

# RoadStar 1000



## 80tph Mobile Asphalt Plant

RoadStar 1000 is a highly efficient mobile asphalt mixing plant capable of producing a wide range of mixes to world standards. The two main units of the plant – cold feed with dryer and mixing section – are all road towable, and on arrival on site can be brought quickly into operation. Mixing section can be equipped with hydraulic jacks.

### COLD FEED

#### Hoppers

Hopper Capacity 5 m<sup>3</sup> heaped  
Hopper loading width 3 m

#### Belt Feeders

Length 1.2 m  
Width 500 mm  
Drive 2.2 kW  
Capacity 80 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting conveyor

Width 500 mm  
Drive 2.2 kW

#### Cold Feed Elevator

Capacity 90 tonnes/hour  
Drive 5.5 kW

Travelling Width 2.5 m  
Travelling Length 16 m

### AGGREGATE DRYER

Drum Diameter 1.5 m  
Drum Length 6.5 m  
Dryer Drive 22 kW  
Dryer Capacity 80 tonnes/hour

#### Air Volume

Dryer m<sup>3</sup>/hour 22,400  
Mixing Section 6,100  
Total 28,500

Travelling Width 2.5 m  
Travelling Length 16 m



### Mobile Cold Feed/Aggregate Dryer

Compact road towable cold feed unit with built in collecting conveyor and short dryer feed elevator. Belt feeders can be rolled inwards and hoppers folded for travelling. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter. Aggregate dryer features high efficiency internal lifter design.



### Mobile Screening/Weigh/Mixing Section

Compact, low level, towable unit with integral vertical elevator, which folds down for travelling. Heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, all load cell mounted.

### Features

- Unique two chassis design
- Fully mobile road towable units
- Minimum foundations
- Fast on-site erection
- Factory pre-wired & fully tested
- Inverter controlled exhaust fan



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 43 seconds weigh/mix cycle at 100% plant utilization.

Due to our policy of continual product development, changes to specification and data may occur without prior notice. Illustrations may show optional equipment.

MOBILE

# RoadStar 1000



## MIXING SECTION

### Hot Stone Elevator

Elevator Capacity	90 tonnes/hour
Drive	7.5 kW

### Screen

Decks	2 (4 sizes + rejects)
Length	3.0 m
Width	1.5 m
Drive	7.5 kW

### Hot Storage Hoppers

No of Hoppers	4
Capacity	8 tonnes

### Paddle Mixer

Batch Capacity	1000 kg
Drive	2 x 11 kW

### Weigh Hopper Capacities

Aggregate	1000 kg
Filler	200 kg
Bitumen	200 kg



Fully synchronised twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Discharge into truck or storage facility.

Highly efficient chassis mounted bag filter with fan unit, for secondary dust collection (optional).

Control system – insulated and clad cabin with range of control options from key pad to PC-based, fully automatic systems.



MOBILE



01530  
262266  
262948

Leicester  
Heavy  
Haulage

Phoentix

















# RoadStar 1500

## 120tph Mobile Asphalt Plant



RoadStar is a range of highly efficient low profile mobile asphalt mixing plants capable of producing a wide range of mixes to world standards. The three main units of the plant – cold feed, dryer and mixing sections – are all road towable, and on arrival on site can be brought quickly into operation.

### COLD FEED

#### Hoppers

Hopper Capacity 10 m<sup>3</sup> heaped  
Hopper loading width 3 m

#### Belt Feeders

Length 1.7 m  
Width 500 mm  
Drive 2.2 kW  
Capacity 120 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 500 mm  
Drive 5.5 kW

Travelling Width 2.5 m  
Travelling Length 17 m  
Travelling Height 3.9 m



### Mobile Cold Feed

Compact road towable cold feed unit and dryer with integral collecting/ dryer feed conveyor. Variable speed, AC inverter controlled, direct motorgear drives with 20:1 turndown ratio give accurate aggregate feed control and enhanced reliability

### AGGREGATE DRYER

Drum Diameter 1.8 m  
Drum Length 7.0 m  
Dryer Drive 30 kW  
Dryer Capacity 120 tonnes/hour

#### Air Volume m<sup>3</sup>/hour

Dryer 41,885  
Mixing Section 7,850  
Total 49,735

Travelling Width 2.9 m  
Travelling Length 13.37 m  
Travelling Height 4.25 m



### Mobile Aggregate Dryer

Fully mobile unit with internal lifters designed for optimum thermal heat transfer. 85% efficient, chassis mounted cast-iron multi-cyclones returning coarse dust to mix via integral screws. Nylon main and thrust rollers supporting the dryer reduce wear, vibration and noise.

### Features

- Fully mobile road towable units
- Minimum foundations

- Dust filter emissions less than 20mg/Nm<sup>3</sup>
- Factory pre-wired & fully tested
- Inverter controlled exhaust fan
- Fast on-site erection



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

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MOBILE

# RoadStar 1500



## MIXING SECTION

### Hot Stone Elevator

Elevator Capacity	130 tonnes/hour
Drive	7.5 kW

### Screen

Decks	2 (4 sizes + rejects)
Length	4.0 m
Width	1.5 m
Drive	7.5 kW

### Hot Storage Hoppers

No of Hoppers	4
Capacity	12 tonnes

### Batch Elevator

Capacity	170 tonnes/hour
Drive	7.5 kW

### Paddle Mixer

Batch Capacity	1500 kg
Drive	2 x 18.5 kW

### Weigh Hopper Capacities

Aggregate	1500 kg
Filler	320 kg
Bitumen	295 kg

Travelling Width	2.9 m
Travelling Length	11.2 m
Travelling Height	4.9 m

## Mobile Mixing Section

Compact, low-level, towable unit with integral vertical elevator, which folds down for travelling. Heavy duty screen with fully sealed dust housing. Load-cell mounted batch weigh hoppers for aggregate, bitumen and filler.



Fully synchronised twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing replaceable abrasive resistant liner plates, paddle arms and tips. Discharge into truck or storage facility.

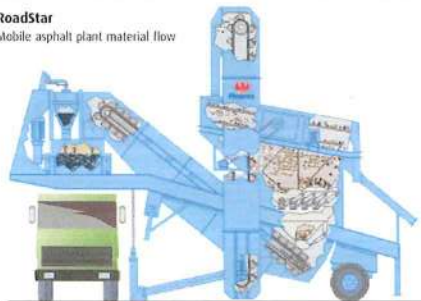
### Control system

Fully insulated and air-conditioned control cabin with range of control options from key pad to PC-based, fully automatic systems.



### RoadStar

Mobile asphalt plant material flow



MOBILE









Leicestershire  
Heavy Haulage

03030  
20000  
20000







Leicestershire  
ERF

L3 LHH

Leicestershire  
Heavy  
Haulage

01530  
2522966

Fax  
2525448

Phoenix  
Skips











# RoadStar 2000

## 160tph Mobile Asphalt Plant



RoadStar is a range of highly efficient low profile mobile asphalt mixing plants capable of producing a wide range of mixes to world standards. The three main units of the plant – cold feed, dryer and mixing sections – are all road towable, and on arrival on site can be brought quickly into operation.

### COLD FEED

#### Hoppers

Hopper Capacity 10 m<sup>3</sup> heaped  
Hopper loading width 3 m

#### Belt Feeders

Length 1.7 m  
Width 650 mm  
Drive 2.2 kW  
Capacity 155 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 650 mm  
Drive 5.5 kW

Travelling Width 2.5 m  
Travelling Length 17 m  
Travelling Height 3.9 m

### AGGREGATE DRYER

Drum Diameter 2.2 m  
Drum Length 8.0 m  
Friction Drive 4 x 15 kW  
Dryer Capacity 180 tonnes/hour

#### Air Volume m<sup>3</sup>/hour

Dryer 62,560  
Mixing Section 10,030  
Total 72,590

Travelling Width 2.9 m  
Travelling Length 12.6 m  
Travelling Height 4.3 m



### Mobile Cold Feed

Compact road towable cold feed unit with built-in combined collecting/dryer feed conveyor. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter.



### Mobile Aggregate Dryer

Road towable unit with high efficiency internal lifter design. Optional insulated and clad drum. Fitted with advanced multi-fuel burner.

### Features

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



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

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MOBILE

# RoadStar 2000



## MIXING SECTION

### Hot Stone Elevator

Elevator Capacity 170 tonnes/hour  
Drive 11 kW

### Screen

Decks 2 (4 sizes + rejects)  
Length 5.0 m  
Width 1.8 m  
Drive 11 kW

### Hot Storage Hoppers

No of Hoppers 4  
Capacity 17.7 tonnes

### Batch Elevator

Capacity 170 tonnes/hour  
Drive 7.5 kW

### Paddle Mixer

Batch Capacity 2000 kg  
Drive 2 x 22 kW

### Weigh Hopper Capacities

Aggregate 2000 kg  
Filler 420 kg  
Bitumen 320 kg

Travelling Width 3.3 m  
Travelling Height 4.7 m  
Travelling Length 13.2 m

## Mobile Mixing Section

Compact, low level, towable unit with integral vertical elevator, which folds 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 motor drive, high efficiency paddle mixer. Hard wearing replaceable abrasive resistant liner plates, paddle arms and tips. Discharge into truck or storage facility.

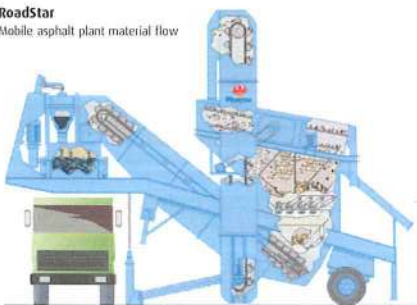
### Control system

Range of control options from key pad to PC-based, fully automatic systems.



