**VÖGELE screeds - because building roads is a precision job**

Screeds apply the mix to the road, profile it and compact it. Their technology is critical for the quality and durability of a road, which is why VÖGELE has been heavily committed to investing in the further development of screeds for decades now. The result is a wide range of especially powerful extending and fixed-width screeds to provide the required flexibility for any road construction job.
## Product overview

### Extending screeds

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<td>up to 3.4 m</td>
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<td>AB 480</td>
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<td>up to 6 m</td>
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<td>up to 4.75 m</td>
<td>5.95 m</td>
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<tr>
<td>VF 600</td>
<td>3.05 m</td>
<td>up to 5.95 m</td>
<td>7.75 m</td>
<td>V</td>
</tr>
<tr>
<td>VR 600</td>
<td>3.05 m</td>
<td>up to 6 m</td>
<td>8.6 m</td>
<td>V</td>
</tr>
</tbody>
</table>

### Fixed-width screeds

<table>
<thead>
<tr>
<th>Screed Type</th>
<th>Basic Width</th>
<th>Infinitely Variable Range</th>
<th>Maximum Pave Width</th>
<th>Compacting Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB 300</td>
<td>3 m</td>
<td>2.5 m</td>
<td>16 m</td>
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</tr>
<tr>
<td>SB 300 HD</td>
<td>3 m</td>
<td>2.5 m</td>
<td>12 m</td>
<td>TV</td>
</tr>
<tr>
<td>SB 350</td>
<td>3.5 m</td>
<td>2.5 m</td>
<td>18 m</td>
<td>TV</td>
</tr>
</tbody>
</table>

**Key:**
- AB = extending screed
- SB = fixed-width screed
- VF = screed with front-mounted extensions
- VR = screed with rear-mounted extensions
- TV = with vibrators
- TP1 = with tamper and 1 pressure bar
- TP2 = with tamper and 2 pressure bars
- TP2 Plus = with special tamper, 2 pressure bars and additional weights

### Screed versions

<table>
<thead>
<tr>
<th>Screed Type</th>
<th>Paver</th>
<th>Compacting systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPER 700(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 800(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1000(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1003(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1300-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1303-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1600</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1603</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1600-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1603-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1700-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1703-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1800-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1800-3(i) SprayJet</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1803-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 1900-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 2000-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 2003-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 2100-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 2100-3(i) IP</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SUPER 3000-3(i)</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
VÖGELE extending screeds -
the system behind variable widths

VÖGELE extending screeds are particularly adaptable, making them ideal for paving varying widths and winding roads. They cover a huge range of applications, handling pave widths from 0.5 m to 9.5 m. They can be equipped with various compacting systems depending on the type of paver used. The screed versions range from the simplest design with vibrators (V) to the most powerful high compaction screeds with tamper (T) and 2 pressure bars (P2).
The highlights of extending screeds

- **Safe, convenient screed step**
The walkway and convenient central step on the screed allow **safe, convenient access to the paver operator’s platform**.

- **Ergonomic screed operator’s console**
The height and orientation of the console are easy to adjust. The **high-contrast colour display** can be read clearly from all angles.

- **Hydraulic crown adjustment**
Crown can be conveniently adjusted **at the touch of a button** on the screed operator’s console.

- **Highly efficient screed heating**
The **modern three-phase AC generator** rapidly heats all the components of the screed to the ideal operating temperature.

- **Outstanding paving characteristics**
Optimized geometry of the tamper bar and the screed plates achieves particularly **stable floating behaviour of the screed**.
AB 220 Extending Screed

The AB 220 Extending Screed delivers maximum precision and high precompaction values on our small pavers. It is available in 2 screed versions. The AB 220 V with vibrators was thus designed specifically for use with the SUPER 700(i), whilst the AB 220 TV with tamper and vibrators is matched to the SUPER 800(i).

