A WIRTGEN GROUP COMPANY

VÖGELE

SCREEDS
2020

PREMIUM LINE

CLASSIC LINE

www.voegele.info

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

	Basic width	Infinitely variable range	Maximum pave width	Compacting systems	
AB 220	1.2 m	up to 2.2 m	3.5 m	V | TV	Page 10
AB 340	1.8 m	up to 3.4 m	5 m	V | TV	Page 12
AB 480	2.55 m	up to 4.8 m	6.3 m	TV	Page 14
AB 500	2.55 m	up to 5 m	8.5 m	TV | TP1 | TP2 | TP2 Plus	Page 16
AB 600	3 m	up to 6 m	9.5 m	TV | TP1 | TP2 | TP2 Plus	Page 18
VF 500	2.45 m	up to 4.75 m	5.95 m	V	Page 22
VF 600	3.05 m	up to 5.95 m	7.75 m	V	Page 24
VR 600	3.05 m	up to 6 m	8.6 m	V	Page 26

Fixed-width screeds

	Basic width	Infinitely variable range	Maximum pave width	Compacting systems	
SB 300	3 m	2.5 m	16 m	TV | TP1 | TP2	Page 32
SB 300 HD	3 m	2.5 m	12 m	TV	Page 34
SB 350	3.5 m	2.5 m	18 m	TV | TP1 | TP2	Page 36

Key: **AB =** extending screed **SB =** fixed-width screed **VF =** screed with front-mounted extensions **VR =** screed with rear-mounted extensions **V =** with vibrators **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

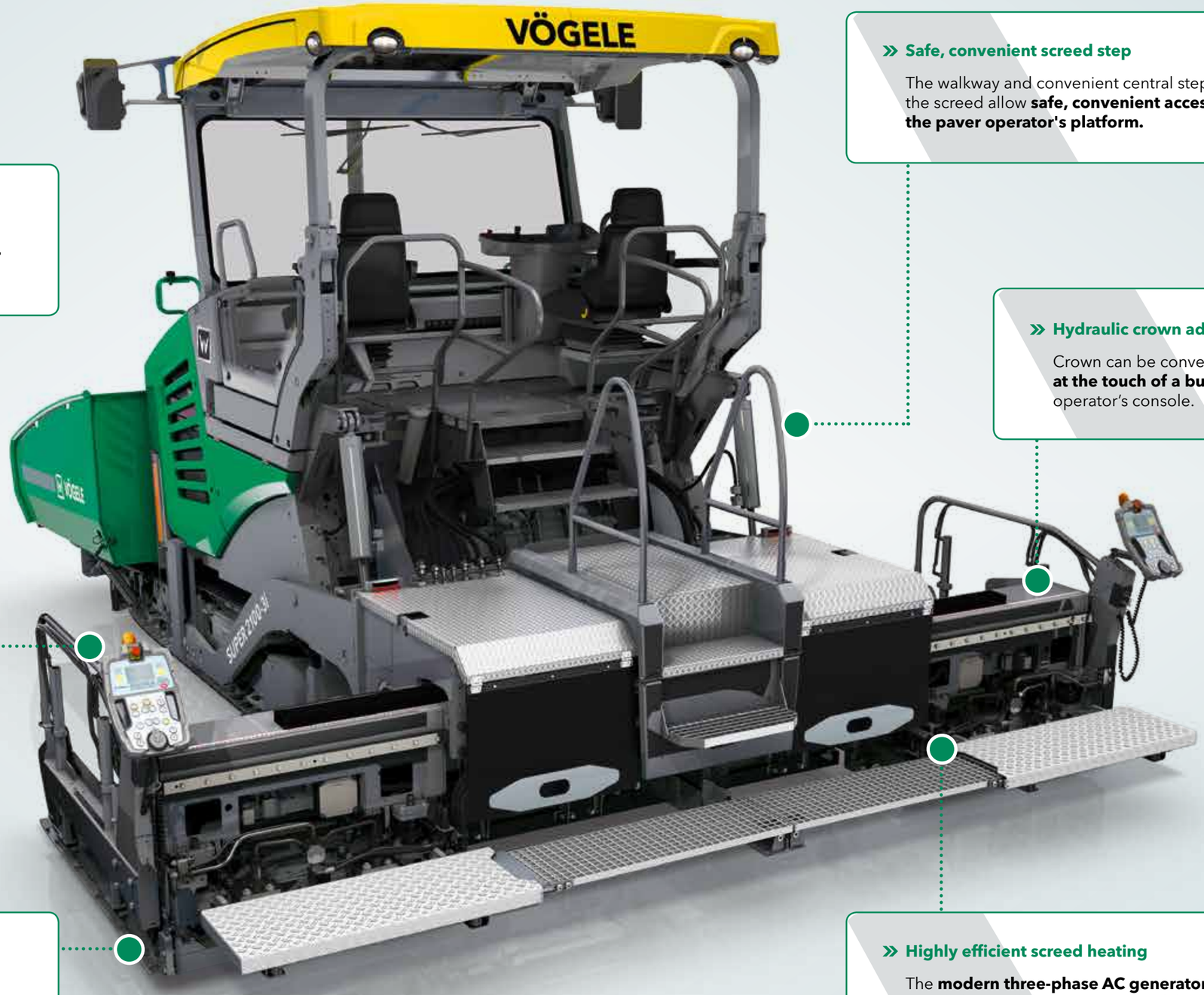
Screed versions

Screed type / Compacting systems / Paver	AB 220 V	AB 220 TV	AB 340 V	AB 340 TV	AB 480 TV	AB 500 TV	AB 500 TP1	AB 500 TP2	AB 500 TP2 Plus	AB 600 TV	AB 600 TP1	AB 600 TP2	AB 600 TP2 Plus	VF 500 V	VF 600 V	VR 600 V	SB 300 TV	SB 300 TP1	SB 300 TP2	SB 300 HD TV	SB 350 TV	SB 350 TP1	SB 350 TP2
SUPER 700(i)	✓																						
SUPER 800(i)		✓																					
SUPER 1000(i)			✓	✓																			
SUPER 1003(i)			✓	✓																			
SUPER 1300-3(i)			✓	✓																			
SUPER 1303-3(i)			✓	✓																			
SUPER 1600					✓																		
SUPER 1603					✓																		
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 3000-3(i)										✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓

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



» 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.