### RoadStar

Mobile asphalt plant material flow



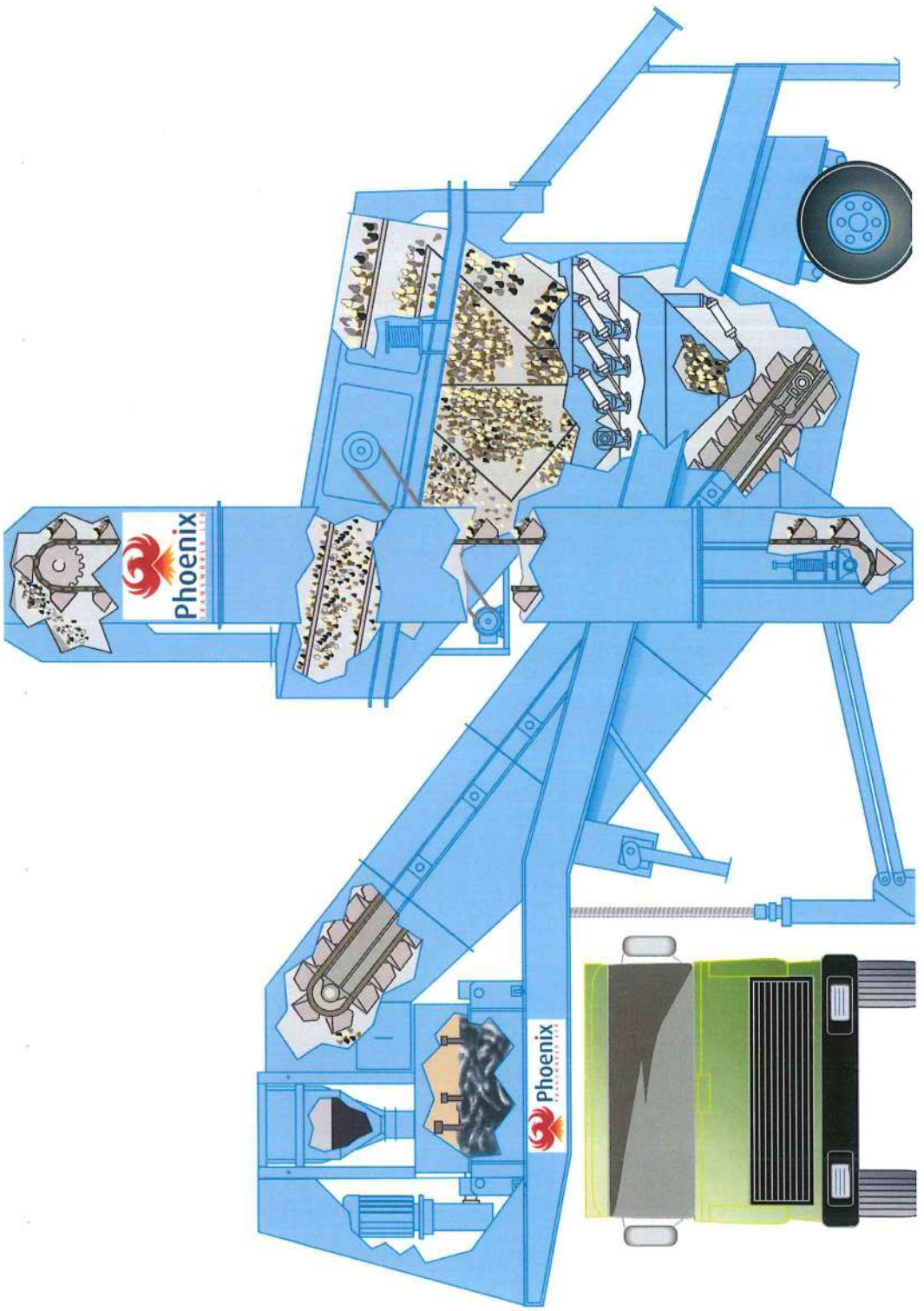
# MOBILE

























# RoadStar 3000

## 240tph Mobile Asphalt Plant



RoadStar is a range of highly efficient low profile mobile asphalt mixing plants capable of producing a wide range of mixes to world standards. The three main units of the plant – cold feed, dryer and mixing sections – are all road towable, and on arrival on site can be brought quickly into operation.

### COLD FEED

#### Hoppers

Hopper Capacity	10 m <sup>3</sup> heaped
Hopper loading width	3 m

#### Belt Feeders

Length	1.7 m
Width	650 mm
Drive	3 kW
Capacity	240 tonnes/hour
Vibrator fitted to sand hopper	

#### Collecting Conveyor

Width	650 mm
Drive	5.5 kW

Travelling Width	2.5 m
Travelling Length	17 m
Travelling Height	3.9 m

### AGGREGATE DRYER

Drum Diameter	2.5 m
Drum Length	9.0 m
Friction Drive	4 x 22 kW
Dryer Capacity	260 tonnes/hour

<b>Air Volume</b>	<b>m<sup>3</sup>/hour</b>
Dryer	80,790
Mixing Section	11,970
Total	92,760

Travelling Width	3.65 m
Travelling Length	13.1 m
Travelling Height	4.29 m



### Mobile Cold Feed

Compact road towable cold feed unit with built-in combined collecting/dryer feed conveyor. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter.



### Mobile Aggregate Dryer

Road towable unit with high efficiency internal lifter design. Optional insulated and clad drum. Fitted with advanced multi-fuel burner.

### Features

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



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

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MOBILE

# RoadStar 3000



## MIXING SECTION

### Hot Stone Elevator

Elevator Capacity 260 tonnes/hour  
Drive 15 kW

### Screen

Decks 2 (4 sizes + rejects)  
Length 6.0 m  
Width 2.1 m  
Drive 18.5 kW

### Hot Storage Hoppers

No of Hoppers 4  
Capacity 25 tonnes

### Batch Elevator

Capacity 260 tonnes/hour  
Drive 15 kW

### Paddle Mixer

Batch Capacity 3000 kg  
Drive 2 x 37 kW

### Weigh Hopper Capacities

Aggregate 3000 kg  
Filler 600 kg  
Bitumen 450 kg

Travelling Width 3.65 m  
Travelling Height 4.85 m  
Travelling Length 14.1 m

## Mobile Mixing Section

Compact, low level, towable unit with integral vertical elevator, which folds down for travelling. Heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, load cell mounted.



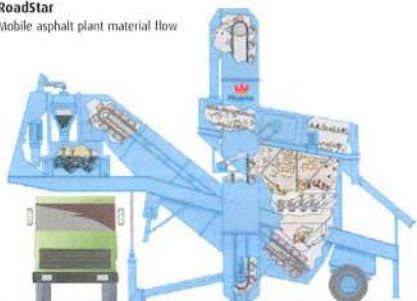
Fully synchronised twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing replaceable abrasive resistant liner plates, paddle arms and tips. Discharge into truck or storage facility.

### Control system

Range of control options from key pad to PC-based, fully automatic systems.



RoadStar  
Mobile asphalt plant material flow



MOBILE















# StarBatch 1000



## 80tph Asphalt Plant

The **StarBatch** range is designed to provide low cost, quality asphalt within known environmental constraints. Capable of producing a wide range of mixes to world standards, the modular design of the plant enables quick and easy erection/dismantling allowing for rapid and efficient movement between contracts. The engineering quality, focussed on all aspects of the plant's operation, is aimed at maximising production, increasing running reliability and minimising maintenance costs.

### COLD FEED

#### Hoppers

Hopper Capacity 10 m<sup>3</sup> heaped  
Hopper loading width 3 m

#### Belt Feeders

Length 1.7 m  
Width 500 mm  
Drive 2.2 kW  
Capacity 80 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 500 mm  
Drive 5.5 kW



### Cold Feed

Compact, robust, modular cold feed unit with choice of number and configuration of hoppers with highly accurate AC variable speed inverter controlled direct drive motor/gear units.

### AGGREGATE DRYER

Drum Diameter 1.5 m  
Drum Length 6.5 m  
Dryer Drive 22 kW  
Dryer Capacity 80 tonnes/hour

#### Air Volume

m<sup>3</sup>/hour  
Drying Section 29,080  
Mixing Section 7,650  
Total 36,730



### Aggregate Dryer

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

### Features

- Flexibility of plant layout  
- compact modular concept
- Focus on quality engineering for high reliability and low maintenance
- Inverter controlled exhaust fan for accurate air control
- High thermal efficiency burner with multi-fuel options
- Galvanised platforming and integral stairways
- Fully automatic controls
- Wide range of optional equipment



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

Due to our policy of continual product development, changes to specification and data may occur without prior notice. Illustrations may show optional equipment.

MODULAR

# StarBatch 1000



## MIXING TOWER

### Hot Stone Elevator

Elevator Capacity	90 tonnes/hour
Drive	11 kW

### Screen

Decks	2 or 3.5
Length	3.0 m
Width	1.5 m
Drive	11 kW

### Hot Storage Hoppers

No of Hoppers	4 or 6
Capacity	20 tonnes

### Paddle Mixer

Batch Capacity	1250 kg
Drive	2 x 11 kW

### Weigh Hopper Capacities

Aggregate	1250 kg
Filler	200 kg
Bitumen	150 kg

## Mixing Tower

Quick erect, modular tower; heavy duty aggregate screen within fully sealed dust housing; access stairways and platforming for maintenance at all levels; load-cell mounted batch weigh hoppers for aggregate, bitumen and filler.



Twin shaft, direct drive 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.



### Control systems

Range of control options from key-pad to PC based, fully automatic systems, all with fully programmable recipe storage.

MODULAR





# StarBatch 1500



## 120tph Asphalt Plant

StarBatch is a range of highly efficient stack up asphalt mixing plants capable of producing a wide range of mixes to world standards. The tower section contains all the equipment for screening, hot stone storage, batch weighing and mixing. StarBatch plants are quality engineered and offer unrivalled performance and reliability.

### COLD FEED

#### Hoppers

Hopper Capacity 10 m<sup>3</sup> heaped  
Hopper loading width 3 m

#### Belt Feeders

Length 1.7 m  
Width 500 mm  
Drive 2.2 kW  
Capacity 120 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 500 mm  
Drive 5.5 kW



### Cold Feed

Compact transportable cold feed unit with built in collecting conveyor and dryer feed conveyor. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter.

### AGGREGATE DRYER

Drum Diameter 1.8 m  
Drum Length 7.0 m  
Dryer Drive 30 kW  
Dryer Capacity 120 tonnes/hour

#### Air Volume m<sup>3</sup>/hour

Dryer 41,885  
Mixing Section 9,550  
Total 51,435



### Aggregate Dryer

Transportable unit with high efficiency internal lifter design. Optional insulated and clad drum. Fitted with advanced multi-fuel burner.

### Features

- Compact modular design
- Efficient reverse air bag filter
- Fast on-site erection
- Inverter controlled exhaust fan
- All sections pre-wired & tested
- Bitumen injection system



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

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MODULAR

# StarBatch 1500



## MIXING TOWER

### Hot Stone Elevator

Elevator Capacity	130 tonnes/hour
Drive	11 kW

### Screen

Decks	2 or 3.5
Length	4.0 m
Width	1.8 m
Drive	11 kW

### Hot Storage Hoppers

No of Hoppers	4 or 6
Capacity	35 tonnes

### Paddle Mixer

Batch Capacity	1750 kg
Drive	2 x 18.5 kW

### Weigh Hopper Capacities

Aggregate	1750 kg
Filler	350 kg
Bitumen	270 kg

## Mixing Tower

Compact, modular tower arrangement with vertical elevator and heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, all load cell mounted.



Twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Discharge to truck or mixed material storage facility.



### Control systems

Range of control options from key-pad to PC based, fully automatic systems, all with fully programmable recipe storage.

