



BestBatch

BE THE BEST OWNER...



F A Y A T M I X I N G P L A N T S

BestBatch

The new generation of BestBatch batch plants, which can produce as much as 200 tph, is MARINI's answer to market demand.

The BestBatch, designed and entirely produced in India exemplifies modern technology with great performance at an extremely attractive price.





Introduction

FOCUS

- ◆ What makes the plant unique

TECHNICAL SPECIFICATIONS

- ◆ Dryer and filter unit
- ◆ Mixing tower
- ◆ Plant layout

PRODUCT RANGE

AFTER SALES SERVICE

- ◆ Retrofitting
- ◆ Service
- ◆ Spare parts
- ◆ Training

What makes the BestBatch unique

EVOLUTION

A compact plant which performs well

The original compact design means optimum site organization. And to the competitive purchase price we can add reduced working / management costs plus low costs of transfer, erection and maintenance.

EASY TRANSPORT

...in total safety

BestBatch underlines the importance of transportability, with its containerized modules which make transfer not only quicker, simpler and cheaper, but also much more secure. All the component parts are protected from atmospheric degradation, risks of accidental damage and theft.



QUICK ERECTION

Quick installation and rapid profits

BestBatch distinguishes itself for its quick assembly and dismantling, made possible by the pre-cabing of the electrics for each module, together with the innovative design of the drum/filter unit which allows almost total integration of the parts.

ESSENTIALITY AND TECHNOLOGY

Simple and functional

This is the perfect plant for clients who need to produce asphalt and complete the laying operations in the shortest time possible, wherever the delivery site location may be. The modular design, even in its basic version, provides all the necessary fundamentals for managing and producing asphalt mixes. In addition, at any later date, extra metering systems can be integrated for all types of additive, high percentages of RAP into the mixer, plus modern warm mix asphalt kits.

SIMPLE TO USE AND MAINTAIN

Simple to use and comfortable spaces for easy maintenance

Conceived to minimize training time of operators and staff on site, BestBatch is easy to use and hard working round the clock. It is built with care and entirely manufactured in Italy with high quality, long-lasting materials for constant work regimes.



Dryer-filter unit

The filter is positioned directly above the dryer, which rationalizes the flow of gas and materials that require filtering. Ground space is optimized to allow good traffic circulation and refuelling operations.



Highly efficient dryer drum

- the dryer drum is made from special steel and saw welded
- the length of the cylinder, the velocity of the gases, the form and position of the paddles are optimized to grant adequate heat transfer and a low level of energy consumption
- a probe placed on the discharge chute guarantees constant control of aggregate temperature
- the aggregate discharge chute is protected by wear resistant plates (on request)
- the highly resistant stainless steel flight system is bolted to make maintenance interventions easier
- 4 motor operated systems command the start-up
- quick and easy conformance of the drum with external screw adjustments
- external cladding with aluminium sheet on dryer drum; rock wool insulation (on request)

Burner

The burner dryer unit is designed to provide high thermal yield by optimizing fuel consumption and limitation of CO₂ emissions.

Its characteristics are:

- simple, reliable and efficient closed burner
- automatic operation of lighting and regulation of heat, on the basis of the temperature of the aggregates discharged from dryer
- automatic start-up and heat-regulation operations, depending on temperature of aggregates discharged from mixer
- suitable for all types of fuel on the market: diesel oil, heavy fuel oil, natural gas, coal dust
- mechanical/electronic control of air/fuel ratio

Gas filtering

The high performance filter system together with an adequate fines storage system mean that the environmental regulations can be fully respected while a high-quality final product can also be obtained.

The combustion gases in the drum are transferred to the filter connected to the dryer, together with the fines. These gases reach the bag filter which filters the recovered fine material and discharges only clean air. The automatic cleaning of the bags with counter-flow air causes the fines to detach and fall through gravity.

Safety

Special attention is paid to safety, especially nowadays when plants produce special asphalts, such as RAP mixes. A double control at the filter entrance leads to the burner being turning off should the temperature be too high. The system can also be fitted with fresh air devices, on request, as a further safety measure.

