

XAP125 Asphalt Mixing Plant Specification





☆Basic specification

1 Rated productivity 120 t/h

2 Nominal mixing capacity 1500 kg/batch

3 Rated working condition:

Aggregate: ≤40mm 100%

≤3mm 40%

≤74um (ASTM200) 7%

Dryer output temperature 160°C Ambient temperature 20°C Moisture $\leq 5\%$ Filler content5%Asphalt content5%

4 Static dosing precision:

 $\begin{array}{ll} \text{Bitumen} & \pm 0.2\% \\ \text{Filler} & \pm 0.2\% \\ \text{Minerals} & \pm 0.3\% \end{array}$

5 Fuel consumption $\leq 6.5 \text{ kg/t}$

6 Required operating power About 294 kW (whichever is the actual configuration)

7 Maximum single unit power 75 kW

8 Minimum installation area $750(30\text{m}\times25\text{m})\text{ m}^2$

9 Power supply:

Single voltage: 220V

Three phase: 380V

frequency: 50Hz

10 Environment protection standard:

Dust emission content ≤20mg/Nm³ (Rated working condition)

Smoke blackness ≤Ringelmann 1st level

Ambient noise ≤80dB

Control room noise ≤70dB



☆Detailed specification

Note: the item with " * "before the serial number in the above table is the optional items, which can be adjusted according to the purchase demand.

No.	Content	P	Capacity	Q'ty	Unit
1	Cold feed system				
	Cold hopper	Single hopper capacity	7.5m ³		
1.1		Loading height	2.8m	4	set
1.1	12 12 12 12 13 13	Loading width	3.3m	4	set
	ks	Filter screen	Each hopper with a filter(≥120mm)		
1.1.1	Vibration motor	Power	0.08kW	1	pcs
		Conveying capacity	100t/h		
1.2	Dosing machine	Speed adjustment method	Frequency conversion control, infinite speed regulation	4	set
		Attachments	Anti-deviation block idler and carrier roller		
		Belt Type	No-interface high- strength circular belt	4	set
		Belt Width	500mm		
1.2.1	Gear motor	Power	2.2kW(ea)	4	Unit
1.2.2	Frequency converter		Adjust gear motor speed to control minerals supply	4	pcs

st The discharge gate is adjustable, to get better aggregate proportion;

^{*} Sand hopper has breaking vibrate motor, when aggregate moisture is high, it will start automatic, also it can be controlled by operator inside control room by manual.

	Belt conveyor	Conveying capacity	130t / h		
1.3		Attachments	Belt tensioning device, sweeper, block idler	1	set
1.3.1	Drive motor	Power	4kW	1	Unit

No.	Content		Capacity	Q'ty	Unit
1.3.2	Belt	Туре	No-interface high- strength circular belt	1	set
		Width	550mm		
	Belt feeder	Conveying	130t / h		
		capacity	1300 / 11		
1.4		Attachments	Belt tensioning device, sweeper, block idler	1	set
1.4.1	Drive motor	Power	4kW	1	Unit
		Type	No-interface high-		
1.4.2	Belt		strength circular belt	1	set
		Width	550mm		
1.4.3	Filter device	1	set		
The nun	nber of hopper can be selected ac	cording to actual de	emand		
2	Drying drum system				
	Drying drum	Drying capacity	130t / h (Standard cold mineral humidity ≤5%)		
2.1		Diameter	φ1.8m	1	set
	Process of the Contract of the	Length	7.7m		
2.2	Gear motor	Power	11kW(ea)	4	Unit
2.3	Thermal device	Туре	Mineral wool insulation, covered with stainless steel plate	1	set
2.4	Discharge chute	Temperature measurement	Highly-sensitive thermal resistor	1	set



No.	Content		Capacity	Q'ty	Unit
2.5	Negative-pressure device		Real-time monitoring of the negative pressure value in the bag filter	1	set
2.6	Burner		-	1	set
2.6.1	Standard burner	Fuel Output power Adjustment ratio Fuel pump power Fuel volume control Fan power	Heavy oil or diesel (See Annex 1) ≥10.5MW 1: 10 ≥1.5kW Variable frequency control of fuel pump ≥11kW	1	set
		Air flow control Control mode	Frequency control and air door adjustment Manual and automatic control		
		Fuel	Natural gas(calorific value above 8600kcal/m³)		
		Output power	≥10.5MW	-	
		Adjustment ratio	1: 10		
		Fan power	≥11kW		
*	Continued	Air flow control	Frequency control and air door adjustment	1	
Option al 2.6.2	Gas burner	Control mode	Manual and automatic control	1	set
		Supply gas pressure	45-50kPa		
		Pipe diameter	≥DN80		
		Nitrogen oxide emission concentration	≤200mg/Nm³		
		Max. gas consumption	1060Nm³/h		
* 2.6.3	Dual-fuel burner	Fuel	Heavy oil or diesel (See Annex 1)	1	set