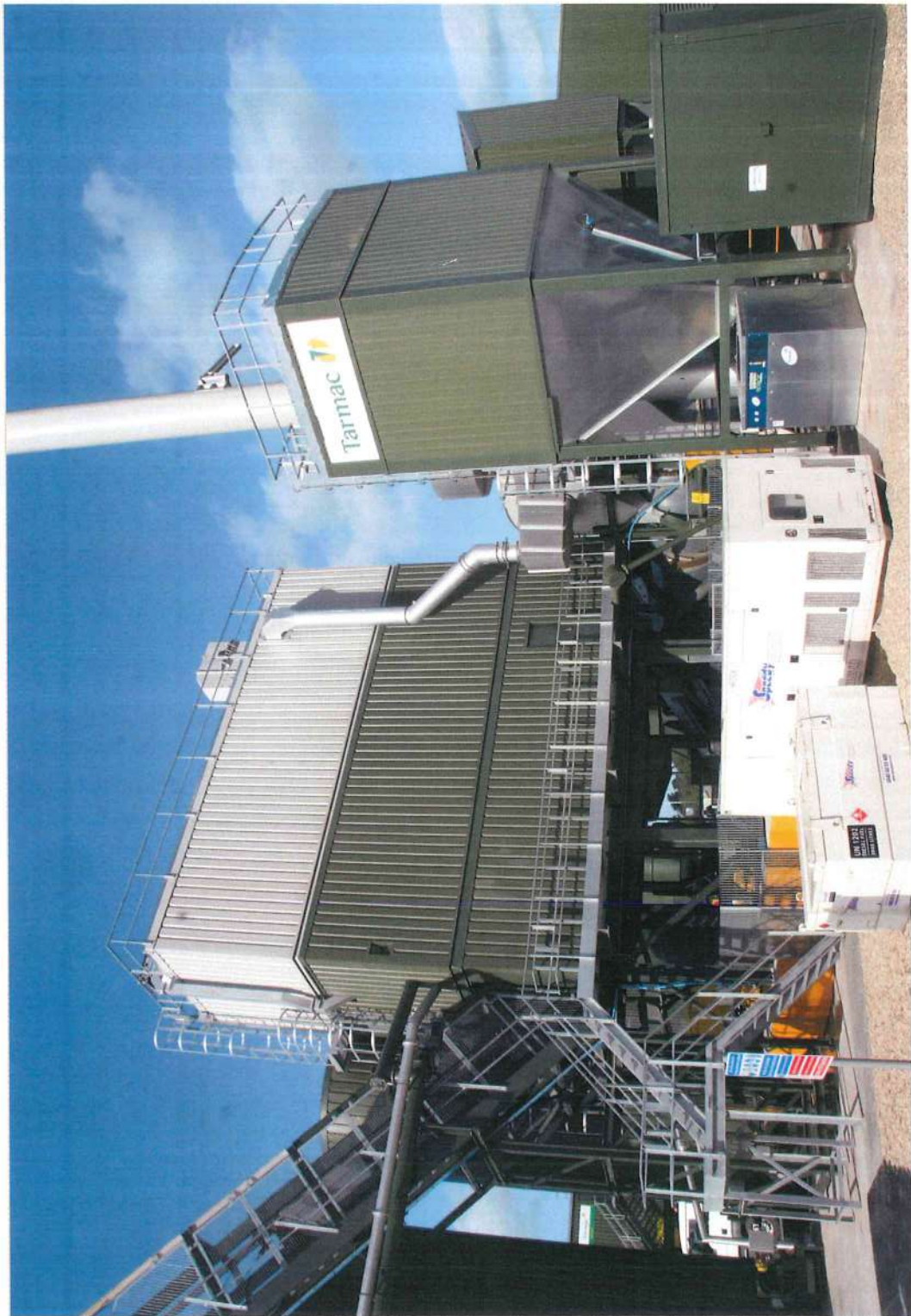
MODULAR











# StarBatch 2000



## 160tph Asphalt Plant

StarBatch is a range of highly efficient stack up asphalt mixing plants capable of producing a wide range of mixes to world standards. The tower section contains all the equipment for screening, hot stone storage, batch weighing and mixing. StarBatch plants are quality engineered and offer unrivalled performance and reliability.

### COLD FEED

#### Hoppers

Hopper Capacity 10 m<sup>3</sup> heaped  
Hopper loading width 3 m

#### Belt Feeders

Length 1.7 m  
Width 650 mm  
Drive 2.2 kW  
Capacity 160 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 650 mm  
Drive 5.5 kW



### Cold Feed

Compact transportable cold feed unit with built in collecting conveyor and dryer feed conveyor. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter.

### AGGREGATE DRYER

Drum Diameter 2.2 m  
Drum Length 8.0 m  
Friction Drive 4 x 15 kW  
Dryer Capacity 180 tonnes/hour

#### Air Volume

**m<sup>3</sup>/hour**  
Dryer 62,560  
Mixing Section 10,030  
Total 72,590



### Aggregate Dryer

Transportable unit with high efficiency internal lifter design. Optional insulated and clad drum. Fitted with advanced multi-fuel burner.

### Features

- Compact modular design
- Fast on-site erection
- Fully sheeted plant options available
- Inverter controlled exhaust fan
- All sections pre-wired & tested
- Bag filter emissions less than 20mg/Nm<sup>3</sup>



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

Due to our policy of continual product development, changes to specification and data may occur without prior notice. Illustrations may show optional equipment.

MODULAR

# StarBatch 2000



## MIXING TOWER

### Hot Stone Elevator

Elevator Capacity 180 tonnes/hour  
Drive 15 kW

### Screen

Decks 2 or 3.5  
Length 5.0 m  
Width 1.8 m  
Drive 15 kW

### Hot Storage Hoppers

No of Hoppers 4 or 6  
Capacity 40 tonnes

### Paddle Mixer

Batch Capacity 2250 kg  
Drive 2 x 22 kW

### Weigh Hopper Capacities

Aggregate 2250 kg  
Filler 450 kg  
Bitumen 350 kg

## Mixing Tower

Compact, modular tower arrangement with vertical elevator and heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, all load cell mounted.



Twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Discharge to truck or mixed material storage facility.



## Control systems

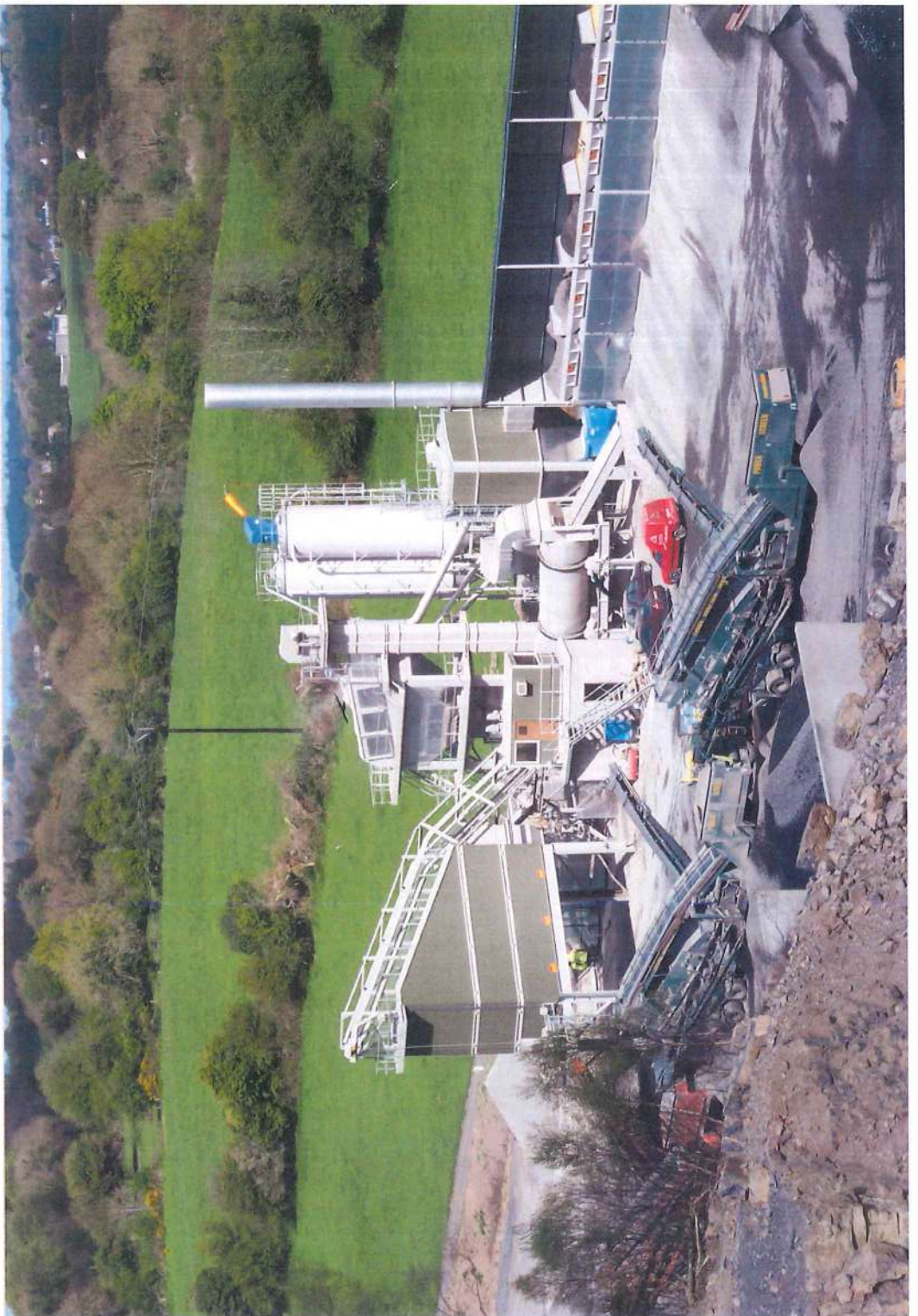
Range of control options from key-pad to PC based, fully automatic systems, all with fully programmable recipe storage.

# MODULAR

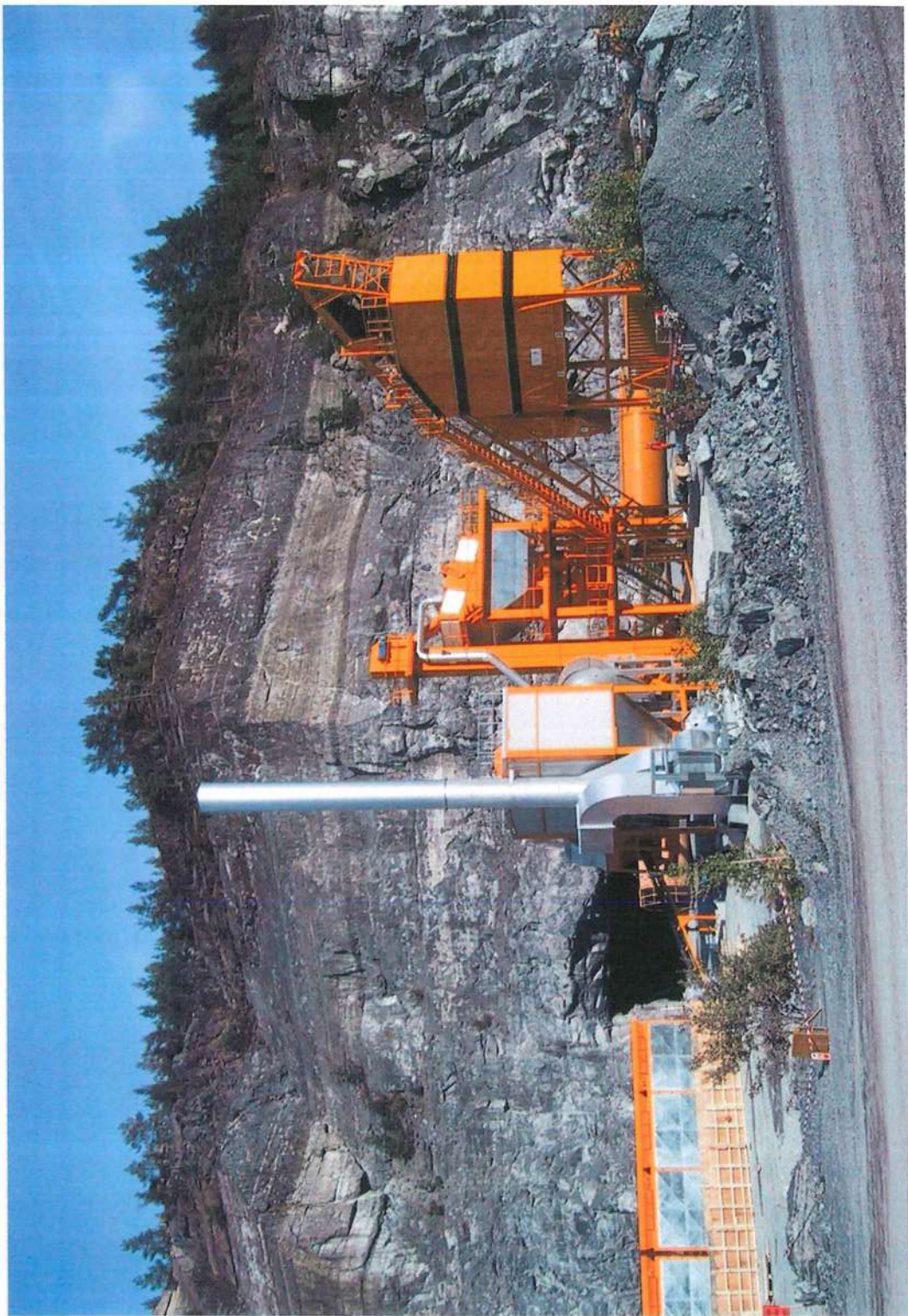


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# StarBatch 2500



## 200tph Asphalt Plant

**StarBatch** is a range of highly efficient stack up asphalt mixing plants capable of producing a wide range of mixes to world standards. The tower section contains all the equipment for screening, hot stone storage, batch weighing and mixing. StarBatch plants are quality engineered and offer unrivalled performance and reliability.