Both versions have a basic width of 1.2 m and can be extended hydraulically to a width of 2.2 m. Bolt-on extensions can be used to extend the AB 220 V to a maximum pave width of 3.2 m, the AB 220 TV to 3.5 m.

### Pave widths

<table>
<thead>
<tr>
<th>Pave widths</th>
<th>0.5 m to 3.5 m*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic width</td>
<td>1.2 m</td>
</tr>
<tr>
<td>Infinitely variable range</td>
<td>up to 2.2 m</td>
</tr>
</tbody>
</table>

### Bolt-on extensions

<table>
<thead>
<tr>
<th>Bolt-on extensions</th>
<th>25 cm (V/TV)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>55 cm (V/TV)</td>
</tr>
<tr>
<td></td>
<td>65 cm (TV)</td>
</tr>
</tbody>
</table>

### Variable adjustment

| Variable adjustment | 0.5 m to 1.2 m |

### Crown adjustment

| Mechanical | -2% to +4% |

### Compacting systems

<table>
<thead>
<tr>
<th>V</th>
<th>TV</th>
</tr>
</thead>
</table>

| Maximum pave width | 3.5 m |

### Transport dimensions (basic screed)

<table>
<thead>
<tr>
<th>Width</th>
<th>1.27 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth</td>
<td>0.76 m</td>
</tr>
<tr>
<td>Weight</td>
<td>720 kg (V) 820 kg (TV)</td>
</tr>
</tbody>
</table>

### Screed heating

| Heating | screed plates and tamper bars heated by means of electric heating rods |

### Subjects to technical changes.

*Depending on paver type.
**AB 340 Extending Screed**

The **AB 340 Extending Screed** is the perfect match for the compact pavers of the 1000 and 1300 classes. With a basic width of 1.8 m and a maximum pave width of 5 m, the screed is the ideal size for constructing combined footpaths and cycle paths, minor rural roads and narrow roads or squares. The AB 340 is available in screed versions V (with vibrators) and TV (with tamper and vibrators).

In both versions, the compacting systems are installed across full screed width, including bolt-on extensions.

A typical VÖGELE feature, also found in the AB 340 Extending Screed, is high-performance electric heating. The modern heating system quickly and uniformly heats the screed to operating temperature, ensuring a smooth paving result.

<table>
<thead>
<tr>
<th>Pave widths</th>
<th>V</th>
<th>TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pave widths</td>
<td>0.75 m to 4.2 m (V)*</td>
<td>0.75 m to 5 m (TV)*</td>
</tr>
<tr>
<td>Basic width</td>
<td>1.8 m</td>
<td></td>
</tr>
<tr>
<td>Infinitely variable range</td>
<td>up to 3.4 m</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bolt-on extensions</th>
<th>V</th>
<th>TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolt-on extensions</td>
<td>25 cm (V/T)</td>
<td>30 cm (V)</td>
</tr>
<tr>
<td>40 cm (V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55 cm (TV)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80 cm (TV)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reduction in width</th>
<th>V</th>
<th>TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cut-off shoes</td>
<td>52.5 cm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crown adjustment</th>
<th>V</th>
<th>TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical/optional hydraulic adjustment</td>
<td>-2.5% to +3%, M, W or parabolic profiles possible</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport dimensions (basic screed)</th>
<th>V</th>
<th>TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>1.8 m</td>
<td></td>
</tr>
<tr>
<td>Depth</td>
<td>1.1 m</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>1,350 kg (V)</td>
<td>1,550 kg (TV)</td>
</tr>
</tbody>
</table>

**Key**
- V = with vibrators
- TV = with tamper and vibrators

Subject to technical changes. *Depending on pave type
### AB 480 Extending Screed

The **AB 480** is a somewhat simplified version of the AB 500. The screed is hydraulically adjustable over a range of 2.55 m to 4.8 m; with bolt-on extensions, maximum pave width is 6.3 m. The AB 480 can be combined with the Classic Line SUPER 1600 and SUPER 1603 pavers and is the right screed for single-sided paving and paving farm tracks.