» Safe, convenient screed step

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

» Hydraulic crown adjustment

Crown can be conveniently adjusted **at the touch of a button** on the screed operator's console.

» Outstanding paving characteristics

Optimized geometry of the tamper bar and the screed plates achieves particularly **stable floating behaviour of the screed.**

» Highly efficient screed heating

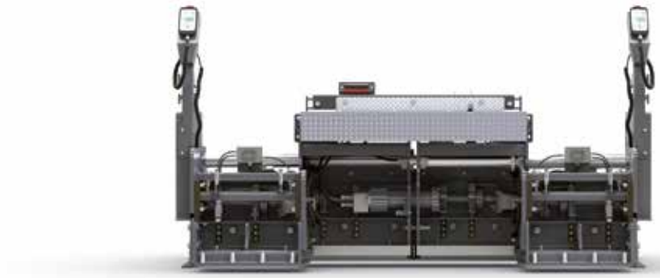
The **modern three-phase AC generator** rapidly heats all the components of the screed to the ideal operating temperature.

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.

Compacting systems	**V | TV**
Maximum pave width	**3.5 m**



Pave widths	
Pave widths	**0.5 m to 3.5 m***
Basic width	**1.2 m**
Infinitely variable range	**up to 2.2 m**

Bolt-on extensions	
Bolt-on extensions	**25 cm (V/TV)** **50 cm (V/TV)** **65 cm (TV)**

Reduction in width	
Variable adjustment	**0.5 m to 1.2 m**

Crown adjustment	
Mechanical	**-2% to +4%**

Compacting systems	
Versions	**V, TV**
Vibrators (V)	**eccentric vibration up to 3,300 rpm**
Tamper (T)	**speed up to 1,800 rpm**
Stroke	**4 mm**

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

Transport dimensions (basic screed)	
Width	**1.27 m**
Depth	**0.76 m**
Weight	**720 kg (V)** **820 kg (TV)**

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

Subject to technical changes.
*Depending on paver type

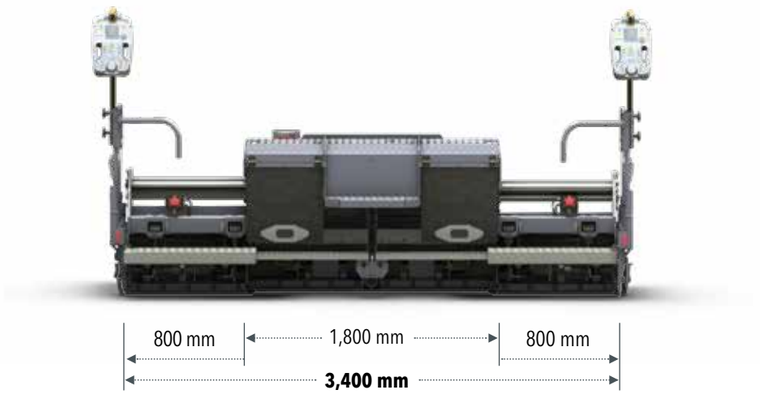
AB 340 Extending Screed

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.

Compacting systems	**V | TV**
Maximum pave width	**5 m**



Pave widths	
Pave widths	**0.75 m to 4.2 m (V)*** **0.75 m to 5 m (TV)***
Basic width	**1.8 m**
Infinitely variable range	**up to 3.4 m**

Bolt-on extensions	
Bolt-on extensions	**25 cm (V/TV)** **40 cm (V)** **55 cm (TV)** **80 cm (TV)**

Reduction in width	
Cut-off shoes	**52.5 cm**

Crown adjustment	
Mechanical/ optional hydraulic adjustment	**-2.5% to +3%,** **M, W or parabolic profiles possible**

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

Compacting systems	
Versions	**V, TV**
Vibrators (V)	**eccentric vibration up to 3,000 rpm**
Tamper (T)	**speed up to 1,700 rpm**
Stroke	**4 mm**

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

Transport dimensions (basic screed)	
Width	**1.8 m**
Depth	**1.1 m**
Weight	**1,350 kg (V)** **1,550 kg (TV)**

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

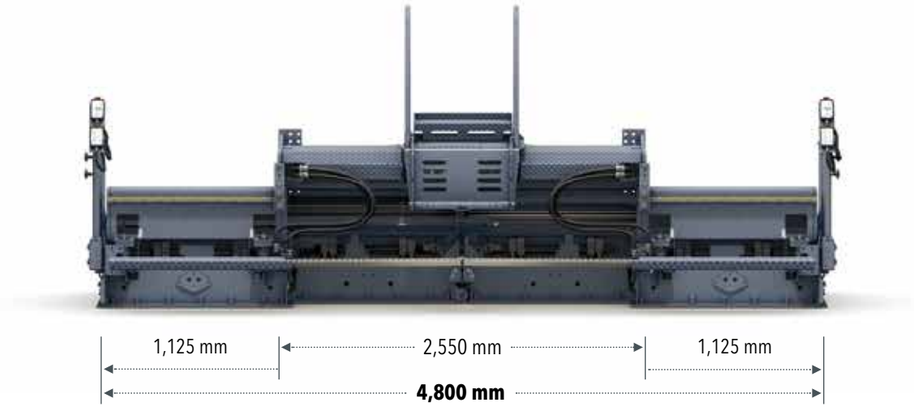
Subject to technical changes.
*Depending on paver type

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.

Compacting system **TV**
Maximum pave width **6.3 m**



Pave widths	
Pave widths	**2.55 m to 6.3 m**
Basic width	**2.55 m**
Infinitely variable range	**up to 4.8 m**

