



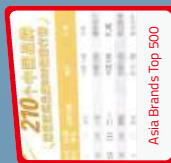
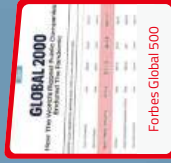
## SANY INTRODUCTION

SANY was founded in 1989;  
 Group assets: **\$78** 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





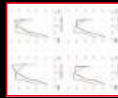
### FOCUS ON CUSTOMER PROFITABILITY

#### INCOME EXTRA 10%

- Horse power range covers **300~490HP**, 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 **40%** 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

- **15,000h** strict full load test on intensive road at SANY vehicle testing site.
- Over **300,000** cold area test and over **10,000km** extremely rough test in Baokang dump truck test site with full load.

#### HIGH STRENGTH SUSPENSION SYSTEM

- **310mm** height and 8mm+8mm thickness chassis frame, stronger than competitors;
- **9 tons** front axle (capacity **171 + 2x151**) rear axle (capacity **2x227**), reliable carrying capacity;
- **10 leaf springs** front suspension system and **12 leaf springs** rear suspension system. GVW ranges from **35 tonnes to 34** tonnes. Increase payload with **20%**.

#### COMPREHENSIVE PROTECTION SYSTEM

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

#### TRANSMISSION TORQUE REDUNDANCY (ZOE-UP) TO IMPROVE ANTI-ROUGHNESS



## 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  $\geq 450\text{mm}$ .
- 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.

### MUST-HAVE 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 II)-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 **330°** view
- Standard with **ABS**
- Optional **ASB**
- Optional **LOWSTEPS**
- Optional **TPSBARS**



## 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 lift is stable and reliable
- Straight tail door/diagonal tail door
- Long life: high strength materials/robot welding/powder spraying technology





Indomina series dump truck model configuration and working condition recommended 2023-5																															
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### Vietnam

#### Light Weight Design

The chassis with strong innovated steel is designed 5% lighter than its competitors, which makes the truck carry extra load for each trip and helps the customer to gain extra profit.

#### High Quality

With the ergonomic design of SANY 318 cab, it is comfortable, intelligent, and easy to drive. The cab meets the European standard regulation that requires a robust cabin structure.

#### Lower Fuel Consumption

SANY Deutz D09 Engine with German quality, high horsepower and high torque, its fuel consumption is 10% lower than its competitors. Thus, the SZZ4.14 also provides its customer higher profit and shorter payback cycle.



Vietnam SZZ4.14																														
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## RUSSIA

### STRONG POWER AND FAST CLIMBING SPEED

460 horsepower, great climbing ability in highway and mine transportation application, Extra trip every day for better profit.

### MORE LOADING, MORE DURABLE

9.5T front axle, 18T rear axle, 316 height, B = 8 double layer frame, T55 balance suspension, four turn stronger bearing capacity, high strength wear resistant steel. The ball joint is also strengthened for better superstructure resistance.

### EXTREMELY SAFE AND SECURE

Reliability test is carried out in various working conditions, which ensures the normal operation of vehicles for a long life cycle.  
Cdf area package configuration ensures more reliable operation under low temperature environment. Metal frame structure and white body guarantee personal safety.



Ruska Dump configuration and work condition recommendation 44	
Vehicle parameters	Type standard optional optional
	Drive axle 4x4/4H/4M
Body parameters	Wheelbase mm standard optional
	Ball load (kg/axle) Economic speed range Maximum speed (km/h) Performance maximum speed (200rpm)
Body	Dimensions width height
	Capacity Type Unit
Cabin	Model Others
	Engine Brand Maximum torque (Nm/2000rpm) Maximum power (kW/2000rpm)
Chassis parameters	Front axle Other
	Drive axle Type Brand Front suspension Rear suspension Front brake Rear brake
Configuration options	Anti-heating, anti-freezing, anti-rain, anti-dust start LED headlamps, side body Rear LED light ABS/ESP Tire pressure monitoring body Electric call bell body Light bar (optional body)
	Application Scenarios (Recommended)
Notes: * does not apply; ○ optional; (Basic Config.) = Standard. The basic configuration parameters are for reference. The parameters reserved for reference are shown in bold. The weight of the cargo shown in bold is reserved by the manufacturer.	

