



SRT100 S

STRENGTH, SAFETY, EFFICIENCY, HYBRID POWER



NOMINAL
PAYLOAD

95 tonnes

GROSS
POWER

750/1200 kW

GROSS VEHICLE
WEIGHT (GVW)

168 tonnes



EFFICIENT

Save 15%+ fuel with energy recovery and direct drive.



LOW MAINTENANCE

No gearbox, no oil change, lower costs.



POWERFUL

Up to 1300 kW, outperforming competitors.



RELIABLE

Gearbox-free for maximum dependability.



SAFETY

Braking power >500 kW for tough downhill work.

A CUTTING-EDGE HYBRID PRODUCT SOLUTION WITH EFFICIENCY AND ADAPTABILITY

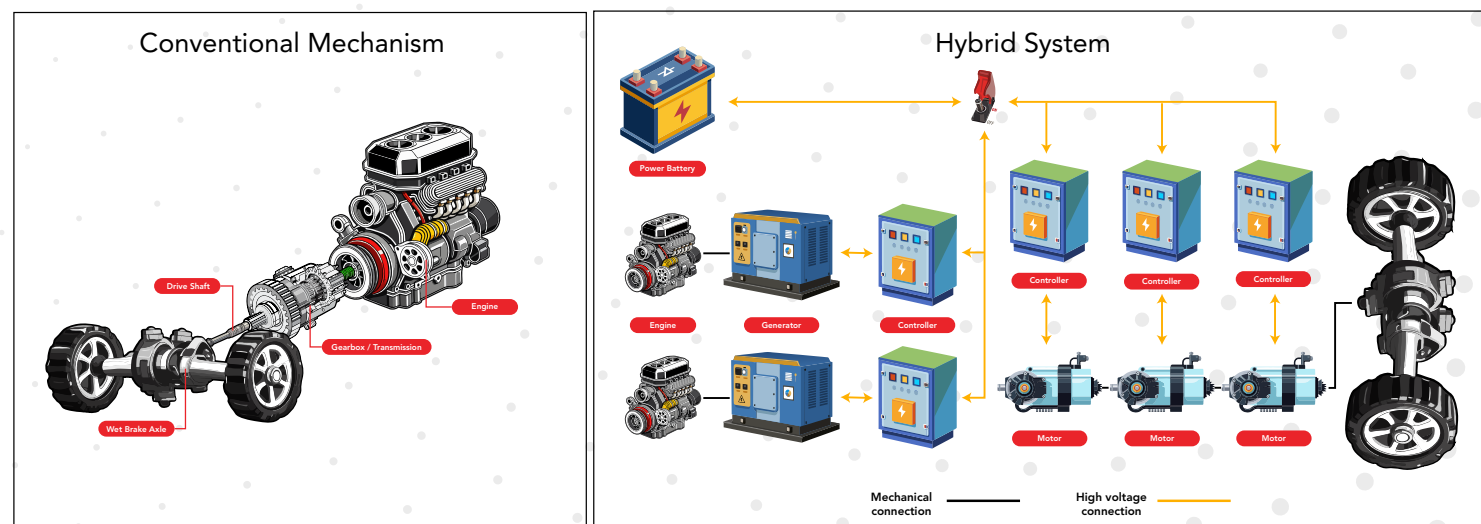
SRT 100S | HYBRID MINING TRUCK

The SRT100S hybrid system is designed to deliver exceptional efficiency, reliability, and power. Equipped with a high-torque three-motor direct drive, dual-engine range extenders, and a high-capacity power battery, it combines strength, adaptability, and advanced technology into one powerful solution.

Created through the collaboration between **SANY, a global leader in heavy equipment manufacturing, and mining industry experts**, the SRT100S is built to perform in the most demanding and extreme mining environments. This partnership has produced a machine that unites world-class engineering with real-world mining expertise, resulting in a hybrid system that is both powerful and highly efficient.

In addition to significantly reducing energy consumption, the SRT100S enhances overall performance, ensuring consistent and reliable power supply under even the toughest working conditions. With its advanced design, it sets a new benchmark for durability, sustainability, and operational excellence, making it the ultimate solution for modern mining operations.