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

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

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

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

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

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

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

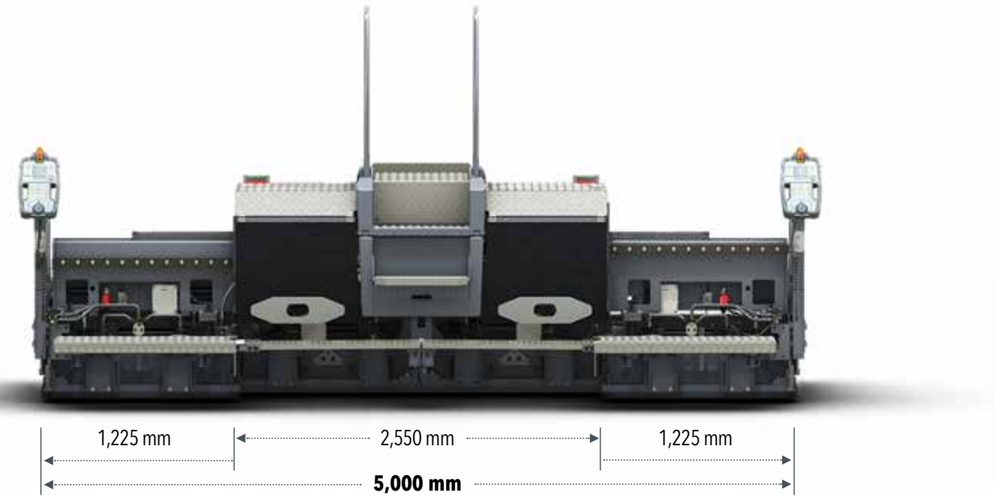
Subject to technical changes.
*Depending on paver type

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.

Compacting systems **TV | TP1 | TP2 | TP2 Plus**
Maximum pave width **8.5 m**



Pave widths	
Pave widths	2.55 m to 8.5 m*
Basic width	2.55 m
Infinitely variable range	up to 5 m

Bolt-on extensions	
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%

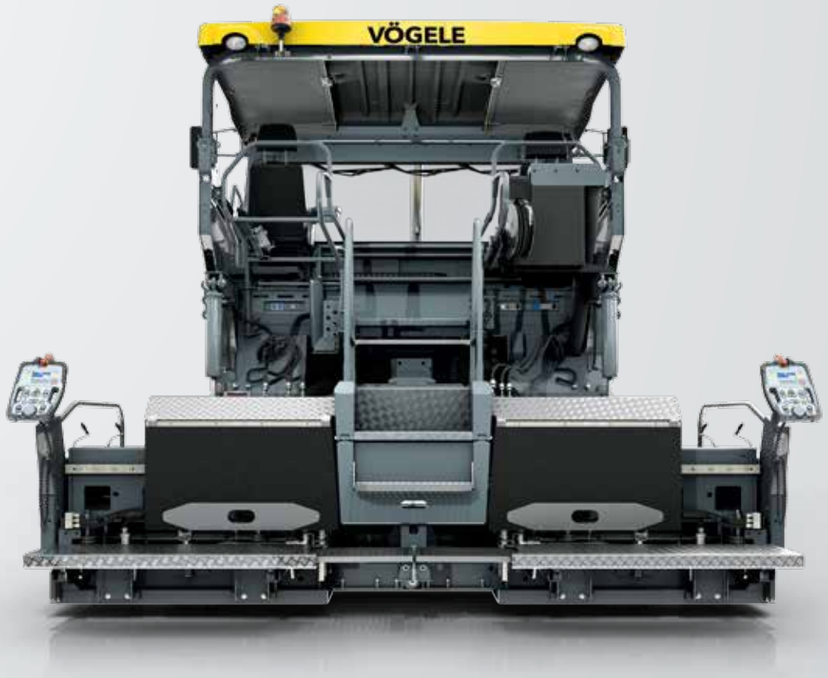
Compacting systems	
Screed versions	TV, TP1, TP2, TP2 Plus
Vibrators (V)	eccentric vibration up to 3,000 rpm
Tamper (T)	speed up to 1,800 rpm
Stroke adjustable TP1/TP2	2, 4 and 7 mm
Stroke adjustable TP2 Plus	4, 7 and 9 mm
Pressure bars (P)	driven by pulsed-flow hydraulics
Pulse frequency	68 Hz
Hydraulic 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	2.55 m
Depth	1.28 m (TV) 1.41 m (TP1/TP2/TP2 Plus)
Weight	3,250 kg (TV) 3,600 kg (TP1) 3,900 kg (TP2) 4,220 kg (TP2 Plus)

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

Subject to technical changes.
*Depending on paver type

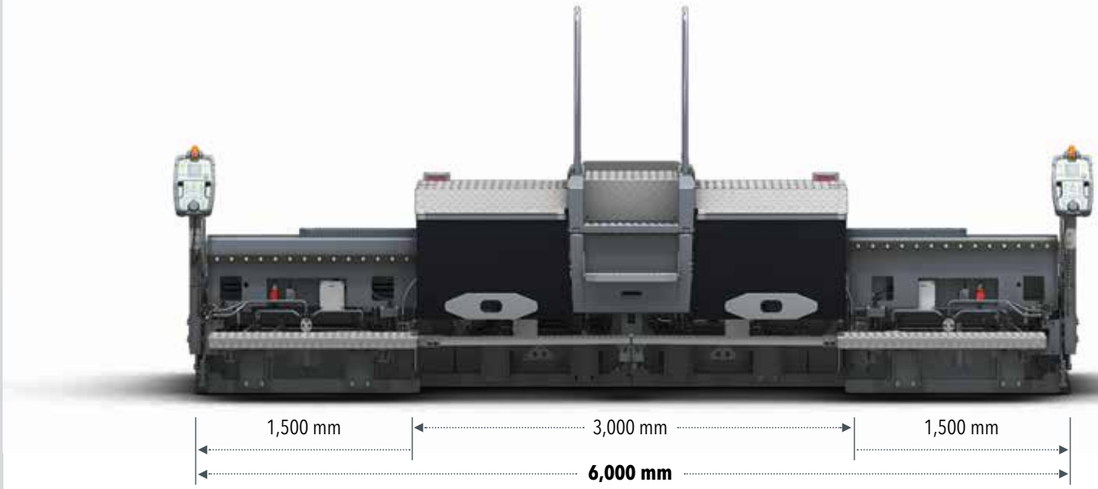


AB 600 Extending Screed

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.