### COLD FEED

#### Hoppers

Hopper Capacity 14 m<sup>3</sup> heaped  
Hopper loading width 4 m

#### Belt Feeders

Length 2.2 m  
Width 650 mm  
Drive 3 kW  
Capacity 200 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 650 mm  
Drive 5.5 kW



### Cold Feed

Compact transportable cold feed unit with built in collecting conveyor and dryer feed conveyor. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter.

### AGGREGATE DRYER

Drum Diameter 2.5 m  
Drum Length 9 m  
Friction Drive 4 x 22 kW  
Dryer Capacity 260 tonnes/hour

#### Air Volume

Dryer m<sup>3</sup>/hour 67,365  
Mixing Section 10,920  
Total 78,285



### Aggregate Dryer

Transportable unit with high efficiency internal lifter design. Optional insulated and clad drum. Fitted with advanced multi-fuel burner.

### Features

- Compact modular design
- Fast on-site erection
- Fully sheeted plant options available
- Inverter controlled exhaust fan
- All sections pre-wired & tested
- Bag filter emissions less than 20mg/Nm<sup>3</sup>



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

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MODULAR

# StarBatch 2500



## MIXING TOWER

### Hot Stone Elevator

Elevator Capacity	220 tonnes/hour
Drive	22 kW

### Screen

Decks	2 or 3.5
Length	6.0 m
Width	1.8 m
Drive	15 kW

### Hot Storage Hoppers

No of Hoppers	4 or 6
Capacity	45 tonnes

### Paddle Mixer

Batch Capacity	2750 kg
Drive	2 x 37 kW

### Weigh Hopper Capacities

Aggregate	2750 kg
Filler	550 kg
Bitumen	420 kg

## Mixing Tower

Compact, modular tower arrangement with vertical elevator and heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, all load cell mounted.



Twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Discharge to truck or mixed material storage facility.



## Control systems

Range of control options from key-pad to PC based, fully automatic systems, all with fully programmable recipe storage.

MODULAR

# StarMix 2000



## 160tph Asphalt Plant

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 maximising production, increasing running reliability and minimising maintenance costs.

### COLD FEED

#### Hoppers

Hopper Capacity 12 m<sup>3</sup> heaped  
Hopper loading width 4 m

#### Belt Feeders

Length 1.7 m  
Width 650 mm  
Drive 3 kW  
Capacity 160 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 650 mm  
Drive 5.5 kW



### Cold Feed

Robust and 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

Drum Diameter 2.2 m  
Drum Length 8.0 m  
Friction Drive 4 x 22 kW  
Dryer Capacity 180 tonnes/hour

#### Air Volume

**m<sup>3</sup>/hour**  
Dryer 62,560  
Mixing Section 10,030  
Total 72,590



### Aggregate Dryer

Easily transported aggregate dryer with advanced design internal lifters optimising thermal efficiency for maximum heat transfer. Choice of multi-fuel burners.

### Features

- Flexibility of plant layout - low or high level design
- Focus on quality engineering for high reliability and low maintenance
- Environmental design - optionally sheeted and clad to specific requirements
- High thermal efficiency burner with multi-fuel options
- Galvanised platforming and integral stairways including secondary emergency access
- Fully automatic controls
- Wide range of optional equipment



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

Due to our policy of continual product development, changes to specification and data may occur without prior notice. Illustrations may show optional equipment.

STATIC

# StarMix 2000



## MIXING TOWER

### Hot Stone Elevator

Elevator Capacity	180 tonnes/hour
Drive	15 kW

### Screen

Decks	4, 5 or 6
Length	3.3 m
Width	1.8 m
Drive	2 x 15 kW

### Hot Storage Hoppers

No of Hoppers	4, 5 or 6
Capacity	40 tonnes

### Paddle Mixer

Batch Capacity	2250 kg
Drive	2 x 22 kW

### Weigh Hopper Capacities

Aggregate	2250 kg
Filler	450 kg
Bitumen	350 kg

## Mixing Tower

Quick erect, modular tower; heavy duty aggregate screen within fully sealed dust housing; access stairways and platforming for all maintenance functions; all load-cell mounted batch weigh hoppers for aggregate, bitumen and filler.



Twin shaft, direct drive motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Discharge to truck or mixed material storage facility.

## Control systems

Range of control options from key-pad to PC based, fully automatic systems, all with fully programmable recipe storage.



STATIC

# StarMix 3000



## 240tph Asphalt Plant

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. Behind this is the quality of its engineering, with all aspects of its operation aimed at maximum production coupled to high running reliability with low maintenance.

### COLD FEED

#### Hoppers

Hopper Capacity 12 m<sup>3</sup> heaped  
Hopper loading width 4 m

#### Belt Feeders

Length 2.2 m  
Width 650 mm  
Drive 4 kW  
Capacity 240 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 650 mm  
Drive 5.5 kW



### Cold Feed

Compact cold feed unit with built in collecting conveyor and dryer feed conveyor. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter.

### AGGREGATE DRYER

Drum Diameter 2.5 m  
Drum Length 9.0 m  
Friction Drive 4 x 22 kW  
Dryer Capacity 260 tonnes/hour

#### Air Volume

**m<sup>3</sup>/hour**  
Dryer 80,790  
Mixing Section 12,650  
Total 93,440



### Aggregate Dryer

Transportable unit with high efficiency internal lifter design. Optional insulated and clad drum. Fitted with advanced multi-fuel burner.

### Features

- Flexibility of plant layout-conventional or high level design
- Quality engineered-low maintenance operation
- Environmental design-sheeted and clad to customers requirements
- High thermal efficiency dryer
- Galvanised platforming and integral stairways including secondary emergency access
- Fully automatic controls
- Range of optimal equipment
- Multi-fuel burner



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

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STATIC

# StarMix 3000



## MIXING TOWER

### Hot Stone Elevator

Elevator Capacity 260 tonnes/hour  
Drive 22 kW

### Screen

Decks 4, 5 or 6  
Length 4.4 m  
Width 2.5 m  
Drive 2 x 15 kW

### Hot Storage Hoppers

No of Hoppers 4, 5 or 6  
Capacity 50 tonnes

### Paddle Mixer

Batch Capacity 3250 kg  
Drive 2 x 37 kW

### Weigh Hopper Capacities

Aggregate 3250 kg  
Filler 650 kg  
Bitumen 500 kg

## Mixing Tower

Compact, modular tower arrangement with vertical elevator and heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, all load cell mounted.



Twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Discharge to truck or mixed material storage facility.

## Control systems

Range of control options from key pad to PC-based, fully automatic systems, with programmable recipe storage.



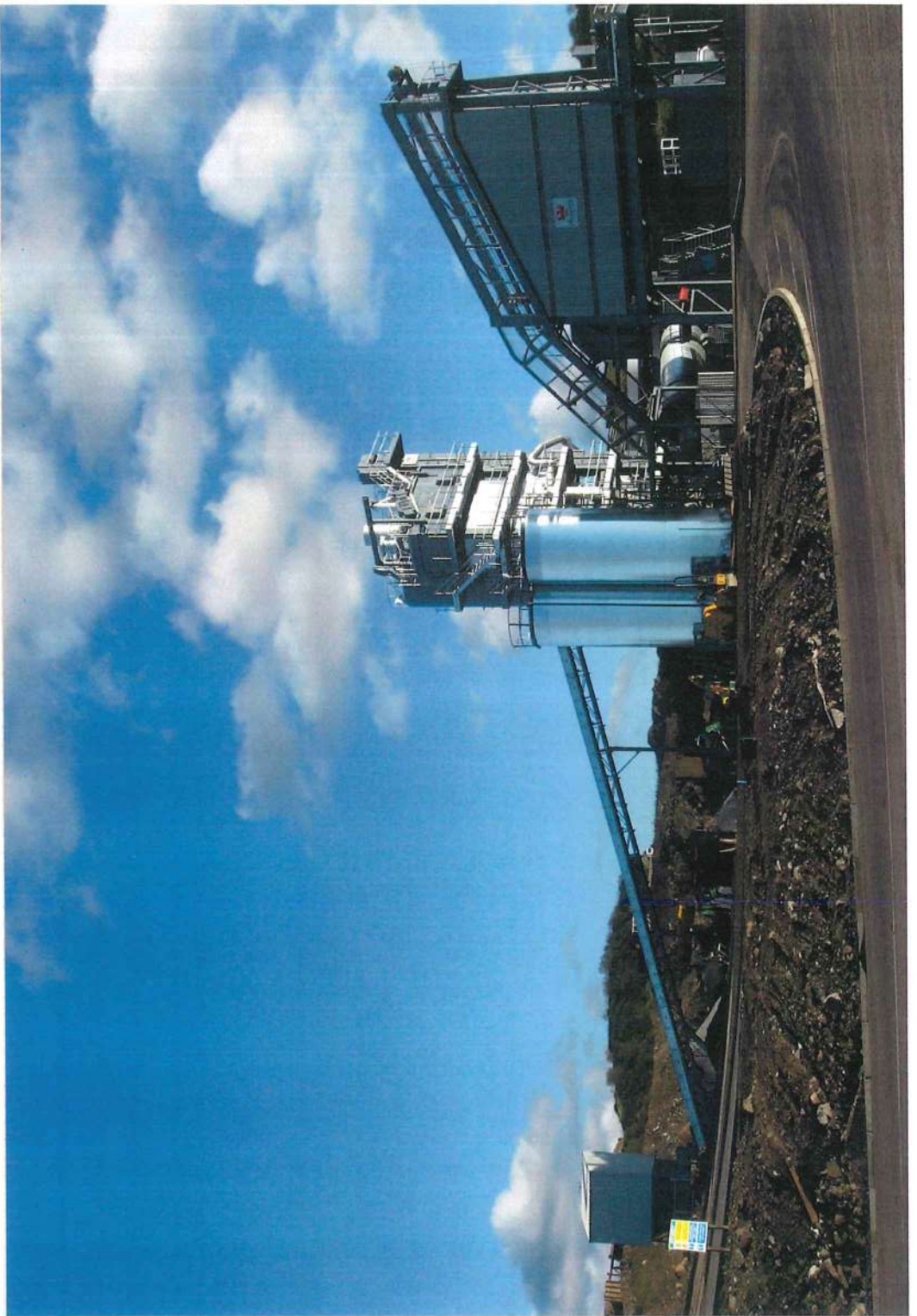
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# StarMix 4000

## Low Level

### 320tph Asphalt Plant



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. Behind this is the quality of its engineering, with all aspects of its operation aimed at maximum production coupled to high running reliability with low maintenance.

#### COLD FEED

##### Hoppers

Hopper Capacity 18 m<sup>3</sup> heaped  
Hopper loading width 5 m

##### Belt Feeders

Length 2.8 m  
Width 800 mm  
Drive 5.5 kW  
Capacity 320 tonnes/hour  
Vibrator fitted to sand hopper

##### Collecting Conveyor

Width 800 mm  
Drive 7.5 kW



#### Cold Feed

Compact cold feed unit with built in collecting conveyor and dryer feed conveyor. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter.

