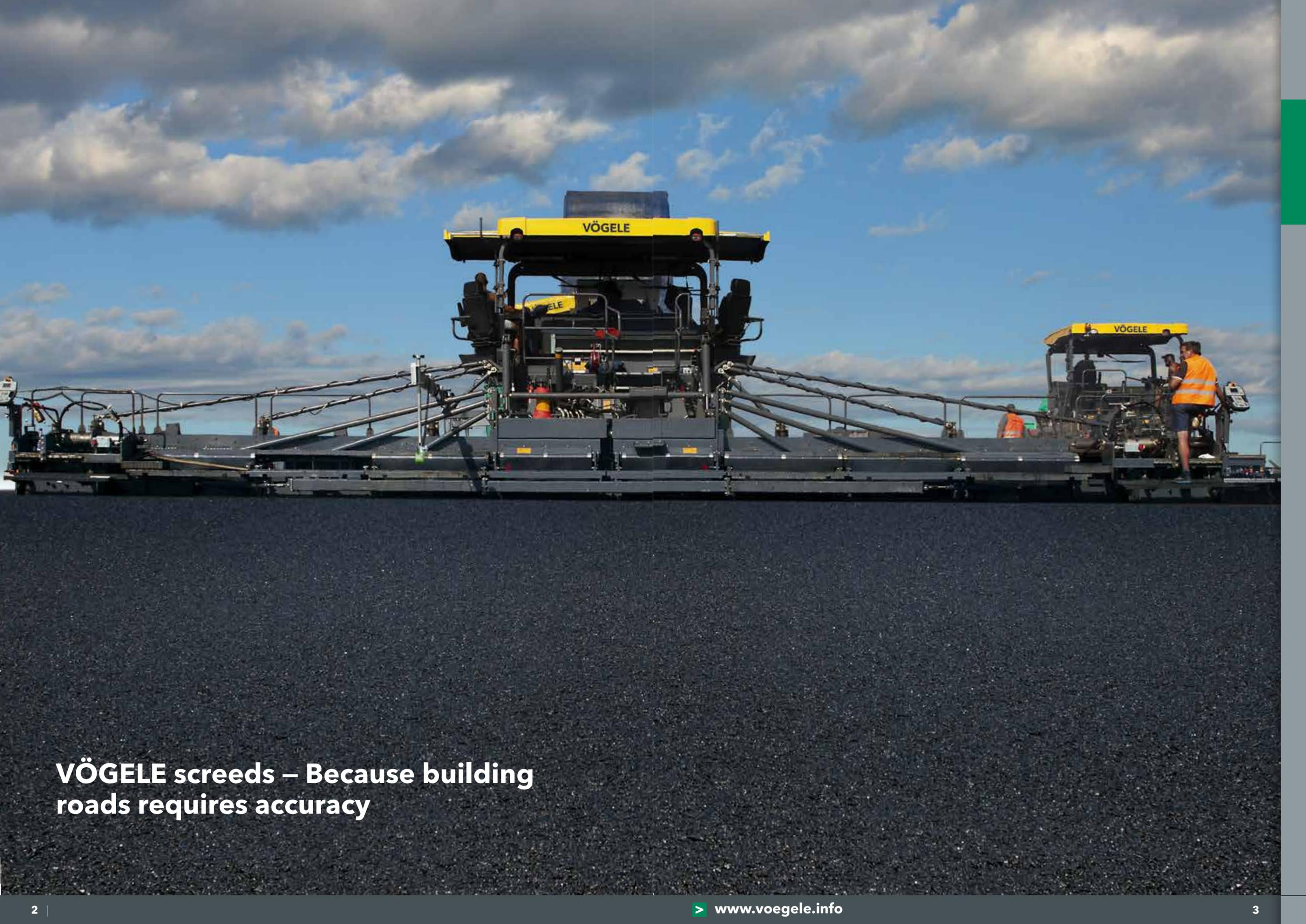


# SCREEDS

## 2018





**VÖGELE screeds – Because building roads requires accuracy**

# Product overview



## Extending screeds

Model	Basic width	Infinitely variable range	Maximum pave width	Screed versions	Count
AB 220	1.2m	up to 2.2m	3.5m	V, TV	8
AB 340	1.8m	up to 3.4m	5m	V, TV	9
AB 480	2.55m	up to 4.8m	6.3m	TV	10
AB 500	2.55m	up to 5m	8.5m	TV, TP1, TP2, TP2 Plus	11
AB 600	3m	up to 6m	9.5m	TV, TP1, TP2, TP2 Plus	12
VR 600	3.05m	up to 6m	8.6m	V	13
VF 500	2.45m	up to 4.75m	5.95m	V	14
VF 600	3.05m	up to 5.95m	7.75m	V	15



## Fixed-width screeds

Model	Basic width	Infinitely variable range	Maximum pave width	Screed versions	Count
SB 250	2.5m	-	13m	TV, TP1, TP2, TVP2	18
SB 300	3m	-	16m	TV, TP1, TP2, TVP2	19



## Screed versions

Screed type	AB 220	AB 340	AB 480	AB 500	AB 600	VR 600	VF 500	VF 600	SB 250	SB 300		
Screed versions	V	TV	V	TV	TV	V	V	V	TV	TP1	TP2	TVP2
Paver												
SUPER 700-3(i)	●											
SUPER 800-3(i)		●										
SUPER 1100-3(i)			●									
SUPER 1103-3(i)			●									
SUPER 1300-3(i)				●								
SUPER 1303-3(i)				●								
SUPER 1600-3(i)					●							
SUPER 1603-3(i)					●							
SUPER 1700-3(i)								●				
SUPER 1703-3(i)								●				
SUPER 1800-3(i)				●	●	●			●	●	●	
SUPER 1800-3(i) SprayJet				●	●		●					
SUPER 1803-3(i)				●	●							
SUPER 1900-3(i)				●	●	●			●	●	●	●
SUPER 2000-3(i)					●			●				
SUPER 2003-3(i)					●			●				
SUPER 2100-3(i)				●	●	●			●	●	●	●
SUPER 2100-3i IP						●						
SUPER 3000-2					●	●	●			●	●	●

Key: AB = Extending Screed, SB = Fixed-Width Screed, TP2 Plus = with special tamper, 2 pressure bars and additional weights, VF = Screed with Front-Mounted Extensions, VR = Screed with Rear-Mounted Extensions, V = with vibrators, TP1 = with tamper and 1 pressure bar, TP2 = with tamper and 2 pressure bars, TV = with tamper and vibrators, TVP2 = with tamper, vibrators and 2 pressure bars

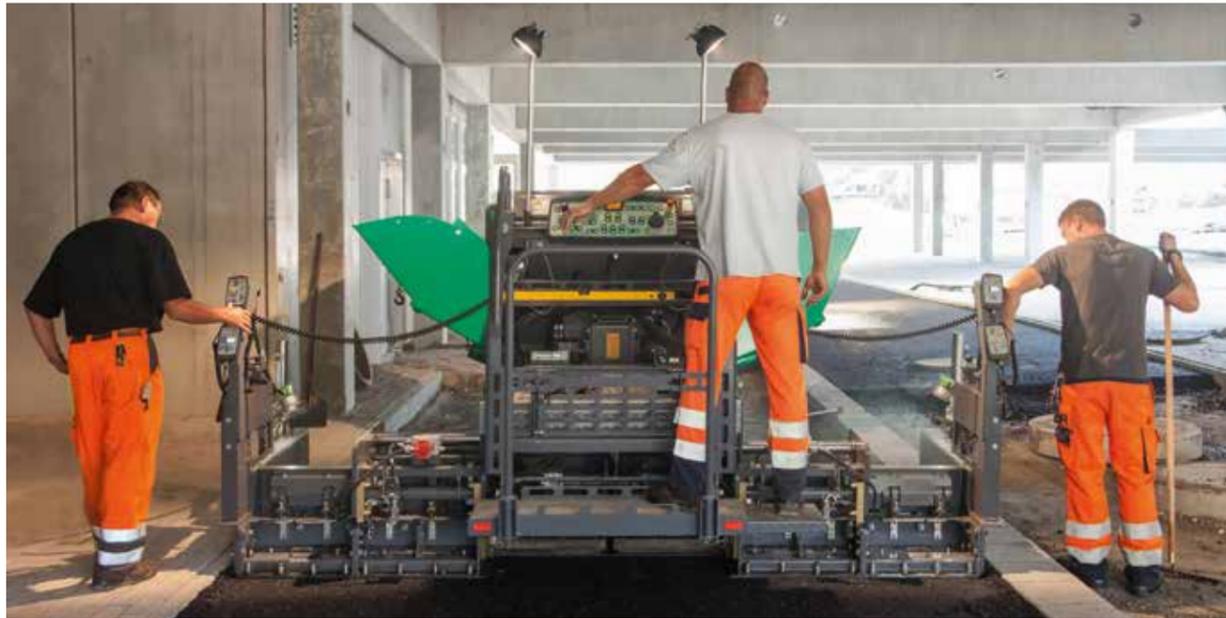


## VÖGELE extending screeds – The system behind variable widths

**VÖGELE extending screeds**, with their outstanding adaptability, are ideal for paving in varying widths and on winding roads. They cover a wide field of applications, handling widths from 0.5m to 9.5m. Depending on the type of paver used, they can be equipped with various compacting systems. The range extends from the simplest screed version with vibration (V) to the most powerful high-compaction screeds with tamper (T) and two pressure bars (P2).

# AB 220 Extending Screed

**Screed versions** V, TV  
**Maximum pave width** 3.5m



**The AB 220** Extending Screed designed for the small VÖGELE pavers stands out through accurate operation and achieves high precompaction. It is available in 2 versions as far as equipment with compacting systems is concerned. The AB 220 V (with vibrators) has been specially designed for use with the SUPER 700-3(i). The AB 220 TV (with tamper and vibrators) combines with the SUPER 800-3(i).

The AB 220 Extending Screed, in either version, has a basic width of 1.2m and extends hydraulically to 2.2m. Through the addition of bolt-on extension the AB 220 V can be built up to a maximum width of 3.2m and the AB 220 TV to a maximum width of 3.5m.

