



StarMix 3000

Modular Asphalt Batch Plant



Quality Engineered
Excellence Since 1911

StarMix 3000 - 240tph

The StarMix range embodies all that is the very best in asphalt plant design, meeting all the criteria for a high performance, aesthetically pleasing plant. The quality of engineering is focussed on all aspects of the plants operation, aimed at maximizing production, increasing running reliability and minimizing maintenance cost. StarMix Range are also available with very high capacity hot mixed material storage facilities as well as sheeting options making the plant extremely eco-friendly.

Aggregate Feed Unit, Belt Feeders & Collecting Conveyor



Robust, modular cold feed unit offering a wide choice of size, number and configuration with highly accurate AC variable speed inverter controlled direct drive motor/gear units.

Aggregate Dryer



Easily transported aggregate dryer with advanced design of internal lifters optimizing thermal efficiency for maximum heat transfer. Choice of multi-fuel burners. Nylon support & thrust rollers reduce wear, vibration and noise.

Mixing Tower / Screen, Hot Storage, Weigh Gear + Paddle Mixer



Note: Bag Filter Specification listed separated

Quick erect, modular tower; heavy duty aggregate screen with-in a fully sealed dust housing; access stairways and platforms for maintenance at all levels; load cell mounted batch weigh hoppers for aggregate, bitumen & Filler. Twin shaft, direct gear/motor drive high efficiency paddle mixer, hard wearing replaceable abrasive resistant liner plates, paddle arms and tips. Discharge to truck or mixed material storage facility.

Dependant on location the StarMix range is available as standard with bag filter and fan unit for secondary dust collection achieving less than 20mg/m³.

Control system - insulated & clad control cabin with a range of advanced control options from keypad to PC based, fully automatic systems, with fully programmable recipe storage.

Specification

	Units	
Cold Feed		
Hopper Capacity (heaped)	m ³	11.5
Hopper Loading Width	m	3.5
Belt Feeder Length	m	1.8
Belt Width	mm	600
Belt Feeder Drive	kW	3.0
Vibrator Fitted to Sand Hopper		YES
Collecting Conveyor Width	mm	750
Collecting Conveyor Drive	kW	5.5
Aggregate Dryer		
Dryer Drum Diameter	m	2.5
Dryer Drum Length	m	9.0
Dryer Drive (friction)	kW	4 x 22.0
Dryer Capacity	t/h	260
Air Volume		
Dryer	m ³ /h	80,835
Nuisance and Silo Vent	m ³ /h	12,623
Total	m ³ /h	93,458
Hot Stone Elevator, Screen & Mixing Section		
Elevator Capacity	t/h	260
Drive	kW	30.0
Screen Decks	No.	4, 5 or 6
Screen Length	m	4.0
Screen Width	m	2.2
Screen Drive	kW	2 x 18.5
Hot Storage Capacity	t	60
Hot Storage Bins	No.	4, 5 or 6
Aggregate Weigh Hopper Capacity	kg	3,250
Bitumen Weigh Hopper Capacity	kg	550
Filler Weigh Hopper Capacity	kg	650
Paddle Mixer Capacity	kg	3,250
Paddle Mixer Drive	kW	2 x 37.0

Asphalt Plant Options:

- Mixed material storage system, inclined or high level horizontal
- Bitumen systems with either electric, thermal oil or direct oil fired heating
- Various fuel options for burners
- Imported or reclaimed filler storage silos
- Heavy oil pre heaters
- Recycled asphalt pavement options; (RAP)
- Fibre additive systems
- Additional aggregate cold feed bins
- Insulation and cladding on dryer drum and hot storage hoppers
- Screen decks and number of hot stone storage hoppers
- External sheeting options

NOTE: Details of the above refer to a standard plant configuration designed to produce up to 240t tonnes/hour with the mineral feed containing 3% moisture content, 0.5% residual moisture content of mixed materials, dryer discharge temperature of 160°C, ambient temperature 15°C at altitude 150m above sea level, aggregate bulk density average 1600kg/m³, 5% bitumen content, 3% Filler, 45 second weigh/mix cycle at 100% plant utilisation.

OPERATING CONDITIONS: Accurately graded good quality aggregates (not porous or flaky), with feed rate matched to recipe proportions, and 100% utilisation. Mix recipe not containing excessive proportions of any one size. Residual Moisture = 0.5% - Fuel Oil Calorific Value = 45.2MJ/kg - Bulk Density (kg/m³): Aggregate = 1600, Filler = 1120, Mixed Product = 1800

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