Compacting systems **TV | TP1 | TP2 | TP2 Plus**
Maximum pave width **9.5 m**



Pave widths	
Pave widths	3 m to 9.5 m*
Basic width	3 m
Infinitely variable range	up to 6 m

Bolt-on extensions	
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	
Screed versions	TV, TP1, TP2, TP2 Plus
Vibrators (V)	eccentric vibration up to 3,000 rpm
Tamper (T)	speed up to 1,800 rpm
Stroke adjustable TP1/TP2	2, 4 and 7 mm
Stroke adjustable TP2 Plus	4, 7 and 9 mm
Pressure bars (P)	driven by pulsed-flow hydraulics
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 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)

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

Subject to technical changes.
*Depending on paver type

Designed specifically for the requirements of the North American and Australian markets

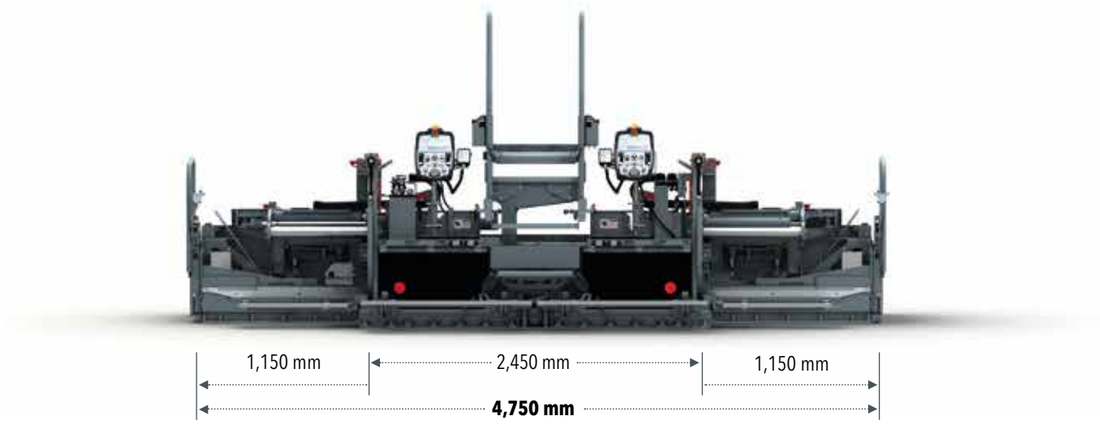
VÖGELE extending screeds, either front or rear-mounted are tailored specifically to meet the requirements of the North American and Australian market and cover a wide range of applications. They are characterized by a high level of variability and are therefore ideal for paving different widths and winding 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.

Designed specifically for the requirements of the North American and Australian market.

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.

Compacting system **V**
Maximum pave width **5.95 m**



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

Berm	
Berm	30 cm 45 cm 60 cm

Bolt-on extensions	
Bolt-on extensions	30 cm 60 cm

Compacting system	
Screed version	TV
Vibrators (V)	eccentric vibration up to 3,000 rpm

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

Screed heating	
Heating	screed plates heated by means of electric heating rods

Transverse slope	
Extension units	up to 10%

Transport dimensions (basic screed)	
Width	2.59 m
Depth	1.21 m
Weight	2,950 kg

Key: **VF =** screed with front-mounted extensions **V =** with vibrators

Subject to technical changes.

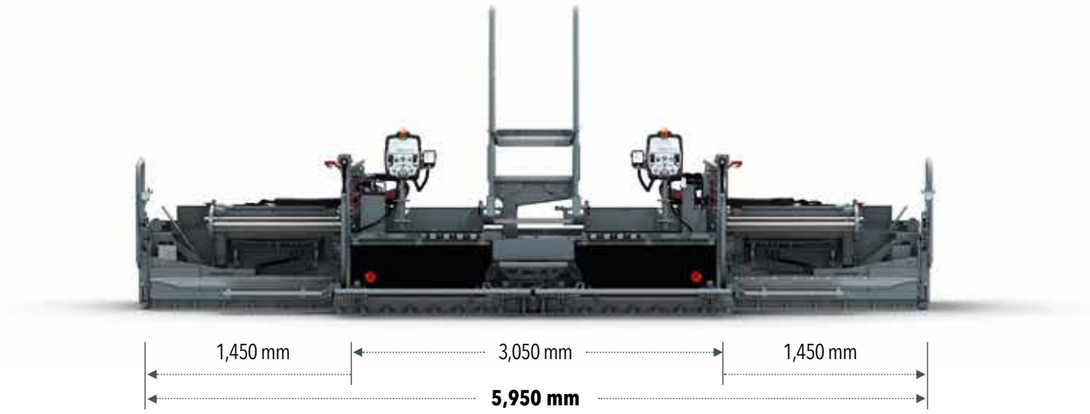
Designed specifically for the requirements of the North American and Australian market.

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.

Compacting system **V**
Maximum pave width **7.75 m**



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

Berm	
Berm	30 cm 45 cm 60 cm

Bolt-on extensions	
Bolt-on extensions	30 cm 60 cm

Compacting system	
Version	TV
Vibrators (V)	eccentric vibration up to 3,000 rpm

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

Screed heating	
Heating	screed plates heated by means of electric heating rods

Transverse slope	
Extension units	up to 10%

Transport dimensions (basic screed)	
Width	3.20 m
Depth	1.21 m
Weight	3,350 kg

Key: **VF =** screed with front-mounted extensions **V =** with vibrators

Subject to technical changes.

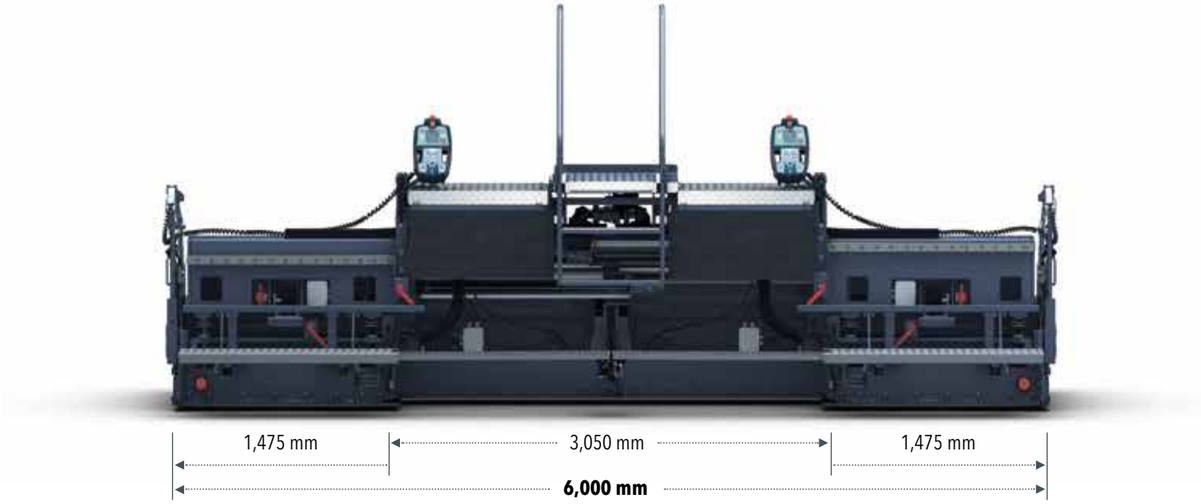
Designed specifically for the requirements of the North American and Australian market.