#### AGGREGATE DRYER

Drum Diameter 2.8 m  
Drum Length 10.0 m  
Friction Drive 4 x 30 kW  
Dryer Capacity 340 tonnes/hour

##### Air Volume

**m<sup>3</sup>/hour**  
Dryer 101,350  
Mixing Section 17,410  
Total 118,760



#### Aggregate Dryer

Transportable unit with high efficiency internal lifter design. Optional insulated and clad drum. Fitted with advanced multi-fuel burner.

#### Features

- Flexibility of plant layout-conventional or high level design
- Quality engineered-low maintenance operation
- Environmental design-sheeted and clad to customers requirements
- High thermal efficiency dryer
- Galvanised platforming and integral stairways including secondary emergency access
- Fully automatic controls
- Range of complementary equipment
- Multi-fuel burner



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

Due to our policy of continual product development, changes to specification and data may occur without prior notice. Illustrations may show optional equipment.

LOW LEVEL STATIC

# StarMix 4000

## Low Level



### MIXING TOWER

#### Hot Stone Elevator

Elevator Capacity 360 tonnes/hour  
Drive 30 kW

#### Screen

Decks 4, 5 or 6  
Length 4.0 m  
Width 2.6 m  
Drive 2 x 18.5 kW

#### Hot Storage Hoppers

No of Hoppers 4, 5 or 6  
Capacity 70 tonnes

#### Paddle Mixer

Batch Capacity 4250 kg  
Drive 2 x 45 kW

#### Weigh Hopper Capacities

Aggregate 4250 kg  
Filler 850 kg  
Bitumen 650 kg

### Mixing Tower

Compact, modular tower arrangement with vertical elevator and heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, all load cell mounted.



Twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Discharge to truck or mixed material storage facility.

### Control systems

Range of control options from key pad to PC-based, fully automatic systems, with programmable recipe storage.



LOW LEVEL STATIC

# StarMix 4000

High Level

## 320tph Asphalt Plant



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. Behind this is the quality of its engineering, with all aspects of its operation aimed at maximum production coupled to high running reliability with low maintenance.

### COLD FEED

#### Hoppers

Hopper Capacity 18 m<sup>3</sup> heaped  
Hopper loading width 5 m

#### Belt Feeders

Length 2.8 m  
Width 800 mm  
Drive 5.5 kW  
Capacity 320 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 800 mm  
Drive 7.5 kW



### Cold Feed

Compact cold feed unit with built in collecting conveyor and dryer feed conveyor. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter.

### AGGREGATE DRYER

Drum Diameter 2.8 m  
Drum Length 10.0 m  
Friction Drive 4 x 30 kW  
Dryer Capacity 340 tonnes/hour

#### Air Volume

**m<sup>3</sup>/hour**  
Dryer 101,350  
Mixing Section 17,410  
Total 118,760



### Aggregate Dryer

Transportable unit with high efficiency internal lifter design. Optional insulated and clad drum. Fitted with advanced multi-fuel burner.

### Features

- Flexibility of plant layout-conventional or high level design
- Quality engineered-low maintenance operation
- Environmental design-sheeted and clad to customers requirements
- High thermal efficiency dryer
- Galvanised platforming and integral stairways including secondary emergency access
- Fully automatic controls
- Range of complementary equipment
- Multi-fuel burner



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

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HIGH LEVEL STATIC

# StarMix 4000

## High Level



### MIXING TOWER

#### Hot Stone Elevator

Elevator Capacity 360 tonnes/hour  
Drive 45 kW

#### Screen

Decks 4, 5 or 6  
Length 4.0 m  
Width 2.6 m  
Drive 2 x 18.5 kW

#### Hot Storage Hoppers

No of Hoppers 4, 5 or 6  
Capacity 70 tonnes

#### Paddle Mixer

Batch Capacity 4250 kg  
Drive 2 x 45 kW

#### Weigh Hopper Capacities

Aggregate 4250 kg  
Filler 850 kg  
Bitumen 650 kg

### Mixing Tower

Compact, modular tower arrangement with vertical elevator and heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, all load cell mounted.



Twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Discharge to truck or mixed material storage facility.

### Control systems

Range of control options from key pad to PC-based, fully automatic systems, with programmable recipe storage.



HIGH LEVEL STATIC



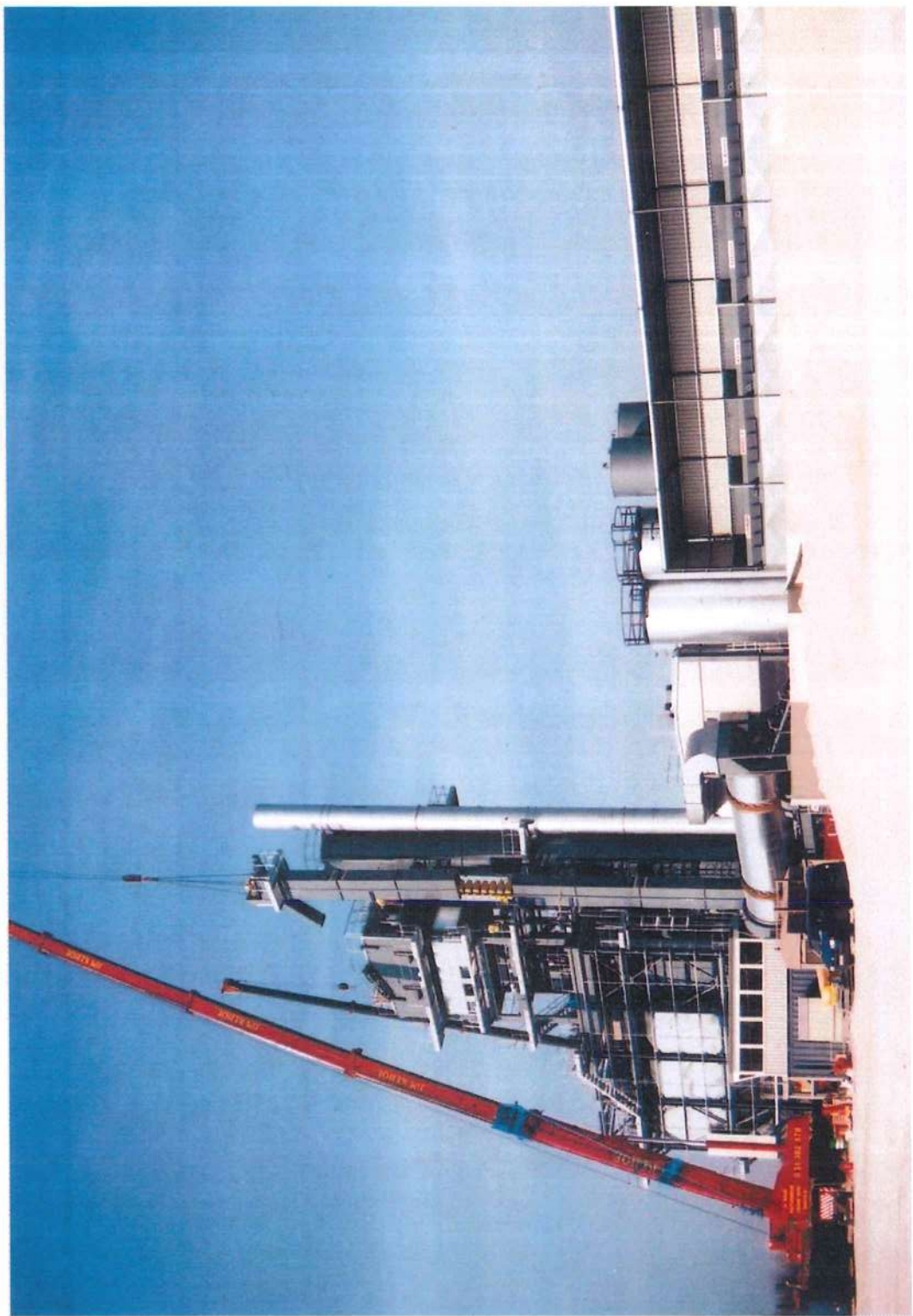












# StarMix 5000



## 400tph Asphalt Plant

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. Behind this is the quality of its engineering, with all aspects of its operation aimed at maximum production coupled to high running reliability with low maintenance.

### COLD FEED

#### Hoppers

Hopper Capacity 18 m<sup>3</sup> heaped  
Hopper loading width 5 m

#### Belt Feeders

Length 2.8 m  
Width 1000 mm  
Drive 5.5 kW  
Capacity 400 tonnes/hour  
Vibrator fitted to sand hopper

#### Collecting Conveyor

Width 1000 mm  
Drive 11.5 kW



### Cold Feed

Compact cold feed unit with built in collecting conveyor and dryer feed conveyor. Direct drive motor/gear units give high reliability. High turndown ratio gives accurate control of feed rate. Variable speed control via AC motor and inverter.

### AGGREGATE DRYER

Drum Diameter 3.1 m  
Drum Length 11.0 m  
Friction Drive 4 x 37 kW  
Dryer Capacity 410 tonnes/hour

#### Air Volume

**m<sup>3</sup>/hour**  
Dryer 124,230  
Mixing Section 20,900  
Total 145,130



### Aggregate Dryer

Transportable unit with high efficiency internal lifter design. Optional insulated and clad drum. Fitted with advanced multi-fuel burner.

### Features

- Flexibility of plant layout-conventional or high level design
- Quality engineered-low maintenance operation
- Environmental design-sheeted and clad to customers requirements
- High thermal efficiency dryer
- Galvanised platforming and integral stairways including secondary emergency access
- Fully automatic controls
- Range of complementary equipment
- Multi-fuel burner



Plant capacity 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 of 150m above sea level, aggregate bulk density average 1600 Kg/m<sup>3</sup>, 5% bitumen content, 45 seconds weigh/mix cycle at 100% plant utilisation.

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STATIC

# StarMix 5000



## MIXING TOWER

### Hot Stone Elevator

Elevator Capacity 420 tonnes/hour  
Drive 45 kW

### Screen

Decks 4, 5 or 6  
Length 5.0 m  
Width 2.6 m  
Drive 2 x 2.2 kW

### Hot Storage Hoppers

No of Hoppers 4, 5 or 6  
Capacity 80 tonnes

### Paddle Mixer

Batch Capacity 5250 kg  
Drive 2 x 55 kW

### Weigh Hopper Capacities

Aggregate 5250 kg  
Filler 1050 kg  
Bitumen 750 kg

## Mixing Tower

Compact, modular tower arrangement with vertical elevator and heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, all load cell mounted.



Twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Discharge to truck or mixed material storage facility.

## Control systems

Range of control options from key pad to PC-based, fully automatic systems, with programmable recipe storage.



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# DrumStar

Continuous Process Asphalt Mixing Plant

Travelling Dimensions (m)

With Options	1	2
Length	20	20.5
Width	2.9	3.35
Height	4.1	4.3
Weight (t)	25	27

## Model 100 tph

### DRUM MIX

Diameter (m)	1.6
Length (m)	8.0
Friction Drive (kW)	4 x 7.5
Dryer Capacity (tph)	100

### WET COLLECTOR (OPTION 1)

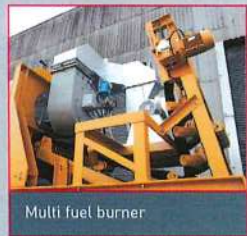
Water Injection (Gal / min)	80
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### DRAG SLAT CONVEYOR

Capacity (tph)	120
Slat Width (mm)	400
Drive (kW)	11
Batch Hopper (t)	3

### FAN UNIT

Drive (kW)	75
------------	----



Multi fuel burner

### BAG FILTER (OPTION 2)

Capacity (m <sup>3</sup> / hr)	30,000
Filter Area (m <sup>2</sup> )	347
No. Bags	200
Fan Unit (kW)	45

### Advantages

- Modern drum mix technology
- Produces a high quality mix
- Loads can be containerised
- Highly accurate feeders
- Multifuel burner

### DRUM MIX, WET COLLECTOR & DRAG SLAT



Fully towable, single chassis with multi-fuel burner, dryer/mixing drum with highly efficient lifter pattern giving maximum heat transfer and homogeneous mix. Integral side mounted drag-slat with 3 tons capacity discharge hopper. Chassis mounted wet scrubber dust filter (option 1).

