

XAP85 Asphalt Mixing Plant Specification





☆Basic specification

1 Rated productivity 80 t/h

2 Nominal mixing capacity 1000 kg/batch

3 Rated working condition:

Aggregate: \leq 32mm 100%

≤2mm 35% ≤0.09mm 10%

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 250 kW (whichever is the actual configuration)

7 Maximum single unit power 55 kW

8 Minimum installation area $702(27\text{m}\times26\text{m})\text{ m}^2$

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 ≤Ring elmann 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		Capacity	Q'ty	Unit
1	Cold feed system				
	Cold hopper	Single hopper capacity	7.5m ³		
1.1		Loading height	2.8m	4	ant
1.1	1 4 4 4 4 1	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		
		Speed	Frequency		set
	Dosing machine	adjustment	conversion control,		
		method	infinite speed		
1.2			regulation		
		Attachments	Anti-deviation block		
			idler and carrier roller		
		Belt Type No-inter	No-interface high-		
		Ben Type	strength circular belt		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

^{*} 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	90t / h		
1.3		Attachments	Belt tensioning device, sweeper, block idler	1	set

No.	Content		Capacity	Q'ty	Unit
1.3.1	Drive motor	Power	4kW	1	Unit
1.3.2	Belt	Туре	No-interface high- strength circular belt	1	set
		Width	550mm		
	Belt feeder	Conveying capacity	90t / h		
1.4		Attachments	Belt tensioning device, sweeper, block idler	1	set
1.4.1	Drive motor	Power	4kW	1	Unit
		Туре	No-interface high-		
1.4.2	Belt		strength circular belt	1	set
		Width	550mm		
1.4.3	Filter device		Reject big material(≥100mm)	1	set
The nun	nber of hopper can be selected ac	cording to actual de	emand		
2	Drying drum system	T			
	Drying drum	Drying capacity	90t / h (Standard cold mineral humidity ≤5%)		
2.1		Diameter	φ1.5m	1	set
		Length	7.1m		
2.2	Gear motor	Power	7.5kW(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		<u> </u>	1	set
	Standard burner	Fuel Output power	Heavy oil or diesel (See Annex 1) ≥6.5MW		
		Adjustment ratio	1: 10		
		Fuel pump power	≥1.5kW		
2.6.1		Fuel volume control	Variable frequency control of fuel pump	1	set
		Fan power	≥7.5kW		
		Air flow control	Frequency control and air door adjustment		
		Control mode	Manual and automatic control		
		Fuel	Natural gas(calorific value above 8600kcal/m³)		
		Output power	≥6.5MW		
		Adjustment ratio	1: 10		
		Fan power	≥11kW		
*		Air flow control	Frequency control and air door adjustment		
Option al 2.6.2	Gas burner	Control mode	Manual and automatic control	1	set
		Supply gas pressure	45-50kPa		
		Pipe diameter	≥DN65		
		Nitrogen oxide emission concentration	≤200mg/Nm³		
		Max. gas consumption	730Nm ³ /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		
		0.45.45.55	8600kcal/m³)		
		Output power	≥6.5MW		
		Adjustment ratio	1: 10		
		Fuel pump			
		power	≥1.5kW		
		Fuel volume	Variable frequency		
		control	control of fuel pump		
		Fan power	≥7.5kW		
		Air flow control	Frequency control		
			and air door		
			adjustment		
		Control mode	Manual and		
		g 1	automatic control		
		Supply gas	45-50kPa		
		pressure	\DN(5		
		Pipe diameter Nitrogen oxide	≥DN65		
		emission	≤200mg/Nm³ (natural		
		concentration	gas burning)		
		Maximum gas	_		
		consumption	730Nm ³ /h		
2.7	1.6		Easy to maintain		
2.7	Maintenance platform		burner	1	
Four whe	eels of drum is friction driv	en			
* 3	Dust collector system			SLICING	
3.1	Primary dust removal		Gravity dust collector	1	set
	-	Conveying capacity	25t / h		
3.11	Coarse filler spiral	Power	7.5kW	1	piece
		Туре	Filter bag		
3.2	Secondary dust removal	Filteration area	≥360m ²	1	set
		Filteration ability	36000m ³ /h		

