

RoadStar 500 / 1000

Mobile Asphalt Batch Plant



Quality Engineered
Excellence Since 1911

Mobile Asphalt Batch Plant

The Parker RoadStar range has been designed to satisfy asphalt producers worldwide for whom the ability to produce high quality mix coupled with unparalleled mobility is a high priority.

The RoadStar 500 and 1000 models start the range with outputs up to 40 and 80 tph respectively. Both models share the same design concept based on two main chassis. Four independent feed hoppers, dryer and automatic burner are mounted on one chassis while the other carries the vertical elevator, screening, weighing and mixing tower, control cabin, primary cyclones and secondary bag filter.

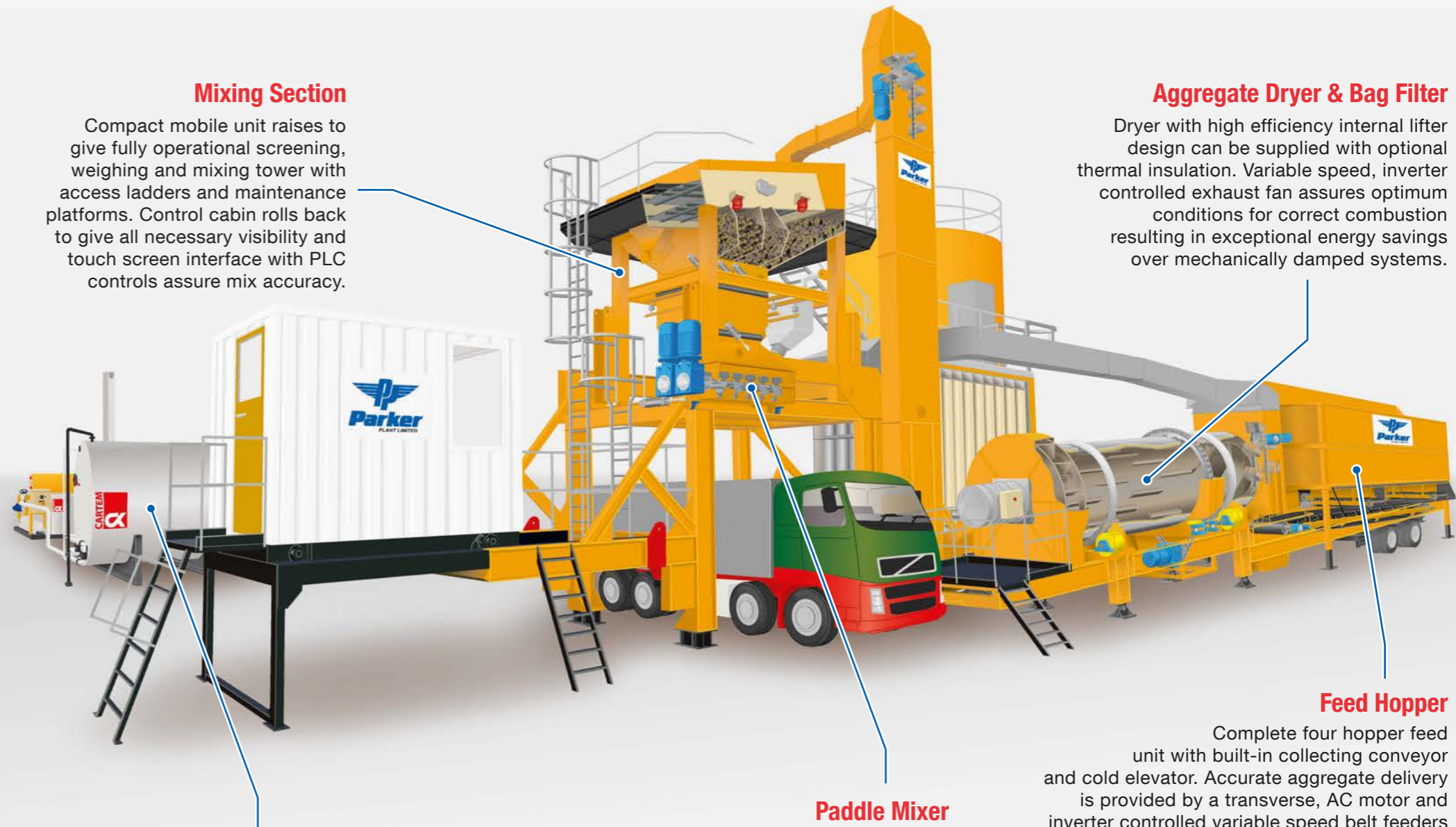
Installation and erection of the main components is achievable in four hours and with the addition of a bitumen tank and reclaimed filler silo the plant can be put into full production within a day of arrival on site



