



*Press kit*

# BAUMA 2013 15 – 21 April 2013

***Press kit***



**eTOWER 2500, batch asphalt plant**



**SWIFT (pothole repairs)**



**BW 141-5 tandem roller**



**PR20 piling rig**



**Road Building Equipment Division**  
***Marketing and Sales Department***

# **BAUMA 2013**

## **15 – 21 April 2013**

### ***Press kit***

The FAYAT Group will be exhibiting over 4,800 sq.m. across blocks:

***F-1009 - 1008/1***

With its Road Building Equipment Division subsidiaries, which will be presenting an extensive range of road life cycle equipment as well as equipment for laying foundations. This will all be rounded off by a demonstration area.

The FAYAT Road Building Equipment range on display includes:

1. **Road machines:** BOMAG
2. **Asphalt production plants:** MARINI
3. **Road maintenance equipment:** BREINING-SECMAIR
4. **Foundation equipment:** PTC



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**Road Building Equipment Division**  
***Marketing and Sales Department***

## ***Press conference***

We are delighted to invite you to the  
**FAYAT Press Conference**  
scheduled as follows:

*BAUMA 2013 - Munich*  
***Wednesday 17 April 2013,***  
***Stand F-1009 - 1008/1,***  
***at 5 p.m.***

**Please make a note of this date now!**  
An official invitation will be sent to you in the coming weeks



**Road Building Equipment Division**  
*Marketing and Sales Department*

**BAUMA 2013**  
**15 – 21 April 2013**

***Brand policy***

## ***MIXING PLANT,***

### ***The world premiere for a new product***

MARINI will be exhibiting an **eTOWER 2500**. This new version of the TOP TOWER is not just **ECONOMICAL** - it is also **ADAPTABLE** over time. (Datasheet 01\_ FAYAT\_eTOWER2500) **ECONOMICAL**, because the focus is on transferability at reduced cost. The dimensions of the eTOWER range are such that it can be transported using ordinary carriers. No need for shuttles or exceptional convoys. Entrepreneurs want to be up and running promptly for small and medium-sized projects.

**ADAPTABLE**, because while the basic eTOWER version is a traditional production machine, several technical kits round off the range making the plant suitable for various markets:

- Recycling kit(s): the model on display combines recycling in the ring (up to 30%) and introduction in the mixer (20%). Both kits supplied together enable recycling at 40%.
- AQUABLACK kit, a foam bitumen generator for warm mix production.



The eTOWER range concerns low to medium rates (up to 180 tph), but has all the advantages of the TOP TOWER range.

All of the kits are adjustable, supplied initially or at a later date.

### **Other equipment**

We are also showcasing a containerised emulsion production plant (Datasheet 01\_FAYAT\_EP10).

### **MOBILITY PAVILION**

The ASPHALT PAVILION will be partially given over to the mobility and hypermobility of asphalt plants. The FAYAT Group has extensive expertise in both continuous and batch solutions, and the ROADBATCH, ROADSTAR and ROADMASTER are just some examples of our international references. The mobility pavilion will present the range of possible solutions.

# ***BOMAG road machines***

## ***Demonstration of ranges***

**BOMAG** will be presenting a large section of its range, broken down into:

- Treatment and compaction of soils,
- Asphalt compactors,
- Asphalt pavers,
- Road milling planers,
- Small equipment.

The appendix contains **8 technical datasheets** corresponding to major new products (See 03\_ Road\_Machinery). The exhibition's star products will be:

The new **MPH 600**, a soil stabiliser and recycler for deep coats that rounds off the MPH 122 and 125 range. BOMAG is methodically forging ahead with a development project undertaken in 2003 and continued in 2010 with the 125, by offering a full range for entrepreneurs in line with their needs: foamed bitumen and/or solution with hydraulic binders. On the same subject, a new cement sprayer range is also being showcased at BAUMA.

A **BF 900** paver-finisher is fitted with a new 13-metre wide spreader box.

Less impressive but essential for a job well done are the new **ERGONOMICAL** and **ECONOMICAL** compaction plates. BOMAG will be holding a major exhibition of these new products, and a sweeping demonstration area simulating a small town will give visitors an idea of their quality.

