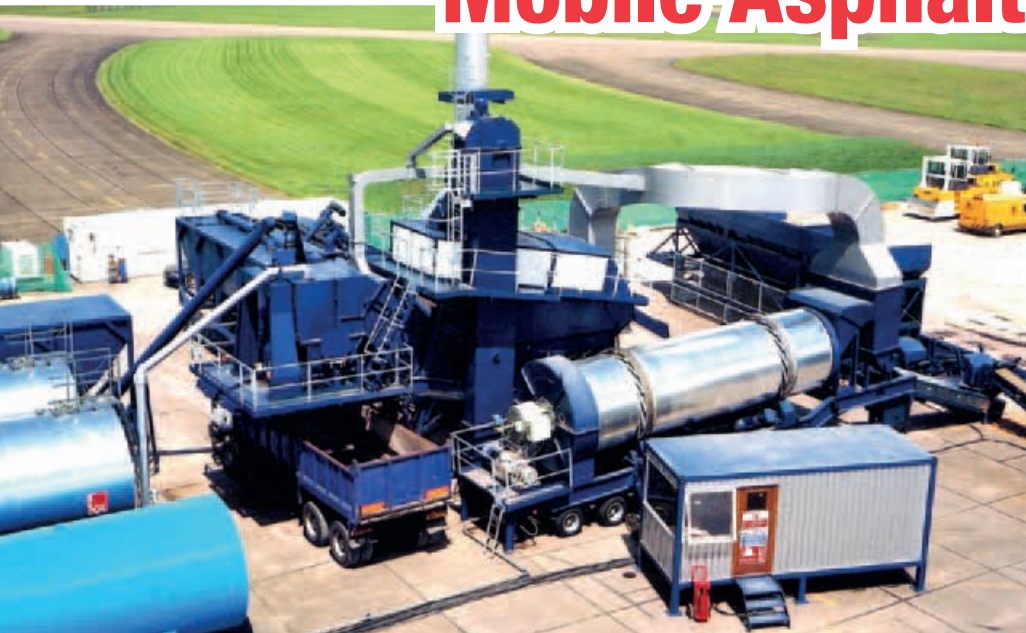




Mobile Asphalt Batch Plant



RoadStar 1500 / 2000 / 3000





RoadStar 1500 / 2000 / 3000

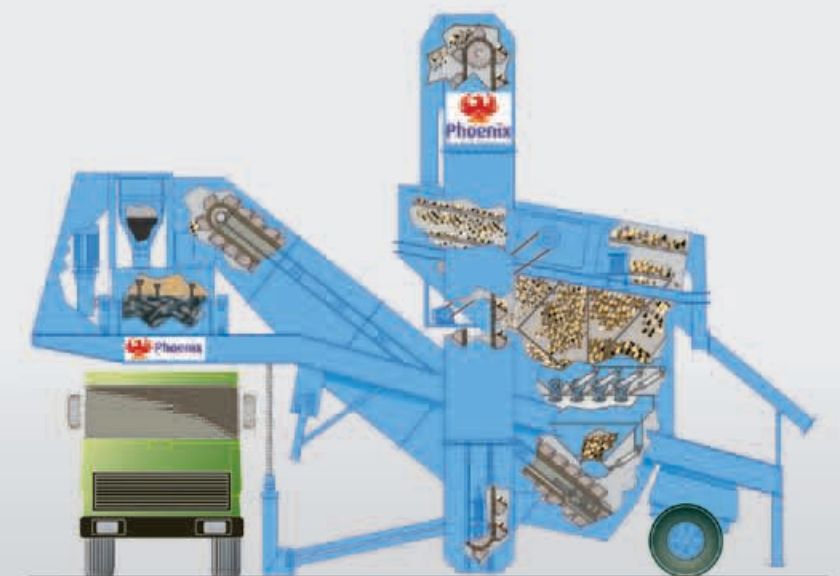
Mobile Asphalt Batch Plant

The Phoenix RoadStar combines quality and mobility to provide one of the most reliable and easily transported asphalt mixing plants available anywhere in the world.

