

# AB 500-2 and AB 600-2

## VÖGELE Extending Screeds



### AB 500-2 / AB 600-2

▶ **Maximum Pave Width**

- AB 500-2: 8.5m
- AB 600-2: 9.5m

▶ **Basic Width**

- AB 500-2: 2.55m
- AB 600-2: 3m

▶ **Screed Versions**

- TV, TP1, TP2



# VÖGELE AB 500-2 and AB 600-2 – The Highlights

**V**ÖGELE Extending Screeds are ideal for all those paving jobs that call for variability. Equipped with a single-tube telescoping system for pave width control, AB 500-2 and AB 600-2 cover a wide field of applications ranging from 2m up to a maximum of 9.5m. The screeds are available in versions for both standard compaction or high compaction. AB 500-2 and AB 600-2 are particularly suited to pavement construction for motorway, highways or rural roads or any kind of inner-city application.

## The Major Highlights at a Glance:

### ► Large Pave Widths, Compact Design

- An enclosed screed frame provides for high structural rigidity and stability allowing the screed to achieve excellent paving results even when working in large widths up to 9.5m (8.5m with AB 500-2).
- Easy and quick mounting of bolt-on extensions thanks to quick-fitting system.
- The screed's compact design offers an unobstructed view of the auger tunnel and makes it easy for the paver operator to get on the screed and onto his platform.

### ► Innovative Screed Heating System

- Optimal heat distribution all over the screed plate guarantees excellent surface finish right from the start.
- Effective insulation reduces loss of heat to a minimum. Only short time required to heat up the screed.
- Modern screed heating monitoring unit keeps the paving team currently informed about the operating status of each single heating rod. Immediate fault detection ensures impeccable screed heating at all times.

### ► Large Depth of Screed Plates Makes Paving Easier and Diminishes Wear

- Large depth of screed plates results in a small screed planing angle and optimizes floating of the screed.
- A small screed planing angle enhances the screed plates' wear properties (uniform wear) for long service lives.



# The Extending Screeds at a Glance

HIGHLIGHTS

## Wide Field of Applications

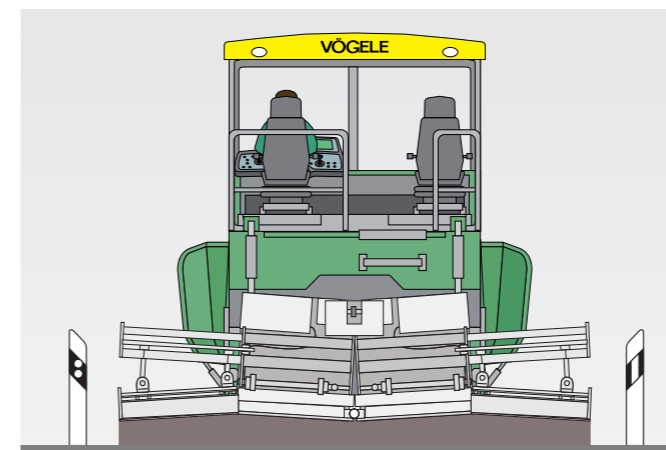
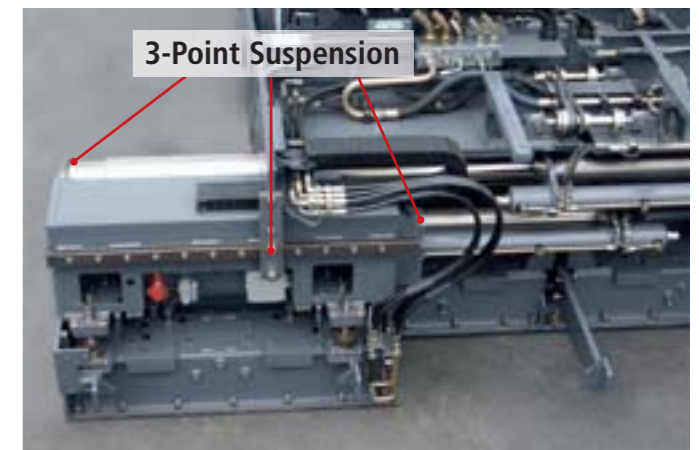
- ▶ Extending Screed AB 500-2:
  - Basic width 2.55m, extends hydraulically to 5m (infinitely variable).
  - Addition of bolt-on extensions increases screed width to a maximum of 8.5m.
- ▶ Extending Screed AB 600-2:
  - Basic width 3m, extends hydraulically to 6m (infinitely variable).
  - Addition of bolt-on extensions increases screed width to a maximum of 9.5m.
- ▶ Bolt-on extensions are available in widths of 0.25m, 0.75m and 1.25m.
- ▶ Bolt-on extensions can be easily and quick positioned in place and attached thanks to quick-fitting system.
- ▶ Large depth of screed plates results in optimized, highly stable floating of the screed.
- ▶ The screeds are available in versions TP1 and TP2 for high compaction.
- ▶ High compaction systems can be switched off, which allows the screed to be used for standard compaction (T) at any time.
- ▶ The pressure for pressure bars is infinitely variable, so that HPC technology can even be applied for paving wearing course.