Pave widths	
Pave widths	0.5m to 3.5m (dependent on type of paver)
Basic width	1.2m
Infinitely variable range	up to 2.2m
Larger widths	
Bolt-on extensions	25cm (V/TV) 50cm (V/TV) 65cm (TV)
Reduction in width	
Infinitely variable range	0.5m to 1.1m
Crown adjustment	
Mechanical	-2% to +4%

Compacting systems	
Screed versions	V, TV
Vibrators (V)	eccentric vibrators, frequency up to 3,300 rpm
Tamper (T)	tamper speed up to 1,800 rpm
Tamper stroke	4mm
Screed heating	
Screed heating	screed plates and tamper bars heated electrically by heating rods
Transport dimensions (basic screed)	
Width	1.27m
Depth	0.76m
Weights	720kg (V) 820kg (TV)

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

Subject to technical modification.

# AB 340 Extending Screed

**Screed versions** V, TV  
**Maximum pave width** 5m



**The AB 340** Extending Screed is the perfect match for the compact pavers in the SUPER 1100 and SUPER 1300 classes. With a basic width of 1.8m and a maximum pave width of 5m, the screed is ideal for combined footpath and cycle path or farm track applications as well as for surfacing minor roadways. The AB 340 is available in the V version (with vibrators) and in the TV version (with tamper and vibrators).

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

A typical VÖGELE feature found in the AB 340 Extending Screed, like in all VÖGELE screeds, is electric heating. The modern, powerful screed heating system provides for quick and uniform heating to operating temperature, an essential for smooth surface texture.

Pave widths	
Pave widths	0.75m to 4.2m (V) 0.75m to 5m (TV)
Basic width	1.8m
Infinitely variable range	up to 3.4m
Larger widths	
Bolt-on extensions	25cm (V/TV) 40cm (V) 55cm (TV) 80cm (TV)
Reduction in width	
Cut-off shoes	52.5cm
Crown adjustment	
Mechanical or hydraulic (option)	-2.5% to +3% M, W or parabolic profiles

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

Transverse slope	
Extending units	up to 2%
Compacting systems	
Screed versions	V, TV
Vibrators (V)	eccentric vibrators, frequency up to 3,000 rpm
Tamper (T)	tamper speed up to 1,700 rpm
Tamper stroke	4mm
Screed heating	
Screed heating	screed plates and tamper bars heated electrically by heating rods
Transport dimensions (basic screed)	
Width	1.8m
Depth	1.1m
Weights	1.35t (V) 1.55t (TV)

Subject to technical modification.

# AB 480 Extending Screed

**Screed version** TV  
**Maximum pave width** 6.3m



The **AB 480** is a somewhat simplified version of the AB 500. The screed extends hydraulically from 2.55m to 4.8m and the maximum pave width with bolt-on extensions is 6.3m.

The AB 480 can be combined with the SUPER 1600-3(i) and SUPER 1603-3(i) Universal Class pavers and is the ideal screed for placing a single lane alongside an existing one as well as for paving farm tracks.

Pave widths	
Pave widths	2.55m to 6.3m (dependent on type of paver)
Basic width	2,55 m
Infinitely variable range	up to 4.8m
Larger widths	
Bolt-on extensions	25cm 75cm
Crown adjustment	
Mechanical	-2% to +4% (dependent on type of paver) M, W or parabolic profiles
Transverse slope	
Extending units	up to 2%

Compacting systems	
Screed version	TV
Vibrators (V)	eccentric vibrators, frequency up to 3,000 rpm
Tamper (T)	tamper speed up to 1,800 rpm
Screed heating	
Screed heating	screed plates and tamper bars heated electrically by heating rods
Transport dimensions (basic screed)	
Width	2.55m
Depth	1.28m
Weights	3t

**Key:** TV = with tamper and vibrators

Subject to technical modification.

# AB 500 Extending Screed

**Screed versions** TV, TP1, TP2, TP2 Plus  
**Maximum pave width** 8.5m



The **AB 500** Extending Screed combines with all VÖGELE pavers featuring a basic width of 2.5m. Thanks to its unique single-tube telescoping system for infinite variation of pave width, it is ideal for a wide field of applications. The screed extends from 2.55m to 5m and can be built up with bolt-on extensions to a maximum width of 8.5m.

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

Pave widths	
Pave widths	2.55m to 8.5m (dependent on type of paver)
Basic width	2,55 m
Infinitely variable range	up to 5m
Larger widths	
Bolt-on extensions	25cm 75cm 125cm
Crown adjustment	
Hydraulic	-2.5% to +5% (dependent on type of paver) M, W or parabolic profiles
Transverse slope	
Extending units	up to 2%
Compacting systems	
Screed versions	TV, TP1, TP2, TP2 Plus
Vibrators (V)	eccentric vibrators, frequency up to 3,000 rpm

Compacting systems	
Tamper (T)	tamper speed up to 1,800 rpm
Tamper stroke adjustable (TP1/TP2)	to 2mm, 4mm, 7mm
Tamper stroke adjustable (TP2 Plus)	to 4mm, 7mm, 9mm
Pressure bar(s) (P)	driven by pulsed-flow hydraulics
Impulse recurrence frequency	68 Hz
Hydraulic oil pressure	up to 120 bar, infinitely variable
Screed heating	
Screed heating	screed plates, tamper bars and pressure bar(s), heated electrically by heating rods
Transport dimensions (basic screed)	
Width	2.55m
Depths	1.28m (TV) 1.41m (TP1/ TP2/ TP2 Plus)
Weights	3.25t (TV) 3.6t (TP1) 3.9t (TP2) 4.22t (TP2 Plus)

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

Subject to technical modification.

# AB 600 Extending Screed

**Screed versions** TV, TP1, TP2, TP2 Plus  
**Maximum pave width** 9.5m



The **AB 600** Extending Screed has a basic width of 3m. Equipped with the sturdy VÖGELE single-tube telescoping system, its pave width is infinitely variable up to 6m. Through the addition of bolt-on extensions, the screed can be built up for joint-free paving to a maximum of 9.5m. As a result, the AB 600 is ideally suited to

combining with the VÖGELE pavers of the Universal Class and the Highway Class. In addition to the screed versions TV, TP1 and TP2, the TP2 Plus variant is also available for the AB 600 Extending Screed to achieve particularly high precompaction.

Pave widths	
Pave widths	3m to 9.5m (dependent on type of paver)
Basic width	3m
Infinitely variable range	up to 6m
Larger widths	
Bolt-on extensions	25cm 75cm 125cm
Crown adjustment	
Hydraulic	-2.5% to +5% (dependent on type of paver) M, W or parabolic profiles
Transverse slope	
Extending units	up to 2%
Compacting systems	
Screed versions	TV, TP1, TP2, TP2 Plus
Vibrators (V)	eccentric vibrators, frequency up to 3,000 rpm

Compacting systems	
Tamper (T)	tamper speed up to 1,800 rpm
Tamper stroke adjustable (TP1/TP2)	to 2mm, 4mm, 7mm
Tamper stroke adjustable (TP2 Plus)	to 4mm, 7mm, 9mm
Pressure bar(s) (P)	driven by pulsed-flow hydraulics
Impulse recurrence frequency	68 Hz
Hydraulic oil pressure	up to 120 bar, infinitely variable
Screed heating	
Screed heating	screed plates, tamper bars and pressure bar(s), heated electrically by heating rods
Transport dimensions (basic screed)	
Width	3m
Depths	1.28m (TV) 1.41m (TP1/ TP2/ TP2 Plus)
Weights	3.65t (TV) 4t (TP1) 4.35t (TP2) 4.75t (TP2 Plus)

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

Subject to technical modification.

# VR 600 Extending Screed

**Screed version** V  
**Maximum pave width** 8.6m



The **VR 600** Extending Screed is tailored to meet the demands of the US and Australian markets. As on the screeds for the SUPER series of VÖGELE pavers, the extending units of the VR 600 are located behind the basic screed. The extending units have a special design allowing to produce a pavement profile with a slope of up to 10% towards the edge of the road.

Together with the 10-foot SUPER 2000-3(i) and SUPER 2003-3(i) pavers, the robust screed is particularly suitable for extremely precise high-speed paving on motorways up to 8.6m wide.

Pave widths	
Pave widths	3.05m to 8.6m (dependent on type of paver)
Basic width	3.05m
Infinitely variable range	up to 6m
Larger widths	
Bolt-on extensions	65cm
Crown adjustment	
Hydraulic	-2.5% to +5% M, W or parabolic profiles
Transverse slope	
Extending units	up to 10%

Compacting system	
Screed version	V
Vibrators (V)	eccentric vibrators, frequency up to 3,000 rpm
Screed heating	
Screed heating	screed plates heated electrically by heating rods
Transport dimensions (basic screed)	
Width	3.05m
Depth	1.52m
Weights	3.75t

**Key:** VR = Screed with Rear-Mounted Extensions  
 V = with vibrators

Subject to technical modification.

# VF 500 Extending Screed

**Screed version** V  
**Maximum pave width** 5.95m

**Designed for the requirements** especially of the North American and Australian markets.



The VF 500 Extending Screed is equipped with extending units mounted in front of the basic screed and was developed especially for the VÖGELE 8-foot paver. This screed is eminently suitable for the requirements prevailing in road construction 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.

Pave widths	
Pave widths	2.45m to 5.95m
Basic width	2.45m
Infinitely variable range	up to 4.75m

Larger widths	
Bolt-on extensions	30cm 60cm

Crown adjustment	
Hydraulic	-2% to +5% M, W or parabolic profiles

Transverse slope	
Extending units	up to 10%

Berm	
Berm	30cm 45cm 60cm

Compacting system	
Screed version	V
Vibrators (V)	eccentric vibrators, frequency up to 3,000 rpm

Screed heating	
Screed heating	screed plates heated electrically by heating rods

Transport dimensions (basic screed)	
Width	2.59m
Depth	1.16m
Weight	3.5t

Key: VF = Screed with Front-Mounted Extensions V = with vibrators

Subject to technical modification.

# VF 600 Extending Screed

**Screed version** V  
**Maximum pave width** 7.75m

**Designed for the requirements** especially of the North American and Australian markets.



The VF 600 featuring extending units mounted in front of the basic screed was designed especially for combining with 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, smoothly sliding telescoping system guarantees precise paving in all widths.

Furthermore, the screed handles 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.