### Pave widths
- Basic width: 2.55 m
- Infinitely variable range: up to 4.8 m

### Bolt-on extensions
- 25 cm
- 75 cm

### Crown adjustment
- Mechanical: -2% to +4%, M, W or parabolic profiles possible

### Transverse slope
- Extension units: up to 2%

### Compacting system
- Version: TV
- Vibrators (V): eccentric vibration up to 3,000 rpm
- Tamper (T): speed up to 1,800 rpm

### Screed heating
- Screed plates and tamper bars heated by means of electric heating rods

### Transport dimensions (basic screed)
- Width: 2.55 m
- Depth: 1.28 m
- Weight: 3,000 kg

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**Key:**
- **TV** = with tamper and vibration

*Subject to technical changes. *Depending on pave type.
**AB 500 Extending Screed**

With a basic width of 2.55 m, the AB 500 is the universal tool for all VÖGELE pavers of the Premium Class. Its infinitely adjustable single-tube telescoping system covers a wide range of applications from 2.55 m to 5 m and with bolt-on extensions, it extends to a maximum width of 8.5 m.

The AB 500 is available with tamper and vibrators, as well as in two versions for high compaction - with tamper and optionally 1 or 2 pressure bars or, alternatively, in the TP2 Plus version for particularly high compaction.

**Pave widths**
- Basic width: 2.55 m
- Infinitely variable range: up to 5 m

**Bolt-on extensions**
- 25 cm
- 75 cm
- 125 cm

**Crown adjustment**
- Hydraulic adjustment: -2.5% to +5%*
- M, W or parabolic profiles possible

**Transverse slope**
- Extension units: up to 2%

**Compacting systems**
- TV, TP1, TP2, TP2 Plus
- Maximum pave width: 8.5 m

**Screed versions**
- TV, TP1, TP2, TP2 Plus
- Vibration (V): eccentric vibration up to 3,000 rpm
- Tamper (T):
  - Stroke adjustable TP1/TP2
  - Stroke adjustable TP2 Plus
- Pressure bars (P):
  - Pressure bars driven by pulse-flow hydraulics
  - Pulse frequency: 68 Hz
- Hydraulic oil pressure: up to 120 bar, infinitely adjustable

**Screw heating**
- Screed plates, tamper bars and pressure bars heated by means of electric heating rods

**Transport dimensions (basic screed)**
- Width: 2.55 m
- Depth: 1.28 m (TV)
- Weight:
  - 3,250 kg (TV)
  - 3,600 kg (TP1)
  - 3,900 kg (TP2)
  - 4,220 kg (TP2 Plus)

**Subject to technical changes.**
*Depending on pave type.

**Key:**
- TV = with tamper and vibrators
- TP1 = with tamper and 1 pressure bar
- TP2 = with tamper and 2 pressure bars
- TP2 Plus = with special tamper, 2 pressure bars and additional weights
**AB 600 Extending Screed**

The **AB 600** has a basic width of 3 m. Equipped with the rugged single-tube telescoping system, its screed width is infinitely variable up to 6 m. With the addition of bolt-on extensions, lanes as wide as 9.5 m can be paved without joints. This consequently makes the screed ideal for use with VÖGELE SUPER pavers of the Universal Class and the Highway Class.

In addition to the TV, TP1 and TP2 screed versions, the very high compaction TP2 Plus version is also available for the **AB 600**.