Pre-separator

A pre-separator can be integrated into the filter (optional) to separate out the oversize fines, which can then be fed directly into the hot aggregate elevator.

Recovered fines circuit

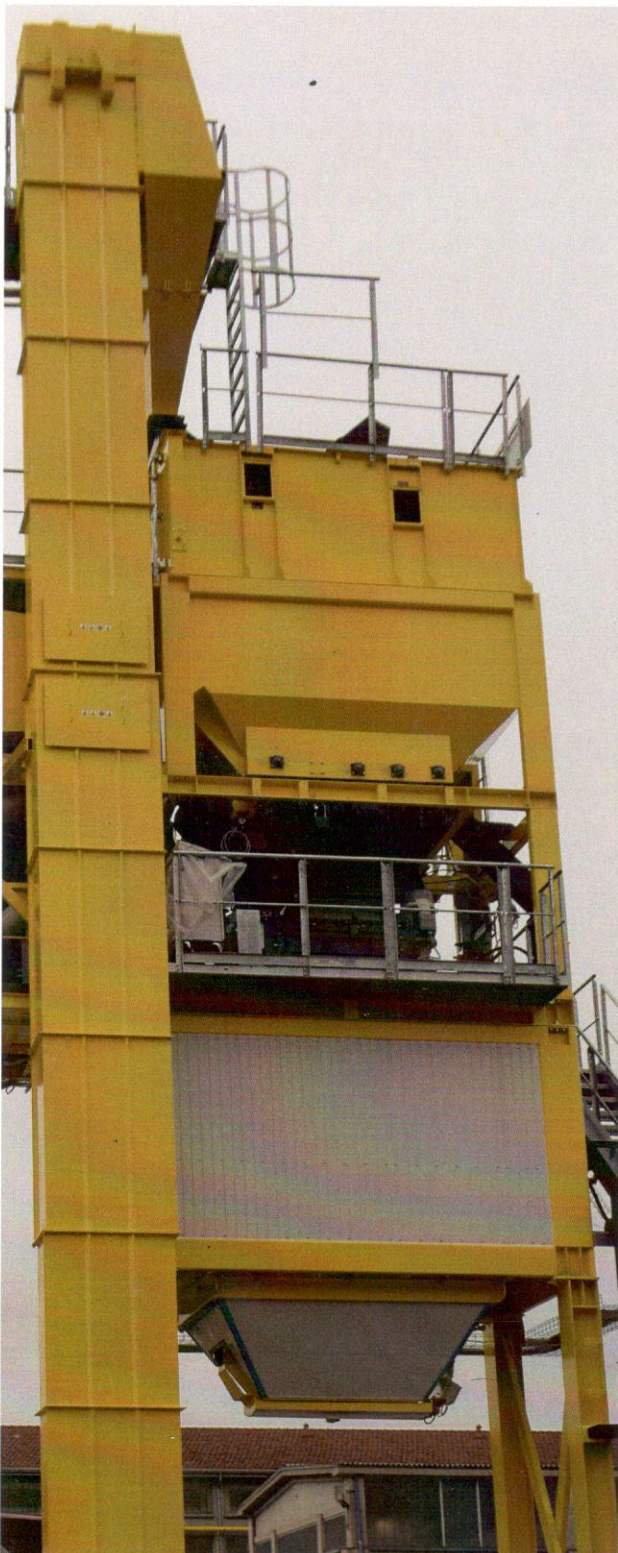
Two different solutions are adopted depending on the position of the finished product storage bins, which can be on the side of or underneath the mixer:

- in the first case the recovered fines are fed directly from the storage bin, located under the filter, to the weigh hopper via a screw conveyor
- in the second case, the recovered fines are fed from the storage hopper to a surge hopper via an elevator, then later transferred into the weigh hopper via a screw conveyor (not valid for BT 1500)



Mixing tower

Correct screening and precise metering are essential requirements for asphalt production. Comfortable points of access in the various tower modules allow easy maintenance interventions.