Pave widths	
Pave widths	3.05m to 7.75m
Basic width	3.05m
Infinitely variable range	up to 5.95m

Larger widths	
Bolt-on extensions	30cm 60cm

Crown adjustment	
Hydraulic	-2% to +5% M, W or parabolic profiles

Transverse slope	
Extending units	up to 10%

Berm	
Berm	30cm 45cm 60cm

Compacting system	
Screed version	V
Vibrators (V)	eccentric vibrators, frequency up to 3,000 rpm

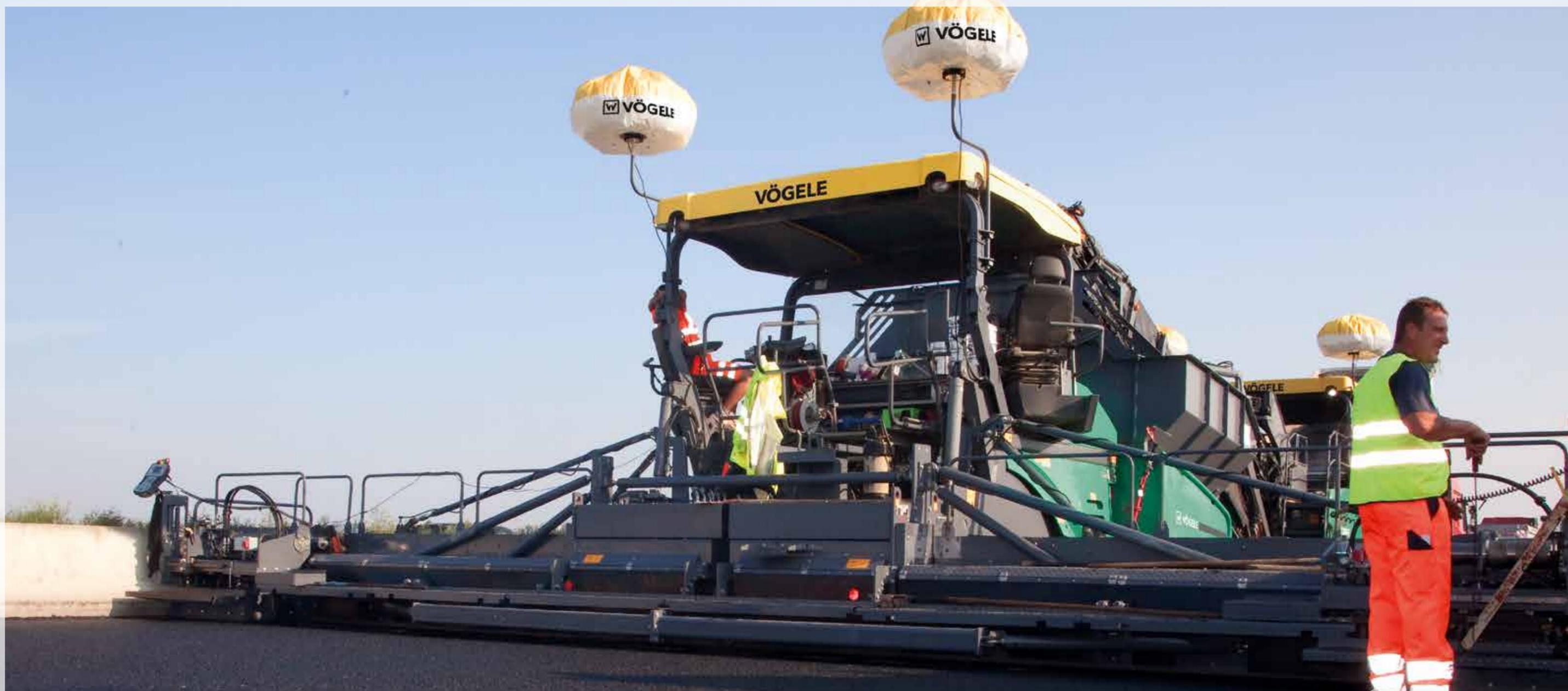
Screed heating	
Screed heating	screed plates heated electrically by heating rods

Transport dimensions (basic screed)	
Width	3.22m
Depth	1.16m
Weight	3.72t

Key: VF = Screed with Front-Mounted Extensions V = with vibrators

Subject to technical modification.



## **VÖGELE fixed-width screeds – Large widths, high performance**

VÖGELE fixed-width screeds demonstrate their strengths wherever pavements need to be built in large widths up to 16m, true to line and level. And in all those projects requiring high compaction of demanding materials such as water-bound base course mixes, Roller Compacted Concrete (RCC) or Paver Compacted Concrete (PCC). Thanks to 75cm hydraulic bolt-on extensions, the pave width is infinitely variable within a range of 1.5m. Screed plates, tamper bars and pressure bar(s) are heated evenly to guarantee a homogeneous surface texture. The intelligent generator management system ensures that the electric heating brings the compacting systems to operating temperature much more quickly, even when the engine is running at minimal rpm.

# SB 250 Fixed-Width Screed

**Screed versions** TV, TP1, TP2, TVP2  
**Maximum pave width** 13m



The **SB 250** Fixed-Width Screed combines with many VÖGELE pavers featuring a basic width of 2.5m. Due to their high stability, the Fixed-Width Screeds are the ideal match for the SUPER 1800-3(i), SUPER 1900-3(i) and SUPER 2100-3(i) when it comes to handling large pave widths.

The SB 250 has a basic width of 2.5m and can be built up with both fixed or hydraulic bolt-on extensions to a maximum width of 13m.

Pave widths	
Pave widths	1.5m to 13m (dependent on type of paver)
Basic width	2.5m
Larger widths	
Bolt-on extensions (fixed)	25cm 50cm 100cm 150cm
Bolt-on extensions (hydraulic)	75cm
Reduction in width	
Cut-off shoes	25cm 50cm
Crown adjustment	
Mechanical	-2% to +3%

Compacting systems	
Screed versions	TV, TP1, TP2, TVP2
Vibrators (V)	eccentric vibrators, frequency up to 3,800 rpm
Tamper (T)	tamper speed up to 1,800 rpm
Tamper stroke adjustable	to 2mm, 4mm, 7mm
Pressure bar(s) (P)	driven by pulsed-flow hydraulics
Impulse recurrence frequency	68 Hz
Hydraulic oil pressure	up to 120 bar, infinitely variable
Screed heating	
Screed heating	screed plates, tamper bars and pressure bar(s) heated electrically by heating rods
Transport dimensions (basic screed)	
Width	2.5m
Depth	1.14m
Weights	1.9t (TV) 2t (TP1) 2.15t (TP2) 2.25t (TVP2)

Subject to technical modification.

**Key:** TV = with tamper and vibrators  
 TP1 = with tamper and 1 pressure bar  
 TP2 = with tamper and 2 pressure bars  
 TVP2 = with tamper, vibrators and 2 pressure bars

# SB 300 Fixed-Width Screed

**Screed versions** TV, TP1, TP2, TVP2  
**Maximum pave width** 16m



The **SB 300** Fixed-Width Screed for the SUPER 3000-2 covers a wide range of applications from a basic width of 3m up to a maximum width of 16m. The screed is thus perfectly suited to joint-free pavement construction, true to line and level, for any kind of road. In other words, it is ideal for large-scale projects such as construction or pavement rehabilitation of motorways.

The basic screed can be built up with fixed bolt-on extensions of different lengths, and also with hydraulic extensions. Like all VÖGELE screeds, the SB 300 Fixed-Width Screed comes with high-performance electric heating and an innovative monitoring system for the heating rods.

Pave widths	
Pave widths	2m to 16m
Basic width	3m
Larger widths	
Bolt-on extensions (fixed)	25cm 50cm 100cm 150cm
Bolt-on extensions (hydraulic)	75cm
Reduction in width	
Cut-off shoes	25cm 50cm
Crown adjustment	
Mechanical	-2% to +3%

Compacting systems	
Screed versions	TV, TP1, TP2, TVP2
Vibrators (V)	eccentric vibrators, frequency up to 3,800 rpm
Tamper (T)	tamper speed up to 1,800 rpm
Tamper stroke adjustable	to 2mm, 4mm, 7mm
Pressure bar(s) (P)	driven by pulsed-flow hydraulics
Impulse recurrence frequency	68 Hz
Hydraulic oil pressure	up to 120 bar, infinitely variable
Screed heating	
Screed heating	screed plates, tamper bars and pressure bar(s) heated electrically by heating rods
Transport dimensions (basic screed)	
Width	3m
Depth	1.14m
Weights	2.4t (TV) 2.5t (TP1) 2.65t (TP2) 2.75t (TVP2)

Subject to technical modification.

**Key:** TV = with tamper and vibrators  
 TP1 = with tamper and 1 pressure bar  
 TP2 = with tamper and 2 pressure bars  
 TVP2 = with tamper, vibrators and 2 pressure bars



## Hydraulic bolt-on extensions for fixed-width screeds

# Hydraulic bolt-on extensions for SB 250 and SB 300

**Versions** T, TP1, TP2  
**Infinity variable range up to** 1.5m



**Fixed-width screeds** are ideal for paving in larger widths. Hydraulic extensions from VÖGELE allow the pave width to be adjusted infinitely within a range of 1.5m. This saves both time and money, as there is no need to mount or demount fixed extensions for a change in screed width within this range. Hydraulic extensions are based on the technology of the well-proven VÖGELE extending screeds.

Hydraulic extensions are available in the T version (with tamper), the TP1 version (with tamper and 1 pressure bar) or the TP2 version (with tamper and 2 pressure bars). They can be fitted to fixed bolt-on extensions of 1m or 1.5m. For mounting hydraulic extensions, the screed needs to be enlarged in width through fixed extensions by at least 1.5m on both the left and right sides.

Scope of supplies	
Scope of supplies	1 set of hydraulic bolt-on extensions (left and right)
Infinity variable range	
Infinity variable range	75cm each side
Compacting systems	
Versions	T, TP1, TP2
Tamper (T)	tamper speed up to 1,750 rpm
Tamper stroke adjustable	to 2mm, 4mm, 7mm
Pressure bar(s) (P)	driven by pulsed-flow hydraulics
Impulse recurrence frequency	68 Hz
Hydraulic oil pressure	up to 120 bar, infinitely variable
Heating	
Heating	screed plates, tamper bars and pressure bar(s) heated electrically by heating rods

Mounting	
Mounting	- the basic screed needs to be enlarged in width by at least 1.5m, left and right - they can only be fitted to 100cm and 150cm bolt-on extensions
Weights (1 Set)	
T version	1.55t
TP1 version	1.7t
TP2 version	1.8t

**Key:** T = with tamper  
 TP1 = with tamper and 1 pressure bar    TP2 = with tamper and 2 pressure bars

Subject to technical modification.