**Pave widths**

- Basic width: 3 m
- Infinitely variable range: up to 6 m

**Bolt-on extensions**

- 25 cm
- 75 cm
- 125 cm

**Crown adjustment**

- Hydraulic adjustment: -2.5% to +5%*, M, W or parabolic profiles possible

**Transverse slope**

- Extension units: up to 2%

**Compacting systems**

<table>
<thead>
<tr>
<th>Screw versions</th>
<th>TV, TP1, TP2, TP2 Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibrators (V)</td>
<td>eccentric vibration up to 3,000 rpm</td>
</tr>
<tr>
<td>Tamper (T)</td>
<td>speed up to 1,800 rpm</td>
</tr>
<tr>
<td>Stroke adjustable TP1/TP2</td>
<td>2, 4 and 7 mm</td>
</tr>
<tr>
<td>Stroke adjustable TP2 Plus</td>
<td>4, 7 and 9 mm</td>
</tr>
<tr>
<td>Pressure bars (P)</td>
<td>driven by pulsed-flow hydraulics</td>
</tr>
<tr>
<td>Pulse frequency</td>
<td>68 Hz</td>
</tr>
<tr>
<td>Hydraulic oil pressure</td>
<td>up to 120 bar, infinitely adjustable</td>
</tr>
</tbody>
</table>

**Selectors**

- Key: TV = with tamper and vibrators
- TP1 = with tamper and 1 pressure bar
- TP2 = with tamper and 2 pressure bars
- TP2 Plus = with special tamper, 2 pressure bars and additional weights

**Transport dimensions (basic screed)**

- Width: 3 m
- Depth: 1.28 m (TV), 1.41 m (TP1/TP2/TP2 Plus)
- Weight: 3,650 kg (TV), 4,000 kg (TP1), 4,350 kg (TP2), 4,750 kg (TP2 Plus)

*Depending on paver type

Subject to technical changes.
Designed specifically for the requirements of the North American and Australian markets

VÖGELE extending screeds, either front or rear-mounted are tailored specifically to meet the requirements of the North American and Australian market and cover a wide range of applications. They are characterized by a high level of variability and are therefore ideal for paving different widths and winding roads. These VÖGELE screeds ensure high paving quality, even on projects involving long distances, large widths or high speeds. As state-of-the-art products, they accurately maintain paving parameters at the specified level throughout the entire paving phase.
**VF 500 Extending Screed**

The **VF 500 Extending Screed** is fitted with hydraulic extensions mounted in front of the basic screed and was developed specifically for VÖGELE 8-foot pavers. This screed is eminently suitable for road construction requirements in North America and Australia. The VF 500 is ideal for applications which require a variable pave width, such as car parks with islands and light masts, roads for residents only, urban roads with manhole covers, gas or water connections, junctions on highways or work on country roads, i.e. jobs which involve paving around obstacles.
VF 600 Extending Screed

The VF 600 with hydraulic extensions mounted in front of the basic screed was designed specifically for the SUPER 2000-3(i) and SUPER 2003-3(i) Highway Class pavers which work at high pave speeds and in widely varying pave widths. The screed’s sturdy, smooth telescoping system guarantees precise paving in all widths.

The screed can furthermore handle numerous pavement profiles, including crown and slopes. Berm is also available as an option. The compact design gives the paver operator a perfect view in all directions.
**VR 600 Extending Screed**

The VR 600 Extending Screed is tailored to meet the requirements of the North American and Australian markets, but the hydraulic extensions are located behind the basic screed, as they are on the extending screeds. A special feature is the structure of the hydraulic extensions: this supports the construction of pavement profiles with a slope of up to 10% towards the edge of the road.

In combination with the 10-foot SUPER 2000-3(i) or SUPER 2003-3(i) pavers, the screed’s sturdy design makes it especially suitable for paving highways up to 8.6 m wide with high precision and at high pave speeds.

### Pave widths

- **Pave widths**: 3.05 m to 8.6 m**
- **Basic width**: 3.05 m
- **Infinitely variable range**: up to 6 m

### Bolt-on extensions

- Bolt-on extensions: 65 cm

### Crown adjustment

- Hydraulic adjustment: -2.5% to +5%
- N, W or parabolic profiles possible

### Transverse slopes

- Extension units: up to 10%

### Compacting system

- **Screed version**: TV
- **Vibrators (V)**: eccentric vibration up to 3,000 rpm