No.	Cont	ent	Capacity	Q'ty	Unit
			Natural gas(calorific value above		
			8600kcal/m ³)		
		Output power	≥10.5MW		
		Adjustment ratio	1: 10		
		Fuel pump power	≥1.5kW		
		Fuel volume	Variable frequency		
		control	control of fuel pump		
		Fan power	≥11kW		
		Air flow control	Frequency control and air door		
			adjustment		
		Control mode	Manual and		
			automatic control		
		Supply gas pressure	45-50kPa		
		Pipe diameter	≥DN80		
		Nitrogen oxide emission concentration	≤200mg/Nm³ (natural gas burning)		
		Maximum gas consumption	1060Nm ³ /h		
2.7	Maintenance platform		Easy to maintain burner	1	
Four whe	eels of drum is friction driv	en			
3	Dust collector system			SXCMO	
3.1	Primary dust removal		Gravity dust collector	1	set
3.11	Coarse filler spiral	Conveying capacity	25t / h	1	piece
		Power	7.5kW		
3.2	Secondary dust removal	Type Filteration area	Filter bag ≥480m²	1	set
		Filteration ability	43000m ³ /h		

No.	Content		Capacity	Q'ty	Unit		
3.2.1	Rag	Text	ure	Aramid fiber	1	sot	
3.2.1	Bag	Dens	sity	450g/m^2	1	set	
3.2.2	Counter-blow cylinder		Valve cylinder	1	set		
				Thermocouple			
3.2.3	Temperature measuring	eauinm	nent	measures the	1	set	
3.2.3	Temperature measuring	cquipin	iciit	temperature to	1	SCI	
		_		protect the bag			
		Cold	air door	Feedback control by			
3.3	3.3 Cold air door			temperature sensor	1	set	
		Air c	ylinder	Valve cylinder			
*3.4	Waste filler mixer	Mixi	ng capacity	30t/h	1	Unit	
3.4	Waste Illier Illixer	Powe	er	11kW	1	Omt	
3.5	Spiral below the silo	Powe	er	5.5kW	1	piece	
3.6	Ash discharge screw	Powe	er	5.5kW	1	piece	
		Type	;	Highly-efficient	1	Unit	
3.7	Induced draft fan			centrifugal fan			
		Moto	or power	75kW	1	Unit	
	Particle size of dust colle	ected by	y the primary dust	remover≥ 0.075mm, larg	ge particle	es are	
	sent to the hot elevator for recycling through the gravity flap valve by the screw						
	conveyor;						
3.10	The dust collected by the secondary bag collector			is directly discharged, ar	d the rec	ycled	
	filler can not be used und						
	The temperature sensor i				_		
	bag from working under	high te	emperature by cont	rolling the emergency co	ld air do	or.	
*3	Wet cyclone filter						
3.1	Exhaust fan power			75kW	1	set	
	_		Water pump 1	2.2Kw	_		
3.1.1	Water pump		Water pump 2	2.2kW	1	set	
3.2	Screw conveyor			5.5Kw	1	set	
3.2.1	Dust emission:			≤200mg/Nm ³	1	set	
4	Hot mineral elevator						



No.	Content		Capacity	Q'ty	Unit
	Elevator	Structure	Single row wear- resistant plate chain hopper type		
		Lifting capacity	130t / h		
4.1	4.1	Wear-resistant structure	Anti-wear structure is designed at the receiving and feeding chute	1	set set
		Power	15kW		
4.1.1	Gear motor	Anti-reverse	With anti-return device	1	Unit
5	Vibration screening system				
	Vibrating screen	Туре	Double vibration motor drive		
5.1		Screening capacity	130t / h	1	set
3.1		Screening area	13.5m ²	1	sec
		Layer numbers	4		
5.1.1	Screen	Standard specifications	5、11、19、32	1	set
5.1.2	Vibration motor	Power	2.35kW (each)	2	pcs
5.10	Double vibration motor drive,	2000 hours free of	maintenance; screen spec	ification	can be
3.10	customized according to produ	iction requirements			
6	Hot mineral storage system				
		Structure	4 positions		
6.1	Silo	Capacity	13.8m ³	1	set
6.1.1	Material level gauge	Туре	Point-type level detection	4	pcs



