

Amomatic VS 98030 Drying drum and Mixer tower

Drying Drum

Drum

Main information:

Drum diameter	2350 mm
Casing length	9000 mm
Production capacity:	
- aggregate temperature increase	Δt 150°C
- aggregate specific weight	1.6 tons/m ³
- by aggregate humidity	
5%	190 tons/h
7%	168 tons/h

Technical specification:

Drum shell material	heat resistant steel
Shell material thickness	10 mm
Sealing of drum burner end	labyrinth seal
Sealing of drum rear end	special rubber seal
Shell thermal insulation	50 mm
Drum cladding	galvanized sheet metal
Drive rollers	4 pcs dia. 470 mm
Thrust rollers	2 pcs
Motor outputs	4 x 15.0 kW
Drum rotating speed	adjustable 5.6 – 9.6 r/min
Drum inclination	4°
Aggregate temperature sensor	fast type thermocouple
Thermocouple protection	Amomatic Antiwear

Outfit:

- special lifting frame
- service platform
- handrails
- stairs
- exhaust duct fastening by means of quick connection
- hinged legs

Special features:

The drying drum thermal economy can be controlled by adjusting the rotation speed

by inverter. Altering the number of lifting paddles is also possible, but normally not needed. The lifting paddles are bolt mounted and interchangeable. Within the flame area the drum is equipped with special paddles, which protect the casing and at the same time convey the radiation heat to the aggregate.

The lifting paddles are designed and fastened in such a way that the drum casing wear is minimal. In addition, there are baffle plates attached to the inside wall of the shell to reduce the wearing effect of the aggregate.

The thermocouple used for aggregate temperature measurement has a special protection for long life. The thermocouple is fast operating and not sensitive for dust.

Mixer Tower

Screening Module

Main information:

Type	single shaft, freely vibrating
Construction	fully enclosed, dustproof
Number of aggregate fractions	4
Screen area	21.7 m ²

Technical specification:

Drive motor	7.5 kW
Power transmission	V-belt drive
Screening capacity	190 tons/h
Proportion of fines fraction	< 40 %

Outfit:

- lifting brackets
- service hatches and doors
- hinged service platforms
- handrails

3.5.2 Hot Aggregate Bin Module

Main information:

Number of bins	4 pcs
Total volume	25 m ³

Technical specification:

Pneumatic cylinders	4 pcs, dia. 100 mm
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Continuous operation level indicators 4 pcs

Outfit:

- lifting brackets
- overflow pipes
- hinged service platforms
- handrails

Special features:

For best dosing accuracy the discharge gate for fines fraction closes in two steps.

For improved wear properties, the inclined surfaces of the bins are made of hard wearing steel and in addition, they are equipped with baffle plates which reduce the wearing effect of the aggregate.

3.5.3 Mixer Module

Main information:

Mixer type	twin shaft paddle mixer
Batch size	4000 kg
Aggregate scale capacity	4000 kg
Insulated bitumen weighing tank capacity	300 kg
Filler scale capacity	600 kg

Technical specification:

Mixer motor	110 kW
Mixer rotation speed	42 r/min
Number of binder closing valves	12 pcs
Bitumen dosing pump capacity	500 litres/min
Dosing pump motor	11 kW
Bitumen circulation pump capacity	500 litres/min
Bitumen circulation pump motor	11 kW

Outfit:

- lifting brackets
- hinged service platforms
- hand rails
- stairs
- hinged legs

Special features:

For reliable operation, the bitumen dosing pump, valves and the dosing pipes are heated by means of electric heaters.

The mixer walls are protected with easily replaceable wear plates, the shafts and arms with wear protection and the mixer paddles have a wear reducing wafer surface. Access to the mixer for maintenance is via hinged side walls.

The aggregate scale is fully enclosed and dustproof with two pneumatically operated gates for fast discharge into the mixer. The scale hopper is supported by four weighing cells. The hopper is ventilated via the hot aggregate bin compartment and the screening module.

The filler scale is fully enclosed and dustproof, and equipped with a discharge gate of special design. The filler scale hopper is supported by three weighing cells.

The bitumen weighing tank is fully enclosed and insulated, and equipped with an electric heating system. The weighing tank is supported by three weighing cells. The bitumen pump, valves and the appropriate piping are all electrically heated.