### Screed heating

- Heating: screed plates heated by means of electric heating rods

### Transport dimensions (basic screed)

- **Width**: 3.05 m
- **Depth**: 1.52 m
- **Weight**: 3,750 kg

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Subject to technical changes. *Depending on paver type*
VÖGELE fixed-width screeds - large widths, powerful performance

Fixed-width screeds from VÖGELE deliver absolutely high-quality, perfectly even results. They enable surface courses to be paved without joints across widths up to 18 m. They also offer users modern functions such as hydraulic tamper stroke adjustment, as well as extra-wide hydraulic bolt-on extensions, user-friendly installation aids and an efficient heating system.
The highlights of fixed-width screeds

- **New telescoping and positioning system**
  A newly-developed telescoping and positioning system simplifies correct assembly of the individual extensions, considerably reducing set-up time.

- **Ergonomic screed operator’s console**
  The height and orientation of the console are easy to adjust. The high-contrast colour display can be read clearly from all angles.

- **Efficient electric heating**
  Screed plate, tamper and pressure bars heat up twice as fast and much more evenly thanks to more efficient electric heating with an innovative monitoring system.

- **Safe, convenient screed step**
  The walkway and convenient central step on the screed ensure safe and convenient access to the paver operator’s platform.

- **Hydraulic tamper stroke adjustment**
  On the SB 300 and SB 350, tamper stroke (4 or 8 mm) can be adjusted conveniently at the touch of a button.

- **Bolt-on extensions**
  Maximum flexibility thanks to hydraulic bolt-on extensions for the SB 300 and SB 350 which can be adjusted by 1.25 m on each side.

- **Excellent surface accuracy**
  Its high stability guarantees excellent surface accuracy across full pave width.
SB 300 Fixed-Width Screed

The advanced SB 300 screed covers a vast range of applications from a basic width of 3 m up to a maximum width of 16 m. This fixed-width screed can be combined with the VÖGELE SUPER 1800-3(i), SUPER 1900-3(i), SUPER 2100-3(i) and SUPER 3000-3(i) pavers, making it the ideal specialist equipment for paving large widths without joints.

The screed also offers users new functions, such as hydraulic tamper stroke adjustment, extra-wide hydraulic bolt-on extensions, user-friendly installation aids and an efficient heating system.

### Compacting systems

<table>
<thead>
<tr>
<th>SB 300 TV</th>
<th>Maximum width set-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV</td>
<td>16 m</td>
</tr>
<tr>
<td>TP1</td>
<td></td>
</tr>
<tr>
<td>TP2</td>
<td></td>
</tr>
</tbody>
</table>

### Pave widths

| Max. pave width | 16 m |

### Bolt-on extensions

<table>
<thead>
<tr>
<th>Bolt-on extensions</th>
<th>25 cm</th>
<th>50 cm</th>
<th>100 cm</th>
<th>150 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>bolt-on extensions</td>
<td>125 cm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Crown adjustment

| Mechanical | -2% to +3% |

### Screed heating

- Screed plates, tamper bars and pressure bars heated by means of electric heating rods

### Transport dimensions (basic screed)

| Width | 3 m |
| Depth  | 1.34 m |
| Weights | 2,350 kg (TV) | 2,500 kg (TP1) | 2,650 kg (TP2) |

### Subject to technical changes.

*Depending on paver type

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*SB 300*
SB 300 HD Fixed-Width Screed

Like the SB 300, the SB 300 HD Fixed-Width Screed has a basic width of 3 m and can be combined with the SUPER 1800-3(i), SUPER 1900-3(i), SUPER 2100-3(i) and SUPER 3000-3(i) pavers. The key difference: the screed was developed specifically for paving non-bituminous mixes in roadbase construction and for this reason, has no screed heating.

The rugged screed is equipped with a purpose-made tamper which achieves a particularly high precompaction value. This allows crushed-stone base courses and anti-freeze layers to be paved efficiently and accurately in high layer thicknesses.