## The screed is crucial for pavement quality

**The safe and easy handling** of all screed functions is of the utmost importance for high-quality road construction. The VÖGELE ErgoPlus 3 and ErgoBasic operating concepts give the screed operator perfect control of the paving process. All functions on the screed consoles are easy to understand and laid out very clearly.

## The ErgoPlus 3 screed console

The screed console is designed in keeping with the conditions prevailing on the job site. Push-buttons are provided for the frequently used functions operated from the screed console.

These are watertight and enclosed in palpably raised rings, so that they are identifiable blindfold simply by touch even when wearing work gloves. Important paver and screed data can be called up and adjusted from the screed console, too.



## The ErgoBasic remote control unit for the screed

The ErgoBasic screed console is laid out logically according to the functional processes. Operation is easy and can be learned intuitively in a very short space of time.

The ErgoBasic remote control unit for the screed can be held in the hand or fixed anywhere on the screed or the machine thanks to the magnetic brackets.

All the paving-related functions can be set quickly and easily. That includes direct access to the material handling systems and the sonic sensors for the augers.





## VÖGELE screeds are unique

**With the unique** VÖGELE high-compaction technology, roads can be compacted to a density of more than 98% without rolling. Thanks to the robust single-tube telescoping system, our extending screeds are also easy to adjust with millimetre precision for jobs with varying pave widths.

Another feature of all VÖGELE screeds is the powerful electric heating. The advanced heating system provides for quick and uniform heating of the screed to its operating temperature. An intelligent generator management system helps save fuel, enhancing eco-friendliness.

# VÖGELE compaction technology

VÖGELE high-compaction technology achieves highest density

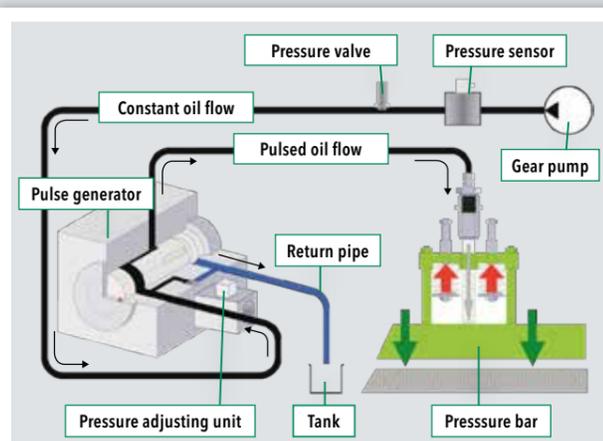
**VÖGELE** are setting standards in terms of compaction: perfected technology together with the ultimate in materials for the manufacture of screed components guarantee the outstanding performance and reliability of VÖGELE high-compaction systems. The tamper provides for optimum precompaction of the mix. Tamper speed and stroke length can be set up and adjusted precisely to match the flow of mix, kind of mix and layer thickness.

The pressure bar(s) driven by pulsed-flow hydraulics are the core of VÖGELE high-compaction technology. Thanks to this unique technology, VÖGELE pavers combined with high-compaction screeds in the TP1, TP2, TP2 Plus or TVP2 versions achieve highest precompaction.



*VÖGELE high-compaction technology allows consistently high-compaction values to be achieved right across the screed's full width.*

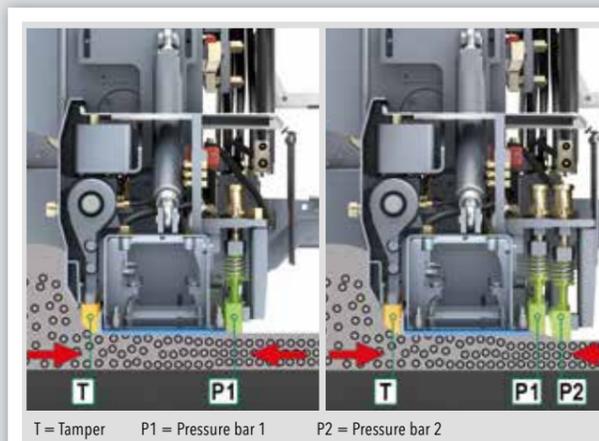
## The facts: VÖGELE high-compaction technology



- » **The VÖGELE high-compaction** process begins with the pulse generator. It generates high-frequency pressure pulses. The pressure bars remain in permanent contact with the mix, thus forcing the mix down for a prolonged period of time.
- » **Thanks to the high density** achieved by the pressure bar(s), fewer passes are required for subsequent compaction by rolling.

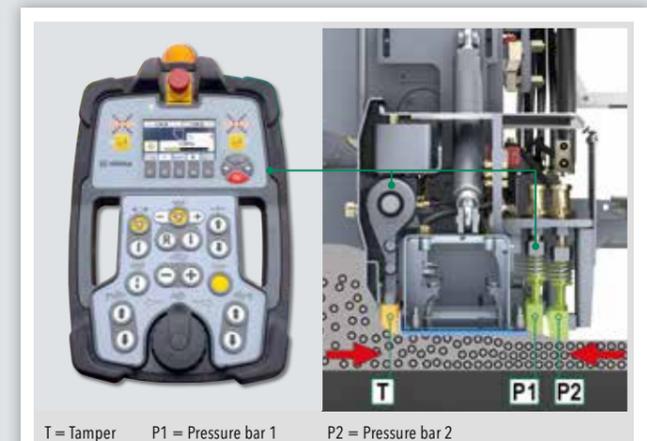


- » **The pressure bar(s)** driven by pulsed flow hydraulics are the core of VÖGELE high-compaction technology.
- » **Thanks to this unique technology**, VÖGELE high-compaction screeds in the TP1, TP2 or TP2 Plus versions bring about the highest degree of density a road paver can achieve.



T = Tamper P1 = Pressure bar 1 P2 = Pressure bar 2

- » **The pressure bars P1 and P2** are the last elements in the process of compaction as a whole. Logically, they are located in the rear area of VÖGELE high-compaction screeds. Only in this location can the highest possible compacting effort be achieved, as the mix is prevented from yielding to the front. Nor can it yield to the sides, where it is constricted by the screed's side plates.
- » **A change from high compaction** to conventional compaction and vice versa can easily be made from the ErgoPlus 3 operating consoles. This allows the screed to be used for highly varied applications.



T = Tamper P1 = Pressure bar 1 P2 = Pressure bar 2

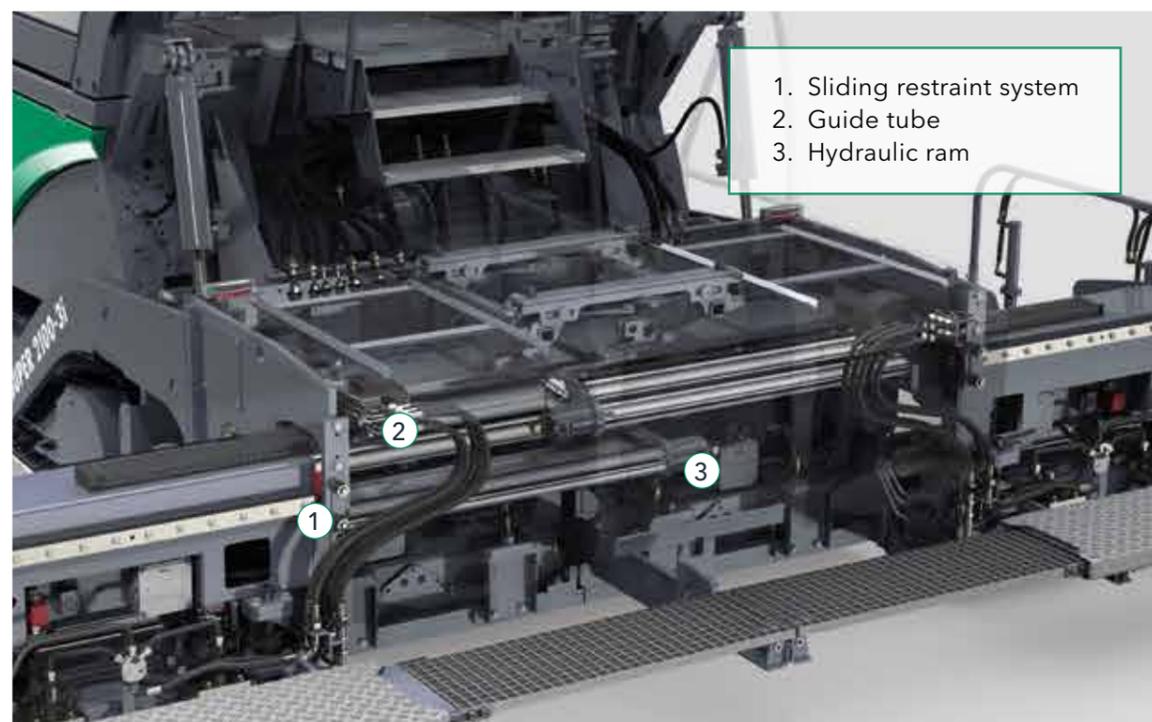
- » **A separate control** is provided for each compacting system installed in a VÖGELE high-compaction screed.
- » **Fine control of the pressure** for the pressure bar(s) allows VÖGELE high-compaction technology to be used for paving surface courses as well.

# Telescoping system for extending screeds

VÖGELE single-tube telescoping system

The hydraulically extending units of VÖGELE screeds slide in and out smoothly on a single-tube telescoping system. The three-section telescoping tube is amply

dimensioned (150mm/170mm/190mm diameter) and optimally stabilized. Even with the screed set to its maximum width, each tube section is extended by no more than half.