### DRUM MIX, DUST FILTER & DRAG SLAT



Alternative design for environmentally sensitive areas, as above, but with full fabric dust filter mounted on the chassis instead of the wet scrubber option. Reduced energy cost resulting from demand-driven electronic inverter control of the exhaust fan (option 2).



**Phoenix**  
TRANSWORLD LTD

Our knowledge is your power



# DrumStar

Continuous Process Asphalt Mixing Plant

Travelling Dimensions (m)

With Options 3 & 4

Length 12

Width 2.5

Height 3.8

Weight (t) 9

## Optional Cold Feed Unit

### COLD FEED HOPPERS (OPTION 3)

Hopper Capacity (m<sup>3</sup>) 10

Hopper Loading Width (m) 3

### BELT FEEDERS

Length (m) 1.2

Width (mm) 500

Drive (kW) 2.2

Turndown Ratio 20:1

Vibrator fitted to Sand Hopper

### COLLECTING WEIGH CONVEYOR

Belt Width (mm) 500 / 3ply

Drive (kW) 4

Weigh Idler YES

Belt Scraper YES

### SCALPING SCREEN (OPTION 4)

Capacity (tph) 110

Size (mm) 800 x 1200

Deck SINGLE

Drive (W) 2 x 300

### SLINGER CONVEYOR (ONLY WITH OPTION 4)

Belt Width (mm) 500

Drive (kW) 3

## COLD FEED UNIT & OPTIONAL SCALPING SCREEN

Scalping screen retracts for travelling



Compact road towable cold feed unit with built in collecting conveyor and optional scalping screen. Direct drive motor / gear units give high reliability and efficiency. High turndown ratio gives accurate control via AC motor and inverter. Feed conveyor folds away for travelling and the scalping screen retracts. Landing legs and axle are removable to containerise.

Mobile cold feed unit available with 2, 3 or 4 hoppers, variable speed belt feeders and optional scalping screen to remove oversize aggregate

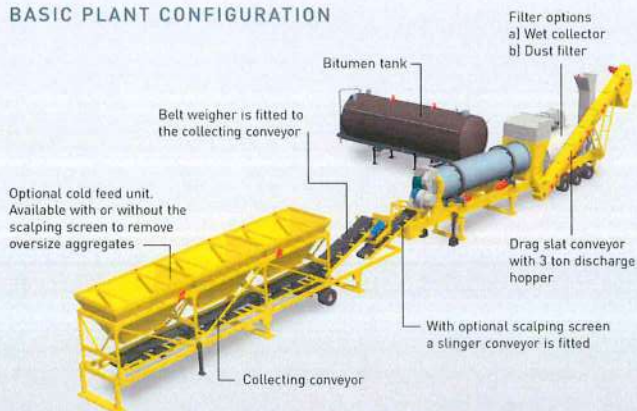


Single deck scalping screen

### Advantages

- High efficiency drives on feeders
- 20:1 turndown ratio on feeders
- Loads can be containerised
- Accurate weigh control
- Optional Scalping Screen

## BASIC PLANT CONFIGURATION



All reasonable steps have been taken to ensure the accuracy of this publication, however due to a policy of continual product development we reserve the right to change specifications without notice.



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# Hot Mix Storage

## Mobile 25 tonne - Hot Mixed Material Storage System

Specifically designed for high mobility and fast on site set-up, this storage system is ideal for contractors needing an easily movable storage system for mixed material. Insulated hopper, skip track, skip and winch drive are all contained on one road towable unit, and on arrival to site can be brought quickly in to operation.



### Features

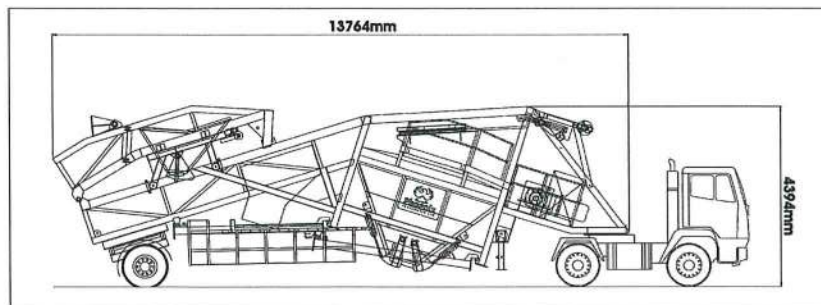
- Compact fully mobile design
- Fast on-site erection
- Minimum Foundations
- Inverter Controlled winch
- Hopper and 1.5 Te skip fully insulated
- Electrically pre-wired and tested
- Access platforms to winch and hopper top, complete with galvanised cage ladder and handrails

**25Te. MM Storage System**

**Travelling Dimensions:**

**13.76 x 2.85 x 4.4 = 172.6m<sup>3</sup>**

**Weight: 13Te.**



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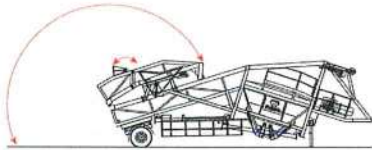
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MOBILE

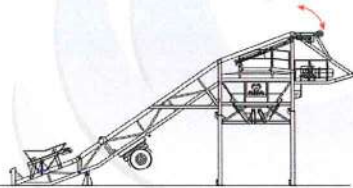
# Hot Mix Storage

Mobile 25 tonne - Hot Mixed Material Storage System

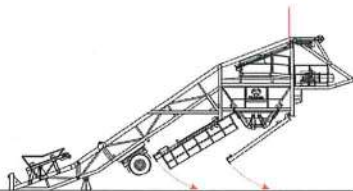
## Set-up procedure.



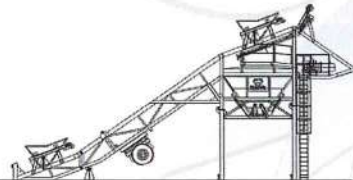
1. Drive into position and lower landing legs
2. Pivot and locate bottom track section



4. Attach leg bracings
5. Pivot rope sheave support frame into position



3. Lift structure to allow main support legs to swing into position



6. Ready for operation



MOBILE

# Hot Mix Storage

## Mobile 50 tonne - Hot Mixed Material Storage System

Specifically designed for high mobility and fast on site set-up, this storage system is ideal for contractors needing an easily movable storage system for mixed material. Insulated hopper, skip track, skip and winch drive are all contained on one road towable unit, and on arrival to site can be brought quickly in to operation.



### Features

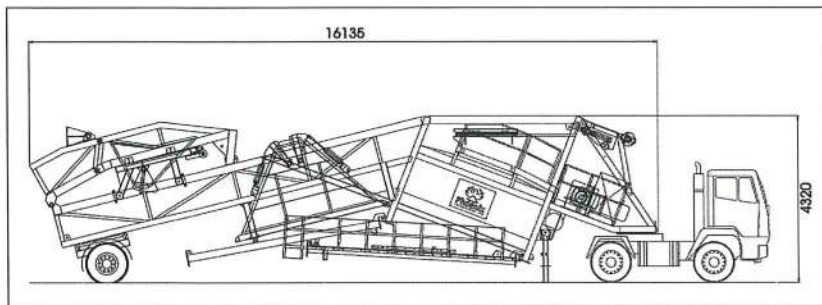
- Compact fully mobile design
- Hopper and 1.5 Te skip fully insulated
- Fast on-site erection
- Electrically pre-wired and tested
- Minimum Foundations
- Access platforms to winch and hopper top, complete with galvanised cage cage ladder and handrails.
- Inverter Controlled winch

**50Te. MM Storage System**

**Travelling Dimensions:**

**16.13 x 3.25 x 4.32 = 226.5m<sup>3</sup>**

**Weight: 15Te.**



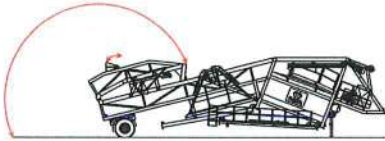
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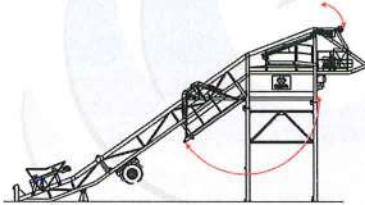
MOBILE

# Hot Mix Storage

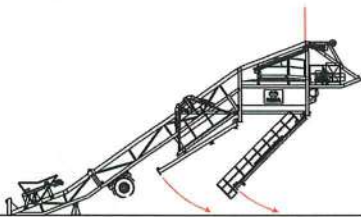
## Mobile 50 tonne - Hot Mixed Material Storage System Set-up procedure.



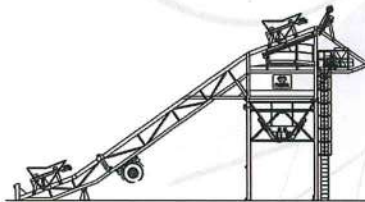
1. Drive into position and lower landing legs
2. Pivot and locate bottom track section



4. Attach leg bracings
5. Pivot hopper bottom into position
6. Pivot rope sheave support frame into position



3. Lift Structure to allow main support legs to swing into position



7. Ready for operation



MOBILE



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## Hot Mix Storage

# Static Horizontal Mixed Material Storage System

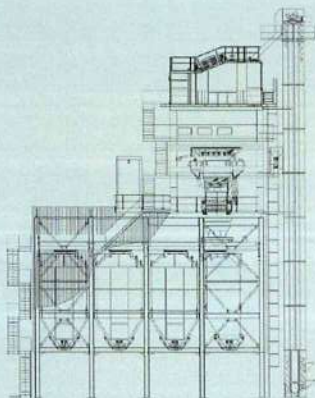


300 tonne horizontal Hot Storage

Our customers can choose according to individual requirements precisely which equipment and plant capacity meet their needs. The StarBatch and StarMix Range benefit from a high level Plant option, incorporating the storage silos directly beneath the mixer level. All storage silos can be fitted with loadcells with capacity readout shown on plant control console with auto load out systems.



## Features and Technical Specification



- 50/75/100 tonnes silo capacities
- Up to six silos (i.e. 600te capacity)
- 4 meter clearance for lorry loading
- Load cell mounted (optional)
- High level indication for each silo
- Insulated with high density mineral wool
- Pneumatically operated top cover door
- Reject/Direct load hopper
- 5.5kw gearmotor inverter controlled skip drive
- Skip with direct 4 wheel drive system
- Safety guards with key interlocks
- Manual or optionally automatic loadout control



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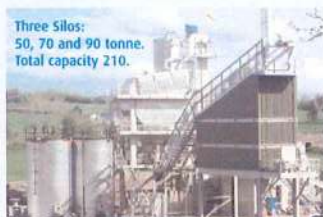
STATIC

## Hot Mix Storage

# Static Inclined Mixed Material Storage System

Phoenix have a wide range of options available for the storage of hot material. Mobile, free standing and static mixed material systems with capacities up to 600 tonnes. Options include inclined or horizontal skip types with each silo fully insulated and electrically heated to maximise heat retention; either fixed or load cell mounted.

Three Silos:  
50, 70 and 90 tonne.  
Total capacity 210.



