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DUMP TRUCK



Q U A L I T Y C H A N G E S T H E W O R L D

SANY INTRODUCTION

SANY was founded in 1989;

Group assets: **\$28** billion;

Construction machinery manufacturing rank;

CHINA **NO.1** and WORLD **NO.2**;

3 Listed companies in the group;

10,146 international authorized patents, **13,140** patent applications, and **219** breakthrough key technologies;

More than **54000** employees all around the world.

DUMP TRUCK OF SANY ENGINEERING VEHICLE INSTITUTE

Sany started the international tipper business in 2018, and the international sales volume reached 1,868 units in 2022, which is the fastest growth rate in the industry.

SANY HONOR



WORLDWIDE TOP SUPPLIERS

Set high requirements on suppliers and expect to provide high quality products and services.



THE RIGHT TRUCK FOR THE RIGHT APPLICATION

For different scenarios such as urban construction and mining, we provide a wide variety of configurations to perfectly match our customers' various requirements.

Engine: 340-490hp, Euro2/3/5
Transmission: 10/12 gears, MT/AMT
Rear axle: i= 4.77/5.26/5.92/6.73
Main frame:316×90 ×(8+8) / (8+8+4)
Suspension Front: 11/13 tons
Suspension Rear:22/26 tons
Body:City/Mine; U/Rectangle;
GVW: 55~78tons



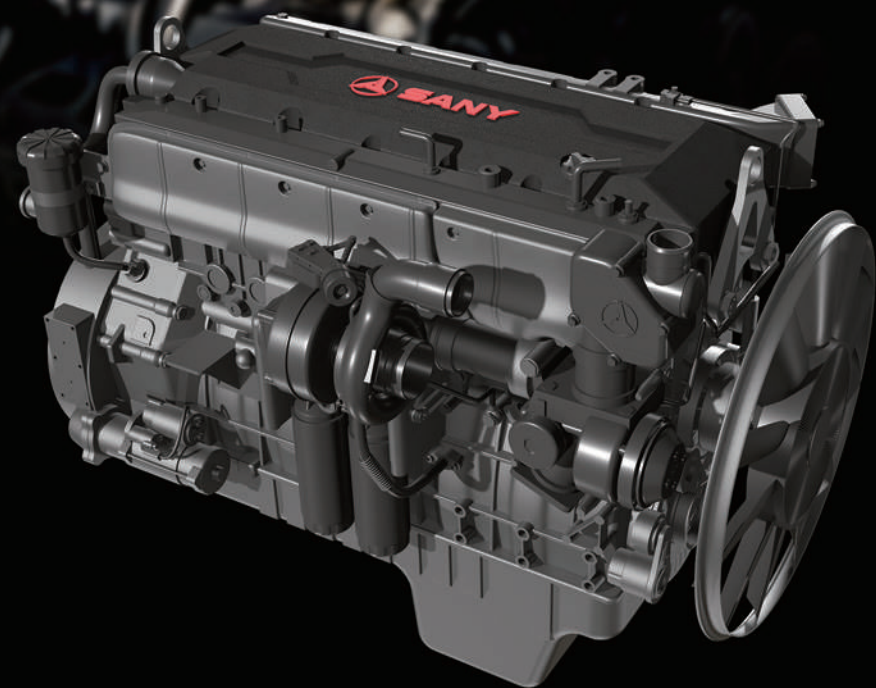
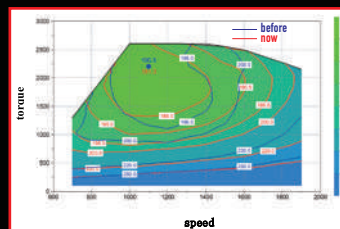
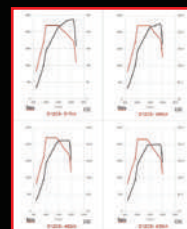
FOCUS ON CUSTOMER PROFITABILITY

INCOME EXTRA 10%

- Horse power range covers **380~490HP** , maximum torque **2200N·m** , strong climb ability, travel fast ,more economical ;
- Power upgrade, great unstuck capability and gradeability, overloading without worries;
- Simulation calculation and road spectrum acquisition improves vehicle performance.

