

SANY ASPHALT MIXING PLANT



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The product configuration (including technical parameters) is subject to change, and the delivered actual machine without notice.

The machine is designed for heavy industry, different with ordinary road construction machine. It is not suitable for ordinary road construction. The machine is designed for heavy industry, different with ordinary road construction machine. It is not suitable for ordinary road construction. The machine is designed for heavy industry, different with ordinary road construction machine. It is not suitable for ordinary road construction.

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# SANY ASPHALT MIXING PLANT





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QUALITY CHANGES THE WORLD

## ENTERPRISE OVERVIEW

SANY Group is the largest concrete machinery manufacturer in the world. It has built 5 industrial parks respectively in Shanghai, Beijing, Shenyang, Kunshan and Changsha as well as 4 overseas R&D and manufacturing bases in India, the United States, Germany and Brazil. Its business covers 150 countries all over the world.

### R&D

SANY Group has 4 domestic R&D centers, 3 overseas R&D centers, 221 product research institutes, and more than 5,000 authorized patents. SANY Group does not only interpret the beauty of science and technology with its strong technical strength, but also leads the future of the world with its extraordinary wisdom.

### Manufacturing

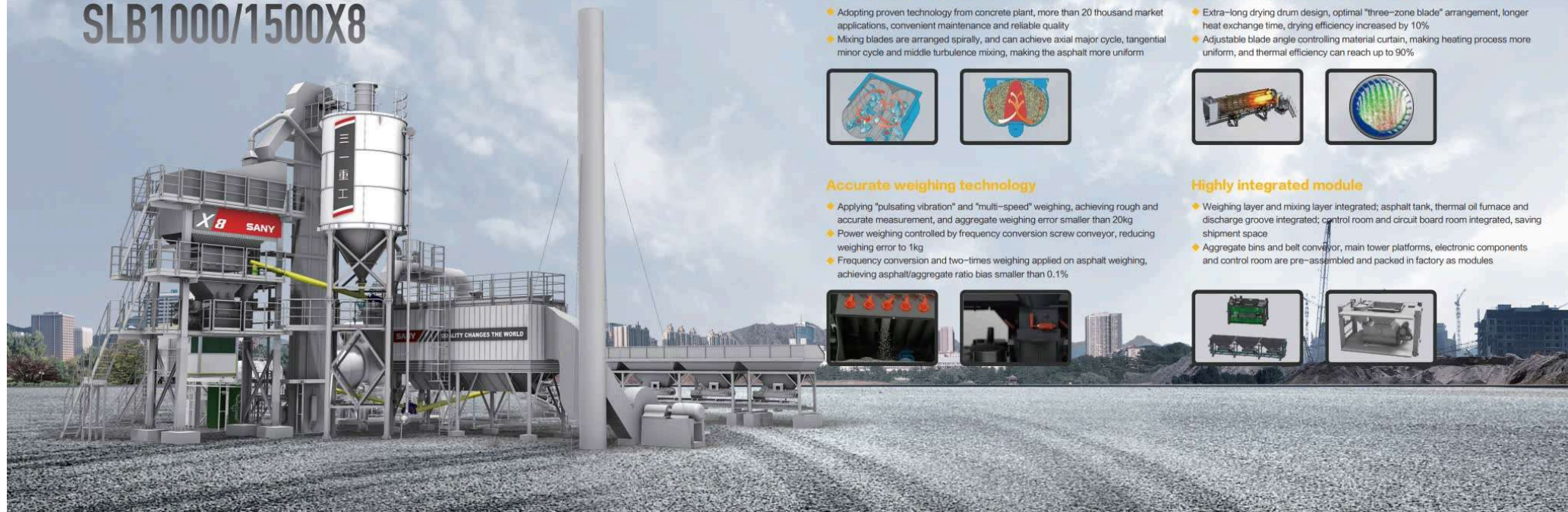
SANY Group relies on the largest intelligent manufacturing system in Asia, integrating not only the cutting-edge technology of China and Germany, but the rigorous manufacturing concept as well. It strives for perfection in every process and every component.

### Services

SANY Group quantifies its commitments and emphasizes its service standards. Its value chain system covers the whole life cycle of products. The service engineers of SANY Group around the world give you "Worry Free Life" with 24-hour meticulous care.