No.	Content		Capacity	Q'ty	Unit
6.1.2	Material temperature measuring		The high-precision thermocouple temperature sensor monitors the mineral temperature in the sand bin in real time	1	pcs
6.2	Hopper door		4	set	
6.2.1	Air cylinder			4	set
6.10	Each silo comes with a sampli	ng port for easy acc	cess.		
7	Weighing and mixing system				
	Mixer	Mixing capacity Type	1500kg/batch Double horizontal shaft forced mixing		
7.1	TARA TARA	Attachments	Additives and other expansion interfaces, recycled materials, and emergency stop device.	1	set
7.1.1	Gear motor	Power	22kW(ea)	2	set
7.1.2	Paddle arms, paddle tips, liner	s	Highly wear-resistant material	1	set
7.2	Mineral weighing hopper	Weighing method Weighing capacity Weighing type	"Cumulative" incremental measurement 1500kg Three points type	1	set
		Static measuring precision	weighing ±0.3%		

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No.	Content		Capacity	Q'ty	Unit
7.2.1	Weighing transducer		High-precision sensor	3	pcs
7.3	Filler weighing hopper	Weighing method Weighing capacity Weighing type Static measuring precision	"Cumulative" incremental measurement 120kg Three points type weighing ±0.3%	1	set
7.3.1	Weighing transducer		High-precision sensor	3	pcs
7.3.2	Butterfly valve		Pneumatic butterfly valve control filler feeding	1	pcs
7.4	Bitumen weighing tank	Weighing method Weighing capacity Weighing type Static measuring precision	Incremental measurement, secondary measurement 100kg Three points type weighing ±0.2%	1	set
7.4.1	Weighing transducer		High-precision sensor	3	pcs
7.4.2	Butterfly valve		Pneumatic butterfly valve controls bitumen material feeding	1	pcs

No.	Content	Content		Q'ty	Unit					
	Mixer adopts double horizon	Mixer adopts double horizontal shaft forced mixis			ation;					
	The "cumulative" incrementa	l measurement and u	nique expert database inte	elligent w	eighing					
		technology ensures high precision weighing, with axial discharge through the cylinder								
	driven material door;									
	·	Filler is measured incrementally, and the filler is discharged into the screw conveyor by								
	controlling the pneumatic bu	-	_		, ,					
7.10	The bitumen adopts increme	•	•		ensure					
	the accurate bitumen-minera	C		23						
	The mineral measuring hopp			ng are co	nnected					
	with the forced negative pro		_	_						
	weighing and mixing process	-	_		_					
	accuracy.	s und isoluting the pr								
8	Filler supply system									
		1_	Single mineral filler							
		Structure	silo							
8.1	Filler silo	Mineral filler		1	set					
		volume	$20\mathrm{m}^3$							
		Туре	High, low-point level	_						
8.1.1	Material level gauge		detection	1	set					
		Conveying	//							
8.1.2	Mineral filler weighing	capacity	22t / h	1	pcs					
	spiral	Power	4kW		_					
0.1.2	Silo-top dust collector	•	Vibration dust	1	pcs					
8.1.3			collector							
0.1.4	Pop-off valve		Ensuring filler	1	pcs					
8.1.4			injection safety							
	The ore filler feeding adopts	the pneumatic conve	eying method of the ore fi	ller truck	;; the					
8.10	mineral filler is transported t	o the weighing hopp	er by the screw; the ore fi	ller silo a	nd the					
	recovery filler silo (optional)	are equipped with a	rch breaking devices.							
9	Main tower leg									
	Main tower leg	Structure	Independent high							
			strength steel							
	C. III MAG		structure							
0.1	SI,NOMO	Traffic Height	3.8m	1	cot					
9.1		Traffic width	4.5m	1	set					
		Fixation	Pre-embedded steel	1						
			plate welding fixed							
	H I									
10	Gas circuit system									
		Type	Screw-type air							
10.1	Air compressor		compressor	1	Unit					
	7 III Compressor	Capacity	3.3m³/min	_ 1						
		Power								

No.	Content		Capacity	Q'ty	Unit		
10.2	Pneumatic components		Quick-plug connector, hose, three pneumatic components, joints, etc.	1	set		
11	Control system						
	Control system	Control mode Communication method Power	PLC+PC, all computer control Ethernet or Industrial field bus 380V/220V (±5%),				
11.1	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	Control interface display	Production process and production status monitoring, operation fault warning and alarm, hot mineral material level indication, system negative pressure and temperature display, maintenance prompt information display, fault diagnosis information display, production data query, etc.	1	set		
11.2	Control room	Type Area	Container control room, modular 9m²	1	set		
11.2.1	Air conditioner	1	1P	1	Unit		
11.3	PLC Contactor Circuit breaker Relay Emergency stop switch Proximity switch			1	set		
11.10	Each motor operation method or semi-automatic production, excess protection, input autom computer can control the mixing	Proximity switch Travel switch Each motor operation method is computer operation; the control system can be automatic or semi-automatic production, real-time carry-over automatic compensation, bitumen excess protection, input automatic calibration, data storage and output printing; the computer can control the mixing in real time; as for burner control, it has PLC automatic program control, ignition, safety monitoring, and automatic fault protection.					