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## SAUDI ARABIA/MIDDLE EAST

### STRONG POWER AND BETTER DRIVE EXPERIENCE

Higher horse power engine offers up to 430 horse power, higher efficiency powertrain with strong load capability gives you confidence to overcome tough work conditions everywhere. Comfortable 316 cabin offers better experience for drivers.

### ROBUST DESIGN WITH HIGH DURABILITY IN HARSH ENVIRONMENT

Run well in 50°C higher environment with heavy payload, Air intake filter designed for working in dusty areas. Sufficient tests and scientific simulations ensure its reliable and trustworthy quality.

### INTELLIGENT AND SAFE

MachineLink Terminal allows operators to monitor truck's state and location in real time. This helps operators to improve drive habit in order to reduce fuel consumption. The truck's GPS location can be tracked by managers, which helps to trace the truck's journey or set geofences. Result in safe operation of the trucks.



Product Model		Standard Model (UAE Work condition)	Optional Model (City Work Condition)
Vehicle parameter	Dimension LxWxH(mm)	8500x2540x3580	8500x2540x3580
	Wheel base(mm)	4000/1000	4000/1000
	Full Load Weight(t)	50000	50000
	Economic Speed (km/h)	30-56	48-74
	Rated Maximum Speed (km/h)	71	91
Cargo	Rated Maximum Speed (km/h)	82	105 (limited to city software)
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Cabin	U-Type	○	○
	Others	○	○
Chassis parameter	Model	Y030A200-30 (UAE/Euro II, Y038B1)	Y030A200-30 (UAE/Euro II, Y038B1)
	Rated power (kW/mm)	294/1900	294/1900
	Maximum torque (N·m/mm)	1800/1100-1500	1800/1100-1500
	Available Brake	Estimate Brake	Estimate Brake
	Transmission	10T5200T-61 Gear Ratio 12.5:1 7T12520A/4T4 Gear Ratio 12.1:0.78	10T5200T-61 Gear Ratio 12.5:1 7T12520A/4T4 Gear Ratio 12.1:0.78
	Front axle	AB5 waterproof axle	AB5 waterproof axle
	Drive axle	Differential lock between axles and differential lock between shafts	Differential lock between axles and differential lock between shafts
	Frame	316-820/2.5	12.090/0
	Rear suspension	610 high strength steel frame (800-800-316/80-8)	610 high strength steel frame (800-800-316/80-8)
	Front suspension	10 shaft spring with shock absorber	10 shaft spring with shock absorber
Optional	ABS/EBD	○	○
	Electric cab lift	○	○

Note: X - does not apply, O - Optional (Basic Config), ● - Standard. The above configuration parameters are for reference. The manufacturer reserves the right to interpret them as per notice.

Product Model		Standard Model (UAE Work condition)	Optional Model (City Work Condition)
Vehicle parameter	Dimension LxWxH(mm)	8500x2540x3580	8500x2540x3580
	Wheel base(mm)	4000/1000	4000/1000
	Full Load Weight(t)	50000	50000
	Economic Speed (km/h)	30-56	48-74
	Rated Maximum Speed (km/h)	71	91
Cargo	Rated Maximum Speed (km/h)	82	105 (limited to city software)
	Rated Maximum Speed (km/h)	82	105 (limited to city software)
	Rated Maximum Speed (km/h)	82	105 (limited to city software)
Cabin	U-Type	○	○
	Others	○	○
Chassis parameter	Model	Y030A200-30 (UAE/Euro II, Y038B1)	Y030A200-30 (UAE/Euro II, Y038B1)
	Rated power (kW/mm)	294/1900	294/1900
	Maximum torque (N·m/mm)	1800/1100-1500	1800/1100-1500
	Available Brake	Estimate Brake	Estimate Brake
	Transmission	10T5200T-61 Gear Ratio 12.5:1 7T12520A/4T4 Gear Ratio 12.1:0.78	10T5200T-61 Gear Ratio 12.5:1 7T12520A/4T4 Gear Ratio 12.1:0.78
	Front axle	AB5 waterproof axle	AB5 waterproof axle
	Drive axle	Differential lock between axles and differential lock between shafts	Differential lock between axles and shafts
	Frame	316-820/2.5	12.090/0
	Rear suspension	610 high strength steel frame (800-800-316/80-8)	610 high strength steel frame (800-800-316/80-8)
	Front suspension	10 shaft spring with shock absorber	10 shaft spring with shock absorber
Optional	ABS/EBD	○	○
	Electric cab lift	○	○

Note: X - does not apply, O - Optional (Basic Config), ● - Standard. The above configuration parameters are for reference. The manufacturer reserves the right to interpret them as per notice.