The Difference Between Conventional Mechanism and Hybrid System



TECHNICAL SPECIFICATION & DIMENSION, ENGINEERING EXCELLENCE IN EVERY DETAIL

SRT 100S | HYBRID MINING TRUCK

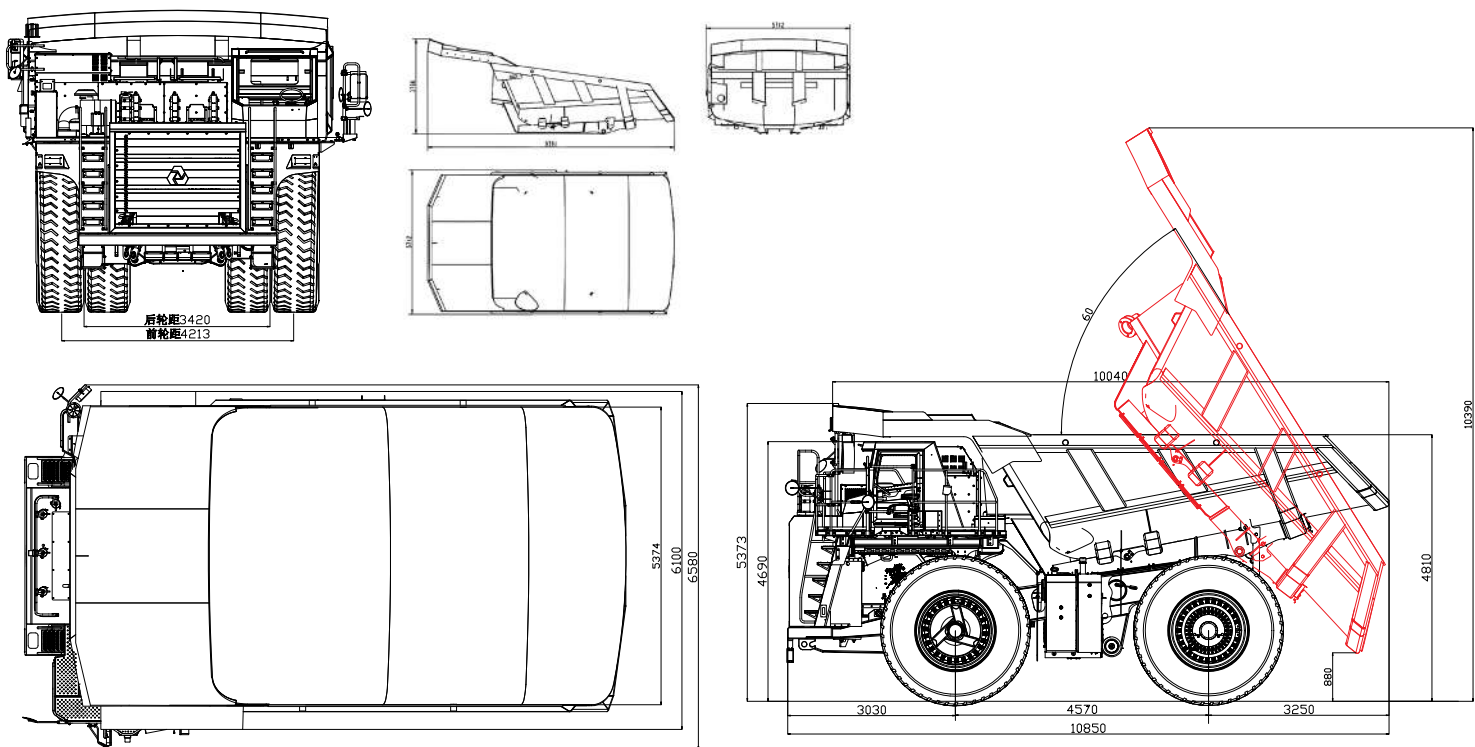
MAIN TECHNICAL PARAMETERS

Parameters of machine	Unit	Parameter
Overall vehicle dimensions, L x W x H	mm	10,850 x 6,580 x 5,373
Wheelbase	mm	4570
Front wheel track	mm	4213
Min. ground clearance	mm	745
Min. turning radius	m	12
Total power	kW	750/1200
Max. vehicle speed	km/h	49
Max. gradeability	%	30
Heaped capacity 2:1	m³	70

WEIGHT DISTRIBUTOR

Axle Load	Front Axle	Rear Axle
Unloaded	51%	49%
Fully loaded	33%	67%

OVERALL DIMENSIONS



WEIGHT PARAMETERS

Key Parameters	kg	lb
Chassis equipped with lifting cylinder	59,000	129,800
Standard dump body	14,000	30,800
Dead weight	73,000	160,900
Rated load capacity	95,000	209,439
Max. vehicle weight	168,000	369,600