COST SAVINGS UP TO 10%

- **Double vortex combustion chamber**: reduce fuel consumption;
- **Optimized CAM axis**: the camshaft profile design with intake valve closing early and exhaust valve opening early achieve the trade-off between optimal fuel consumption and emission;
- **Economic zone speed**: expand **400** to save fuel ;
- **Active breathing system, oil and gas separator**: free of maintenance ;
- **High transmission efficiency**: optimal matching, to ensure that the actual conditions of the customer vehicle commonly used speed in the economic range.



ROBUST DESIGN

Sany takes into full consideration of the possible tough work condition in harsh environment of the dump trucks, assures the reliability of the product through rigorous testing, super load bearing capacity design, and keeps the vehicle in good working state at all times.

TOUGH ROAD TEST

- **15,000KM** strict full load test on intensive road at SANY vehicle testing site.
- Over **3000km** cold area test and over **10,000km** extremely tough test in Baokang dump truck test site with full load.

HIGH STRENGTH SUSPENSION SYSTEM

- **316mm** height and 8mm+8mm thickness chassis frame, stronger than competitors;
- 9 tons front axle (capacity **12T**) + **2×16T** rear axle (capacity **2×22T**), reliable carrying capacity ;
- 10 leaf springs front suspesion system and **12** leaf springs rear suspension system. GVW ranges from **55** tonnes to **78** tonnes. Increase payload with **20%**.

COMPREHENSIVE PROTECTION SYSTEM

- Equipped with radiator protection, oil pan protection plate, headlight and taillight shield.

TRANSMISSION TORQUE REDUNDANCY (20% UP) TO IMPROVE ANTI-ROUGHNESS



COLD REGION TEST



ROUGH ROAD



HEAVY-LOAD UP&DOWN HILL



WADING TEST



SPRAY WATER RESISTANCE TEST



OUTSTANDING CROSSING ABILITY

OFFROAD WORKING OPTIMIZATION, STRONGER TRAFFICABILITY PERFORMANCE

- Approach angle $\geq 26^\circ$, departure angle $\geq 34^\circ$, minimum ground clearance $\geq 300\text{mm}$, chassis core components such as fuel tank, air storage, air filter height $\geq 550\text{mm}$, radiator $\geq 650\text{mm}$.
- Optional **12.00 R24** tires, higher ground clearance, better passability.
- Well protection of chassis components assures the safety under off road working condition, smaller turning radius, ensures crossing in small space.

UNSTUCK CAPABILITY FOR COMPLICATED GROUND

- Standard with wheel differential lock, axial differential lock, Hub-reduction driving axle;
- Optional: Acceleration Slip Regulation (**ASR**) system, improve the drive performance of slippery road conditions.



COMFORTABLE DRIVING

Through ergonomic optimization design, it is convenient for the driver to operate.

- Multifunctional steering wheel
- Cruise (above Euro III)-optional
- LCD screen -optional
- Electric window lifts
- Electric rearview mirror -optional
- Air suspension seat
- Sleeper and storage space
- Air conditioning/independent heater(optional for cold area)
- Pneumatic Gear Shift Assistance



SAFETY FIRST

Efficient braking system and safety assistance, to ensure the safe operation of drivers and vehicles.

RELIABLE BRAKING SYSTEM

- Rated pressure **12bar**;
- **KNORR** parts;
- Match **engine braking** technology for Euro 3 and above models;
- **Bimetal** brake drum.

DRIVING SAFETY

- No dead Angle view mirror, optional **360°** view
- Standard with **ABS**
- Optional **ASR**
- Optional **LDWS/FCWS**
- Optional **TPS/BAWS**



RELIABLE AND DURABLE SUPERSTRUCTURE

Chassis mounted integration, a variety of container specifications, suitable for different working conditions.