No.	Con	tent	Capacity	Q'ty	Unit
3.2.1	Bag	Texture	Aramid fiber	1	sot
3.2.1	Dag	Density	$450g/m^2$	1	set
3.2.2	Counter-blow cylinder		Valve cylinder	1	set
3.2.3	Temperature measuring	equipment	measures the	1	set
3.2.3	Temperature measuring	ечиршен	temperature to	1	301
		T	protect the bag		
		Cold air door	Feedback control by		
3.3	Cold air door		temperature sensor	1	set
		Air cylinder	Valve cylinder		
*3.4	Waste filler mixer	Mixing capacity	30t/h	1	Unit
3.4	w uste filler fillizer	Power	11kW	1	Omt
3.5	Spiral below the silo	Power	5.5kW	1	piece
3.6	Ash discharge screw	Power	5.5kW	1	piece
		Type	Highly-efficient	1	Unit
3.7	Induced draft fan		centrifugal fan		
		Motor power	55kW	1	Unit
3	_		ennected to the controller; atrolling the emergency co	_	
3.1	Wet cyclone filter Exhaust fan power		75kW	1	set
3.1.1	Water pump	Water pump 1	2.2Kw	1	set
3.2	Screw conveyor	weet Pump 1	5.5Kw	1	set
3.2.1	Dust emission:		≤200mg/Nm ³	1	set
4	Hot mineral elevator		~200mg/11m		500
.	The inner of the factor	Structure	Single row wear-		
4.1	Elevator	Structure	resistant plate chain hopper type	1	set set
		I	1	1	



No.	Content		Capacity	Q'ty	Unit
		Lifting capacity	90t / h Anti-wear structure is		
		Wear-resistant structure	designed at the receiving and feeding chute		
4.1.1	Gear motor	Power Anti-reverse	15kW With anti-return device	1	Unit
5	Vibration screening system				
5.1	Vibrating screen	Type Screening capacity	Double vibration motor drive	1	set
		Screening area	11.6m ²		
5.1.1	Screen	Layer numbers 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, customized according to produ		maintenance; screen spec	rification	can be
6	Hot mineral storage system				
6.1	Silo	Structure Capacity	4 positions 10.9m 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	eess.		
7	Weighing and mixing system				
	Mixer	Mixing capacity Type	1000kg/batch Double horizontal		
7.1		Attachments	shaft forced mixing Additives and other expansion interfaces, recycled materials, and emergency stop device.	1	set
7.1.1	Gear motor	Power	18.5kW(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 1200kg Three points type	1	set
	Static measuring precision		weighing ±0.3%		

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



No.	Content		Capacity	Q'ty	Unit			
	Mixer adopts double horizonta	al shaft forced mixin	ng with low speed gear sy	nchroniz	ation;			
	The "cumulative" incremental measurement and unique expert database intelligent weighing							
	technology ensures high precision weighing, with axial discharge through the cylinder							
	driven material door;							
	Filler is measured incrementa	lly, and the filler is	s discharged into the scr	ew conv	eyor by			
5 10	controlling the pneumatic butt	erfly valve, and at l	ast spread into the mixer.					
7.10	The bitumen adopts incremen	tal metering and"se	econdary weighing" techi	nology to	ensure			
	the accurate bitumen-mineral	ratio of finished ma	terials.					
	The mineral measuring hoppe	er, hot mineral silo	and mixing main buildir	ng are co	nnected			
	with the forced negative pres	sure system, preve	nting the dust from esca	aping du	ring the			
	weighing and mixing process	and isolating the pre	essure disturbance to ensu	ıre meası	ırement			
	accuracy.							
8	Filler supply system							
	Minaral filloni -l-i	Conveying	10t / h					
8.1	Mineral filler weighing	capacity	10t / n	1	pcs			
	spiral	Power	7.5kW					
9	Main tower leg							
	Main tower leg	Structure	Independent high					
			strength steel					
			structure					
9.1	SCHOOL ST.	Traffic Height	3.8m	1	set			
9.1		Traffic width	4.5m		Set			
		Fixation	Pre-embedded steel					
		<u>-</u>		plate welding fixed				
	H A A							
10	Gas circuit system	T	T	I				
		Type	Screw-type air					
10.1	Air compressor		compressor	1	Unit			
	1	Capacity	3.3m³/min					
		Power	22kW					
			Quick-plug					
			connector, hose, three					
10.2	Pneumatic components		pneumatic	1	set			
			components, joints,					
	~ .		etc.					
11	Control system		DI C. DC					
	Control system	Control mode	PLC+PC, all					
	10.7集团	Community of	computer control					
11.1	回線工集团	Communication	Ethernet or Industrial	1	set			
		Power	field bus					
			380V/220V (±5%),					
	Tower		50Hz, 3 phase 4 lines					