## Sturdy Telescoping System, 3-Point Suspension

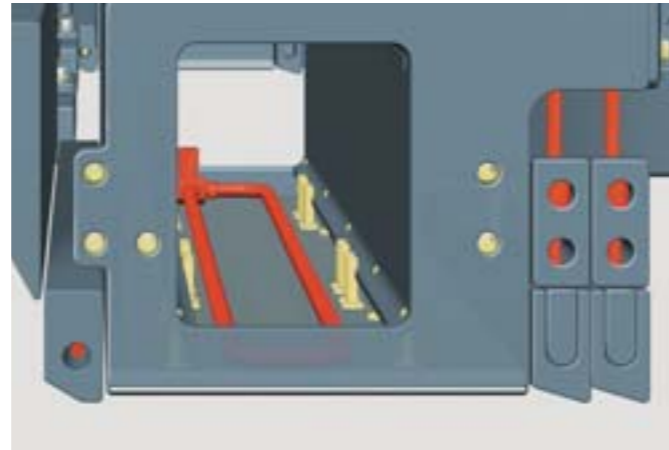
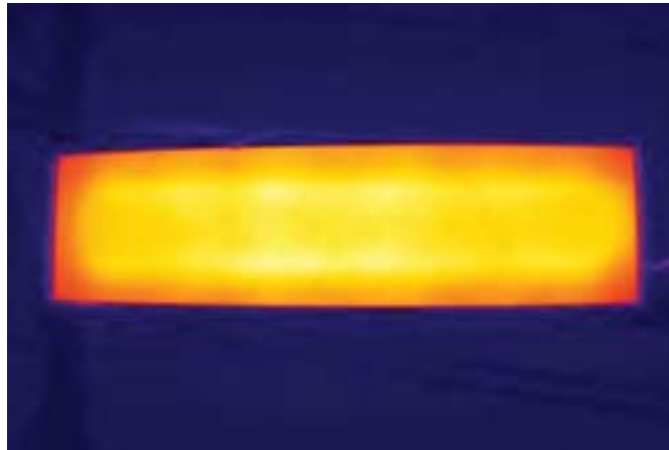
- ▶ Amply dimensioned, sturdy telescoping tubes of high precision provide for excellent stability of the screed, a condition of prime paving results.
- ▶ Low-wear teflon tape for smooth sliding prolongs the telescoping system's service life.
- ▶ Telescoping tubes are located in high positions so that any contact with hot mix is positively avoided.
- ▶ Even with the screed set up to its maximum width, the telescoping tubes are extended by no more than half, which guarantees zero flexing.
- ▶ Thanks to 3-point suspension of the screed's extending units, nothing can jam or get stuck.

## Pavement Profiles and Bevel Side Plates

- ▶ Screed paves positive crown up to +5% and negative crown up to -2.5%.
- ▶ Combining crown of the basic screed with height adjustment of the extending units allows to set up a large variety of transverse profile shapes through to positive or negative gull wing (M or W) profiles.
- ▶ Bevel side plates provide for perfect edges, vertical or sloped, along the sides of the roadway.
- ▶ Bevel side plates install quickly on the screed thanks to quick-fitting device.