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.

Compacting system **V**
Maximum pave width **8.6 m**



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%, M, W or parabolic profiles possible

Transverse slope	
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

Key: **VR =** screed with rear-mounted extensions **V =** with vibrators

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

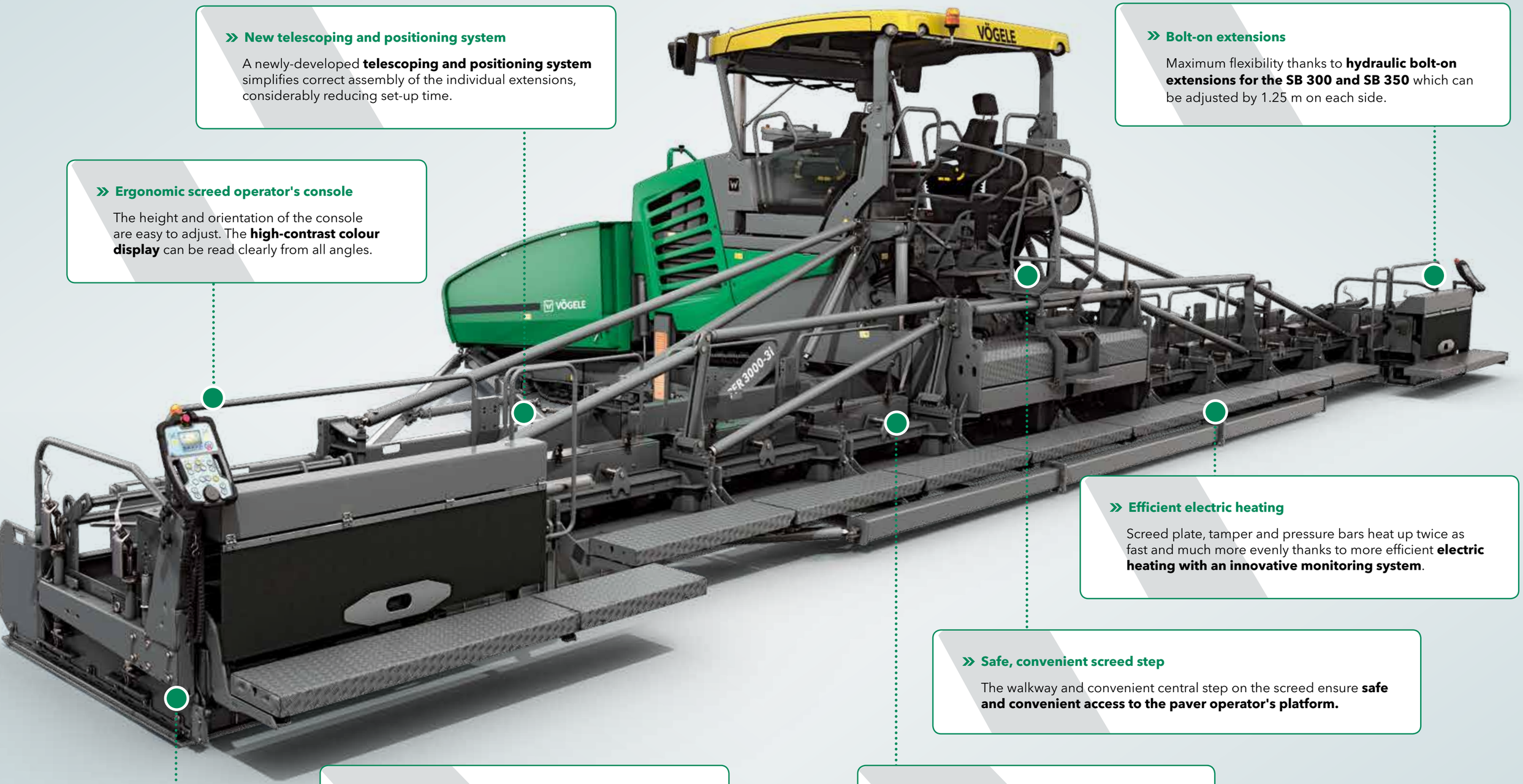
A newly-developed **telescoping and positioning system** simplifies correct assembly of the individual extensions, considerably reducing set-up time.

» 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.

» 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.



» 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.

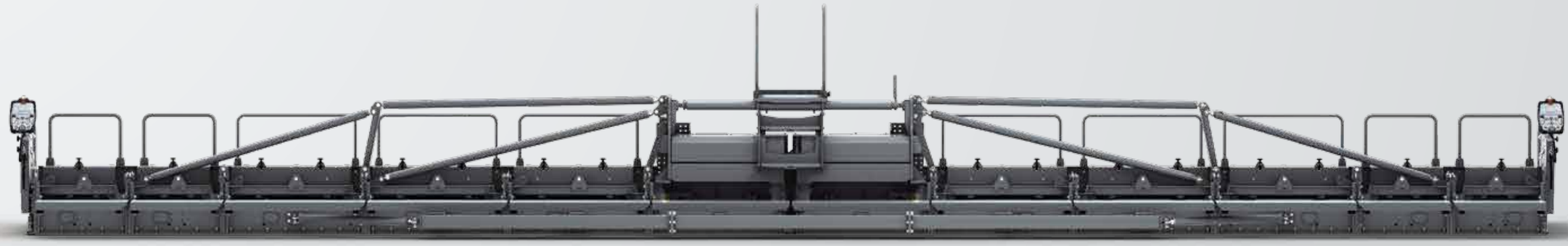
» Excellent surface accuracy

Its **high stability** guarantees excellent surface accuracy across full pave width.

SB 300 Fixed-Width Screed

Compacting systems **TV | TP1 | TP2**
Maximum pave width **16 m**

SB 300 TV Maximum width set-up



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.