- City construction and mining applications
- A wide selection of materials and thicknesses
- Special superstructure for large stones
- U shape/rectangle
- Four flip/six flip lift is stable and reliable
- Straight tail door/diagonal tail door
- Long life: high strength materials/robot welding/powder spraying technology



MALAYSIA

STRONG POWER AND FAST CLIMBING SPEED

435 horsepower, great climbing ability in highway and construction application. It offers extra trips daily for more profit.

ROBUST AND DERABLE DESIGN

9T front axle, 16T rear axle and 8+8 frame combination provides strong fundation for an urban dump truck.

STRONG CARGO BODY WITH LIGHTWEIGHT DESIGN

With SANY innovation, the cargo is build with strong steel with lighter weight, which offers extra load capacity.



Malaysia			
type			SYZ311C-6S Sany Deutz Engine
			ZZX200000475
Vehicle parameters	Dimension (LxWxH)mm		9000×2540×3250
	Wheel base mm		4600+1400
	Curb Weight		15t
	Full Load Weight		50-55t
	Economic speed range		40-80
	Rated maximum speed (1900rpm)		90
	Permissible maximum speed (2200rpm)		110
cargo	11m³(6000*2300*760mm)		●
	Rectangular		●
	U-Type		○
Cab	Model		318 Standard Roof
	Other configuration		Single sleeper, wraparound instrument table, air conditioner, radio (with Bluetooth, USB and SD card interface, can connect with mobile phone to make calls, play music), sun visor, 2kg fire extinguisher, three steps
Chassis Parameter	engine	Model	D12C5-435E1
		brand	Sany Deutz Engine
		Displacement (L)	12.12 Euro V
		Rated power/speed (kW/rpm)	308/1900
		Maximum torque/speed (N.m/rpm)	2106/1000-1400
		Net engine weight (kg)	1150
		Auxiliary braking	In-cylinder braking
		Add blue tank volume (L)	35
	other		Direct injection, water cooling, four stroke, supercharged intercooling, high pressure common rail
	clutch		φ 430
	transmission		Fast 12JSDX240T-A (12.1-0.78)
	Front axle		7.5T with ABS and waterproof axle
	Medium axle	Model	16T with ABS and waterproof axle
		Speed ratio	4.77
		Differential lock	Differential lock between wheels and shafts
	Tires and rims		12.00 R20
	frame		940-860×316×(8+8)
	Front suspension		10 leafs (width 80mm, thickness 18mm multiple-leaf spring)
	Rear suspension		12 leafs (width 90mm, thickness 25mm multiple-leaf spring+Four horse integrated balance shaft)
	brake		Pneumatic double circuit drum brake, ABS
	fuel tank		400L (Aluminum)
	battery		165Ah
General configuration	Undertank protection		●
	Headlight and side light guard mesh		●
	Engine side baffle (body)		●
	Remove the crank type spare tire support		●
	Chassis toolbox		●
Applicable Scenarios (Recommend)			typical scene: city construction foundation pit /sand transportation conditons Typical road: Paved Road, Highway, Minimal Turning Radii Limitation Total weight of vehicle and cargo GVW: ≤55 tons Commonly used speed: Full load 30-60km/h (on road) No-load 40-70km/h (on road) Maximum speed: no typical demand, or ≤110km/h
Note: X-without; ○ -Optional; ● -Standard ; The above configuration parameters are for reference. The manufacturer reserves the right to change them without prior notice. The right to interpret them is reserved by the manufacture			

