

SUPER 800-3i Small Paver with a Maximum Range of Applications

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The SUPER 800-3i is an extremely compact mini **paver** that is supremely capable of handling a large number of applications. The range of pave widths extends from 0.5 to 3.2m. Whether surfacing narrow farm tracks or minor roads, paving close to walls and edges or between tram lines or in buildings, when it comes to confined spaces the Mini Class **paver** from **VÖGELE** really shows what it's capable of. That makes the SUPER 800-3i the ideal choice in towns and cities as well as for landscaping applications. As such, it is particularly interesting for local authority contractors.

The Mini Class **paver** comes with a powerful 4-cylinder Deutz diesel engine delivering 55.4kW, 20% more power than its predecessor. The variable-speed fan also ensures just the right amount of cooling, reducing both the engine load and noise emissions. The suffix "i" stands for "intelligent emission control" and designates all machines from the WIRTGEN GROUP that are equipped with the latest engine technology. Thanks to a sophisticated after-treatment system, these engines comply with the strict exhaust emission standards governing mobile machinery in EU/EFTA countries, the USA and Canada.

When it comes to technology, the SUPER 800-3i can easily keep pace with the large "Dash 3" **pavers**. The material conveying concept is ingenious, as is the innovative ErgoBasic operating system. But that's not all. The Mini Class paver now also boasts a traction drive in closed loop controlled electronically, ensuring constant tracking and precise cornering. And finally, the excellent price/performance ratio of this small paver is not the least of its attractions.

Compact, light and manoeuvrable

When the site is narrow, short or low, that's when the SUPER 800-3i comes into its own. Its dimensions make it the ideal candidate for landscaping applications as well as for surfacing car parks, farm tracks, cycle paths and footpaths. The well-conceived design of the machine permits it to pave to within 5cm of boundaries, for instance. Meanwhile, thanks to its low overall height of less than 2m, it can operate in low spaces or under canopy roofs. The small clearance width of 1.4m means that even narrow entrances or gates are no obstacle. What's more, with its low outer track gauge of just 1.14m, the mini **paver** has no problem paving in the milled strip of a small milling machine such as the W 130 from WIRTGEN.

Several feeding options and optimum flow of mix

Weighing 5.8t, the material hopper with separately folding sides is designed so that the machine can always be supplied with mix in the best, most cost-effective way, whether from the front by lorry or from the side using a wheeled loader. As a result, the push-rollers can be moved to the left, for instance when paving along walls. When combined with an asymmetrical material hopper, the paver can be conveniently supplied with material by a lorry even in this situation.

The **pavers** in **VÖGELE**'s Mini Class also come with powerful material handling systems. To achieve an optimum head of mix in front of the screed, a controlled feed with mix and constant monitoring are of utmost importance. The large material hopper holds an ample supply of mix, while the wide conveyor tunnel permits a high throughput. Homogeneous spreading of material is ensured by the large auger blades with a diameter of 300mm. In addition, the height of the augers is infinitely variable, even hydraulically as an option. Centrally supported augers without outer bearings also minimize the risk of material segregation and ensure uniform spreading of material in front of the screed.

The new ErgoBasic operating concept

The ErgoBasic operating system was developed on the basis of the proven ErgoPlus concept, which is installed in **VÖGELE**'s large **pavers**, and tailored specifically to the needs of Mini Class applications. The aim was to develop an operating system for the small paver that was just as quick, precise and intuitive to operate as the system for the large machines. That makes **VÖGELE** the only manufacturer to offer a standardized operating concept for all **paver** classes.

ErgoBasic operating console – Full control for the operator

The functions are arranged in a clear, logical and practical layout that has been inspired by the ErgoPlus operating console. The types of controls and the symbols used are all in line with those of an ErgoPlus console but have been tailored to the functions of a small paver. There is no need for a display because the status of all settings is indicated as a percentage on LED strips immediately next to the relevant function. The LEDs also indicate the set speed selected for the augers and the compacting systems as well as the fill level of the fuel tank.

ErgoBasic remote control unit for the screed – The ultimate in user friendliness

The safe and easy handling of all screed functions is a key factor in high-quality pavement construction. That's why the ErgoBasic remote control unit for the screed was developed specifically for the new SUPER 800-3i. Its keypad is laid out logically according to the functional processes. Designed for robustness, it is well able to withstand tough job site conditions. Operation of ErgoBasic is easy to understand and can be learnt intuitively in a very short space of time, not least because the symbols used in the proven ErgoPlus operating system were adopted in the design.

The ErgoBasic remote control unit for the screed allows all paving-related functions to be set quickly and easily. That includes direct access to the material handling systems and the sonic sensor for the auger. There is a remote control unit for each side of the screed. It can either be held in the hand or fixed to magnetic brackets provided on the left and right side of the screed and next to the operating console on the **paver** operator's stand.

Niveltronic Basic, the automated grade and slope control for the Mini Class

To fit the ErgoBasic operating concept, **VÖGELE** have also developed a suitable automated grade and slope control system, the Niveltronic Basic. Fully integrated into the machine's control system, its main benefit is its easy use. There is a separate remote control unit for each side of the screed. Mechanical sensors and sonic sensors as well as a slope sensor can be connected for grade and slope control. A laser receiver is even available for paving work in larger sites. The Niveltronic Basic grade and slope control system detects the type of connected sensor automatically.

Precision on tracks

Thanks to powerful separate drives fitted into the sprockets of the crawler tracks, engine output is translated into pave speed with no loss of power. In addition, the 1500 x 180mm-long crawler tracks fitted with rubber pads deliver maximum traction thanks to the large ground contact. This ensures a constant forward speed even when operating on difficult terrain. What's more, the electronic control of the separate drives in the two crawler tracks permits constant tracking and precise cornering.

VÖGELE extending screeds for perfect pavement quality

The new AB 220 Extending Screed in TV version is specially designed for use with the SUPER 800-3i. The screed is designed to play to the strengths of this Mini Class **paver**. Not only does it deliver the greatest possible variability, it also ensures compliance with **VÖGELE**'s own quality standards.

The range of pave widths extends from 0.5 to 3.2m. With a basic width of 1.2m, the AB 220 TV can be extended hydraulically to a width of 2.2m. Equipped with tamper and vibrators, it achieves outstanding pre-compaction results.

The screed can be easily built up by means of bolt-on extensions. That broadens the range of applications of the SUPER 800-3i with the AB 220 TV from the rehabilitation and renewal of minor roads to the backfilling of narrow trenches. Backfilling is performed easily and to a high level of quality thanks to the system for pave width reduction. Once installed, it means the pave width can be reduced infinitely down to 0.5m without the need for any modifications. Since the screed floats on the mix even with the system for pave width reduction installed, it achieves optimal pre-compaction here, too.

Source: PREWE; JOSEPH VÖGELE AG