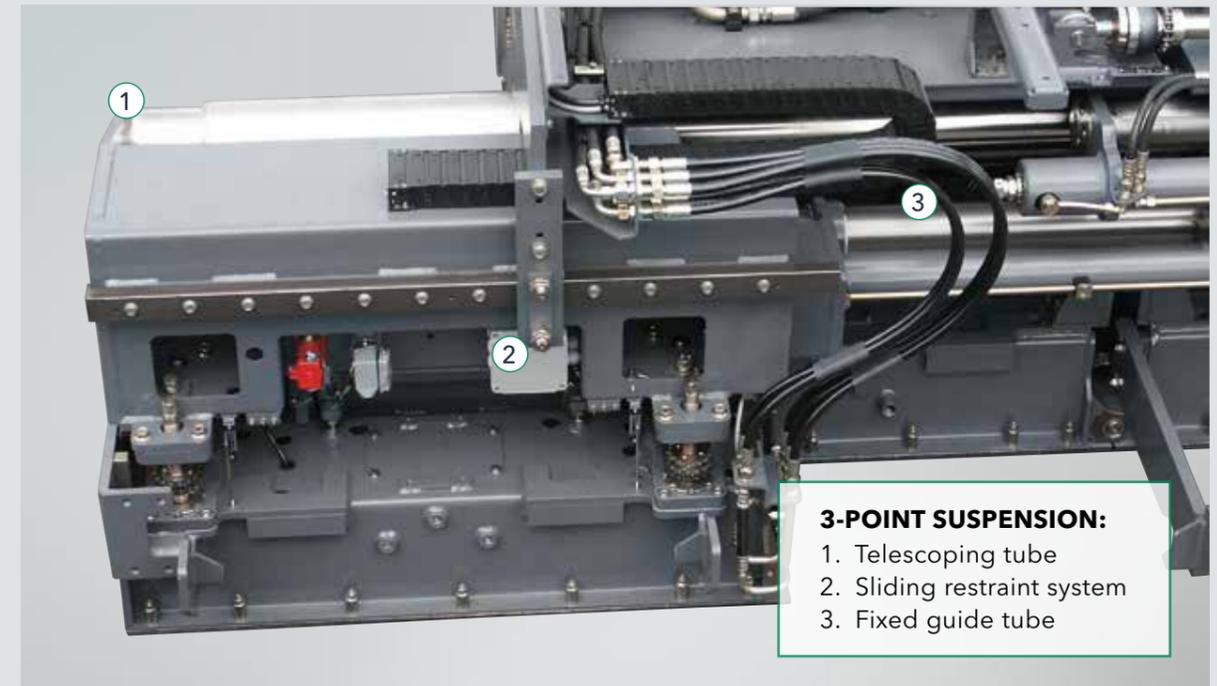
1. Sliding restraint system
2. Guide tube
3. Hydraulic ram

The VÖGELE single-tube telescoping system guarantees maximum stability even when the screed is set to its maximum width.



Low-wear teflon tape inside the telescoping tube provides for jerk-free sliding. Two hydraulic rams which can be operated very precisely are installed for screed width control.

## 3-point suspension



- 3-POINT SUSPENSION:**
1. Telescoping tube
  2. Sliding restraint system
  3. Fixed guide tube

**VÖGELE extending screeds** place all kinds of layers with highest precision, including layers with a varying thickness across the pave width when building crowned pavement profile, for instance.

Thanks to the 3-point suspension of the screed's extending units, torsional forces exerted to these units by pressure of the mix cannot affect the screed's telescoping system.

Forces are absorbed at the telescoping tube's outer point of attachment to the extending unit by a fixed guide tube and a sliding restraint system. Thanks to this design, the screed's extending units move in and out smoothly, nothing can jam or get stuck.

## The VÖGELE single-tube telescoping system at a glance

» **Amplly dimensioned**, sturdy telescoping tubes featuring high-precision operation. They provide for excellent stability of the screed, a precondition of prime paving results.

» **Telescoping tubes** are located in high positions. Any contact with the hot mix is positively avoided.

» **Even with the screed set to its maximum width**, the telescoping tubes are extended by no more than half, which provides for zero flexing.

» **Thanks to 3-point suspension** of the screed's extending units, nothing can jam or get stuck.

# Screed heating

## Electric screed heating

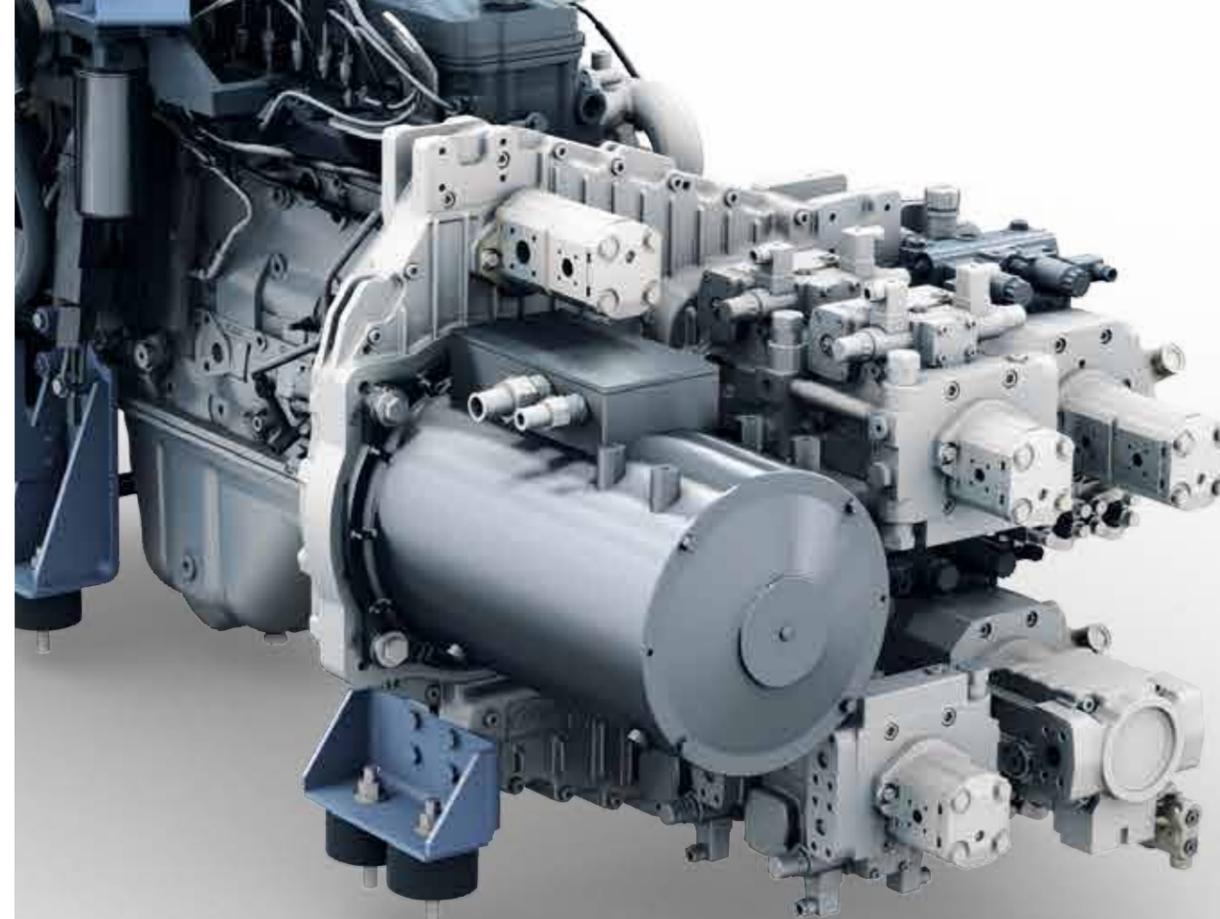
**Over decades**, VÖGELE have gained a wealth of experience in electric screed heating, which has been installed in all VÖGELE fixed-width screeds and extending screeds since 1952.

Electric heating provided for all compacting and smoothing screed elements heats them up and maintains an ideal temperature while paving.

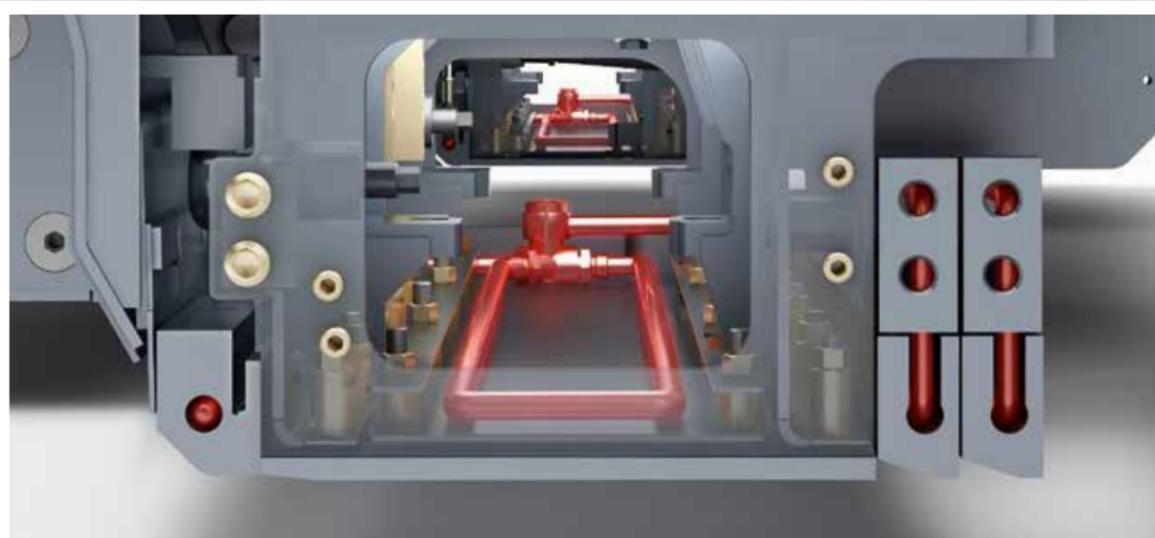
In all VÖGELE pavers, powerful and sturdy three-phase A.C. generators are installed to supply electric power for screed heating. An intelligent generator management feature brings highest efficiency.

In order to support compaction and produce a smooth surface texture, all compacting elements are heated across the full screed width.