FLUID CAPACITIES

Fluid Capacities	L
Engine (engine oil)	2 x 35
Engine cooling system (antifreeze)	2 x 105
Fuel tank (diesel)	1130
Steering & lifting & brake hydraulic oil tank (hydraulic oil)	360
Cooling hydraulic oil tank (hydraulic oil)	304
Wheel hub reducer - total (gear oil)	57
Differential (gear oil)	61
Front suspension (Transmission Fluid)	2 x 30
Rear suspension (Transmission Fluid)	2 x 21



OPTIMIZED MAIN CONFIGURATION FOR SUPERIOR DURABILITY AND SEAMLESS OPERATION

SRT 100S | HYBRID MINING TRUCK

ENGINE SYSTEM

- Model : Yuchai YCK16
- Type : vertical, in-line, water-cooled, four-stroke
- Rated power : 2×570 kW (1900 rpm)
- Max. torque : 3200 Nm (1100-1500 rpm)
- Number of cylinders/type : 6-cylinder/turbocharged
- Cylinder diameter × stroke : 141mm×170mm
- Engine displacement : 15.93L

DRIVE AXLE

Heavy-load, full-floating half-shaft, equipped with a single stagespiral bevel gear main reducer and a second-stage planetary wheel hub reducer, high-strength cast steel welded body

- Final drive ratio : 2.16:1
- Wheel-hub speed ratio : 13.75 : 1
- Overall speed ratio : 29.70 : 1

ELECTRIC DRIVE SYSTEM

- Rated power of AC alternator : 2×300 kW
- Power battery : CATL 3C power battery, with an optional adaptive capacity of 117 kwh/176 kwh
- Battery thermal management unit : Dual-unit high-efficiency cooling system maintains battery cooling capability even if a single unit fails
- Power of drive motor : 750 kw/1,200 kw
- Speed ratio of rear axle : 29.7:1
- Max. vehicle speed : 49 km/h

BRAKE SYSTEM

- Service brake : electric retarder + wet brake
- Front brake : dry disc brake; diameter of brake disc: 965 mm (38in), total area of friction plate: 1,960 cm² (304 in²)
- Rear brake : oil-cooled disc brake, fully sealed, completely dustproof and waterproof; total area: 91,000 cm² (14,105 in²)
- Parking brake : hydraulic release, load application on the piston on the rear brake disc set by the spring
- Emergency brake : service brake and parking brake controlled by solenoid valve
- It can maintain the continuous braking capability in the event of asingle engine failure.

BODY

- The dump body feature a double V-shaped structure (with a U-shape optional) that facilitates the material concentration and lows the center of gravity.The bottom plate, side plate and front plate are constructed with high-yield-strength, wear-resistant steel plates
- Struck capacity: 54 m³ (70.6 yd³)
- Heaped capacity 2:1: 70 m³ (91.5 yd³)

TIRES

- Tire model: 27.00R49 mine-specific deep tread
- Rim specification: 49-19.50TB/4.0
- If the specified TKPH (ton-Km/h) value of standard tires may exceed the limits under special working conditions, please consult the tire manufacturer for the best choice.

SUSPENSION SYSTEM

- Front suspension : McPherson independent suspension, variable damping oil/gas (nitrogen) suspension cylinder for superior road impact absorption;
- Rear suspension : a non-independent suspension consisting of a variable damping oil/gas (nitrogen) suspension cylinder, an A-frame, and a lateral stabilizer bar;
- Max. impact stroke front : 345 mm (13.65 in)
- Max. impact stroke rear : 200 mm (6.9 in)
- Max. swing of rear axle : ±7°

LIFTING SYSTEM

- Redundant lifting system design ensures uninterrupted lifting operation even if a single engine fails. The plunger pump serves as the lifting pump, delivering high lifting capacity and extended service life. Two dual-stage lift cylinders are installed on the outer side of the frame, ensuring stable lifting operation.
- The pressure of lifting system is 200 bar
- Lifting 14s, lowering 13s

CAB

- The cab complies with ISO3471 standards and features a FOPS/ROPS certified integrated four-column rollover protection design;
- Panoramic windshield design provides a wider view
- With premium interior, 360° panoramic display, full LCD instrument cluster, knob-type gear shifter, multi-dimension adjustable suspension seat, the vehicle provides the driver with a safe and comfortable operation space.