<table>
<thead>
<tr>
<th>Pave widths</th>
<th>3 m to 12 m*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic width</td>
<td>3 m</td>
</tr>
</tbody>
</table>

| Bolt-on extensions | 25 cm | 50 cm | 100 cm | 150 cm |

| Crown adjustment | -2% to +3% |

<table>
<thead>
<tr>
<th>Compacting systems</th>
<th>TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>SB 300 Hd TV</td>
</tr>
<tr>
<td>Vibrators (V)</td>
<td>eccentric vibration up to 3,000 rpm</td>
</tr>
<tr>
<td>Tamper (T)</td>
<td>speed up to 1,800 rpm</td>
</tr>
</tbody>
</table>

| Stroke adjustable | 2, 4 and 7 mm |

<table>
<thead>
<tr>
<th>Transport dimensions (basic screed)</th>
<th>Width</th>
<th>3 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth</td>
<td>1.34 m</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>2,400 kg</td>
<td></td>
</tr>
</tbody>
</table>

Subject to technical changes.
*Depending on paver type
**SB 350 Fixed-Width Screed**

The SB 350 Fixed-width Screed from VÖGELE delivers absolutely premium-quality, perfectly even results. It comes into its own on any project requiring large pave widths and layer thicknesses (e.g. crushed-stone bases) with high precompaction values.

The SB 350 has an impressive selection of pave widths ranging from 3.5 m to 18 m. What is more, the SB 350 and the SUPER 3000-3(i) can handle layer thicknesses up to 50 cm.

### Pave widths

- **Basic width**: 3.5 m
- **3.5 m to 18 m**

### Bolt-on extensions

- Bolt-on extensions: 25 cm, 50 cm, 100 cm, 150 cm
- Hydraulic bolt-on extensions: 125 cm

### Crown adjustment

- Mechanical: -3% to +3%

### Compacting systems

- **Versions**: TV, TP1, TP2
- **Vibrators (V)**: eccentric vibration up to 3,000 rpm
- **Tamper (T)**: speed up to 1,800 rpm
- **Stroke adjustable Standard**: mechanical, 2, 4 and 7 mm
- **Pressure bars (P)**: hydraulic, 4 and 8 mm
- **Pulse frequency**: 68 Hz
- **Hydraulic oil pressure**: up to 120 bar, infinitely adjustable

### Screed heating

- Heating: screed plates, tamper bars and pressure bars heated by means of electric heating rods

### Transport dimensions (basic screed)

- **Width**: 3.5 m
- **Depth**: 1.34 m
- **Weight**:
  - 2,500 kg (TV)
  - 2,750 kg (TP1)
  - 2,900 kg (TP2)

### Key

- TV = with tamper and vibrators
- TP1 = with tamper and 1 pressure bar
- TP2 = with tamper and 2 pressure bars

*Depending on paver type

Subject to technical changes.
Fixed-width screeds (SB) are ideal for paving larger widths. VÖGELE bolt-on extensions allow pave width to be infinitely extended by up to 2.5 m. This saves both time and money, as there is no need to fit or remove fixed bolt-on extensions for a change in lane width within this range. Bolt-on extensions are based on the technology of our tried and tested extending screeds.

They are available in versions with tamper and vibrators (TV), tamper and 1 pressure bar (TP1) or tamper and 2 pressure bars (TP2). They can be fitted to fixed bolt-on extensions of either 1 m or 1.5 m.
VÖGELE screeds are unique

**Compaction performances** of over 98% can be achieved without rolling using VÖGELE’s unique high compaction technology. What is more, on contracts with varying pave widths, the sturdy single-tube telescoping system enables our extending screeds to be precisely and effortlessly adjusted. Another characteristic of all VÖGELE screeds is their high-performance electric heating. The advanced heating system ensures that the screed heats to operating temperature quickly and uniformly. An intelligent generator management system helps save fuel and is more environmentally friendly.
The screed is crucial for pavement quality
Safe and easy handling of all screed functions is a factor of utmost importance in high-quality road construction. The VÖGELE ErgoPlus 3 and ErgoBasic operating concepts give the screed operator perfect control of the paving process, as all screed console functions are easy to understand and are laid out very clearly.