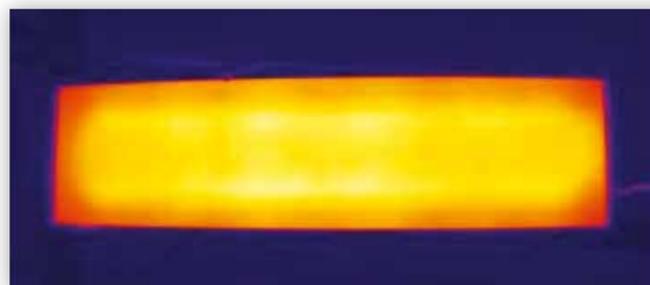
Screed plates are fitted as standard with heating elements which distribute the heat all over the plates. Heating elements are perfectly insulated to prevent loss of heat to the upper environment. As a result, the heat is directed 100% to where it is needed, in fact to areas of contact with the hot mix. Tamper bars and pressure bar(s) are fitted with heating rods for quick and uniform heating from inside. Sophisticated technology is installed, allowing automated control of screed heating.



*An easily accessible three-phase A.C. generator is installed to supply power for perfect heating of VÖGELE extending screeds and fixed-width screeds across the full pave width.*



*All compacting elements are heated across the full pave width.*



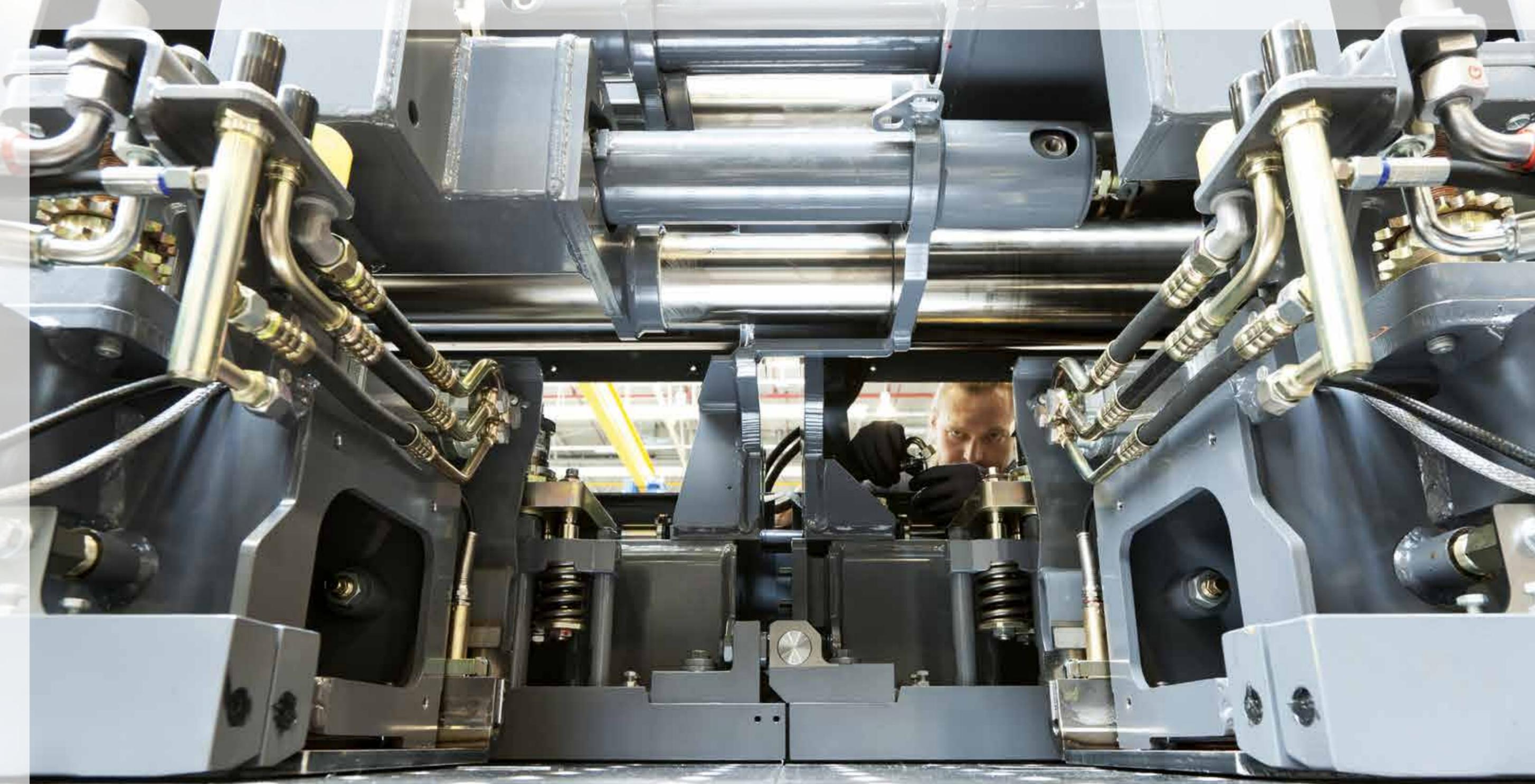
Infrared image of a screed plate. Constant and uniform heating all over the screed plate is crucial for high pavement quality.

## Generator management

**An intelligent generator management system** ensures that, irrespective of engine rpm, the generator output needed for heating the screed in its current pave width is made available at all times. Heating the screed's compacting systems to operating temperature only takes a short time, even with the engine running at minimum rpm. When working with paver functions set to automatic, the generator management feature activates screed heating in alternating mode which cuts the electric power required for heating and reduces fuel consumption.

### The VÖGELE generator management system at a glance

- » **Alternating mode** cuts the electric power required for screed heating and reduces fuel consumption.
- » **Screed heating** even at minimum engine rpm only takes a short time, so that the paver is quickly ready for operation.
- » **Uniform and constant** screed heating adds to high pavement quality.



## Where quality begins

**The screed is the heart of each road paver.** From the engineering point of view, it is the crucial component deciding whether the paving job will be a success or not. VÖGELE are committed to the manufacture of prime quality screeds which stand out through high reliability and the latest in screed technology.

# VÖGELE manufacturing technology

Where quality begins

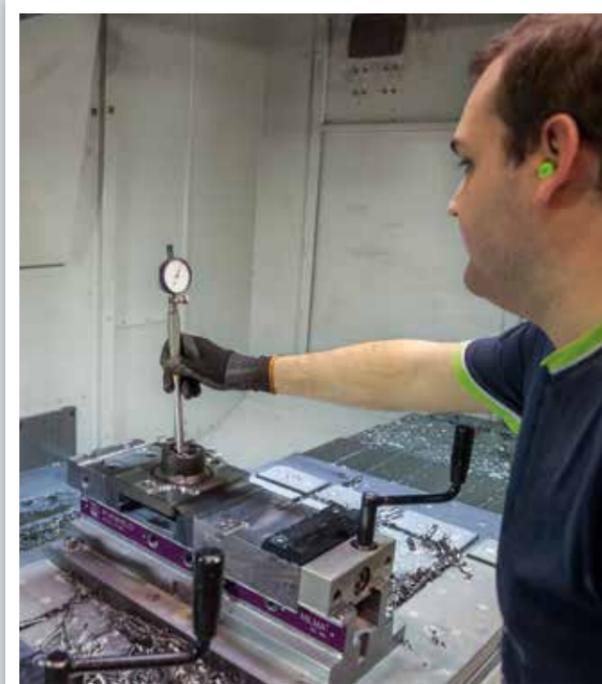
**Sophisticated technology** plus the most advanced materials ensure the durability of our compacting systems. VÖGELE screed plates made of highly wear-resistant material undergo a 3-step manufacturing process. Accurate milling of the plates' leading edges by special tools ensures that the mix will be properly packed under the screed later on. In addition, it provides for smooth and accurate guidance of the tamper bars, a feature that adds to the long service lives of both screed plate and tamper.

First-class thermal treatment of tamper bars and pressure bar(s) is crucial for high quality and longevity. It is primarily the process of hardening that decides these components' wear properties.

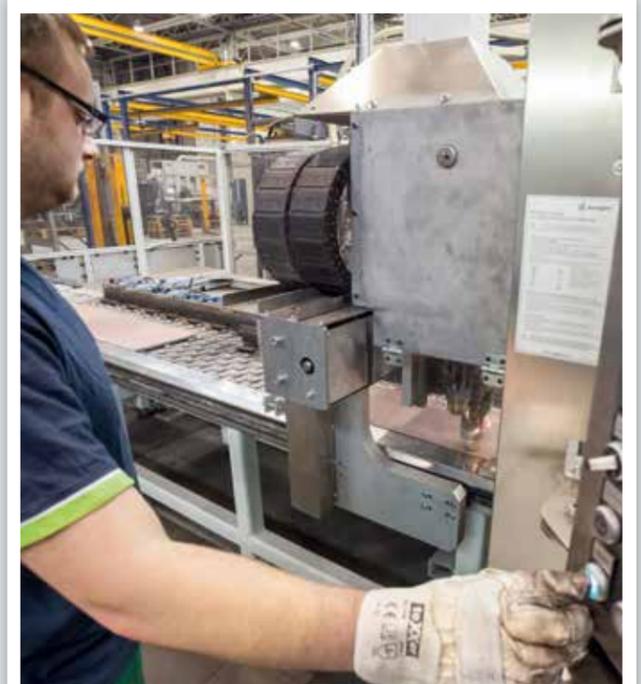
VÖGELE rely on induction hardening. This method provides for an enhanced hardening depth, uniform hardening over the bar's full length and highest evenness - properties that reduce wear of tamper bars and pressure bar(s) and guarantee long service lives.



Screed plates straightened free from tension and with highest precision (error of no more than 2 tenths of a millimetre allowed) feature longevity thanks to even wear.



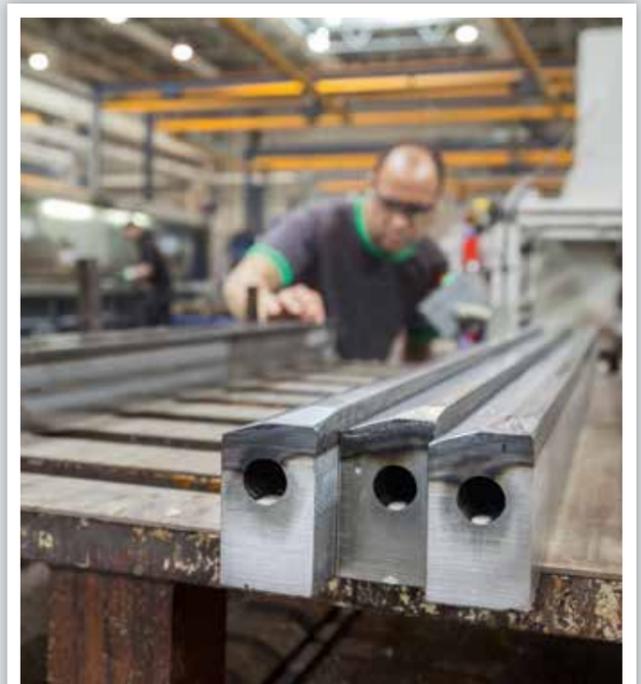
All manufacturing stages are subjected to thorough quality checks.