No.	Content		Capacity	Q'ty	Unit
		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.		
11.2	Control room	Туре	Container control room, modular	1	set
		Area	9m ²		
11.2.1	Air conditioner		1P	1	Unit
	PLC Contactor				
11.2	Circuit breaker			1	
11.3	Relay			1	set
	Emergency stop switch				
	Proximity switch				
	Travel switch				
11.10	Each motor operation method or semi-automatic production, excess protection, input autom computer can control the mixin program control, ignition, safe Bitumen supply system	real-time carry-ove atic calibration, dat ng in real time; as fo	er automatic compensatio a storage and output prin or burner control, it has P	n, bitume ting; the LC autor	en
	_ italien suppij system	Heating mode			
	Bitumen tank	neating mote	Thermal oil		
12.1		Capacity	30000L	1	pcs
		Attachments	Level gauge, thermometer, valve		
12.2	Bitumen circulation pump	Power	5.5kW	1	Unit
12.2	Zitamon on outlandin pump	Flow	$\geq 16 \text{m}^3/\text{h}$	•	Jiiit

No.	Content		Capacity	Q'ty	Unit			
12.3	Unloading numn	Power	≥7.5kW	1	Unit			
12.5	Unloading pump	Flow	≥24.4m ³ /h	1	Ullit			
*13	Bitumen pump can realize bilateral rotation, to achieve the bitumen transport and circulation; The Piping specification and quantity of bitumen tank can be 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 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 the heat transfer oil furnace to the tank. On the basis of canceling the bitumen tank and retaining the oil unloading tank, only the oil unloading tank and oil unloading pump will be retained.							
13.1	Diesel tank and pipeline	Capacity	10000L	1	set			
10.1	2 reser turns and present	Attachments	Valves, pipeline, etc.					
13.10	The specifications and quantition to actual production requirements and other accessories will be compipeline, valve and other accessories.	ents. If the diesel tar cancelled. The custo	nk is cancelled, the diesel mer needs to configure a	pipeline	, valve			
14	11 /							
	Heating system of conduction oil							
	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	ırner		1	Unit			



No.	Content		Capacity	Q'ty	Unit
14.1.1.	Standard burner	Type	Secondary flame control, automatic ignition, automatic shut down, flame monitoring and automatic fault alarm. Diesel oil	1	Unit
*14.1.1	Gas burner	Туре	Secondary flame control, automatic ignition, automatic shut down, flame monitoring and automatic fault alarm.	1	Unit
		Fuel Gas supply pipe	Natural gas(calorific value above 8600kcal/m³) ≥DN32		
		diameter Supply gas pressure	3-20kPa		
		Nitrogen oxide emission concentration	≤120mg/Nm³		
		Max. gas consumption	28.7 m ³ /h		
*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		



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No.	Content	Capacity	Q'ty	Unit		
14.10	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					
	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	1	set		
		kits, etc.				
15.2	Attached spare parts	Solenoid valve,	1	set		
		thermocouple, etc.				
15.3	Commissioning tools	Angle steel, etc.	1	set		