Last but not least, we draw attention to the new tandem compactors: the **BW 145** and **177** will take centre-stage among the productive tandems as products in full development. They will be presented alongside the new range of series 5 hinged tandem compactors in the 6-8 ton category. Highly **ERGONOMICAL**, they boast exceptional manoeuvrability and a spacious control station. **ECONOMICAL**, they are

equipped with the **ECOMODE** system that BOMAG has applied more widely each time it has introduced new equipment, making fuel savings of 30% possible.

## **WARM MIXES**

FAYAT Road Building Equipment is the only supplier to have a complete range of equipment devoted to warm mixes - ranging from production to compaction.

MARINI's production plant eTOWER fitted with the **AQUABLACK** foam generator delivers checked and controlled products that are applied with the sturdiest spreader boxes on the market. The pre-compaction checks conducted behind the new spreader boxes **S 500** and **600** reveal high pre-compaction indexes, ahead of the competition, which can reach up to 94% of Marshall density. Lastly, the **ASPHALT MANAGER** is *the* smart compactor to opt for - allowing entrepreneurs to reduce the number of compaction passes in complete safety.

To explain the chain of equipment recommended by the FAYAT Group for warm mixes, a specific information station will be set up in the **ASPHALT PAVILION** where visitors will be able to get advice from experts.

Warm mixes account for around 30% of asphalt production in North America and are swiftly gaining ground in Europe (particularly Scandinavia, France and Italy).

***Maintenance equipment,  
ECONOMICAL solutions  
for mature road networks***

The FAYAT Group's Maintenance equipment is being showcased under the **BREINING-SECMAIR** brand.

Three big newcomers will be taking to the stands (Datasheets 02\_FAYAT\_NOVASEALER, 02\_FAYAT\_SWIFT and 02\_FAYAT\_UBV4 attached):

- Making its first appearance on the international stage, the multifunction sprayer **UBV4** is a versatile tool perfect for small work sites that require tack and prime coats as well as water and diesel supply for example. This equipment is mainly intended for the Germanic and Eastern Europe markets where this type of multifunction tool is in high demand.
- The **NOVASEALER** is the most sophisticated expression of the SLURRYPAVER BREINING, a microsurfacing machine fitted with an integrated bar for the tack coat. Extremely thin layers of cold mix asphalt are in high demand in shearing and last three times longer when applied to a healthy surface. The new German standards require this innovative and ECOLOGICAL solution.
- Last but not least, **SWIFT** is the sustainable solution for pothole treatment. This 2012 equipment has now passed the performance tests with flying colours - particularly in France - and is available throughout Europe.



***Foundation equipment,  
the 20RHFV by PTC,  
vertical vibrodriver  
for the new range of piling rigs***

PTC has completed its range of free hanging vibrodrivers with a range of piling rigs.

Advantages of the piling rig solution compared with a traditional free hanging solution:

- Higher productivity (centralised control station, reduced handling, driving power).
- Positioning and alignment of profiles thanks to the adjustable mast, eliminating the need for the guide.
- Compactness: takes up less space (no crane boom).

This new vertical vibrodrivers range RHFV is extremely narrow and perfectly fitted for urban areas. Its variable moment technology allows controlling the vibration amplitude, therefore reducing the environmental impact.

The **20RHFV** exhibited at Bauma is one of the four vibrodrivers making up this new range (the other three models are: 16RHFV, 16RHFVS and 24RHFV).

## eTOWER 2500, *The new generation of MARINI batch asphalt plants*

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### *The situation*

*Following the success of the TOP TOWER range presented at the last two trade fairs, at Bauma 2013 MARINI is unveiling a new family of batch asphalt plants with an output below 200 tph: eTOWER.*

*The eTOWER range currently comprises two models: the eTOWER 2000 (150 tph) and eTOWER 2500 (180 tph), presented at the trade fair.*

### *An innovative design*

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The eTOWER benefits from and builds on the design principles that forged TOP TOWER's reputation, particularly the drying/filtering tower principle. The innovative positioning of the filter and under-filter hopper, above the dryer drum, makes for significant energy savings.

- **The gas circuit is optimised**

Unlike more traditional systems, the duct between the dryer and filter is short and insulated, which prevents any energy loss.