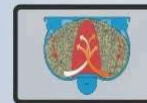
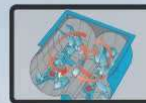


# SLB1000/1500X8



## Dual cycle boiling-type mixing technology

- ◆ Adopting proven technology from concrete plant, more than 20 thousand market applications, convenient maintenance and reliable quality
- ◆ Mixing blades are arranged spirally, and can achieve axial major cycle, tangential minor cycle and middle turbulence mixing, making the asphalt more uniform



## Waterfall material curtain design

- ◆ Extra-long drying drum design, optimal "three-zone blade" arrangement, longer heat exchange time, drying efficiency increased by 10%
- ◆ Adjustable blade angle controlling material curtain, making heating process more uniform, and thermal efficiency can reach up to 90%



## Accurate weighing technology

- ◆ Applying "pulsating vibration" and "multi-speed" weighing, achieving rough and accurate measurement, and aggregate weighing error smaller than 20kg
- ◆ Power weighing controlled by frequency conversion screw conveyor, reducing weighing error to 1kg
- ◆ Frequency conversion and two-times weighing applied on asphalt weighing, achieving asphalt/aggregate ratio bias smaller than 0.1%



## Highly integrated module

- ◆ Weighing layer and mixing layer integrated; asphalt tank, thermal oil furnace and discharge groove integrated; control room and circuit board room integrated, saving shipment space
- ◆ Aggregate bins and belt conveyor, main tower platforms, electronic components and control room are pre-assembled and packed in factory as modules



## Technical specifications

Item		SLB1000X8	SLB1500X8
Main parameters	Rated productivity (t/h)	80	120
	Fuel	Light oil, heavy oil, natural gas, coal gas, liquefied gas	
	Max total power (kW)	260	325
	Number of cold aggregate silo	4	4
Cold aggregate system	Cold aggregate silo capacity (m <sup>3</sup> )	8	8
	Material loading width (m)	3.2	3.2
	Drying drum length (m)	7	8
Drying system	Drying drum diameter (m)	Φ1.7	Φ1.8
	Rated burner capacity (MW)	10	14
Hot aggregate elevator	Aggregate conveying capacity (t/h)	100	130
Screening system	Screen	4	4
Hot aggregate silo	Hot aggregate silo (m <sup>3</sup> )	12	14
Mixing system	Rated mixing capacity (kg)	1250	1650
	Mixing power (kw)	2×18.50	2×22
Filler system	Powder filling silo (m <sup>3</sup> )	40	40
	Powder recycling silo	12 (optional)	12 (optional)
	Diesel tank (L)	12000	12000
Bitumen supply system	Bitumen tank (L)	1×30000	2×30000
	Heavy oil tank (L)	1×30000 (optional)	1×30000 (optional)
	Heat conducting furnace (kcal/h)	300000 (optional)	300000
Dedust system	Filtration area (m <sup>2</sup> )	360	480
	Induced draft fan air volume (Nm <sup>3</sup> /h)	30000	40000
	Induced draft fan power (kW)	55	90
Asphalt silo capacity	Standard	0	0
	Optional (t)	33	33
Control system	Control mode	Centralized	Centralized

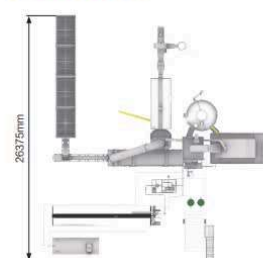
Remarks:

1. Specific optional configuration shall be subject to the contract agreement. This table is for reference only. The optional parts are not included in the standard configuration.

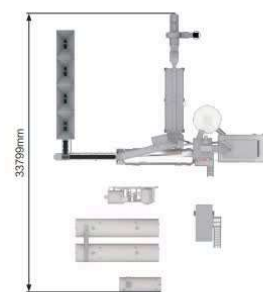
2. Due to continuous technological improvement, the above technical specifications may change without notice. SHANT reserves the right of final interpretation of all technical specifications.

3. Standard working condition: ambient temperature 20°C, standard atmospheric pressure, average water content of cold aggregate >3%, temperature of hot aggregate <180°C, cycling time <45 s, final product is common, medium sized aggregate asphalt. This follows GB/T 17608-2010 Road construction and road maintenance machinery and equipment— asphalt mixing plant.