Designed to satisfy the needs of contractors who demand nothing less than the best quality asphalt which is within specification at all times, the Phoenix RoadStar is the ideal solution for major road and motorway construction projects.

Requiring minimal foundations the RoadStar has been a particular favourite for many international airport surfacing contracts across the world.

The three main units of the plant - cold feed, dryer and mixing sections - are fully mobile and on arrival at site can be brought quickly into operation. Their field proven design offers high reliability with low maintenance.



Material flow for a RoadStar 1500.

Product Range



RoadStar 1500 - 120tph

By far the most popular machine in the range, with a capacity of 120tph.



RoadStar 2000 - 160tph

Producing up to 160tph, the RoadStar 2000 has proven its ability to deliver high specification mixes on many airports contracts worldwide.



RoadStar 3000 - 240tph

Able to deliver up to 240tph, the RoadStar 3000 is the model of choice for larger production contracts.



Cold Feed

Multi-hopper, road mobile cold feed unit with built in collecting conveyor and dryer feed conveyor. Direct drive geared motor units give high reliability. Accurate variable speed control via AC motor and inverter.



Aggregate Dryer

Road mobile unit with high efficiency internal lifter design, optional insulated and clad drum. Integrated primary dust cyclones and highly efficient burner all on one chassis.



Mixing Section

Low-level, mobile unit with integral vertical hot elevator, which fold down for travelling. Heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler; all load-cell mounted. Fully synchronised twin shaft direct geared paddle mixer.

Technical Specifications

	Units	RS1500	RS2000	RS3000
Plant Capacity				
Output*	tph	120	160	240
Cold Feed				
Hopper Capacity (heaped)	m³	10.0	10.0	12.0
Hopper Loading Width	m	3.0	3.0	3.5
Belt Feeder Length	m	1.7	1.7	1.7
Belt Width	mm	500	500	650
Belt Feeder Drive	kW	2.2	2.2	3.0
Vibrator Fitted to Sand Hopper		YES	YES	YES
Collecting Conveyor Width	mm	500	650	650
Collecting Conveyor Drive	kW	5.5	5.5	7.5
Aggregate Dryer				
Dryer Drum Diameter	m	1.8	2.2	2.5
Dryer Drum Length	m	7.0	8.0	9.0
Dryer Drive	kW	30.0	4 x 15.0	4 x 22.0
Dryer Capacity	tph	140	180	260
Air Volume				
Dryer	m³/h	41,885	62600	80,760
Mixing Section Including Filler Silo	m³/h	9,550	9,990	12,600
Total	m³/h	51,435	72,590	93,360
Hot Stone Elevator, Screen & Mixing Section				
Elevator Capacity	tph	130	170	240
Elevator Drive	kW	7.5	11.0	15.0
Screen Decks	No.	2 (4 size + rejects)	2 (4 size + rejects)	2 (4 size + rejects)
Screen Length	m	4.0	5.0	6.0
Screen Width	m	1.5	1.8	2.1
Screen Drive	kW	7.5	11.0	18.5
Hot Storage Capacity	t	12	17.7	28
Hot Storage Bins	No.	4	4	4
Batch Elevator Capacity	tph	130	170	240
Batch Elevator Drive	kW	7.5	7.5	15.0
Aggregate Weigh Hopper Capacity	kg	1500	2000	3000
Bitumen Weigh Hopper Capacity	kg	290	300	480
Filler Weigh Hopper Capacity	kg	320	350	630
Paddle Mixer Capacity	kg	1500	2000	3000
Paddle Mixer Drive	kW	2 x 18.5	2 x 22.0	2 x 37.0

*Plant capacity is based on 3% moisture content of feed aggregate with 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, 45 second weigh/mix cycle at 100% plant utilisation.

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/Nm³

DEALER STAMP

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