Mobile cold feed unit, dryer and burner



Mobile control cabin, mixing section including primary and secondary dust



Mixing Section

Compact mobile unit raises to give fully operational screening, weighing and mixing tower with access ladders and maintenance platforms. Control cabin rolls back to give all necessary visibility and touch screen interface with PLC controls assure mix accuracy.

Aggregate Dryer & Bag Filter

Dryer with high efficiency internal lifter design can be supplied with optional thermal insulation. Variable speed, inverter controlled exhaust fan assures optimum conditions for correct combustion resulting in exceptional energy savings over mechanically damped systems.

Feed Hopper

Complete four hopper feed unit with built-in collecting conveyor and cold elevator. Accurate aggregate delivery is provided by a transverse, AC motor and inverter controlled variable speed belt feeders that retract to reduce transport width.

Paddle Mixer

Fully synchronised twin shaft, direct geared motor drive paddle mixer. Hard wearing abrasion resistant liner plates, paddle arms and tips. Full height discharge into truck or mixed material storage facility.

Bitumen Tanks

Mobile or transportable, fully lagged and heated bitumen storage tanks in sizes to suit various applications are available. Heating can be either by hot-oil circulation, fully electric or direct oil-fired with interconnecting pipework oil jacketed or electric trace heated.

Set-up Procedure



Transportation to site

Designed with total mobility in mind, each chassis can be transported from site to site easily and rapidly put back into operation.



Foundations & Stability

Minimum foundations are required for installation as each unit has landing legs with support bases to ensure adequate stability.



Unique Cold Feed Unit

Set-up involves raising the spillage plates and rolling out the belt feeders. Once secured they can feed onto the collecting conveyor.



Hot Stone Elevator

The entire mixing section is raised into position by crane and the hot stone elevator rotated into the vertical position. Optional hydraulics are available to raise the mixing tower.



Dust Filtration

Primary and secondary dust control is included on the mixing section chassis. Parker bag filters are guaranteed to achieve less than 20mg/Nm³.



Control Cabin

The control cabin support frame is lowered and the cabin is rolled out to provide better visibility. Hand railing is assembled to provide access.

Technical Specifications

	Units	RS500	RS1000
Plant Capacity			
Output*	tph	40	80
Cold Feed			
Hopper Capacity (heaped)	m ³	4.0	5.0
Hopper Loading Width	m	2.6	3.0
Belt Feeder Centers	mm	1200	1200
Belt Width	mm	500	500
Belt Feeder Drive	kW	2.2	2.2
Vibrator Fitted to Sand Hopper		YES	YES
Collecting Conveyor Width	mm	500	500
Collecting Conveyor Drive	kW	2.2	2.2
Aggregate Dryer			
Dryer Drum Diameter	m	1.3	1.5
Dryer Drum Length	m	5.5	6.5
Dryer Drive	kW	15.0	22.0
Dryer Capacity	tph	40	80
Air Volume			
Dryer	m ³ /h	11,200	22,400
Mixing Section	m ³ /h	3,740	6,100
Total	m ³ /h	14,940	28,500
Hot Stone Elevator, Screen & Mixing Section			
Elevator Capacity	tph	50	90
Elevator Drive	kW	4.0	7.5
Screen Decks	No.	2 (4 size + rejects)	2 (4 size + rejects)
Screen Length	m	2.2	3.0
Screen Width	m	1.2	1.5
Screen Drive	kW	4.0	7.5
Hot Storage Capacity	t	4	8
Hot Storage Bins	No.	4	4
Aggregate Weigh Hopper Capacity	kg	500	1000
Bitumen Weigh Hopper Capacity	kg	80	200
Filler Weigh Hopper Capacity	kg	120	200
Paddle Mixer Capacity	kg	500	1000
Paddle Mixer Drive	kW	2 x 7.5	2 x 11.0

*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.

Optional Asphalt Ancillary

Mobile Bitumen Storage



Mobile Filler Silo



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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