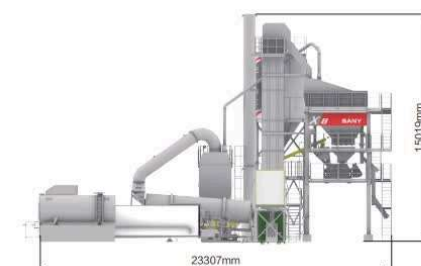
## Dimensions



26375mm



33799mm



23307mm

15019mm

SLB1000X8



26170mm

15049mm

SLB1500X8

# SLB2000/3000/4000C8

## Dual cycle boiling-type mixing technology

- ◆ Dual cycle boiling-type mixing technology: Mixing blades are arranged spirally, and can achieve axial major cycle, tangential minor cycle and middle turbulence mixing, increasing the efficiency by 20%.
- ◆ Optimal L/D ratio design, with large opening discharge gate, shortening mixing time and discharge time



## Dust-free main tower, smoke direct combustion

- ◆ Dust-free main tower: cart replaced by flap door distribute technology; fully enclosed tower without dust leaking; multiple negative pressure vacuuming
- ◆ Smoke direct combustion: 100% captured and pyrolysed, no secondary pollution



## Accurate weighing technology

- ◆ Applying "large and small gate discharging", "pulsating vibration" and "multi-speed" aggregate weighing, achieving rough and accurate measurement, and aggregate weighing error smaller than 20kg
- ◆ Frequency conversion and two-times weighing applied on asphalt weighing, achieving asphalt/aggregate ratio bias smaller than 0.1%
- ◆ Power weighing controlled by frequency conversion screw conveyor, reducing weighing error to 1kg



## Intelligent production technology

- ◆ Intelligent production: 1-button startup and shutdown; aggregate self-adaptive adjustment; auto temperature control; weight-free calibration; equipment health management
- ◆ Intelligent management system: achieving digitization in whole process of purchase-production-sale





## Technical specifications

Item		SLB2000C8	SLB3000C8	SLB4000C8
Main parameters	Rated productivity (t/h)	160	240	320
	Fuel	Light oil, heavy oil, natural gas, coal gas, liquefied gas		
	Max total power (kw)	380	603	730
	Number of cold aggregate silo	4	5	6
Cold aggregate system	Cold aggregate silo capacity (m <sup>3</sup> )	10	13	13
	Material loading width (m)	3.6	3.6	3.6
	Drying drum length (m)	9	10	12
Drying system	Drying drum diameter (m)	Φ2	Φ2.5	Φ2.75
	Rated burner capacity (MW)	14	28	35
Hot aggregate elevator	Aggregate conveying capacity (t/h)	180	280	380
Screening system	Screen	5	5	6
Hot aggregate silo	Hot aggregate silo (m <sup>3</sup> )	25	55	65
Mixing system	Rated mixing capacity (kg)	2250	3500	4500
	Mixing power (kw)	2×30	2×45	2×55
Filler system	Powder filling silo (m <sup>3</sup> )	50	50	50
	Powder recycling silo	25	50	50
Bitumen supply system	Diesel tank (L)	12000	12000	30000
	Bitumen tank (L)	2×30000	3×50000	4×50000
	Heavy oil tank (L)	1×30000	1×30000	1×30000
	Heat conducting furnace (kcal/h)	600000	800000	800000
Dedust system	Filtration area (m <sup>2</sup> )	580	800	1200
	Induced draft fan air volume (Nm <sup>3</sup> /h)	55000	85000	105000
	Induced draft fan power (kW)	110	160	185
Asphalt silo capacity	Standard	0	90	100
	Optional (t)	36		
Control system	Control mode	Distributed	Distributed	Distributed

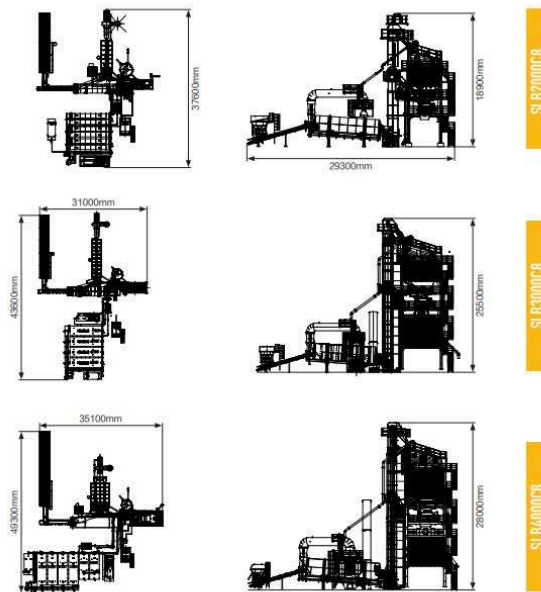
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## Dimensions