Hot elevator

- for feeding aggregates from dryer drum to the screen
- self-adjusting belt tension (with counterweights)
- sealed chain tension system
- double chain (marine) operation, easy maintenance (option single roller chain)
- safe and easy maintenance at foot of elevator

Vibrating screen

- 4 or 5 screens depending on model
- completely bolted frame
- automatic adjustment of mesh tension
- external mounted vibrators for easy maintenance all screens factory tested for upwards of 24 hours

Under screen storage

- one or more models with variable capacity, depending on production requirements
- by-pass stored in sand hopper

Bitumen metering

The bitumen metering (by gravity) allows the type of binder to be quickly changed, with no loss of material. The weigh hopper is mounted on load cell for maximum precision. It is emptied by an electrically heated throttle, operated by an electro-pneumatic jack.

Additive metering (option)

The mixer is set up for use with any kind of additive in various bag sizes, which means that all types of asphalt mixes can be produced (modified bitumen, warm mixes, etc.).

RAP metering into mixer (option)

Before entering the mixer, the material is weighed on a belt placed on weigh cells.

To allow the expulsion of the water vapour which forms when the RAP is fed into the mixer, the plant is fitted with specially designed pipes connecting to the bag filter.

Aggregate and fines metering

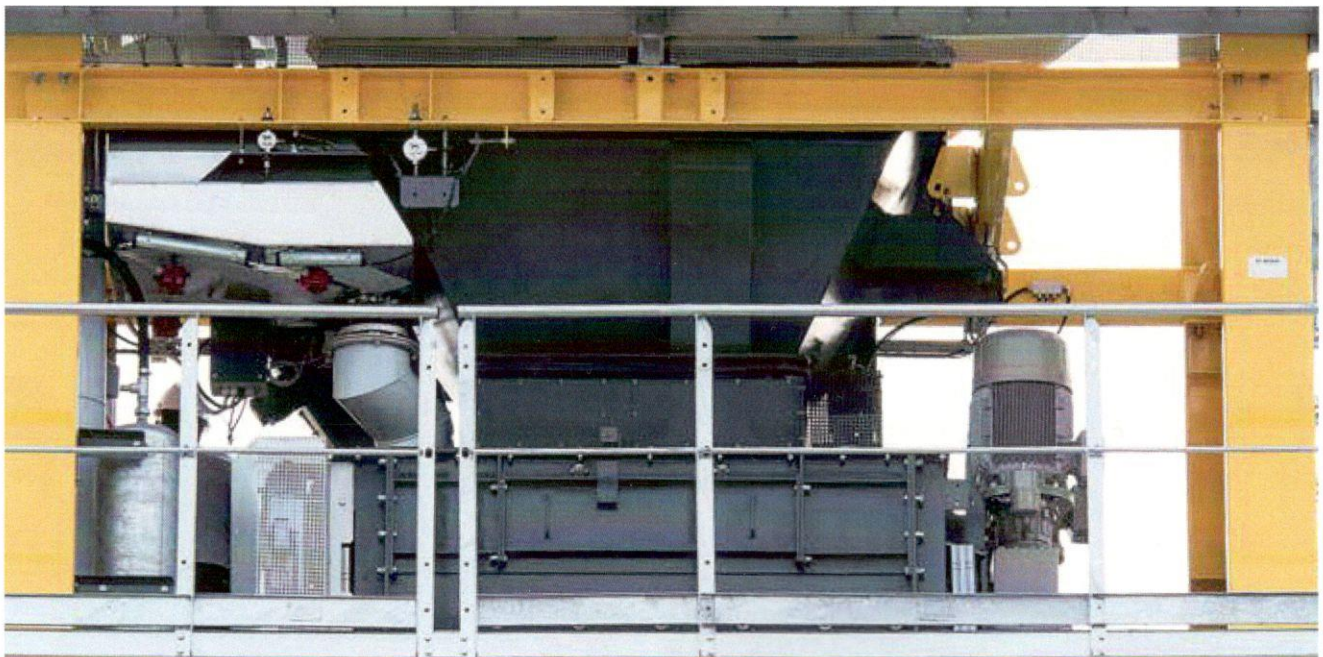
Both the aggregates and fines/filler are metered on special scales.