# The Extending Screeds at a Glance



## VÖGELE Electric Screed Heating

- ▶ Modern screed heating system guarantees uniform distribution of the heat all over the screed plates. Heating the screed to operating temperature takes a short time only.
- ▶ Patented screed heating monitoring unit keeps the paving team currently informed about the operating status of each single heating rod.
- ▶ A three-phase generator supplies power to all compacting and smoothing screed elements for perfect heating across the full pave width, a feature indispensable for high pavement quality.
- ▶ Screed plates are perfectly insulated to prevent loss of heat to the upper environment, thus creating optimal conditions for short heating-up period even when engine running at minimum rpm.
- ▶ A Generator Management system activating screed heating in Alternating Mode cuts electric power required for heating while paving and reduces fuel consumption.

## Compact Design, Low Noise

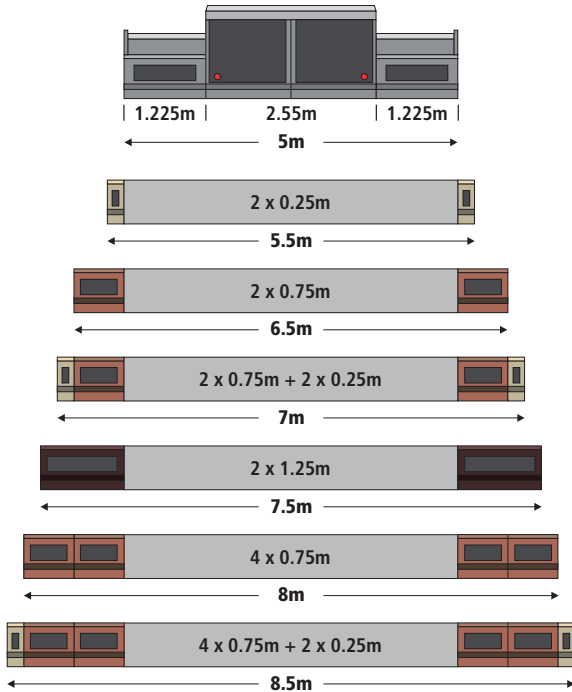
- ▶ The compact design offers to the paving team an excellent overview and unobstructed visibility of the auger tunnel.
- ▶ Low height of the screed makes it easy and convenient for the operator to get onto his platform.
- ▶ The two-piece footboard folds up with effortless ease to prepare the screed for trucking.
- ▶ Effective sound insulation reduces noise levels on site. Combined with low noise emission of the tractor unit, the screed is ideal for application even in noise sensitive environments.

## Very Easy: Service and Maintenance

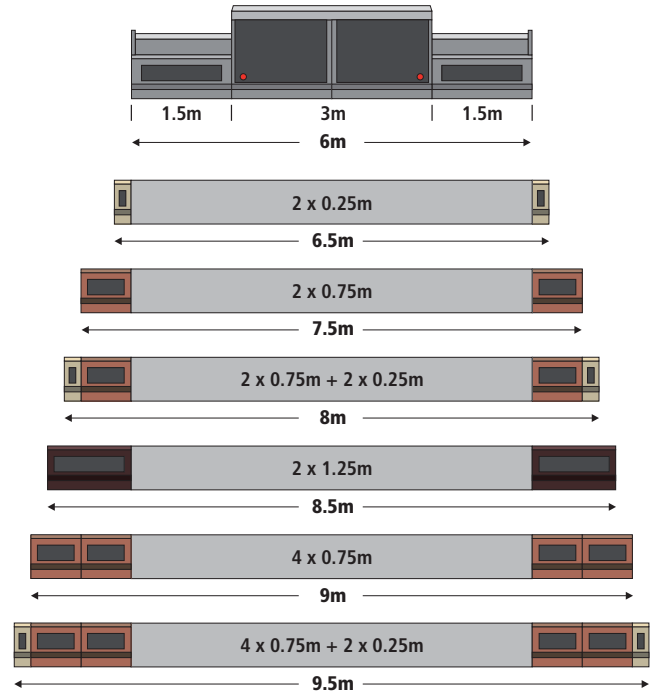
- ▶ All service points are conveniently accessible.
- ▶ Screed plates change easily and quickly as vibrator shafts are attached to the screed frame.
- ▶ Easy and quick replacement of heating rods on screed plates, in tamper bar and pressure bar(s).
- ▶ Greasing points for bearings of tamper and vibrators are clustered.
- ▶ Effective strike-off strip for tamper bar prevents asphalt from getting into the tamper area.
- ▶ Easy demounting and remounting of tamper shield for cleaning or servicing.