# SLZ1500Pro/2000/3000/4000



## Extra-long drying drum technology

- ◆ Extra-long RAP drying drum design, optimal "three-zone blade" layout, longer heat exchange time, efficiency raised by 15%; RAP material temperature can reach higher than 140°C
- ◆ No furnace and maintenance free, RAP material completely separated from flame, avoiding asphalt aging and can be heated quickly



## Accurate weighing technology

- ◆ Applying "large and small gate discharging", "pulsating vibration" and "multi-speed" aggregate weighing, achieving rough and accurate measurement, and aggregate weighing error smaller than 20kg
- ◆ Frequency conversion and two-times weighing applied on asphalt weighing, achieving asphalt/aggregate ratio bias smaller than 0.1%
- ◆ Power weighing controlled by frequency conversion screw conveyor, reducing weighing error to 1kg



## Boiling-type mixing technology

- ◆ Mixing blades are arranged spirally, and can achieve axial major cycle, tangential minor cycle and middle turbulence mixing, making the asphalt more uniform, efficiency increased by 20%.
- ◆ Optimal L/D ratio design, with large opening discharge gate, shortening discharge time, mixing time decreased by 3s.



## Intelligent production technology

- ◆ Intelligent production: 1-button startup and shutdown; aggregate self-adaptive adjustment; auto temperature control; weight-free calibration; equipment health management
- ◆ Intelligent management system: achieving digitization in whole process of purchase-production-sale
- ◆ Safety production: material flow detection, high temperature warning of exhaust air and safe flameout procedures to ensure a full range of safe operation.

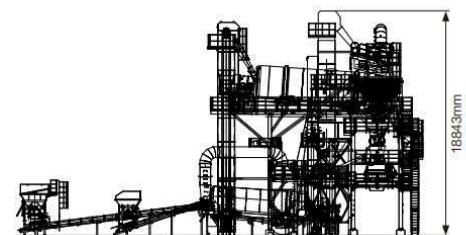
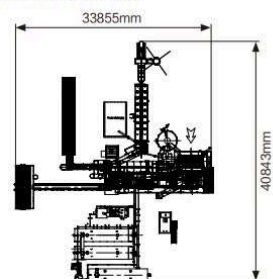




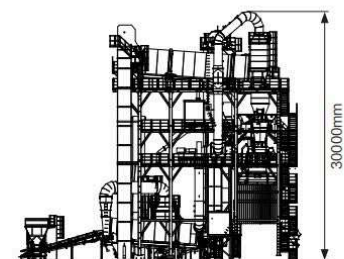
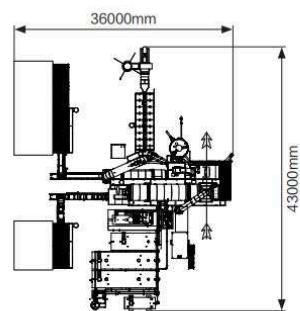
## Technical specifications

Item	SLZ1500Pro	SLZ2000
Fuel	Light oil, heavy oil, natural gas, liquefied gas	
Rated capacity (t/h)	120~140	160~180
Total power (kW)	537	783
Qty. of cold hopper	4	4
Volume of cold hopper (m <sup>3</sup> )	8	10
Drying drum	Φ1.8 × 8 m	Φ2 × 9 m
Burner(MW)	14	14
Hot elevator (kW)	11	18.5
Screening motor (kW)	2 × 2.35	2 × 2.9
Hot bin compartment	4	5
Capacity of mixer (t)	2.25	3.5
Mixer Motor (kW)	2 × 30	2 × 45
Mixed material storage bin (t)	33(optional)	40(optional)
Qty. of bitumen tank	2	2
Volume of bitumen tank (m <sup>3</sup> )	30	50
Qty. of diesel tank	1	1
Volume of diesel tank (t)	10	10
Volume of filler silo (m <sup>3</sup> )	40	50
Volume of reclaimed filler silo (m <sup>3</sup> )	15(optional)	25
Qty. of RAP hopper	2	2
Volume of RAP hopper (m <sup>3</sup> )	13	13
RAP rated capacity (t/h)	130	180
RAP drying drum	Φ2.5 m × 10 m	Φ2.5 m × 12 m
Hot RAP storage bin (t)	7	10
Hot RAP weighing bin (t)	1.2	3