Mixer

The system of double shaft mixer operation consists of two gear motors directly coupled to the shafts with metal-bracket synchronized coupling. The arms and paddles are honeycomb shaped for the longest wear resistance.

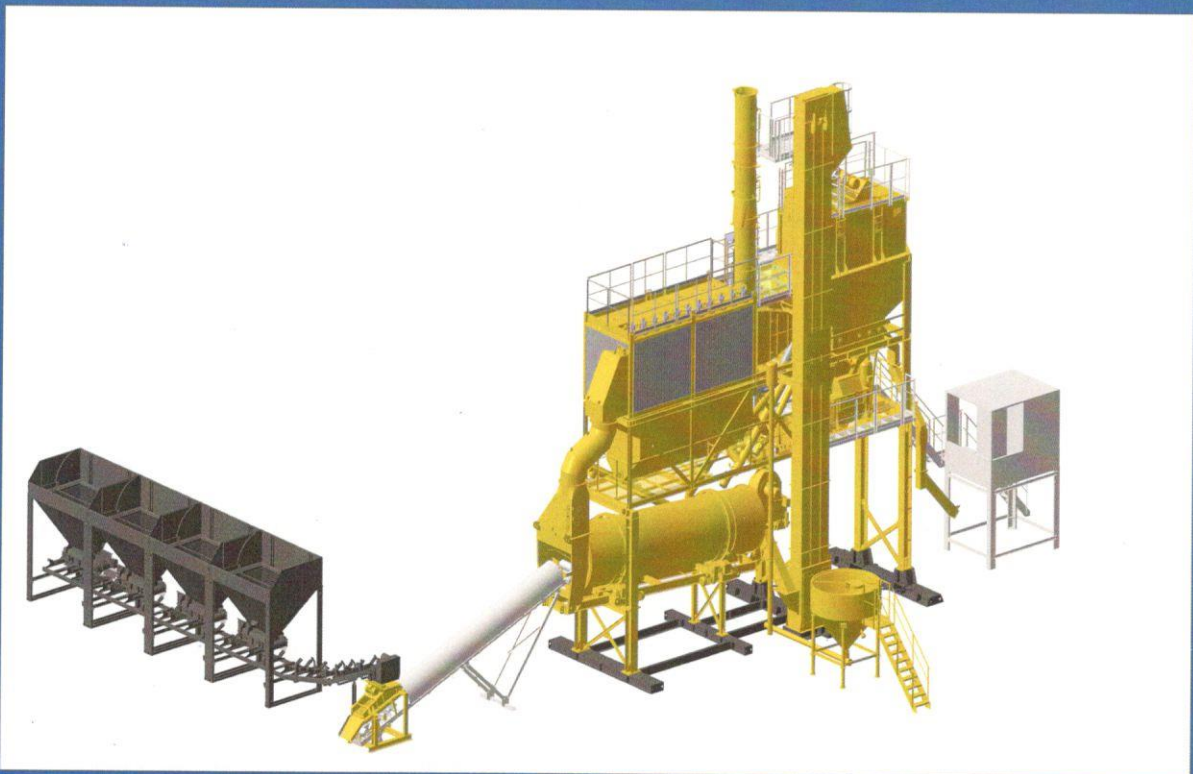
Maintenance

- bolted-on arms and paddles are easily replaced
- simple greasing of mixer on individual points
- safe and easy access for maintenance
- direct motorization, without transmission belts



