Parker
PLANT LIMITED

Mobile Drum-Mix Plant









DrumStar 75 / 100 / 150 / 200

Quality Engineered
Excellence Since 1911

DrumStar 75 / 100 / 150 / 200

Mobile Drum-Mix Plant

The Parker DrumStar range of continuous asphalt mixing plants offer an economical and highly portable alternative to batch mixing plants for use in approved locations. Contractors enjoy quick site relocation with total mobility while retaining the ability to maintain high levels of quality asphalt production.

A choice of capacities includes 75, 100, 150 and 200 tph and the chassis of the two smaller models is designed to be unbolted for transport across the world within standard containers.

Each plant has the options of either bag filter or wet collector dust control depending on the restrictions of the contract and its location. The plant can be supplied complete with mobile or static bitumen tanks and all associated pipe work and pumps as well as reclaimed or imported filler storage silos.







Cold Feed

Road towable, multi-hopper, cold feed unit with built in collecting conveyor and dryer feed conveyor with roll out scalping screen. Direct drive geared motor units give high reliability. Accurate variable speed control via AC motor and inverter.



Drum Mix

The dryer drum features a unique lifting pattern to cascade the material through the hot air stream. Bitumen and fillers are added at the drum discharge end. Steel support rollers are provided to allow for sudden plant stops.



Drag Slat Conveyor

Mixed material is transferred by the drag slat for direct lorry loading. A 3 tonne batch hopper with pneumatic rotary door allows sufficient time for trucks to transition.



Controls

Comprehensive key-pad PLC controls with full alarm diagnosis can be either plant mounted or optionally cabin installed.

Product Range



DrumStar 75 - 75tph

Mixing chassis shown with integral wet filtration system, can be unbolted for transport in containers.



DrumStar 100 - 100tph

Mixing chassis bolted similarly to the smaller 75 model for containerised shipment, shown here with full fabric filter dust control.



DrumStar 150 - 150tph

2, 3 or 4 hopper cold feed units available mounted on towable structures.



DrumStar 200 - 200tph

Continuous production rates up to 200tph coupled with total mobility.

Technical Specifications

	Units	DS75	DS100	DS150	DS200
Plant Capacity					
Output*	tph	75	100	150	200
Cold Feed					
Hopper Capacity (heaped)	m^3	10.0	10.0	14.0	14.0
Hopper Loading Width	m	3.0	3.0	3.5	3.5
Belt Feeder Length	m	1.7	1.7	1.7	1.7
Belt Width	mm	500	500	650	650
Belt Feeder Drive	kW	2.2	2.2	3.0	3.0
Vibrator Fitted to Sand Hopper		YES	YES	YES	YES
Collecting Conveyor Width	mm	650	650	650	650
Collecting Conveyor Drive	kW	4.0	4.0	5.5	5.5
Scalping Screen Size	mm	800 x 1200	800 x 1200	1000 x 1200	1000 x 1200
Scalping Screen Drive	Watt	2 x 300	2 x 300	2 x 300	2 x 300
Aggregate Dryer					
Slinger Conveyor Width	mm	500	500	650	650
Slinger Conveyor Drive	kW	3.0	3.0	4.0	4.0
Dryer Drum Diameter	m	1.4	1.6	1.8	2.0
Dryer Drum Length	m	7.0	8.0	9.0	10.0
Dryer Drive	kW	4 x 5.5	4 x 7.5	4 x 11.0	4 x 15.0
Air Volume					
Total	m^3/h	22,500	30,000	45,000	60,000
Burner					
Burner Type		PB1A	TJ02	TJ03	TJ03
Capacity	l/hr	727	954	1680	1680
Drag Slat Conveyor					
Slat Width	mm	400	400	500	500
Capacity	tph	90	120	170	220
Drag Slat Drive	kW	7.5	11.0	18.5	22.0
Batch Hopper Size	t	3.0	3.0	3.0	3.0
Bag Filter / Wet Collector					
Filter Area	Sq/m	260	347	527	702
Filter Velocity	m/min	1.44	1.44	1.4	1.4
Filter Exhaust Fan	kW	30.0	45.0	75.0	90.0
(Option) Venturi Wet Collector Fan	kW	55.0	75.0	N/A	N/A

*Plant capacity is based on 3% moisture content of feed aggregate with 0.5% residual moisture content of mixed materials, drum mix discharge temperature of 150°C, ambient temperature 15°C at altitude 150m above sea level, aggregate bulk density average 1600kg/m^3, 5% bitumen content, 100% plant utilisation.

Note: Option of dust filter or wet collector.

Benefits

- Fully mobile road towable units
- Minimum foundations required
- Fast on-site erection
- Factory pre-wired & fully tested
- Inverter controlled exhaust fan
- Dust emissions less than 20mg/Nm^3

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