HIGHLIGHTS

## AB 500-2



## AB 600-2



### Specification AB 500-2

#### Screed Widths

|                            |  |
|----------------------------|--|
| Pave Widths:               | 2m to 8.5m (dependent on type of tractor unit) |
| Basic Width:               | 2.55m  |
| Infinitely Variable Range: | 2.55m to 5m                                    |

#### Dimensions and Weights (Basic Screed)

|          |  |
|----------|--|
| Width:   | 2.55m  |
| Depth:   | 1.24m (TV)<br>1.37m (TP1/TP2)                            |
| Weights: | 3.2 tonnes (TV)<br>3.45 tonnes (TP1)<br>3.8 tonnes (TP2) |

### Specification AB 600-2

#### Screed Widths

|                            |   |
|----------------------------|---|
| Pave Widths:               | 2.45m to 9.5m (dependent on type of tractor unit) |
| Basic Width:               | 3m  |
| Infinitely Variable Range: | 3m to 6m  |

#### Dimensions and Weights (Basic Screed)

|          |   |
|----------|---|
| Width:   | 3m  |
| Depth:   | 1.24m (TV)<br>1.37m (TP1/TP2)                             |
| Weights: | 3.65 tonnes (TV)<br>3.95 tonnes (TP1)<br>4.3 tonnes (TP2) |

### Common Specification for AB 500-2 and AB 600-2

#### Larger Widths

Set of Bolt-on Extensions: 25cm, 75cm, 125cm

#### Reduction in Width

Set of Cut-Off Shoes: 27.5cm

#### Crown Adjustment

Mechanical / Hydraulic (Option): -2.5% to +5% (dependent on type of tractor unit)  
M, W or parabolic profiles possible

#### Height Adjustment

#### of Extending Units

Mechanical by Spindles: -20mm to +25mm (TV)  
-20mm to +35mm (TP1/TP2)

#### Compacting Systems

Screed Versions: TV, TP1, TP2  
Tammer (T): tamper speed up to 1,800 rpm, infinitely variable

Vibrators (V): eccentric vibrators, frequency up to 50 Hz  
attached to screed frame

Pressure Bar(s) (P): driven by pulsed-flow hydraulics  
impulse recurrence frequency 68 Hz  
hydraulic oil pressure 50 to 120 bar  
infinitely variable

Screed Heating: screed plates, tamper bar and pressure bar(s)  
heated electrically by heating rods

#### Options

Sensors in the Screed: for display of tamper speed, vibrator speed  
and screed plate temperature  
Bevel Side Plates: vertical or bevelled edges  
for various layer thicknesses  
heating rods available

Key: T = equipped with Tamper  
V = equipped with Vibrators

P1 = equipped with 1 Pressure Bar  
P2 = equipped with 2 Pressure Bars

AB = Extending Screed

Technical alterations reserved.

© ErgoPlus, InLine Pave, NIVELTRONIC, NIVELTRONIC Plus, NAVITRONIC, NAVITRONIC Plus, RoadScan and V-TRONIC are registered Community Trademarks of JOSEPH VÖGELE AG, Mannheim, Germany. PCC is a registered German Trademark of JOSEPH VÖGELE AG, Mannheim, Germany. NIVELTRONIC Plus and NAVITRONIC Plus are trademarks registered in the US Patent and Trademark Office to JOSEPH VÖGELE AG, Mannheim, 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 of technical or design alterations.

**JOSEPH VÖGELE AG**  
Neckarauer Straße 168-228  
68146 Mannheim · Germany  
mail@voegele.info

Telephone: +49 (0)621 8105 0  
Fax: +49 (0)621 8105 461  
www.voegele.info



**VÖGELE**