Plant Layout

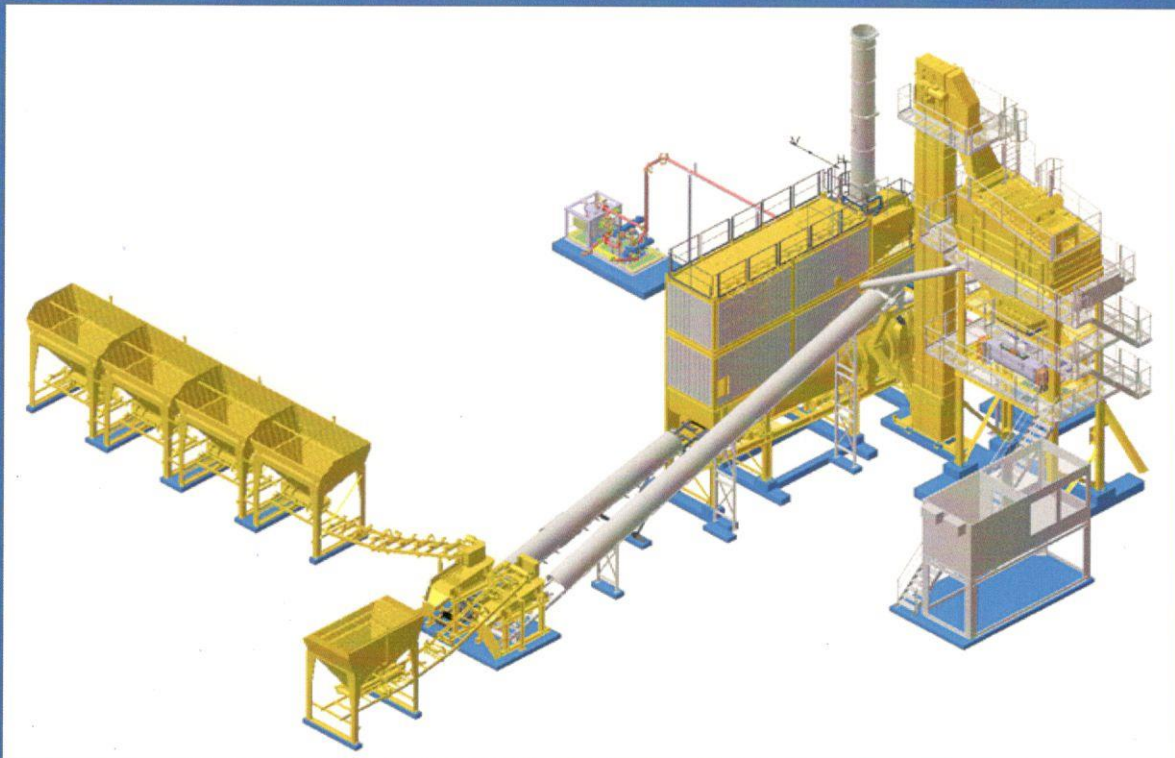
BestBatch 1500



- 1 storage and metering of virgin aggregates
- 2 storage and metering of recycled materials
- 3 drying-filtering unit
 - dryer drum
 - under filter storage silo
 - filter

- 4 mixing tower
 - hot elevator
 - screen
 - hot aggregate bins
 - metering of components
 - mixer
- 5 control cabin and automation

BestBatch 2000 - 2500



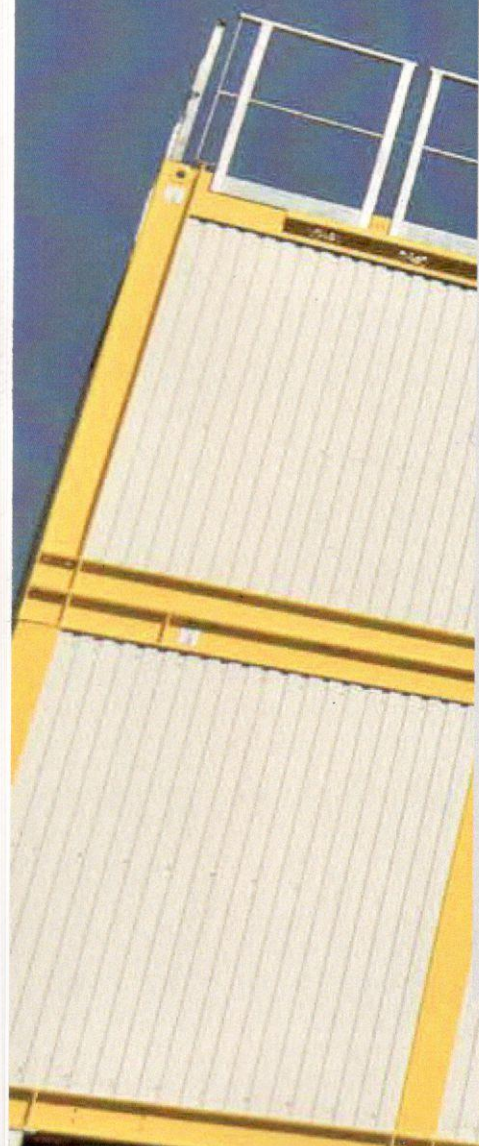
- 1 storage and metering of virgin aggregates
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 - dryer drum
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 - filter