210 tonne, 3 compartment  
CAD model



Skip track can be hinged  
up for direct lorry loading



210 tonne load-cell mounted

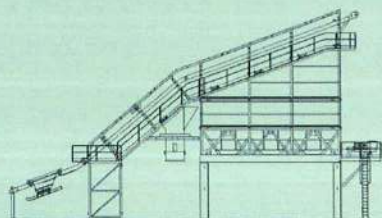


Free standing 120 tonne storage system



Hopper & radial doors, insulated and heated

## Features and Technical Specification



MM210 mixed material storage system

- Capacities from 25-60 tonnes
- Horizontal or inclined skip track configuration
- Hinged skip track for direct lorry loading
- Optional load cell mounted silos
- Inverter controlled winch drum
- Standard 4 metre height pass through
- Variable skip sizes to suit your plant
- Pneumatically operated top cover doors
- Heated and insulated hoppers for maximum heat retention

	MM25	MM50	MM70	MM120	MM160	MM210
Capacity (tonnes)	25	50	70	120	160	210
Number of Silos	1	1	1	2	2	3
Silo configuration	25	50	70	50/70	70/90	50/70/90



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STATIC









Water Treatment Plant



## Dust Filters

### Mobile Bag Filters

Using the True Clean reverse air system, which eliminates the need for a separate compressor for cleaning down the bags. Efficient cleaning is achieved by an indexing distributor which induces a reverse flow of atmospheric air through the bags, causing the bags to expand and release any collected dust, which falls into the collecting hopper. This method is efficient and offers extended bag life with low maintenance and noise levels.

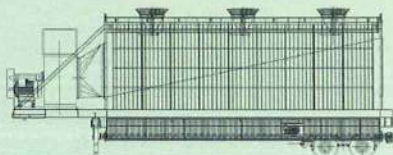


MTC 432 Mobile bag filter



TwinStar 1000, TC-192 Secondary Dust Collection Unit

#### Features and technical Specification



- Reverse air bag cleaning with True Clean Unit
- Corrosion resistant metal cages
- High temperature, 100% virgin Nomex fibre bags
- Free standing exhaust stack, no concrete foundations
- Low noise levels
- Guaranteed emission levels less than 20mg/cum
- Optional cleaning air booster fan
- Quality engineered microprocessor control

Bag Filter Size		TC-128	TC-192	TC-288	TC-432	TC-576
Total Plant Air	(m <sup>3</sup> /hr)	21320	29350	51430	75590	93445
Filter Area	sq m <sup>2</sup>	242	334	562	842	1123
Filtration Velocity	m/min	1.47	1.46	1.48	1.44	1.34
Number of Bags		138	192	288	432	576
Cleaning Mechanism	no x dia	1x600	2x600	2x720	3x720	4x720
Trough Hopper Drive	kW	2x3kW	2x4kW	2x4kW	2x5.5kW	2x5.5kW
Exhaust Fan Power (filter)	kW	30	45	75	90	110



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MOBILE

# Dust Filters

## Static Bag Filters

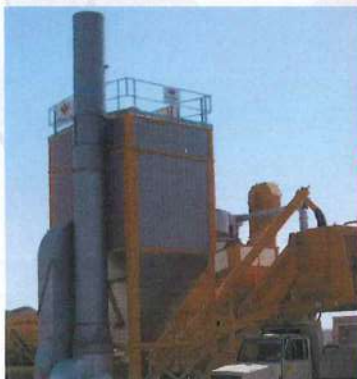
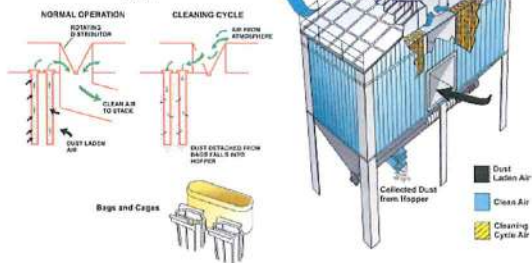
Using the True Clean reverse air system, which eliminates the need for a separate compressor for cleaning down the bags. Efficient cleaning is achieved by an indexing distributor which induces a reverse flow of atmospheric air through the bags, causing the bags to expand and release any collected dust which falls into the collecting hopper. This method is efficient and offers extended bag life with low maintenance and low noise levels.



StarMix 3000 Bag Filter TC440



**Principle of Operation**  
Phoenix True-Clean Reverse Air Bag Filter System



TC240 Pyramid Type Bag Filter

## Features and Technical Specification



- Reverse air bag cleaning with True Clean Unit
- Corrosion resistant metal cages
- High temperature, 100% virgin Nomex fibre bags
- Low noise levels
- Guaranteed emission levels less than 20mg/cum
- Optional cleaning air booster fan
- Quality engineered microprocessor control
- Inverter controlled exhaust fan

Bag Filter Size		TC-96	TC-128	TC-180	TC-240	TC-340	TC-440	TC-560	TC-680
Total Plant Air	(m <sup>3</sup> /hr)	18960	26730	36730	51435	72590	93445	118760	145130
Filter Area	sq m <sup>2</sup>	235	314	441	588	833	1078	1372	1666
Filtration Velocity	m/min	1.3	1.4	1.4	1.5	1.5	1.44	1.44	1.45
Number of Bags		96	128	180	240	340	440	560	680
Cleaning Mechanism	no x dia	1x900	1x900	1x1200	1x1200	1x1500	1x1500	2x1400	2x1400
Trough Hopper Drive	kW	PYRAMID	PYRAMID	PYRAMID	PYRAMID	5.5	7.5	7.5	11
Exhaust Fan Power (filter)	kW	30	37	45	75	90	110	132	185



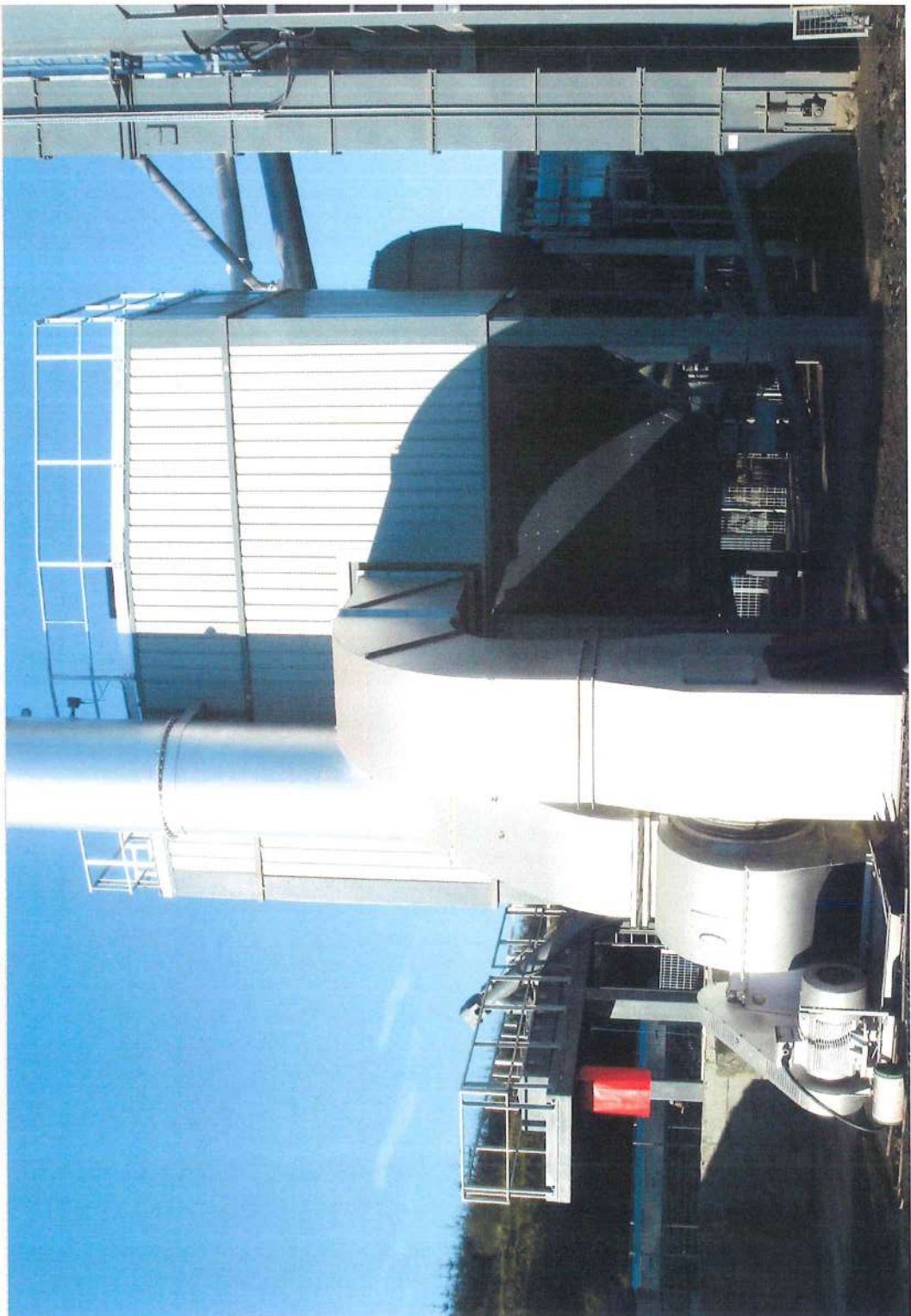
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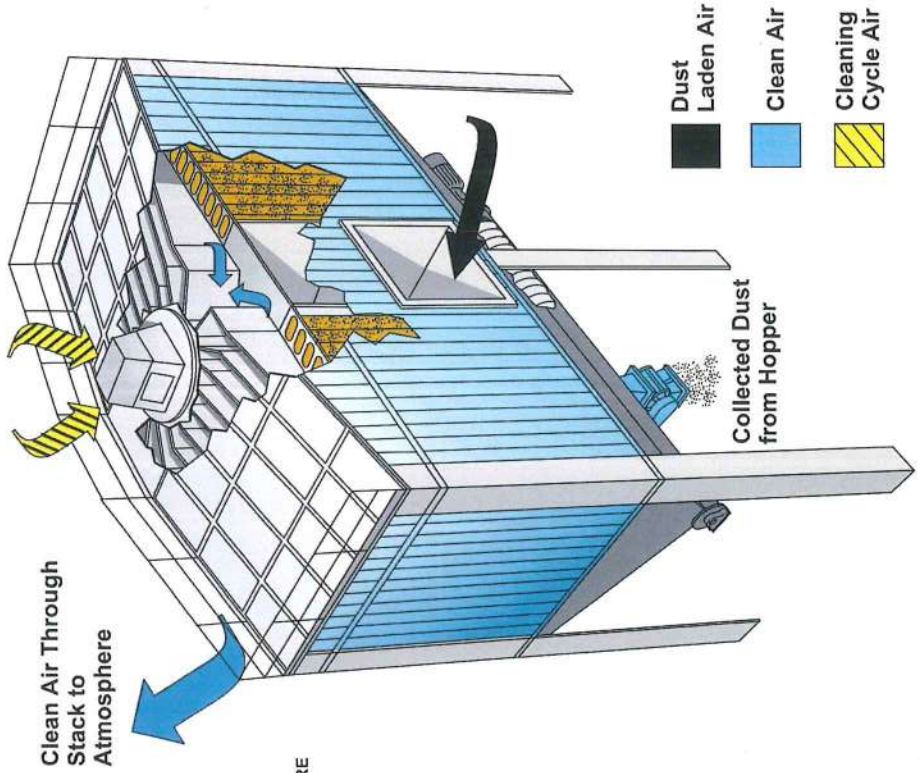