HYDRAULIC COOLING SYSTEM

- Independent cooling oil tank ensures superior hydraulic system cleanliness and reduced failure rate.
- The flow rate of cooling system is 684 L/min.

OTHER

- The vehicle comes standard with an automatic lubrication system and body heating function.

ADVANTAGE SMART CHOICE FOR A BETTER FUTURE

SRT 100S | HYBRID MINING TRUCK



ECONOMY FEATURES

- Motor braking energy recovery
- High direct drive efficiency
- Multi-power coupling in the optimal economic zone of the engine
- Fuel saving rate > 15%



LOW MAINTENANCE COST

- Motor direct drive without gearbox
- Motor maintenance-free
- No need to replace lubricating oil
- YCK16 engine annual maintenance costs significantly reduced



ADAPTABLE TECHNOLOGY

- Double-engine range extender + three-motor direct drive
- Double range extender total power > 600kW
- Total energy supply power 950/1300kW
- Total drive power 750/1200kW
- Continuously variable speed
- Power better than Competitor



RELIABILITY

- Motor direct drive
- Cancel the gearbox
- Completely avoid the gearbox reliability problem



SAFETY

- Wet braking + electric braking
- The cooling capacity of wet braking is $\geq 95^{\circ}\text{C}$
- The continuous power of electric braking is > 500kW
- Which meets the safety of long downhill working conditions



POWER PERFORMANCE

Set the maximum driving power to 850kW at normal mode (power mode 1000kW)

Project	SRT100 S
Climbing speed of 4%	25.8
Climbing speed of 5%	23.1
Climbing speed of 8%	15.6
Climbing speed of 10%	13.3
Climbing speed of 12%	11.2



RETARDER BRAKING

Battery electric braking (continuous 529kW/peak 975kW)+wet braking system ability)

Strategy : Prioritize energy recovery to the battery, and wet brakes participate when the battery power is exceeded.
Use the engine cylinder braking as an emergency electric braking

Slope	Pure electric slow-braking ability	Electric slow-braking + wet braking
-4%	48	48
-6%	31.5	48
-8%	21	48
-10%	15.5	48
-12%	12.5	48
-14%	10.5	48
-16%	9.5	48
-18%	8	48
Continuous slow-braking Maximum slope	-19%	-36%
Maximum slope for shortterm slow-braking	-36%	-56%





STAR WAGEN

INDONESIA

member of **PPA**

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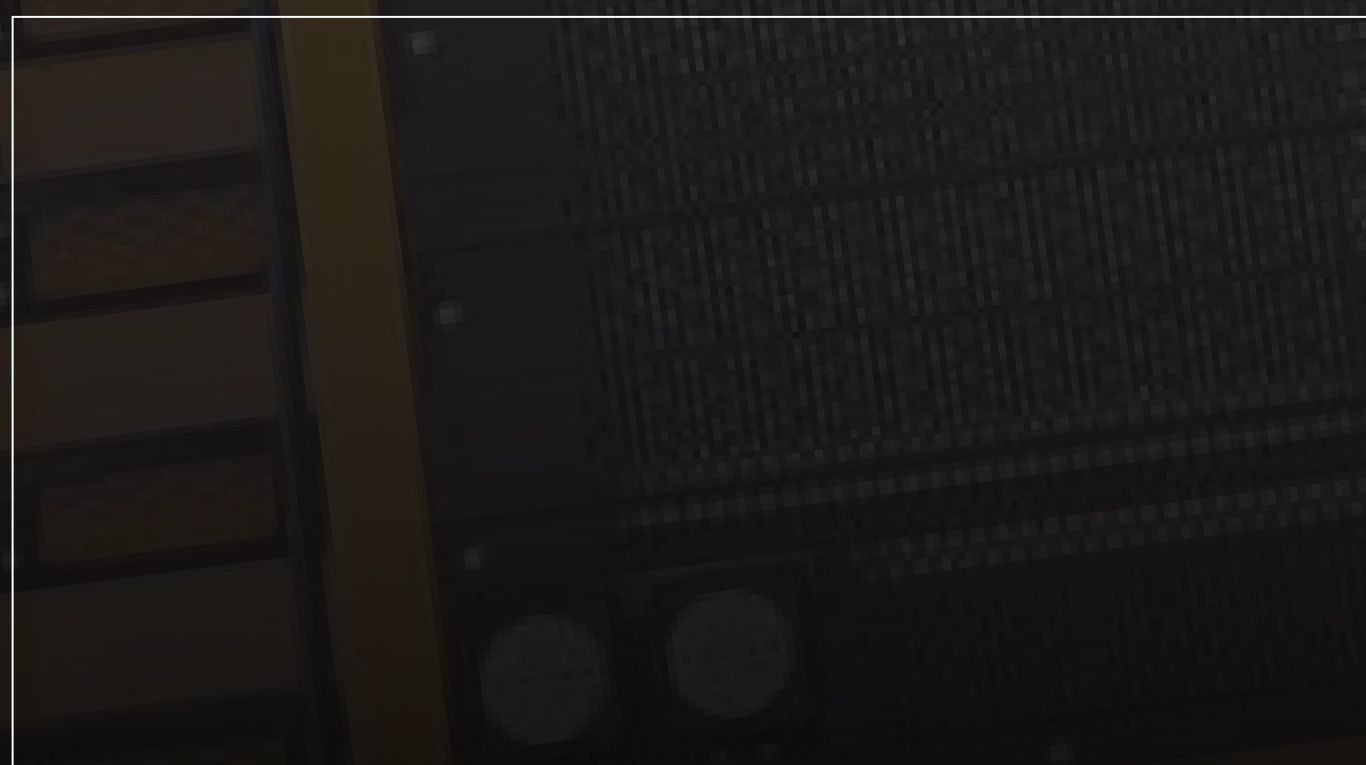
Exclusive Dealer of SANY SRT100S Hybrid in Indonesia