- 4 mixing tower
 - hot elevator
 - fines elevator
 - screen
 - hot aggregate bins
 - metering of components
 - mixer
- 5 hot-mix asphalt storage
- 6 binder storage tank
- 7 control cabin and automation

BestBatch: product range



Type	BB 1500	BB 2000
MAX output	120 t/h	160 t/h
Plant capacity at 3% H ₂ O	120 t/h	160 t/h
Plant capacity at 5% H ₂ O	95 t/h	120 t/h
Cold feeders: type and number	on customer request	on customer request
Dryer drum	E180 (L=7.5 m/D=1.80 m)	E180 (L=8.5 m/D=1.80 m)
Burner power output	7 MW	9 MW
Recovered fines hopper	15.4 t	22 t
Filter surface	413 m ²	525 m ²
Screen surface total area	4 sel.= 14.6 m ² / 5 sel.= 17.6 m ²	4 sel.= 16.5 m ² / 5 sel.= 20.8 m ²
Under screen compartments	4 (5 as an option)	4 (5 as an option)
Hot aggregate storage under screen	17.3 t	20 t o 52 t
Mixer capacity	1.5 t	2 t
Imported filler storage	on customer request	on customer request
Bitumen storage	on customer request	on customer request
HMA storage / compartments	- direct loading - under mixer: 30 t in 1 compartment	- direct loading - under mixer: 30 t in 1 compartment 2 x 30 t in 2 compts 2 x 70 t in 2 compts - storage on side: 36 t + 45 t in 2 compts (optional up to 200 t)
Recycling	Up to 30% RAP	Up to 40% RAP