			Malaysia
type			SYZ415C-8S(R) sany deutz engine (8×4) ZZX200000472
Vehicle parameters	Dimension (LxWxH) mm	standard	11650×2550×3250 (length of cargo 8550)
	Wheel base mm	standard	2000+5200+1400 (length of cargo8550)
	Curb Weight		18t
	Full Load Weight		55-60t
	Economic speed range		40-80
	Rated maximum speed (1900rpm)		90
	Permissible maximum speed (2200rpm)		110
Cargo	15m³ (8600*2300*760mm)		●
	13m³ (7600*2300*760mm)		○
Cargo Type	Rectangular		●
	U-Type		○
Cab	Model		318 Standard Roof
	Other configuration		Single sleeper, wraparound instrument table, air conditioner, radio (with Bluetooth, USB and SD card interface, can connect with mobile phone to make calls, play music), sun visor, 2kg fire extinguisher, three steps
Chassis Parameters	engine	Model	D12C5-435E1
		brand	Sany Deutz Engine
		Displacement (L)	12.12 (Euro V)
		Rated power/speed (kW/rpm)	308/1900
		Maximum torque/speed (N.m/rpm)	2106/1000-1400
		Idle speed (rpm)	600±50
		Net engine weight (kg)	1150
		Auxiliary braking	In-cylinder braking
		Add blue tank volume (L)	35
	other	Direct injection, water cooling, four stroke, supercharged intercooling, high pressure common rail	
	clutch		φ 430
	transmission		Fast 12JSDX240T-A
	Front Axle		9T with ABS and Waterproof Axle
	Middle and Rear axle	Model	16T
		Speed ratio	4.77
		Differential lock	Differential lock between wheels and shafts
	Tires and rims	Model	12.00 R20
	frame	frame(mm)	940-860×316×(8+8)
	front suspension		8 pieces (width 90mm, thickness 18mm multi-piece spring + shock absorber)
	rear suspension		12 pieces (width 90mm, thickness 25mm multi-spring + four-horse integrated balance shaft)
	brake		Pneumatic double circuit drum brake, ABS
	fuel tank		400L (Aluminum)
	battery		165Ah
General configuration	Undertank protection		●
	Headlight and side light guard mesh		●
	Engine side baffle (body)		●
	Remove the crank type spare tire support		●
	Chassis toolbox		●
			Typical Scene: Urban Construction, Suburban Transfer Typical Road: Paved Road, Highway, Minimal Turning Radii Limitation Designed Gross Vehicle Weight: ≤60t Regular Speed: Full Load 50-80km/h (Highway) Empty Load: 60-90km/h (Heighway) Maximum Speed: Usually ≤110km/h
Note: X-without; ○ -Optional; ● -Standard; The above configuration parameters are for reference. The manufacturer reserves the right to change them without prior notice. The right to interpret them is reserved by the manufacture			

GREEN, ZERO-EMISSION AND FUTURE-ORIENTED

- New generation of E-dumper has great advantage in the market.
- Market share No.1 in China of 2022.
- Outstanding cost efficiency: scenario like heavy duty downhill empty load uphill (gradient 10%) will have no electrical cost.
- Integrating solution for battery charging/swapping requirements.
- Five years 200,000km warranty for battery system, motor system and vehicle control system.



SERVICE VALUE

Innovation、Excellence、Clients、Cooperation、Respect、Passion、Honesty、Responsibility

Service mission: All for client, create value for customer

SERVICE VISION

Exceed customer expectation and industry standards

SERVICE COMMITMENT

- Reply customer within 15 minutes.
- Reach main service area within 2 hours.
- Solve general problems and provide regular parts within one day.
- Solve customer complaints with two days.
- Solve all issues within 7 days.

SERVICE ADVANTAGE

“Professional service power”: Sany has offices in over 200 countries and regions, with 11 subsidiaries and 35 service points in domestic together. Setting up the parts warehouse can cover the world range, Forming the four in one of parts supply and guarantee system by headquarters warehouse, regional center warehouse, provincial and prefecture-level city, Accommodating 80000 kinds of parts to ensure fully customer service requirements in time. “Professional operation and maintenance system”: Sany has invested tens of million of RMB to build “Sany Customer cloud APP” ,which enable customers to monitor the running status and parameters of the equipment in real time anywhere in the world. In addition, it provides online consultation, community communication, accessories mall, one-click repair, maintenance reservation, product knowledge learning and other value-added service. So the customer can easily enjoy the highest quality of service in any place of the world.

MORE THAN JUST MACHINES

SANY provides equipment you can rely on and trust in any situation. But that’s not all. We then blanket your machine with the kind of support you expect to keep you on the job – no matter where that job takes you. Backed by an industry-leading warranty and supported with local service you can count on, you’ll always be confident in your decision to partner with SANY. Because with SANY, you get more than just machines.