Pave widths	
Pave widths	**3 m to 16 m***
Basic width	**3 m**

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

Crown adjustment	
Mechanical	**-2% to +3%**

Compacting systems	
Screed 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**
Optional:	**hydraulic, 4 and 8 mm**
Pressure bars (P)	**driven by pulsed-flow hydraulics**
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 m**
Depth	**1.34 m**
Weights	**2,350 kg (TV)** **2,500 kg (TP1)** **2,650 kg (TP2)**

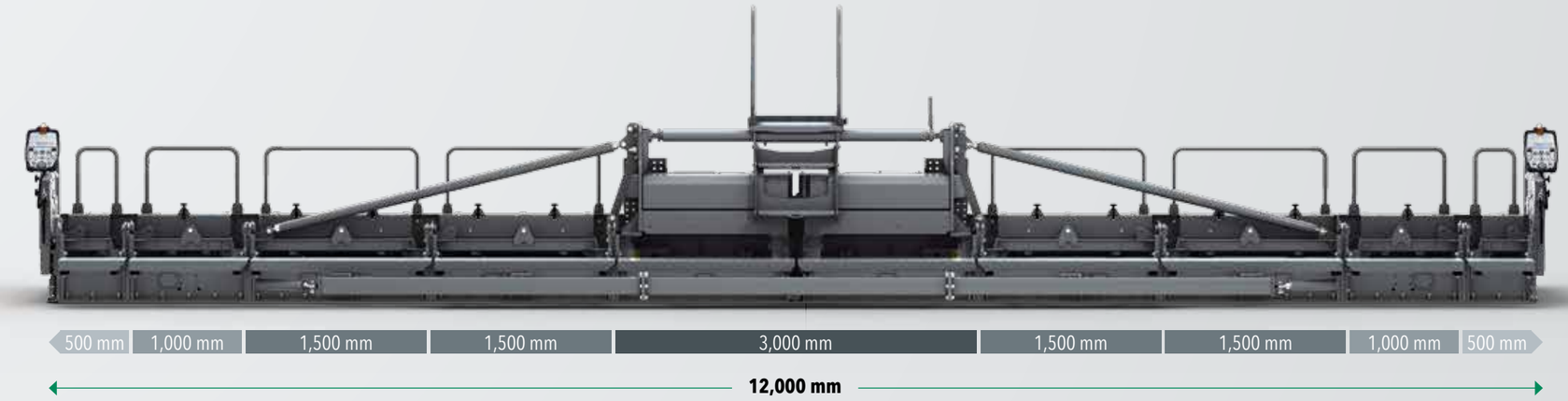
Key: **TV =** with tamper and vibrators
TP1 = with tamper and 1 pressure bar
TP2 = with tamper and 2 pressure bars

Subject to technical changes.
*Depending on paver type

SB 300 HD Fixed-Width Screed

Compacting system **TV**
Maximum pave width **12 m**

SB 300 HD TV Maximum width set-up



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.

Pave widths	
Pave widths	**3 m to 12 m***
Basic width	**3 m**

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

Crown adjustment	
Mechanical	**-2% to +3%**

Compacting systems	
Version	**TV**
Vibrators (V)	**eccentric vibration up to 3,000 rpm**
Tamper (T)	**speed up to 1,800 rpm**
Stroke adjustable	**2, 4 and 7 mm**

Transport dimensions (basic screed)	
Width	**3 m**
Depth	**1.34 m**
Weight	**2,400 kg**

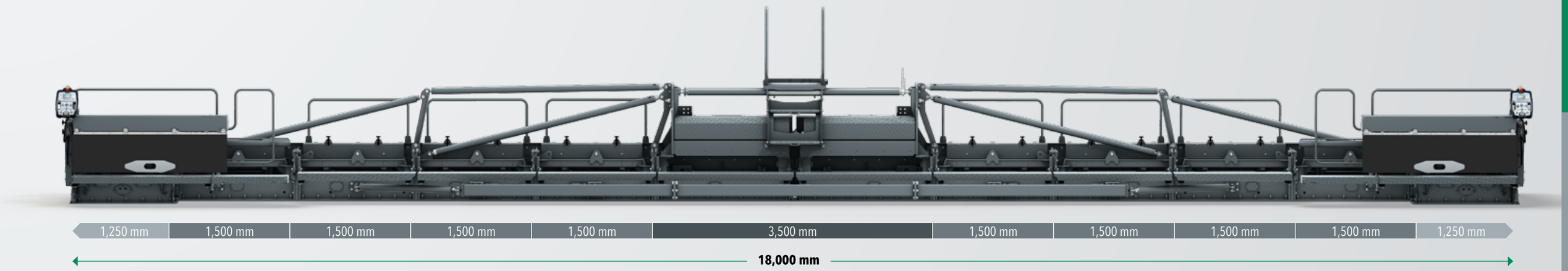
Key: **TV =** with tamper and vibrators

Subject to technical changes.
*Depending on paver type

SB 350 Fixed-Width Screed

Compacting systems **TV | TP1 | TP2**
Maximum pave width **18 m**

SB 350 TV Maximum width set-up



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	
Pave widths	3.5 m to 18 m*
Basic width	3.5 m

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

Crown adjustment	
Mechanical	-2% 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
Optional:	hydraulic, 4 and 8 mm
Pressure bars (P)	driven by pulsed-flow hydraulics
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

Subject to technical changes.
*Depending on paver type

Bolt-on extensions for SB 300 and SB 350

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.

Compacting systems	**TV | TP1 | TP2**
Adjustment range	**up to 2.5 m**

Scope of supply	
Scope of supply	**set of left and right bolt-on extensions**

Infinitely variable range	
Infinitely variable range	**1.25 cm on each side**

Compacting systems	
Versions	**TV, TP1, TP2**
Tamper (T)	**speed up to 1,800 rpm**
Stroke adjustable	
Standard:	**mechanical, 2, 4 and 7 mm**
Optional:	**hydraulic, 4 and 8 mm**
Pressure bars (P)	**driven by pulsed-flow hydraulics**
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**

Mounting	
Mounting	**basic screed must be extended by at least 150 cm on each side. Bolting-on is possible only to extensions of 100 cm or 150 cm.**

Weight (per set)	
Screed version TV	**2,300 kg**
Screed version TP1	**2,400 kg**
Screed version TP2	**2,500 kg**

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

Subject to technical changes.

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 screed 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.