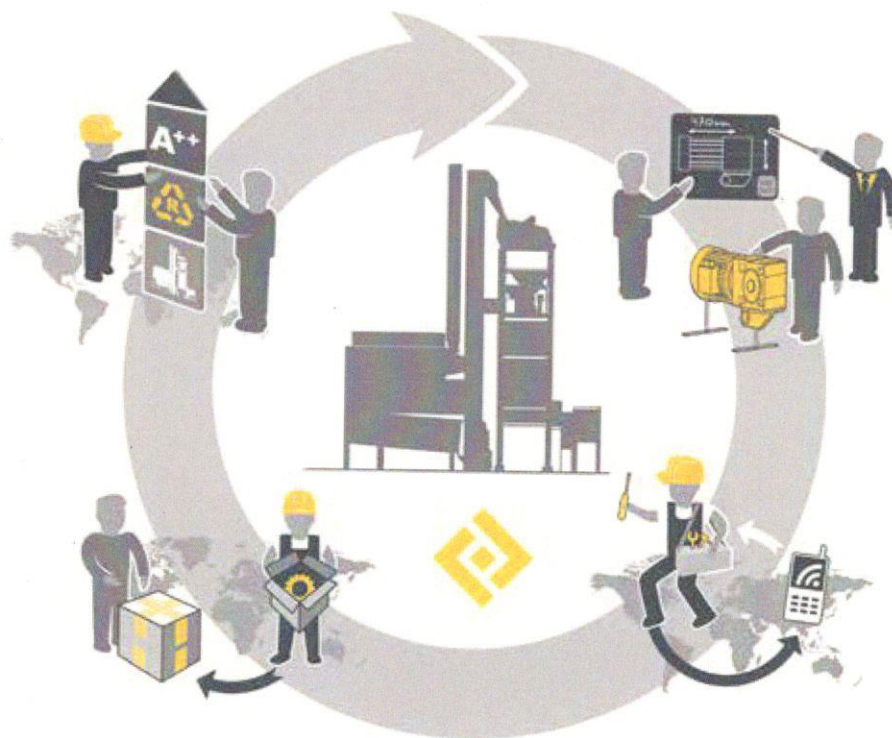
BB 2000 P	BB 2500	BB 2500 P
160 t/h	200 t/h	200 t/h
160 t/h	200 t/h	200 t/h
160 t/h	180 t/h	200 t/h
on customer request	on customer request	on customer request
E206 (L=8.5 m/D=2.06 m)	E206 (L=8.5 m/D=2.06 m)	E220 (L=9.0 m/D=2.2 m)
13.4 MW	13.4 MW	15 MW
26.5 t	26.5 t	25 t
663 m ²	663 m ²	750 m ²
4 sel.= 16.5 m ² / 5 sel.= 20.8 m ²	5 sel.= 26.9 m ² / 6 sel.= 32.1 m ²	5 sel.= 26.9 m ² / 6 sel.= 32.1 m ²
4 (5 as an option)	5 (6 as an option)	5 (6 as an option)
20 t to 52 t	20 t or 52 t	20 t or 52 t
2 t	2.5 t	2.5 t
on customer request	on customer request	on customer request
on customer request	on customer request	on customer request
- direct loading	- direct loading	- direct loading
- under mixer:	- under mixer:	- under mixer:
30 t in 1 compartment	30 t in 1 compartment	30 t in 1 compartment
2 x 30 t in 2 compts	2 x 30 t in 2 compts	2 x 30 t in 2 compts
2 x 70 t in 2 compts	2 x 70 t in 2 compts	2 x 70 t in 2 compts
- storage on side:	- storage on side:	- storage on side:
36 t + 45 t in 2 compts (optional up to 200 t)	36 t + 45 t in 2 compts (optional up to 200 t)	36 t + 45 t in 2 compts (optional up to 200 t)
Up to 40% RAP	Up to 40% RAP	Up to 40% RAP

Customer service

MARINI offers its customers the experience and professionalism of a team of experts, capable of offering consultancy and finding solutions regarding retrofitting, service, spare parts, training.

We can work together to:

- renovate old plants with the integration of new components
- improve plant efficiency
- increase plant capacity
- bring the plant up to current emission and eco-standards
- add kits and other packages to benefit from recycling
- implement modern technologies for warm mix asphalts



Retrofitting

New technical solutions for existing plants, replacement of obsolete or dated technologies, new life to parts needing replacement, upgrade to improve and complete the asphalt plant to give it a new lease of industrial life: this is the target of retrofitting.

Together with our team of experts and consultants, customers can identify the best solutions to achieve reliability and quick return on investment.

Service

Expertise and professionalism of the MARINI team is the core of service, perfectly integrated in our CUSTOMER SUPPORT programme, with the aim of creating an ongoing relationship of excellence.

Prompt efficiency, competence and knowledge support the day by day work and activities of our customers and plants all over the world.



Spare parts

Thanks to the experience accumulated over many decades and the expertise of its staff, MARINI is in a position to meet the requirements of the most demanding customers.

The company can trace and supply spare parts also for plants which are out-of-production and when this is not possible our experts can always provide the best alternative technical solutions.



Training

Well prepared and competent staff guarantee the productivity and reliability of the plant. This is why we have designed a package of four different training programmes, implemented in the new Training Academy or directly on site.

MARINI training programmes:

- a basic course for asphalt plant operators
- how to manage and run the dryer burner
- how to maintain the Asphalt Plant
- CYBERTRONIC: the MARINI control system



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