## AFRICA

### STRONG POWER AND BETTER DRIVE EXPERIENCE

Offers up to 400 horse power, stronger power, higher efficiency powertrain with strong load capacity gives you confidence to overcome tough work conditions everywhere. Comfortable 318 cabin offers better experience for drivers.

### ROBUST DESIGN WITH HIGH DURABILITY IN HARSH ENVIRONMENT

Air intake filter designed for working in dusty area. Reinforced 316mm height, 6mm 68mm thickness chassis frame, 155 rear suspension and reinforced 4-joint tipping axle offer outstanding durability. Sufficient seats and scientific simulations ensure reliability and trustworthy quality.

### INTELLIGENT AND SAFETY

Machinetalk™ Terminal allows operators to monitor truck's state and location in real time. This helps operators to improve drive habit in order to reduce fuel consumption. The truck's GPS location can be tracked by managers, which helps to trace the truck's journey or set geofence. Result in safe operation of the trucks.



Africa Dump configuration and work condition recommendation EAF	
Product Model	Minimum load condition ZZK100000950
	Unloaded condition By orders
Vehicle parameter	Dimension (LxWxH)(mm)
	Wheel Base(mm)
	Curb Weight(kg)
	Full Load Weight(kg)
Body Size	Dimension (LxWxH)(mm)
	Capacity (m <sup>3</sup> )
Cargo Type	U-Type
	Other
Cab	318 (with 155 rear suspension and reinforced 4-joint tipping axle)
	Other
Engine	Rated power (kW/hp)
	Maximum torque (N/m)
Chassis	Front axle
	Drive axle
Optional	Underproduction
	Height (land and light) (mm)

Note: ○ - 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 manufacturer.

Africa Dump configuration and work condition recommendation EAF	
Product Model	Minimum load condition ZZK100000950
	Unloaded condition By orders
Vehicle parameter	Dimension (LxWxH)(mm)
	Wheel Base(mm)
	Curb Weight(kg)
	Full Load Weight(kg)
Body Size	Dimension (LxWxH)(mm)
	Capacity (m <sup>3</sup> )
Cargo Type	U-Type
	Other
Cab	318 (with 155 rear suspension and reinforced 4-joint tipping axle)
	Other
Engine	Rated power (kW/hp)
	Maximum torque (N/m)
Chassis	Front axle
	Drive axle
Optional	Underproduction
	Height (land and light) (mm)

Note: ○ - 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 manufacturer.





## THAILAND

### CORE ASSEMBLY WITH TOP SUPPLIERS

Suppliers are well-known manufacturers in the industry such as CATL battery, Ixon motor transmission and INVO/ANCE five-in-one control unit.

### OUTSTANDING POWER AND GRADEABILITY

Industry leading battery system with maximum motor power 460 kw, the maximum torque of 2900 nm. Gradeability can reach more than 36%, dynamic performance far exceeds the fuel dump truck.

### INTELLIGENT AND SAFETY

MercedesLink Terminal allows operators to monitor truck's state and location in real time. This helps operators to improve drive habits in order to reduce fuel consumption. Electronic braking system and parking system. 8 optional auxiliary driving package, active and passive safety functions ensure a much safer driving environment.