The CNC machine welds threaded bolts to the screed plates.



Induction hardening of tamper bars and pressure bar(s) guarantees long service lives.



Tamper bar and pressure bar(s) are hardened to a uniform depth of 5mm.

# VÖGELE manufacturing technology

Where quality begins

**Stability and high precision** of the VÖGELE extending screeds are of crucial importance for the paving results achieved later on in the field. The production of single-tube telescoping systems, in particular, requires a high level of accuracy. Therefore, stability and zero slack are main demands made on the telescoping systems in VÖGELE screeds.

On grinding and honing machines, we produce an extremely smooth surface, allowing a roughness of no more than 5 thousandths of a millimetre. This is 20 times less than the thickness of a human hair.

An important step in the manufacturing process is the robotized welding of screed frames. With workpieces in an optimal position, robot-produced welds are carried out with high precision, seam after seam. As a result, the screed frames manufactured this way feature consistent high quality and excellent sturdiness.

During all phases of their manufacture and during final assembly, our screeds undergo thorough testing which guarantees that products made to highest standards of quality are supplied to costumers – products made by VÖGELE.

*20 times less than the thickness of a human hair. Inner surfaces of telescoping tubes are machined to the highest possible level of precision.*



The telescoping tubes are manufactured with the greatest precision on special machines.



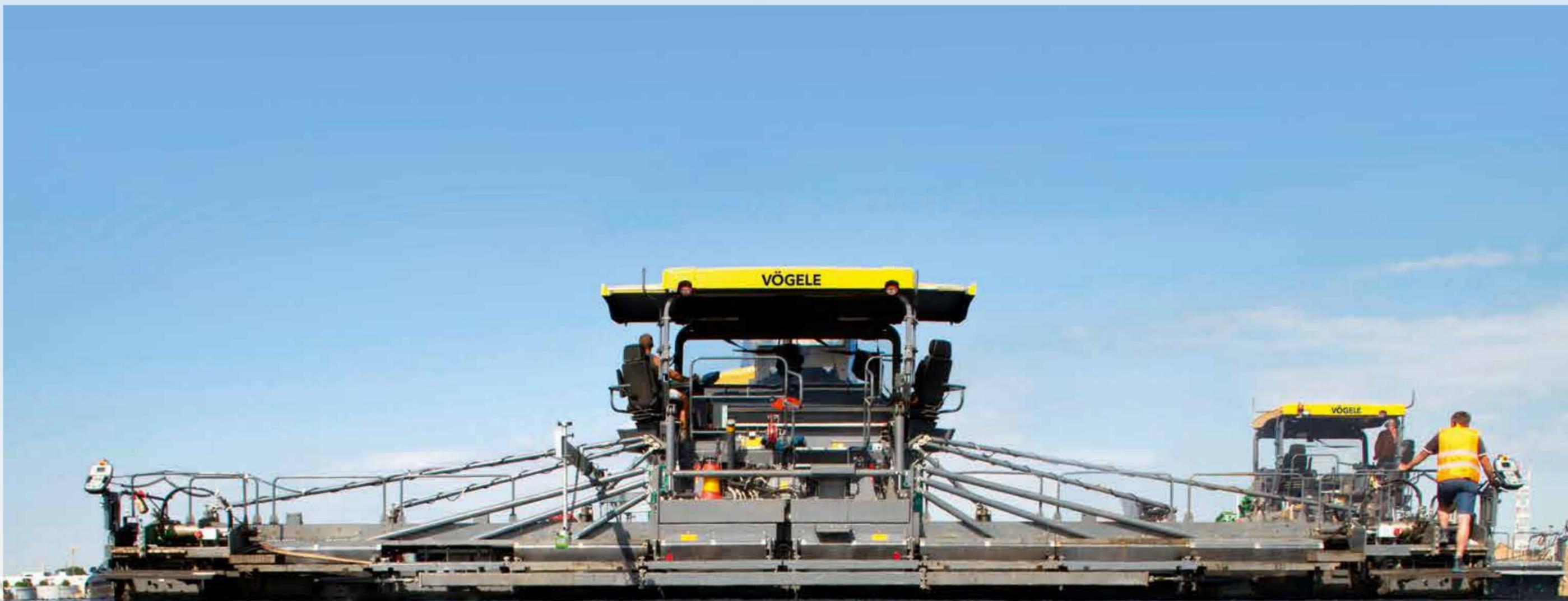
Eccentric shafts for tamper drives.



Welding cell for screed frames. Robot-produced weld seams feature consistent, high quality and precision.



During final assembly, VÖGELE screeds undergo a variety of functional tests.



## VÖGELE screeds – At a glance

**All VÖGELE screeds** can be built up with bolt-on extensions and tailored to any desired pave width. The VÖGELE system of bolt-on extensions allows screeds to be built up easily and sturdily to widths suitable for practical applications. Even when paving across large widths, VÖGELE screeds work with highest precision and achieve superb degrees of uniform density right up to the pavement edges.

## Extending screeds for SUPER pavers



### VÖGELE AB 220

#### Pave widths

- » Basic width 1.2m, infinitely variable range 1.2m to 2.2m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 3.5m

#### Screed versions

- » V, TV



### VÖGELE AB 340

#### Pave widths

- » Basic width 1.8m, infinitely variable range 1.8m to 3.4m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 5m

#### Screed versions

- » V, TV



### VÖGELE AB 480

#### Pave widths

- » Basic width 2.55m, infinitely variable range 2.55m to 4.8m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 6.3m

#### Screed version

- » TV



### VÖGELE AB 500

#### Pave widths

- » Basic width 2.55m, infinitely variable range 2.55m to 5m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 8.5m

#### Screed versions

- » TV, TP1, TP2, TP2 Plus



### VÖGELE AB 600

#### Pave widths

- » Basic width 3m, infinitely variable range 3m to 6m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 9.5m

#### Screed versions

- » TV, TP1, TP2, TP2 Plus



### VÖGELE VR 600

#### Pave widths

- » Basic width 3.05m, infinitely variable range 3.05m to 6m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 8.6m

#### Screed version

- » V



### VÖGELE VF 500

#### Pave widths

- » Basic width 2.45m, infinitely variable range 2.45m to 4.75m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 5.95m