- **The recovery fines circuit has been completely redesigned**

The fines are collected in the under-filter hopper by gravity and then conveyed to the fines weighing hopper either directly by screw or via a fines elevator.

The bigger fines collected in the pre-separator are conveyed by gravity to the inlet of the hot elevator.

Both these innovations eliminate the need for many screw conveyors and therefore result in considerable savings both in terms of electricity consumption and maintenance costs.

- **The energy given off by the dryer is recovered.**

Captured by the under-filter hopper located just above, the energy released by the dryer drum keeps the recovered fines in a hot atmosphere and they therefore do not need heating again later.

- **An easy-to-maintain screen**

The mixing tower has not been overlooked, since the eTOWER is fitted with a new-generation screen designed with ergonomics and safety constantly in mind. Access to the screen grids is easy and, above all, each grid can be replaced without having to dismantle one or more of the other grids beforehand. This exclusive advantage means that these maintenance operations can be carried out in record time, without encroaching too much on operating time.

### *Perfectly tailored to the requirements of the modern world*

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- **Recycling in all its forms**

The eTOWER can use all modern recycling systems. The configuration presented thus comprises two systems for introducing RAP: a recycling ring and direct introduction in the mixer via a specific elevator. Their combined use means that recycling rates of nearly 50% can be achieved. For even higher recycling rates, the plant can be equipped with an additional parallel dryer drum for RAP.

- **The ideal companion for warm-mix asphalt**

The eTOWER has naturally been designed to be able to gain from all recent developments in terms of warm-mix asphalt production, whether involving the injection of liquid or solid additives, foam bitumen generation or specific introduction cycles of materials. The eTOWER 2500 is fitted with the AQUABlack foam bitumen production system, so the final asphalt temperature can be cut by more than 30°C thanks to its patented Foaming Gun, in complete serenity.

- **Unrivalled flexibility**

The dimensions, adaptable design and factory-integrated electric wiring of the eTOWER endow it with a degree of transferability never before achieved on plants of this size – all in stringent compliance with the new European safety requirements. The model presented is a storage-under-mixer design, equipped with ProfiBus technology and mounted on metal foundations for quick assembly and dismantling.

### *A complete range*

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With the TOP TOWER and eTOWER ranges, MARINI can cover all production outputs from 80 to 300 tph, with the latest-generation plants that are easy to move and assemble, energy-efficient and perfectly suited to modern formulations incorporating RAP and warm mixes.

## SWIFT, *Durable, economical and ergonomic pothole repair*

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### ***The situation***

***Road networks are becoming increasingly pitted with potholes. A lack of funding given over to maintenance, combined with the disastrous effects of harsh winters, is aggravating this situation.***

### ***FAYAT recommends: SWIFT***

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This is a machine that contains everything operators need to repair a pothole. What's more, SWIFT is an ergonomic machine effective at helping to prevent musculoskeletal disorders in operators.

### ***Principle***

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SWIFT is the "all-in-one" machine integrating:

- a 2,000-litre capacity emulsion tank,
- a 4 m<sup>3</sup> hot-mix hopper,
- a pneumatic drill,
- a compactor,
- a 200-litre water tank,
- a storage area for road signs.

The tools are easy to hold, and positioned at the ideal height in boxes designed for this operation. All of the heavy equipment (pneumatic drill, compactor, etc.) is unloaded using a hoist.

### ***Conclusion***

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This road machine is a multifunctional tool dreamt up by users to perform a job that never used to be very rewarding. Our objective is to make the job more reliable and obtain a long-lasting result at low cost.

## New Vibrodriver PTC 20RHFV Specially designed for working on piling rigs

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### ***The situation***

***Worksites that require piling or extraction of profiled sections (sheet piling, H, concrete or wooden piles) in record time now have access to a highly productive solution: piling rigs.***

Piling rigs have several advantages:

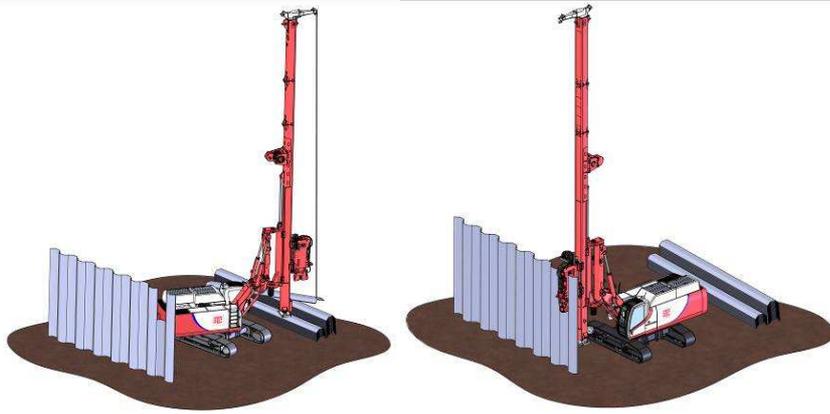
- An integrated solution including the rig with its guiding pole, as well as the power source for supplying various piling tools: Vibrodriver, hydraulic hammer, press.
- The driving time is cut sharply as the rigs are fitted with a powerful winch that can drive the piling tool with significant force.
- Take up minimum space and highly mobile – both highly sought-after properties on urban worksites.
- Precise positioning and aligning of the profiled section. In general, it is not necessary to use a guide for sheet piling or other piles.

### ***A vertical Vibrodriver with no resonance and ideally suited to sheet pile curtains***

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PTC's new Vibrodriver, the 20RHFV model, has been specially designed for use with piling rigs that have a pole. This Vibrodriver is equipped with variable moment technology (PTC patent) enabling the scope to be adjusted at any time on the worksite and strict control of the vibrations emitted in the environment. With this variable moment technology, it is therefore possible to work in urban areas without affecting surrounding structures.

The 20RHFV is a vertical Vibrodriver characterised by a particularly reduced centre width (450 mm). This compactness means that it can easily be fitted through two sheet piles when producing a sheet pile curtain, and users can therefore drive or pull up faster without having to stop as often because of adjacent sheet piles.



Driving of a sheet pile curtain using a Vibrodriver @20RHFV

### **The perfect pair: PTC PR20 piling rig & Vibrodriver 20RHFV**

The range of four PTC rig models includes the PR20 model, which is the most suitable piling rig in terms of power (470kW) for supplying the Vibrodriver 20RHFV. This pair can be used to work with profiled sections up to 22m long.

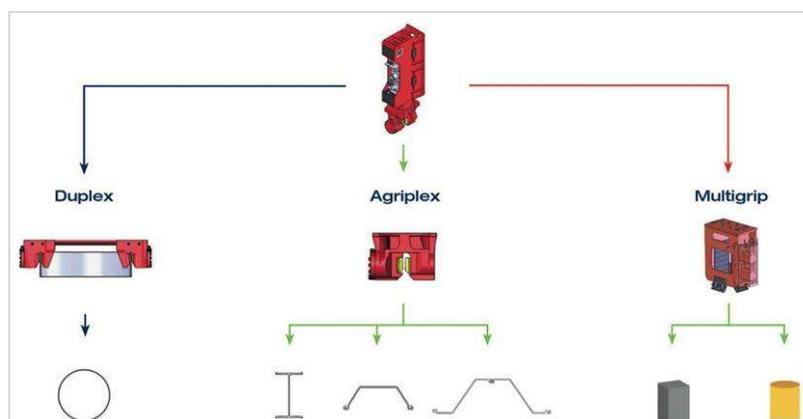
The PR20 rig pole is equipped with a powerful winch that can apply a force of 25 t on the Vibrodriver, thus helping to obtain faster driving. For pulling-up work, the extraction force is 20 t.

The Vibrodriver PTC 20RHFV can be installed very quickly on PTC piling rigs and fitted on other makes of rig too.

### **For all sorts of profiled sections**

PTC offers a variety of clamp types for using the Vibrodriver 20RHFV with all sorts of profiled sections:

- The Duplex clamp: for working with casings, the two clamps slide on a Tee to be fitted to casings of different diameters.
- The Agriplex clamp: for working with all types of sheet piling – individual or in pairs – as well as H piling.
- The Multigrip clamp: for working with square or round concrete or wooden piling.



## ***Conclusion***

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Using the Vibrodriver 20RHFV with variable moment technology enables rig operators to work in urban environments with an extensive choice of profiled sections, considerable productive gains and no vibratory disturbance.