As the sole authorized distributor, PT Star Wagen Indonesia ensures you get:

- Official sales and nationwide distribution of the SRT100 Hybrid
- Genuine spare parts with certified after-sales support
- Professional technical consultation & operator training
- A reliable nationwide service network

Trust the only official SANY dealer for the SRT100 model in Indonesia – **PT Star Wagen Indonesia**.

Contact us today :



HEAD OFFICE

Office 8 Building, 33rd Floor SCBD Lot 28
Senopati Raya 8B
Jl. Jend. Sudirman Kav 52-53 Jakarta 12190
Phone : +62 21 5790 3456

SCAN HERE



Branch Office Jakarta

Jl. Cilosari Raya, Sukaresmi,
Cikarang Sel., Kabupaten Bekasi,
Jawa Barat 17530
Phone : +62 813 8441 8617

Branch Office Balikpapan

Jl Pendekat Pulau Balang No.Km 13,
Karang Joang, Kec. Balikpapan Utara,
Kota Balikpapan, Kalimantan Timur 76127
Phone : +62 812 5412 9494

Branch Office Samarinda

Jl. PM. Noor No.129, Sempaja Sel.,
Kec. Samarinda Utara,
Kota Samarinda,
Kalimantan Timur 75117
Phone : +62 823 5828 7808

Branch Office Banjarmasin

Ruko Boston,
Jl. Trikora, Landasan Ulin Tim.,
Kec. Landasan Ulin, Kota Banjar Baru,
Kalimantan Selatan 70721
Phone : +62 811 1915 704

Branch Office Makassar

Ruko Centrum Arcade 2
Unit No. RA1-28, Citraland Tallasa City
Jl. Jalur Lingkaran Barat/Tallasa Boulevard
Kota Makassar, Sulawesi Selatan 90241
Phone : +62 821 1170 0327

Branch Office Surabaya

Jl. Raya Jemursari No.19,
Jemur Wonosari, Kec. Wonocolo,
Surabaya, Jawa Timur 60237
Phone : +62 811 329 961

Branch Office Palembang

Komplek Pergudangan, Tanjung Siapi Api
Jl. Gudang Palembang Star No.10 Blok AA,
Kebun Bunga, Kec. Sukarami,
Kota Palembang, Sumatera Selatan 30961
Phone : +62 813-2607-8609

Yard & Warehouse Cikarang

Jl. Cilosari Raya, Sukaresmi,
Cikarang Sel., Kabupaten Bekasi,
Jawa Barat 17530
Phone : +62 812 8166 6994

Warehouse Balikpapan

Jl Pendekat Pulau Balang No.Km 13,
Karang Joang, Kec. Balikpapan Utara,
Kota Balikpapan, Kalimantan Timur 76127
Phone : +62 812 5412 9494