



High rigidity: high laydown rates and pave widths of up to 18 m can be achieved with fixed-width screeds from Vögele.

IMAGE SOURCE: WIRTGEN GROUP; Vögele

Vögele screeds bring quality to the road

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The technology used by SUPER road pavers to deliver high-quality asphalt paving all over the world

The **Vögele** product portfolio of road pavers enables users to cover practically any application in asphalt paving. The range of screeds is correspondingly broad, covering twelve models in up to five different compaction variants.

Wide range of models

They manage pave widths between 0.5m and 18m and layer thicknesses from a few centimetres to half a metre: screeds are a core competence for Vögele. Whether the project is paving a footpath or cycle path, rehabilitating a public street or completing a motorway, when high-speed working and precision are key, Vögele pavers and screeds enable paving crews to master a wide variety of requirements.

Where flexibility is a priority and projects feature frequent significant changes in pave width, pavers are equipped with particularly variable extending screeds (AB). Asphalt experts rate fixed-width screeds (SB) for their high degree of rigidity and pave width, above all in the construction of major roads. With its VF and VR screeds, the road paver specialist also addresses regional market requirements for specific screeds - for the North American market in particular.

What all screeds have in common is the proven electric screed heating system. It gets all parts in contact with the mix, such as the screed plate and the compacting systems, up to temperature quickly and evenly. Vögele also places great importance on simple, intuitive operation. On Classic Line pavers, this is achieved through the ErgoBasic paver operator's consoles and on Premium Line pavers, through the ErgoPlus 3 screed operator's consoles. Both operating concepts are based on the same principle, simplify work and allow switching between different screeds without the need for induction.



Extending screed (left) and fixed-width screed (right) from Voëgele: the company supplies these key technical components of SUPER road pavers in twelve different variants.

IMAGE SOURCE: WIRTGEN GROUP; Voëgele

Extending screeds: systematic variability

Voëgele extending screeds are particularly adaptable, enabling them to manage varying widths and winding roads. They cover a huge range of pave widths ranging from 0.5 m (with cut-off shoes) to 9.5 m (with bolt-on extensions). The operating principle of all extending screeds is the single-tube telescoping system. Even at maximum extension, the three-part, generously-proportioned telescopic tube is still clamped along half its width, providing optimum stabilisation.

Fixed-width screeds: full width, high performance

Fixed-width screeds deliver high-quality, even results, as they are characterised by a high degree of rigidity which allows them to pave surface courses up to 18 m wide without joints. Hydraulic bolt-on extensions also give users of fixed-width screeds room for manoeuvre to vary pave width by up to 1.25 m on each side.

Proven compaction technology

Vögele supplies screeds with a variety of compacting systems: the suffix “V” is for screeds with the “vibrators” compacting system, whilst “TV” means an additional tamper and “TP1” and “TP2” stand for high-compaction screeds with one or two pressure bars. This is how the specialist satisfies its customers’ individual requirements. So it is that some of the screeds for the SUPER pavers of the Mini and Compact classes and the VF and VR screeds for North America are equipped only with vibrators, whilst other markets use mainly the TV variant, i.e. a screed with vibrators and tamper.



High degree of flexibility: Vögele extending screeds are particularly variable, enabling them to manage even job sites with frequently and significantly varying pave widths.

IMAGE SOURCE: WIRTGEN GROUP; Vögele

Screeds with hydraulic tamper stroke adjustment

The tamper actively tamps the mix under the screed plate, therefore ensuring that the layer of asphalt is precompacted to a significant degree. A correctly-set tamper is of key importance for the compaction result and for the floating behaviour of screeds. As it is a complex process to adjust the tamper stroke mechanically, it is often not adjusted at all, which is why Vögele developed the hydraulic tamper stroke adjustment system. This system enables paver operators to set the ideal tamper stroke for the task in question quite simply at the touch of a button: on the latest screeds, the touch of a button on the paver operator's console switches to a 4 mm or an 8 mm stroke.

Pressure bars for a compaction performance of up to 98%

Pressure bars driven by pulsed-flow hydraulics are the core of High Compaction Technology. This is the technology which enables screeds of the TP1, TP2 and TP2 Plus variants to achieve the greatest possible compaction performance. The highest-performing screeds are the AB 500 TP2 Plus and the AB 600 TP2 Plus. These are used mainly on the InLine Pave train. During the rehabilitation process, the binder course and the surface course are paved one immediately after the other. In this case, the high compaction screeds compact the binder course at values of up to 98% – without rolling.

Source: WIRTGEN GROUP; Vögele