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No.	Content		Capacity	Q'ty	Unit			
12	Bitumen supply system							
	Bitumen tank	Heating mode	Thermal oil					
12.1		Capacity	40000L	1	pcs			
		Attachments	Level gauge, thermometer, valve					
10.0	D': 1.1	Power	5.5kW		TT			
12.2	Bitumen circulation pump	Flow	$\geq 16 \text{m}^3/\text{h}$	1	Unit			
		Power	≥7.5kW					
12.3	Unloading pump	Flow	≥24.4m³/h	1	Unit			
_	Bitumen pump can realize bila	teral rotation, to acl	hieve the bitumen transpo	ort and				
	circulation; The Piping specifi	cation and quantity	of bitumen tank can be C	Optional				
	according to the actual production demand. If the bitumen tank is cancelled, the bitumen							
	pipeline from the tank to the circulating pump, the pipeline from the circulating pump to							
	the bitumen weighing drum, valves, relevant heat transfer oil pipelines and the pipeline							
12.10								
	from the heat transfer oil furnace to the tank shall be cancelled; The customer is required to provide a complete set of pipelines, valves, booster pumps from the tank to the							
	circulating pump, from the circulating pump to the bitumen weighing drum, and a							
	complete set of pipelines from				of			
	canceling the bitumen tank and							
		_	<i>y</i> , ,		U			
13	tank and oil unloading pump will be retained.							
	Fuel supply system	Capacity	100001					
13.1	Diesel tank and pipeline		10000L	1	set			
	1 1	Attachments	Valves, pipeline, etc.					
13.10	The specifications and quantities of diesel tanks and pipelines can be Optional according to actual production requirements. If the diesel tank is cancelled, the diesel pipeline, valve and other accessories will be cancelled. The customer needs to configure a full set of pipeline, valve and other accessories connecting the tank to the burner.							



No.	Content		Capacity	Q'ty	Unit
14	Heating system of conduction oil			3220	
	Thermal oil burner	Туре	Organic heat transfer		
14.1		Heating capacity	oil furnace 200 000kcal/h	1	set
14.1.1	Heat conduction oil furnace bu	1	Unit		
14.1.1.	Standard burner	Туре	Secondary flame control, automatic ignition, automatic shut down, flame monitoring and automatic fault alarm.	1	Unit
		Fuel	Diesel oil	-	
*14.1.1	Gas burner	Туре	Secondary flame control, automatic ignition, automatic shut down, flame monitoring and automatic fault alarm.	- 1	Unit
		Fuel	Natural gas(calorific value above 8600kcal/m³)		
		Gas supply pipe diameter	≥DN32		
		Supply gas pressure	3-20kPa		
		Nitrogen oxide emission concentration	≤120mg/Nm³		
		Max. gas consumption	28.7 m ³ /h		

No.	Content		Capacity	Q'ty	Unit			
*14.1.1	Dual-fuel burner	Туре	Secondary flame control, automatic ignition, automatic shut down, flame monitoring and automatic fault alarm.		Unit			
		Fuel	Light diesel, natural gas (calorific value above 8600kcal/m³)	1				
		Gas supply pipe diameter	≥DN32	-				
		Supply gas pressure	3-20kPa					
		Nitrogen oxide emission concentration	≤120mg/Nm³ (natural gas burning)	-				
		Maximum gas consumption	28.7 m ³ /h					
	Heat transfer oil furnace control system automatically monitors the temperature, pressure,							
	liquid level and other parameters and automatically control the furnace to work within the							
	set temperature range; the furnace comes with a low position shut down device, and the							
14.10	heating chamber comes with an insulating layer. According to the local environmental							
	protection requirements, the gas type heat-conducting oil furnace with nitrogen oxide							
	emission concentration ≤50mg/Nm³ or ≤80mg/Nm³ is optional and price calculation is required. If the tank is cancelled and the heat-conducting oil furnace is retained, only the							
	heat-conducting oil furnace is configured and the pipeline is made by the customer.							
15	Attached parts							
15.1	Attached tools		Wrench, socket, tool kits, etc.	1	set			
15.2	Attached spare parts		Solenoid valve, thermocouple, etc.	1	set			
15.3	Commissioning tools		Angle steel, etc.	1	set			