#### Screed version

- » V



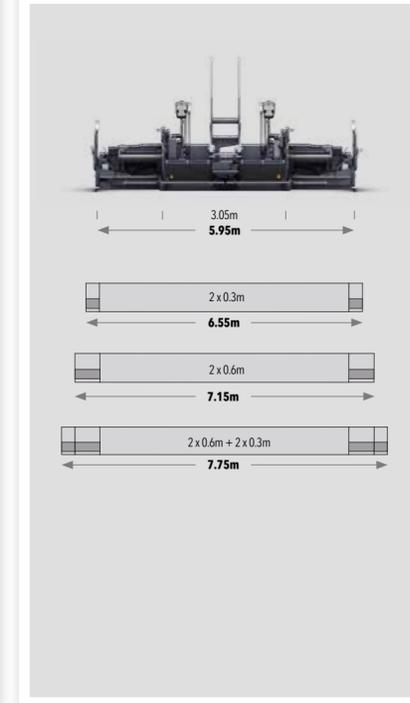
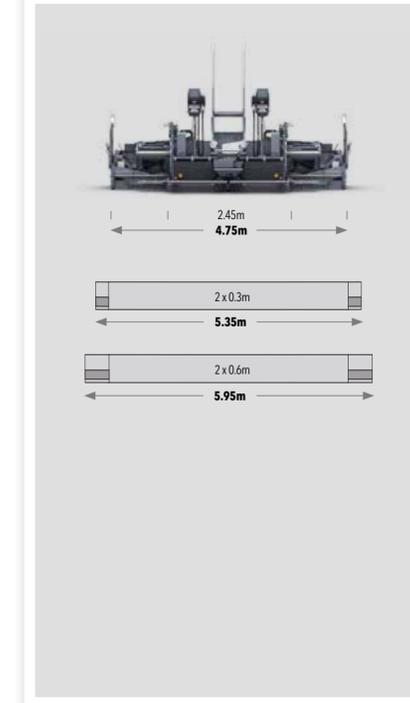
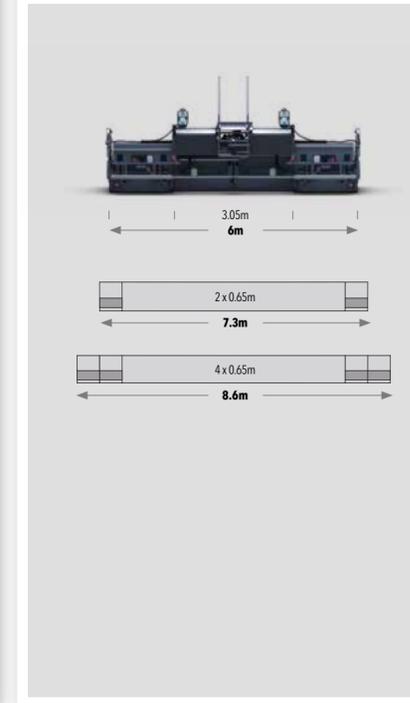
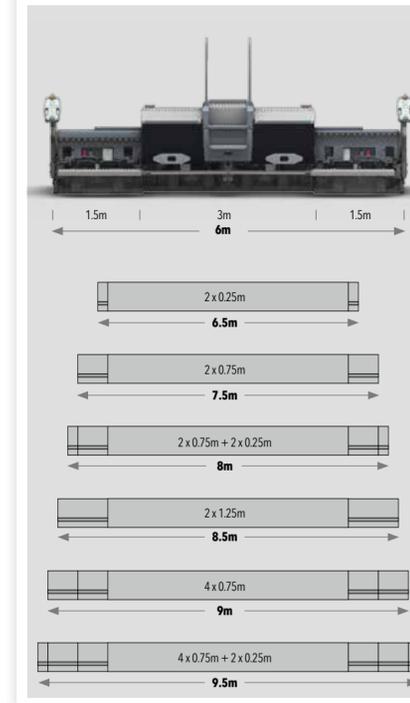
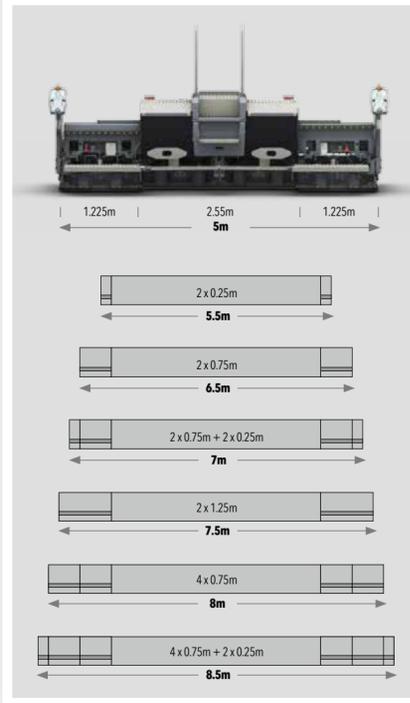
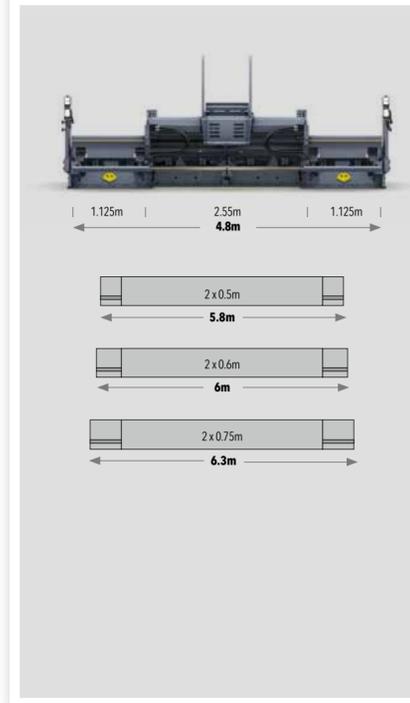
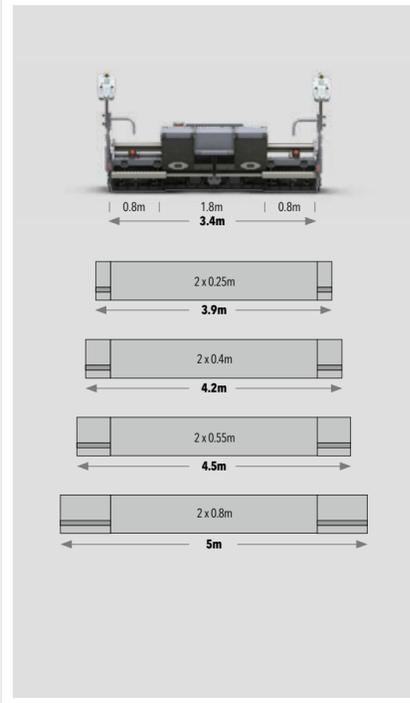
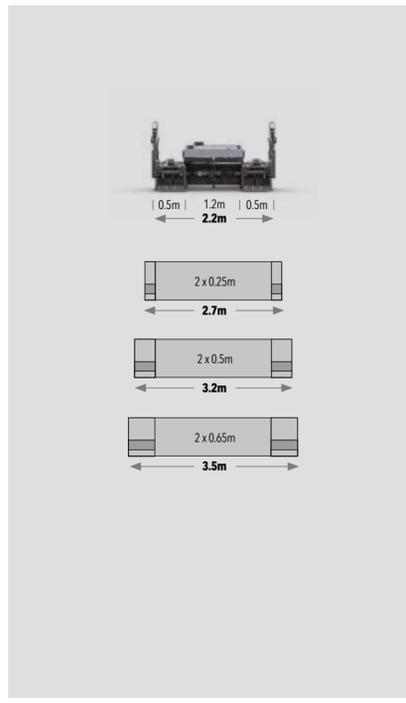
### VÖGELE VF 600

#### Pave widths

- » Basic width 3.05m, infinitely variable range 3.05m to 6m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 7.75m

#### Screed version

- » V



Key: AB = Extending Screed  
 VF = Screed with Front-Mounted Extensions  
 VR = Screed with Rear-Mounted Extensions  
 V = with vibrators  
 TP1 = with tamper and 1 pressure bar  
 TP2 Plus = with special tamper, 2 pressure bars and additional weights  
 TV = with tamper and vibrators  
 TP2 = with tamper and 2 pressure bars

# Fixed-width screeds for SUPER pavers



## VÖGELE SB 250

### Pave widths

- » Basic width 2.5m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 13m

### Screed versions

- » TV, TP1, TP2, TVP2



## VÖGELE SB 300

### Pave widths

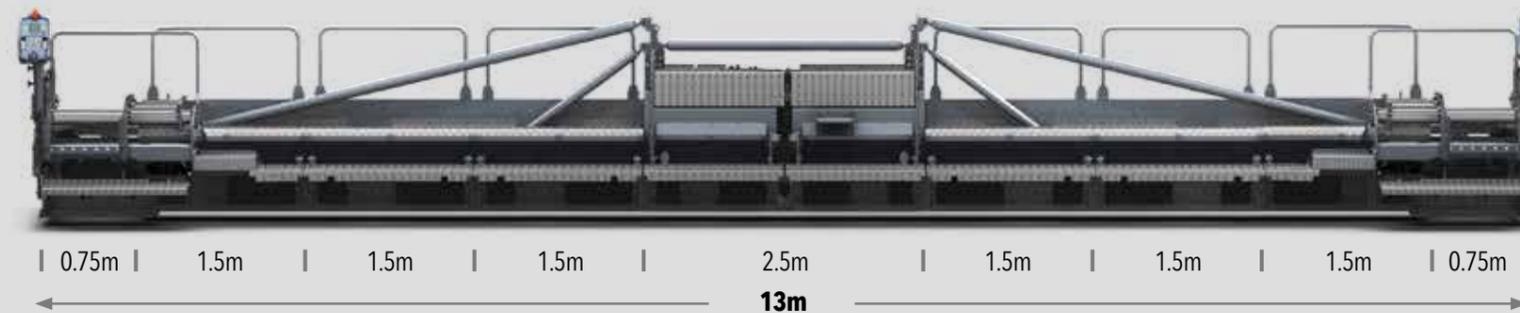
- » Basic width 3m
- » Larger widths through the addition of bolt-on extensions up to a maximum of 16m

### Screed versions

- » TV, TP1, TP2, TVP2

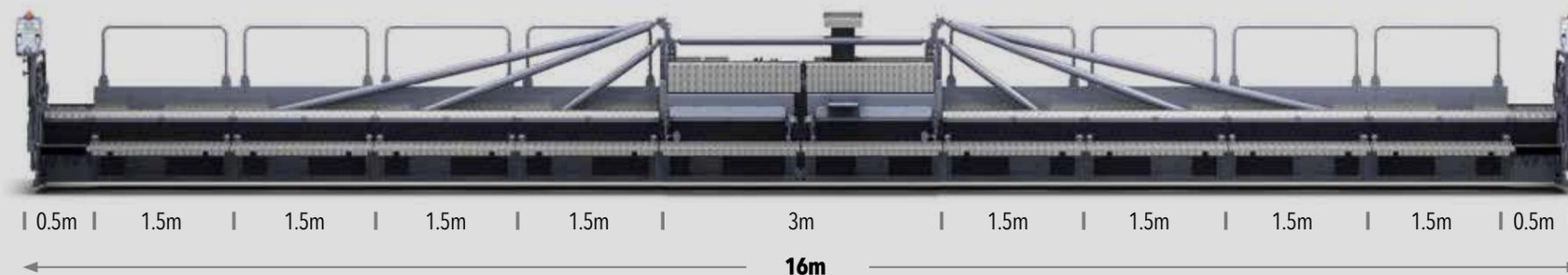
## VÖGELE SB 250

SB 250 TV built up to maximum pave width



## VÖGELE SB 300

SB 300 TV built up to maximum pave width



Key: SB = Fixed-Width Screed  
 TP1 = with tamper and 1 pressure bar  
 TVP2 = with tamper, vibrators and 2 pressure bars  
 TV = with tamper and vibrators  
 TP2 = with tamper and 2 pressure bars



Your VÖGELE QR Code leads you directly to the VÖGELE "Products" on our website.



**JOSEPH VÖGELE AG**

Joseph-Vögele-Str. 1  
67075 Ludwigshafen · Germany  
[www.voegele.info](http://www.voegele.info)

T: +49 621 / 81 05 0  
F: +49 621 / 81 05 461  
[marketing@voegele.info](mailto:marketing@voegele.info)



© ERGOPLUS, InLine Pave, NAVITRONIC, NAVITRONIC Basic, NAVITRONIC Plus, NIVELTRONIC, NIVELTRONIC Plus, RoadScan, SprayJet, VÖGELE, VÖGELE PowerFeeder, PaveDock, PaveDock Assistant, AutoSet, AutoSet Plus, AutoSet Basic, ErgoBasic and VÖGELE-EcoPlus are registered Community Trademarks of JOSEPH VÖGELE AG, Ludwigshafen/Rhein, Germany. PCC is a registered German Trademark of JOSEPH VÖGELE AG, Ludwigshafen/Rhein, Germany. ERGOPLUS, NAVITRONIC Plus, NAVITRONIC BASIC, NIVELTRONIC Plus, SprayJet, VISION, VÖGELE, VÖGELE PowerFeeder, PaveDock, PaveDock Assistant, AutoSet, AutoSet Plus, AutoSet Basic and VÖGELE-EcoPlus are trademarks registered in the US Patent and Trademark Office to JOSEPH VÖGELE AG, Ludwigshafen/Rhein, Germany. Legally binding claims cannot be derived from written information or pictures contained in this brochure. Pictures may include optional extras. We reserve the right to make technical or design alterations.