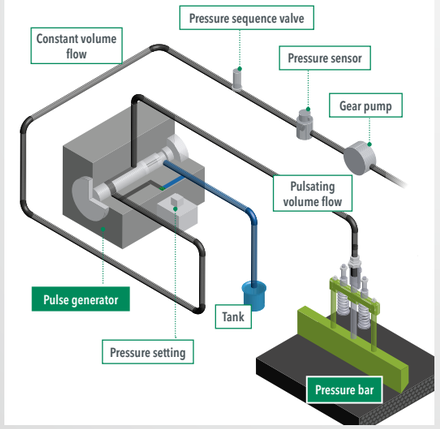
Maximum compaction values
with VÖGELE **high compaction technology**

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.

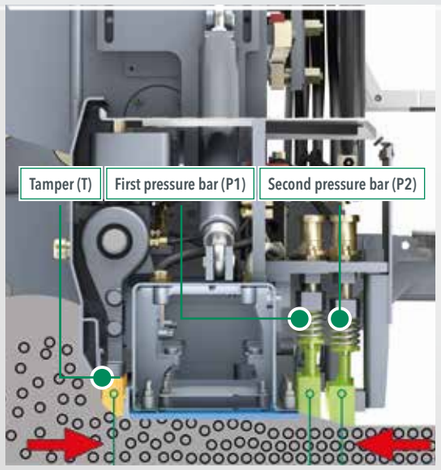
› **The pressure bars** driven by pulsed-flow hydraulics are the core of VÖGELE high compaction technology.

› **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.

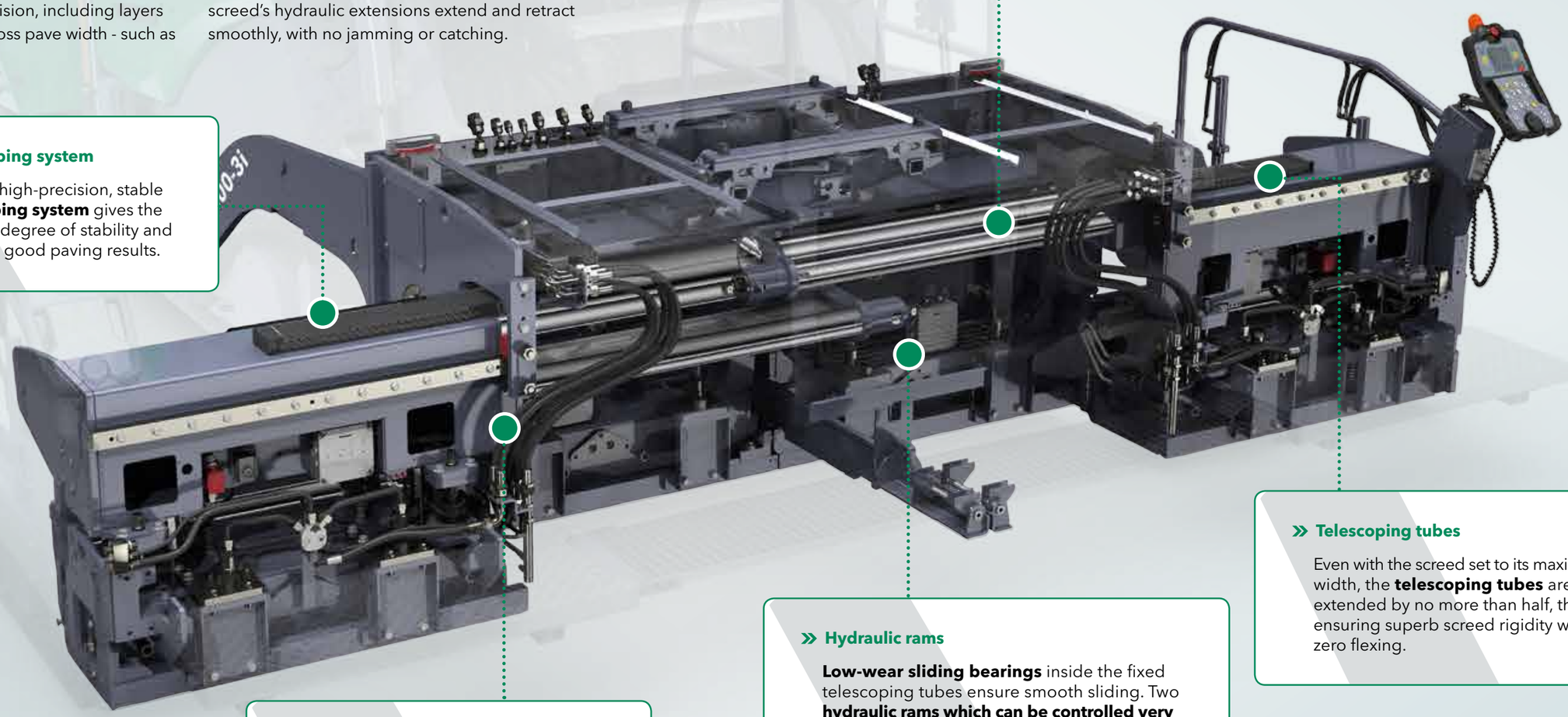
› **The compacting systems** within a VÖGELE high compaction screed are controlled and adjusted separately from one another.

› **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.



» 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.