The screed operator’s ErgoPlus 3 console
The screed operator’s ErgoPlus 3 console is designed to suit job site conditions. Watertight push-buttons are provided for functions which are regularly required. Enclosed in a raised ring, these controls are identifiable simply by touch, even “blindfold” and wearing work gloves. All the important paver and screed data can be called up and adjusted from the screed operator’s console, too.

The screen operator’s ErgoBasic console
The screed operator’s ErgoBasic console is laid out logically to suit functional processes. Operation is easy to understand and can accordingly be learned intuitively in a very short time. All the paving-related functions can be set quickly and easily. This includes direct access to the material handling systems and the sonic sensors for the augers. There is a remote control unit for each side of the screed. The magnetic bracket and spiral cable connection give the operator a wide range of movement.
Maximum compaction values with VÖGELE high compaction technology

VÖGELE sets standards in terms of compaction: cutting-edge technology combined with the most advanced materials mean that the outstanding performance and reliability of VÖGELE high compaction products are guaranteed. The tamper delivers intensive precompaction of the mix. Tamper speed and stroke length can be precisely and easily adjusted; the tamper setting can be made to suit the volume of material, type of mix and layer thickness perfectly.

The pressure bars driven by pulsed-flow hydraulics are the core of VÖGELE high compaction technology. By combining screed versions TP1, TP2 and TP2 Plus with this unique technology, our pavers achieve maximum compaction values.

Unique VÖGELE high compaction technology achieves consistently high compaction values across the entire pave width of the screed.

The pressure bars driven by pulsed-flow hydraulics are the core of VÖGELE high compaction technology.

This unique technology enables VÖGELE high compaction screeds in the TP1, TP2 or TP2 Plus versions to deliver the highest degree of density a road paver can achieve.

The starting point for VÖGELE high compaction technology is the pulse generator associated with the pulsed-flow hydraulics. This generates high-frequency pressure pulses. As a result, the pressure bars remain in permanent contact with the pavement, forcing the mix down until it cannot be compacted any further.

As a consequence of the resulting high precompaction values, the number of subsequent roller passes can be reduced significantly.

Pressure bars P1 and P2 are the final elements in the overall high compaction process, arranged in the rear section of VÖGELE high compaction screeds. This location enables pavers to achieve the greatest possible compaction performance, as the mix is prevented from escaping either to the front or to the sides.

A switch from high compaction to conventional compaction and vice versa can easily be made from ErgoPlus 3 screed operator’s consoles. This allows the high compaction screed to be used for a wide range of applications.

The compacting systems within a VÖGELE high compaction screed are controlled and adjusted separately from one another.

The pressure for the pressure bars is easily and infinitely variable. This allows high compaction technology to be used for many applications, up to and including paving surface courses.
VÖGELE single-tube telescoping system

The hydraulic extensions of all VÖGELE extending screeds slide in and out smoothly on a single-tube telescoping system. The three-section telescoping tube is amply dimensioned (diameter 150 mm/170 mm/190 mm) and perfectly stabilized. Even with the screed set to its maximum width, each tube section is extended by no more than half. VÖGELE extending screeds place all kinds of layers with maximum precision, including layers whose thickness varies across pave width - such as those produced when building crowned pavement profiles, for instance.

The 3-point suspension of the screed’s hydraulic extensions prevents the screed’s telescoping system being affected by the torsional forces exerted on these units by the pressure of the mix. Forces are absorbed at the telescoping tube’s point of attachment, the bearing of the fixed guide tube and a torque restraint system, ensuring that the screed’s hydraulic extensions extend and retract smoothly, with no jamming or catching.

Amply dimensioned, high-precision, stable single-tube telescoping system gives the screed system a high degree of stability and provides the basis for good paving results.

Fixed guide tube
The telescoping system is arranged at an especially high level, preventing contact with hot mix.