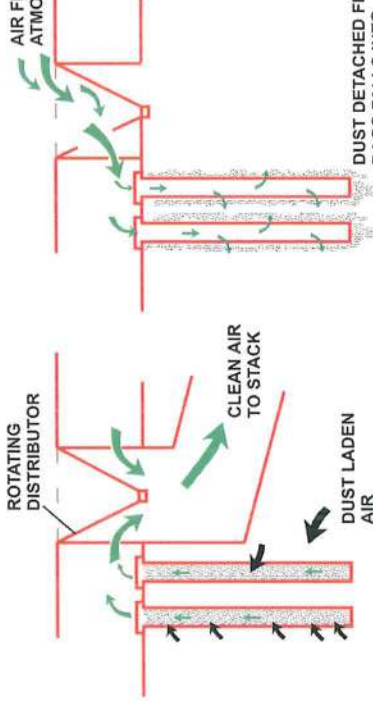


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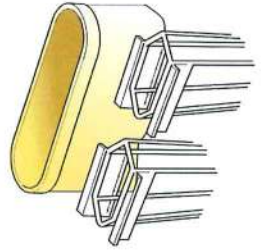
## Principle of Operation Phoenix True-Clean Reverse Air Bag Filter System



### NORMAL OPERATION

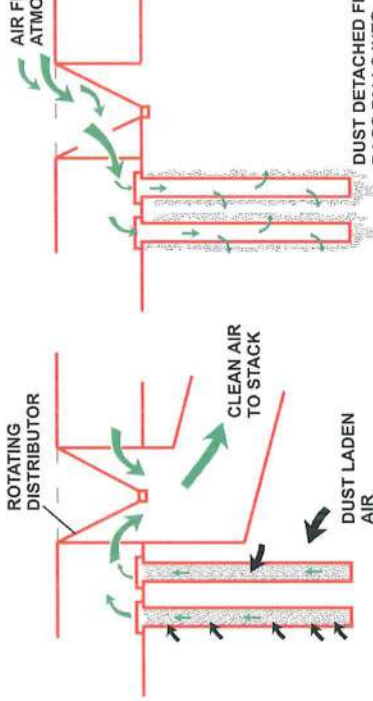


DUST DETACHED FROM BAGS FALLS INTO HOPPER



Bags and Cages

### CLEANING CYCLE



## Filler Supply

### Mobile Horizontal Storage Silo



Mobile horizontal Filler Silo

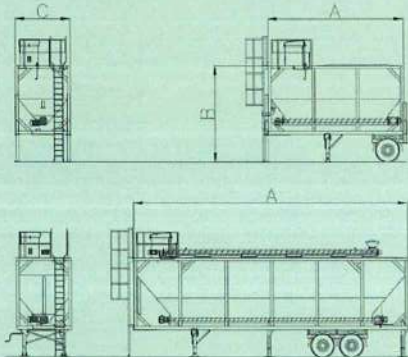
Phoenix have low profile silos for both reclaimed and imported filler. Designed as self contained units and mounted on running gear, silos are available in two sizes to feed material into the filler weigh hopper via screw conveyors. The unique and innovative design means that it is extremely easy to transport and relocate, complementing the whole reason for a fully mobile asphalt plant.



Horizontal hydrated lime storage silo

Horizontal imported storage silo

### Features and Technical Specification



- No foundations required
- Drop down Landing Legs
- Designed to suit reclaimed or imported filler
- Low profile design
- 25 and 50 tonnes capacities
- Fifth wheel towing
- Jet Filter
- Pressure Relief Valve

r= reclaimed	25	50r	50i
i= imported			
Capacity (te)	25	50	50
Volume (cu.m)	22	45	45
A - Height (mm)	6050	12260	12260
B - Width (mm)	4275	4465	4425
C - Depth (mm)	2440	2440	2440



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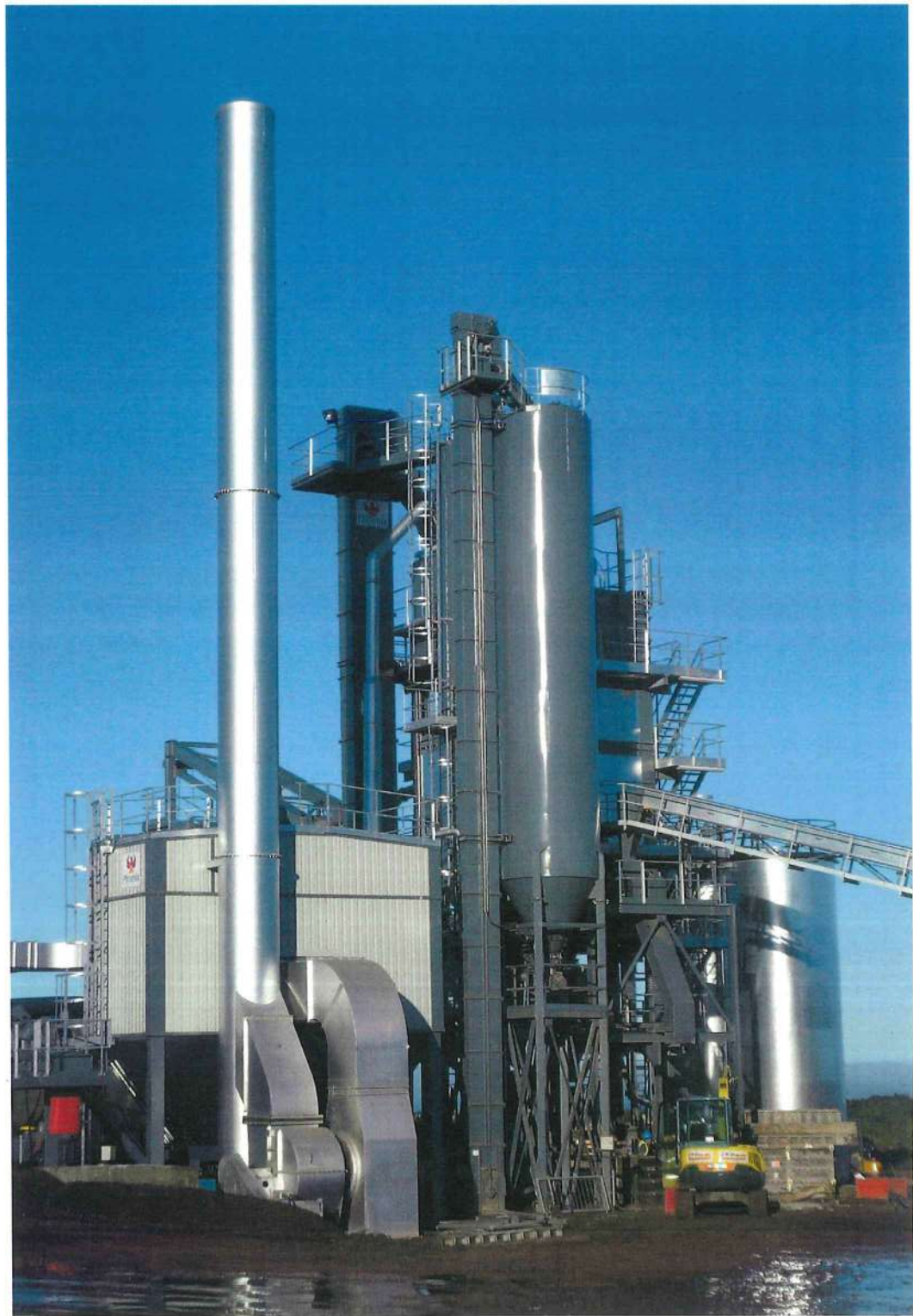
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MOBILE











# RoadStar Mini

## 4-9 Ton/h Mobile Asphalt Plant

### Capacities

Loading Skip	150kg
Mixer	150kg
Main Fuel Tank	200lt
Bitumen Tank	300lt
Burner Fuel Tank	80lt
Batch Heater	150kg

### Outputs

Cold Mix tonnes/h @ 65°C	7-9
Hot Mix tonnes/h @ 110°C	5-7
Hot Mix tonnes/h @ 150°C	4-5

Weight	5 tonnes
--------	----------

### Features:

- Fully mobile road towable
- High reliability with low maintenance
- High efficiency burner
- Batch heater with no wastage
- Proven performance

Loading Skip in loading position



Loading Skip in discharge position



RoadStar Mini is a single road towable asphalt batch mixing plant which is ideal for small paving and patching jobs. Complete with feed skip, dryer, mixer and bitumen controls. The RoadStar Mini can quickly and easily be moved to site and rendered operational within minutes.



<b>Loading skip</b>	-	150kg capacity hydraulic operation
<b>Batch heater drum</b>	-	150kg capacity, heavy duty
<b>Oil burner</b>	-	Hydraulically driven 544kW
<b>Mixer</b>	-	150kg twin shaft
<b>Bitumen tank</b>	-	300 litres capacity with temperature gauge and vapourizing oil burner
<b>Bitumen fuel tank</b>	-	80 litres capacity free standing, pressurised
<b>Bitumen ring main</b>	-	Hydraulically driven pump with lagged bitumen ring main incorporating flow meter
<b>Diesel engine</b>	-	Air cooled electric start developing 14kw at 1850 rpm
<b>Fuel Tank</b>	-	200 litres capacity
<b>Hydraulic system</b>	-	125 litres capacity
<b>Ancillaries</b>	-	Operator guarding, access platform with ladder, central lubrication system
<b>Running gear</b>	-	Chassis mounted, comprising single axle with pneumatic tyres
<b>Brakes</b>	-	Dual system with mechanical over-run and single line air operation, parking brake
<b>Support legs</b>	-	Four base mounted screw jacks for plant levelling



# RoadStar Mini

## 4-9 Ton/h Mobile Asphalt Plant



Batch heater drum



Batch heater light diesel oil burner



Diesel engine power drive

### TRAVELLING DIMENSIONS:

Height 3305mm  
Width 2360mm  
Length 4800mm

### CONTAINER DIMENSIONS:

Height 2500mm  
Width 2270mm  
Length 3675mm

### WORKING DIMENSIONS:

Height 4100mm  
Width 2500mm  
Length 3500mm

**LOADING SKIP** - 150 kgs capacity convenient for hand feeding by shovel, skip raised and lowered by double acting hydraulic ram controlled by a three position valve to hold skip in any position.

**BATCH HEATER** - 150 kgs capacity heavy duty drum with specially designed lifters to cascade material through the burner flame. Drum is supported on two machined roller paths and four heavy duty rollers.

**SWIVEL CHUTE** - Hydraulically operated swivel chute delivers heated aggregate to the mixer. A safety fire door between heater and mixer is linked to the chute sealing off mixer during high flame heating. Coarse dust is collected in an expansion box above the mixer when discharge gate is opened.

**MIXER** - 150 kg capacity, double shaft contra-rotating mixer with hard wearing removeable steel liners and paddles, shafts are mounted in bearings and driven directly from engine; via counter shaft and roller chain. Manually operated outlet door for rapid discharge of mixed material.

**BITUMEN TANK AND SYSTEM** - Bitumen heating/storage tank - Capacity 300 litres, drum holder above the tank will hold a 200 litre drum of bitumen. Bitumen tank is heated by light diesel oil vapourizing burner, capacity 13.5 litres/hour. Manually operated barrel hoist for lifting barrels into the drum holder. Bitumen pumped by hydraulically driven gear pump through a ring main system and off/on valve to spray bar. Meter records the amount delivered. Main bitumen pipework is lagged.

**POWER UNIT** - Air cooled diesel engine developing 14kW / 1850 rpm on load and using light diesel oil, with air filter, Oil filter and exhaust silencer. Electric start, direct clutch power take-off at flywheel end drives transmission for both heater drum and mixer.



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