» Fixed guide tube

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

» Torque restraint system

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

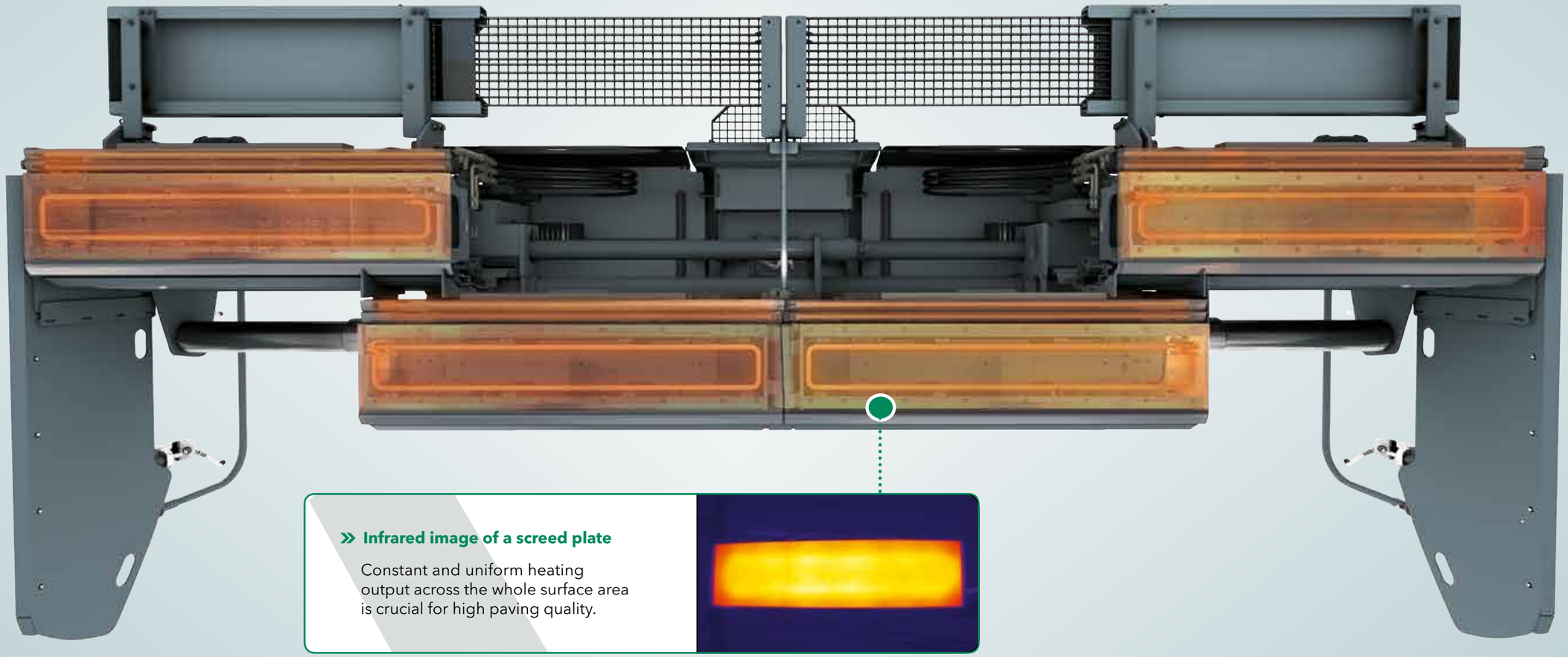
» Hydraulic rams

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.

» 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.

Electric screed heating



» Infrared image of a screed plate

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

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.

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:

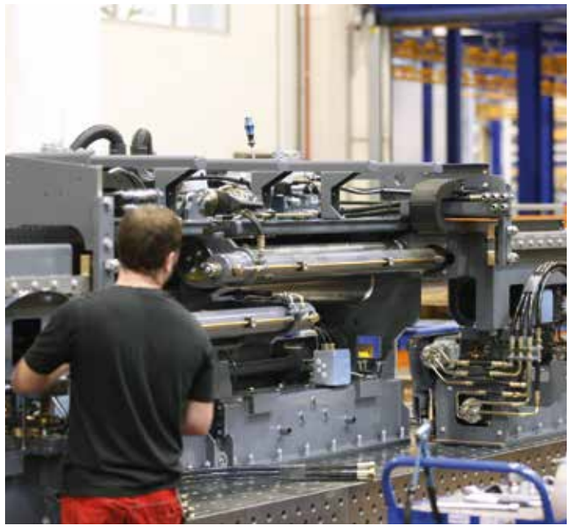
CNC machine welds threaded bolts to screed plates.

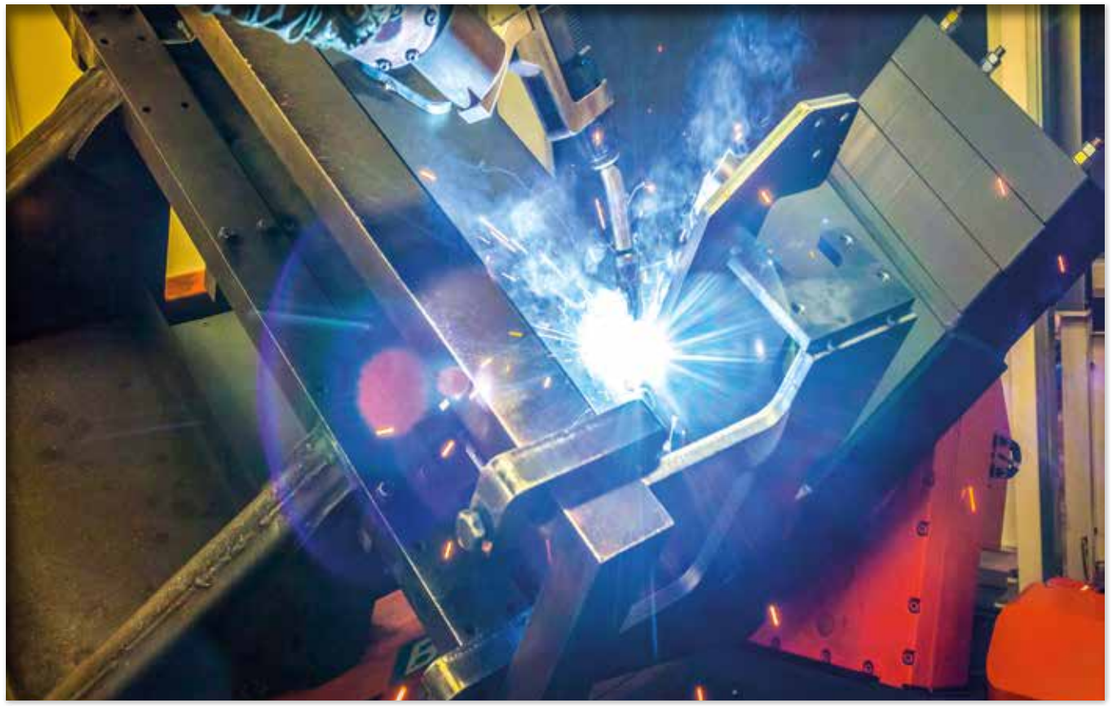
Induction hardening of tampers and pressure bars guarantees long service lives.

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

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.

LEFT:

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

RIGHT:

Every production step is subject to complex quality controls.

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

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VÖGELE

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