Telescoping tubes
Even with the screed set to its maximum width, the telescoping tubes are extended by no more than half, thus ensuring superb screed rigidity with zero flexing.

Hydraulic rams
Low-wear sliding bearings inside the fixed telescoping tubes ensure smooth sliding. Two hydraulic rams which can be controlled very precisely are installed for screed width adjustment.

Torque restraint system
The torque restraint system contributes to the smooth extension and retraction of the hydraulic extensions.

Single-tube telescoping system
Amply dimensioned, high-precision, stable single-tube telescoping system gives the screed system a high degree of stability and provides the basis for good paving results.
Electric screed heating

VÖGELE has been using electric heating systems for extending screeds and fixed-width screeds since 1952, with the result that all compacting and smoothing screed elements are brought to the ideal temperature.

High-performance, rugged three-phase AC generators deliver the energy required for the electric heating systems; an intelligent management system enables these generators to achieve a high level of efficiency. In order to optimize compaction performance and to produce a smooth surface structure, all compacting elements are heated across full screed width.

Screed plates are fitted as standard with heating elements which distribute heat throughout the plates. The plates are thoroughly insulated on top so that 100% of the heat is directed to where it is needed: the area of contact with the mix.

Tamper bar and pressure bars are fitted with heating rods for quick and uniform heating from the inside. Sophisticated control technology is installed to allow automated management of screed heating.

An intelligent generator management system ensures that, irrespective of engine speed, the generator output needed for heating the current pave width of the screed is always available. Heating the screed’s compacting elements to operating temperature only takes a short time, even with the engine running at idling speed.

If the paver is paving in Automatic mode, precisely the heat output required is supplied to the heating system at all times. This reduces both the energy required and fuel consumption.

Constant and uniform heating output across the whole surface area is crucial for high paving quality.

High-performance generators, often direct-driven, provide the screed heating system with sufficient electrical energy. This ensures that the screed heats up rapidly.
Where quality begins

The screed is the heart of each road paver. From an engineering point of view, it is the crucial component, guaranteeing that the desired paving result is achieved. The production of high-quality, reliable and modern screeds has a truly high priority at JOSEPH VÖGELE AG.
**VÖGELE manufacturing technology**

**VÖGELE screeds** feature leading-edge technology. This technology is made possible by state-of-the-art production processes such as high-precision laser cutting and welding robots to ensure consistently high quality. Screed plates are a key factor in the surface quality and accuracy of asphalt layers. At VÖGELE, they are made of wear-resistant Hardox steel.

The compacting systems (tamper and pressure bars), too, are prepared for harsh operating conditions. As the entire heat treatment process is key for their quality and service life, VÖGELE, as the number one in this technology, puts its faith in induction hardening. This is a process which reduces wear and guarantees durability by means of greater effective hardening depth and maximum surface accuracy.

Tension-free alignment with an evenness error of max. 2/10 mm ensures a long service life, as the screed plate wears evenly.

**TOP LEFT:**
Eccentric shafts for tamper drives.

**TOP RIGHT:**
The telescoping tubes are manufactured with maximum precision on special machines.

**RIGHT:**
CNC machine welds threaded bolts to screed plates.

**Induction hardening of tampers and pressure bars guarantees long service lives.**

**Tamper and pressure bar are hardened to a uniform depth of 5 mm.**

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Comprehensive quality control

Once the screed and its electrical and hydraulic components have been assembled, all paver and screed functions are checked. This check comprises several hundred items including settings, filling levels and pressure tests. All the measured values are documented in a Final Inspection Record. Any discrepancies are remedied immediately by experienced VÖGELE experts.

Robot-welded seams in screed frames and suspension units guarantee consistent high quality and precision.

20 times finer than a human hair: the inner contact surface of telescoping tubes is manufactured with maximum precision.

Final assembly of screeds: this is the workstation where VÖGELE screeds are completed and undergo a wide variety of functional tests.

Every production step is subject to complex quality controls.