## Dimensions



SLZ1500

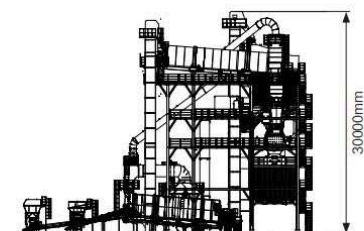
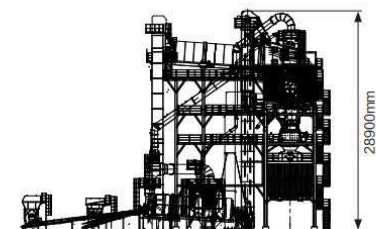
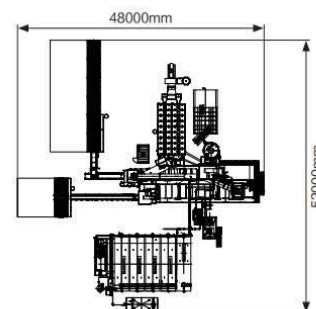
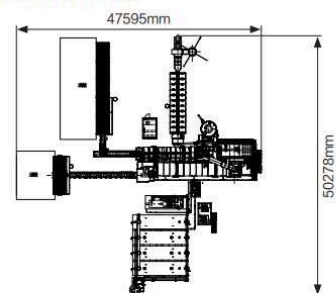


SLZ2000

## Technical specifications

Item	SLZ3000	SLZ4000
Fuel	Light oil, heavy oil, natural gas, liquefied gas	
Rated capacity (t/h)	240~280	320~360
Total power (kW)	995	1160
Qty. of cold hopper	5	6
Volume of cold hopper (m <sup>3</sup> )	13	13
Drying drum	Φ2.5 × 10 m	Φ2.7 × 12 m
Burner(MW)	28	35
Hot elevator (kW)	18.5	45
Screening motor (kW)	2 × 7	2 × 7
Hot bin compartment	5	6
Capacity of mixer (t)	4.5	6
Mixer Motor (kW)	2 × 55	2 × 75
Mixed material storage bin (t)	90	100
Qty. of bitumen tank	3	4
Volume of bitumen tank (m <sup>3</sup> )	50	50
Qty. of diesel tank	1	1
Volume of diesel tank (t)	10	30
Volume of filler silo (m <sup>3</sup> )	50	50
Volume of reclaimed filler silo (m <sup>3</sup> )	50	60
Qty. of RAP hopper	2	2
Volume of RAP hopper (m <sup>3</sup> )	13	13
RAP rated capacity (t/h)	180	180
RAP drying drum	Φ2.5 m × 15 m	Φ2.5 m × 15 m
Hot RAP storage bin (t)	10	10
Hot RAP weighing bin (t)	3	3

## Dimensions



## SHR80/120C8

## Extra-long drying drum technology

- ◆ Extra-long RAP drying drum design, optimal "three-zone blade" layout, longer heat exchange time, efficiency raised by 15%; RAP material temperature can reach higher than 140°C
- ◆ No furnace and maintenance free, RAP material completely separated from flame, avoiding asphalt aging and can be heated quickly



## Smoke treatment technology

- ◆ Negative pressure production, no smoke leaking
- ◆ Asphalt smoke directed to drying drum and burnt, no secondary pollution



## Accurate weighing technology

- ◆ Dynamic weighing error smaller than 1%, much better than industry standard 3%
- ◆ Applying "pulsating vibration" and "multi-speed" weighing, achieving rough and accurate measurement, and aggregate weighing error smaller than 20kg



## Intelligent safety technology

- ◆ Material starving countdown safety shutdown function
- ◆ Exhaust gas high temperature warning and safety shutdown function
- ◆ Storage bin full warning and protection function
- ◆ 1-button auto shutdown function

