500	11950×2550×3450

## Dump Truck Tipper Body series



### ▲ Tipper Standard Body :

Suitable for heavy duty construction and mineral transportation.



### ▲ Tipper Tailgate Tilting U-Shaped Body:

Lightweight structure, tailgate tilting, fast and thorough unloading, suitable for general construction and mineral transportation.



### ▲ Tipper Off-road Body:

Suitable for construction and mineral transportation in harsh environments.



### ▲ Tipper Standard U-Shaped Body:

Lightweight structure with electric retractable canopy, fast and thorough unloading, avoid material damage, external adverse factors and dust dispersion, suitable for general construction transportation.



### ▲ Tipper Hydraulic Closed Cargo Body:

Lightweight structure with Hydraulic top cover, for transportation of waste materials, non-solid & dust construction materials, to avoid pollution and dust dispersion during transportation.

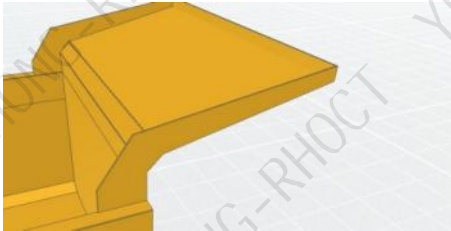


## RHOCT Dump Truck Box Body



There are still many backward areas in China that are either wet or cold that are struggling to develop. The natural environment in these areas is harsh and the roads are mostly frozen or muddy dirt roads, which makes the construction of construction trucks very troublesome. We have designed off-road vehicles and dump truck cargo boxes with unique performance for this purpose.

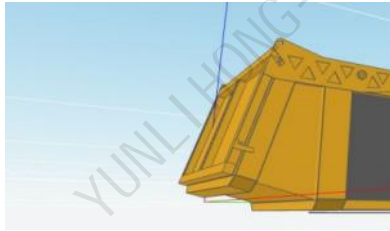
RHOCT's unique cargo box designed for efficient dump trucks in off-road environments increases the efficiency of industrial transport by 20%. The main cargo box dimensions are 5400x2350x1500mm in size, with a total volume of 19m<sup>3</sup>. The rear of the cargo box is upturned to provide an additional volume of over 2m<sup>3</sup>, for a total volume of over 21m<sup>3</sup>.



### Wide cargo box front

The front of the cargo box has a hat-like design, which ensures that cargo will not fall over the cab or into a gap due to inertia or operator error, causing damage to personnel or the vehicle's powertrain.

At the same time, the slightly upward angle of the front makes the cargo also have a larger cushioning amount and resistance when the vehicle brakes sharply.



### Upturned Rear End Design

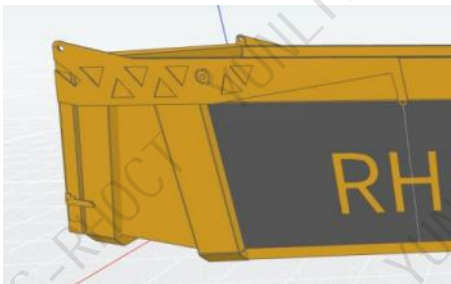
The upturned rear design serves three purposes:

1. to reduce the longitudinal inertial impact of cargo during transportation due to acceleration and deceleration.
2. to increase the departure angle and improve the vehicle's passability.
3. to prevent the vehicle from losing control due to rapid dumping.



### Side climbing ladder

The side climbing ladder can facilitate the construction personnel to enter the box quickly for related operations.



### Unique backdoor structure

The unique rear door structure design makes the rear door and the vehicle automatically form an angle when the cargo box is raised, which greatly improves the safety and unloading speed. After unloading, the rear door can be automatically locked by lowering the cargo box to its original position. During the entire unloading process, the operator does not need to get off the car to perform any operations.



### Cargo box heating and anti-blocking

The lower part of the flat cargo box is designed with a special pipeline channel, which can install a cargo box heating device for cold areas to prevent the cargo and the cargo box from sticking due to icing. At the same time, a cargo box vibrator can be installed to clean up the stuck goods in the cargo box with high-frequency vibration.



### Unique design of the whole vehicle

The chassis can be fitted with 14.00R20 or 16.00R20 tires. This allows the vehicle to have considerable ground clearance, and the center of gravity is lower than that of conventional dump trucks. The large tires can also ensure that the vehicle is not easily trapped when driving in frozen soil or mud.

**YUNLIHONG**



**Shiyan Yunlihong Industrial & Trade Co., Ltd.**

Add: No.36, Jingtan Road, Shiyan City, Hubei Province, China

Tel: +86-719-8627045

Fax: +86-719-8518145