Thailand series dump truck model configuration and working condition recommended 2023-5 8M4 E-TPP8		572426-6188E2V Standard Greenland EM3-D1645-4-884AMT-4S73	
Type		Type	
Vehicle parameters	Dimension L (mm)	5520	5520
	Wheel Base (mm)	4050	4050
	Cor. Weigh (kg)	22500	22500
	Full load Weight (kg)	62500	62500
	Rated Maximum Speed	100	100
Dump body	Dimension L (mm)	2317	2317
	Thickness (mm)	Bottom 12 side 10	Bottom 12 side 10
	U/L cylinder type	415/175x4/50	415/175x4/50
Cabin	Other configurations	Single sleeper, surround-type instrument platform, air conditioner, voice entertainment control large screen with Bluetooth function, entertainment control large screen (with Bluetooth function, navigation function, radio function, USB and SD card interface, can connect with mobile phone to make and receive calls, support video call, USB disk media playback function), sunvisor, zig-zag intelligence air conditioning (mid-level activity)	
	Other configurations	permanent magnet synchronous EM3-D1645	
Electric motor	Type	permanent magnet synchronous EM3-D1645	
Gearbox	Rated/pulse power (kW)	312/460	312/460
	Rated/pulse torque (Nm)	1623/2031	1623/2031
Power battery	Type	EMT	
	Rated capacity (kWh)	330	330
Frame	Recharge time (SOC20%~100%, 240kVh double gear)	480min	480min
	Base size (mm)	940-460/3168/6194	940-460/3168/6194
Middle and rear axle suspension system	Specification	9.5T	9.5T
	Specification	16T	16T
Rear axle suspension system	Blowover self-correction type	136	136
	Northward Load Springs	16/72	16/72
Rear stabilizer bar (with/without Manual/semi-automatic alloy)	with	Steel	Steel
	without	Steel	Steel
Type	Specification	8.75 air road	8.75 air road
	Specification	12.0/52/4	12.0/52/4
Braking system	Type	Pneumatic double circuit front and rear drum type ABS	
	Specification	Standard	Standard
Gear control	Type	Integral clutch type	
	Specification	6	6
Energy recovery regulation	Type	ASD three non-slip	
	Specification	6	6
Other configurations	Type	OTA	
	Specification	6	6

Thailand series dump truck model configuration and working condition recommended 2023-5 8M4 E-TPP8		572426-6188E2V Standard Greenland EM3-D1645-4-884AMT-4S73	
Type		Type	
Vehicle parameters	Dimension L (mm)	5520	5520
	Wheel Base (mm)	4050	4050
	Cor. Weigh (kg)	22500	22500
	Full load Weight (kg)	62500	62500
	Rated Maximum Speed	100	100
Dump body	Dimension L (mm)	2317	2317
	Thickness (mm)	Bottom 12 side 10	Bottom 12 side 10
	U/L cylinder type	51/102x4/590	51/102x4/590
Cabin	Other configurations	Single sleeper, surround-type instrument platform, air conditioner, voice entertainment control large screen with Bluetooth function, navigation function, radio function, USB and SD card interface, can connect with mobile phone to make and receive calls, support video call, USB disk media playback function), sunvisor, zig-zag intelligence air conditioning (mid-level activity)	
	Other configurations	permanent magnet synchronous EM3-D1645	
Electric motor	Type	permanent magnet synchronous EM3-D1645	
Gearbox	Rated/pulse power (kW)	312/460	312/460
	Rated/pulse torque (Nm)	1623/2031	1623/2031
Power battery	Type	EMT	
	Rated capacity (kWh)	350	350
Frame	Recharge time (SOC20%~100%, 240kVh double gear)	580min	580min
	Base size (mm)	940-460/3168/6194	940-460/3168/6194
Middle and rear axle suspension system	Specification	9.5T	9.5T
	Specification	16T	16T
Rear axle suspension system	Blowover self-correction type	136	136
	Northward Load Springs	16/72	16/72
Rear stabilizer bar (with/without Manual/semi-automatic alloy)	with	Steel	Steel
	without	Steel	Steel
Type	Specification	8.75 air road	8.75 air road
	Specification	12.0/52/4	12.0/52/4
Braking system	Type	Pneumatic double circuit front and rear drum type ABS	
	Specification	Standard	Standard
Gear control	Type	Integral clutch type	
	Specification	6	6
Energy recovery regulation	Type	ASD three non-slip	
	Specification	6	6
Other configurations	Type	OTA	
	Specification	6	6







## 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.