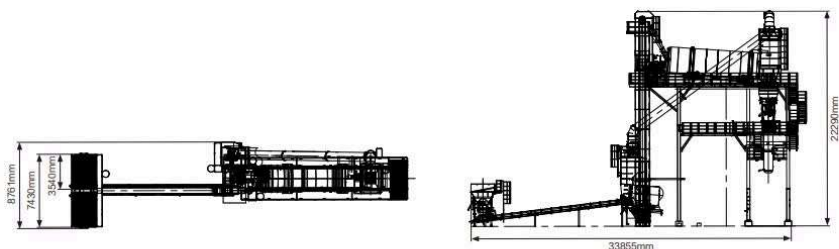




## Technical specifications

Item	SHR80C8
Fuel	Light oil, heavy oil, natural gas, coal gas, liquefied gas
Rated productivity (t/h)	80
Max total power (kW)	200
Material loading width (m)	3.6
Cold aggregate silo capacity (m <sup>3</sup> )	13
Number of cold aggregate silo	2
Aggregate conveying capacity (t/h)	130
Hot aggregate silo (t)	7
Drying drum length (m)	2.5
Drying drum diameter (m)	10
Rated burner capacity (MW)	7
Control mode	Distributed

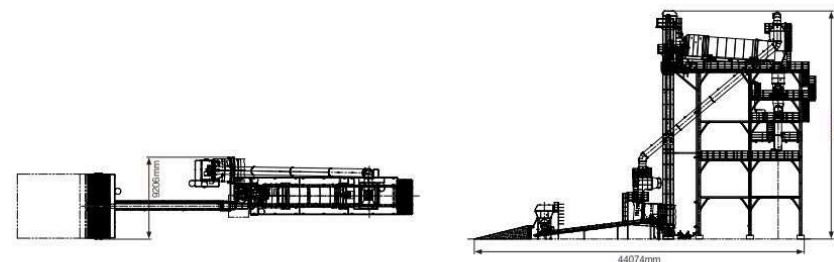
## Dimensions



## Technical specifications

Item	SHR120C8
Fuel	Light oil, heavy oil, natural gas, coal gas, liquefied gas
Rated productivity (t/h)	120
Max total power (kW)	267
Material loading width (m)	3.6
Cold aggregate silo capacity (m <sup>3</sup> )	13
Number of cold aggregate silo	2
Aggregate conveying capacity (t/h)	130
Hot aggregate silo (t)	10
Drying drum length (m)	2.5
Drying drum diameter (m)	12
Rated burner capacity (MW)	14
Control mode	Distributed

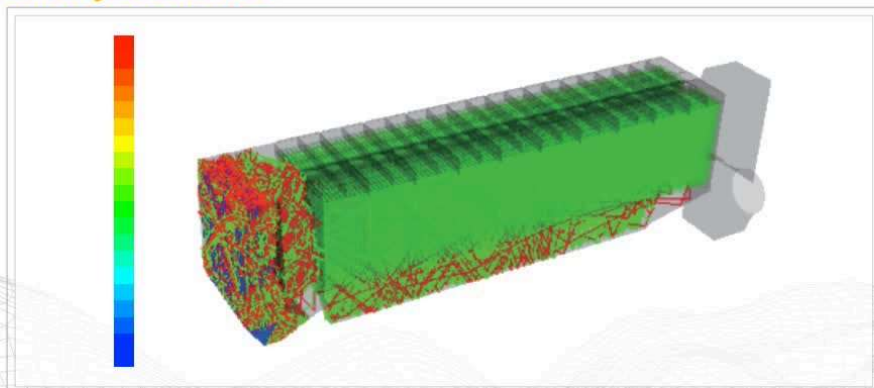
## Dimensions



## Lean manufacturing



## Quality assurance





## Construction cases



**Russia**  
**SLB3000C8+SHR160C8**

Delivered in 2021, servicing Russia-Belarus M1 high way construction, 500 thousand ton asphalt produced by now.

**Vietnam**  
**SLB3000C8**

Delivered in 2022, servicing Vietnam North-South highway construction, 500 thousand ton asphalt produced by now.



**Kazakhstan**  
**SLB4000C8**

Equipment of 2018 China Xinxiang Group "The belt and Road" project, servicing Kazakhstan high way construction, which becomes benchmark plant in local.



**India**  
**SLB1500X8E**

SANY first localized asphalt mixing plant gets offline in Indian factory, and will show up in the largest exhibit in south Asia — Bauma CONEXPO INDIA.



More than 4000 SANY asphalt mixing plants have been sold all over the world.



Manufacturing bases

## DISCOVER SANY AROUND THE WORLD

As a leading original equipment manufacturer of construction and mining machinery, renewable energy system, and cloud service provider, SANY expands international footprints with 11 industrial bases and 150+ offices and dealership networks around the globe, supporting our customers to fulfill their commitments.