

Technical information

# SUPER 1603-3(i)



## **Wheeled paver SUPER 1603-3(i)**

Universal Class

### **TECHNICAL HIGHLIGHTS**

- > Maximum pave width 7 m
- > Maximum laydown rate 600 t/h
- > Transport width 2.55 m
- > Engine output: 115/116 kW at 2,000 rpm

### SUPER 1603-3(i) - the compact wheeled paver

The SUPER 1603-3(i) is an all-rounder, and as a wheeled paver, has no trouble getting around. With its compact dimensions and Pivot Steer brake, the wheeled paver features excellent manoeuvrability, making it suitable for a wide variety of applications.

VÖGELE's ErgoPlus 3 operating concept makes paver operation easier and safer than ever before. The integrated Niveltronic Plus System for Automated Grade and Slope Control is easy to operate, accurate and reliable.



TECHNICAL DATA	SUPER 1603-3i	SUPER 1603-3
<b>Power unit</b>		
	for EU/EFTA countries/USA/Canada/Japan	for all other countries
<b>Engine</b>	liquid-cooled 6-cylinder diesel engine	
> Version	Cummins	
> Manufacturer	Cummins	
> Type	B4.5-C154	QSB4.5-C155
<b>Output</b>		
> Nominal	115 kW at 2,000 rpm	116 kW at 2,000 rpm
> ECO mode	109 kW at 1,700 rpm	106 kW at 1,700 rpm
<b>Emissions information</b>		
> Exhaust emissions standards	EU Stage V, US EPA Tier 4f	EU Stage 3a, US EPA Tier 3
> Exhaust gas after-treatment	DOC, DPF, SCR	
> Guaranteed sound power level	L <sub>WA</sub> = 107 dB(A) (2000/14/EG, EN ISO 3744; EN 500-6)	
> Sound pressure level at the operator's stations	L <sub>PA</sub> ≤ 85 dB(A) (EN ISO 11201; EN 500-6)	
<b>Fuel tank</b>	215 litres	
<b>Undercarriage</b>		
<b>Front wheels</b>	4, mounted on bogies (oscillating axle)	
> Tyre equipment	elastic solid rubber tyres	
> Tyre size	540/300 - 390 mm	
<b>Rear wheels</b>	2, pneumatic tyres, tubeless	
> Tyre size	14.00 R 25	
<b>Drive</b>		
> Version	separate hydraulic drive provided for each wheel	
> Standard	2 rear wheels (6x2)	
> Option	2 rear wheels and 2 front wheels (6x4), 2 rear wheels and 4 front wheels (6x6)	
<b>Speeds</b>		
> Paving	up to 18 m/min., infinitely variable	
> Travel	up to 20 km/h, infinitely variable	
<b>Outside turning circle</b>		
> Version	minimum 3.5 m (with Pivot Steer)	
<b>Material hopper</b>		
<b>Hopper capacity</b>	13 t	
<b>Width</b>	3,265 mm	
<b>Feed height</b>	590 mm (centre of material hopper)	
<b>Push-rollers</b>		
> Standard	oscillating	
> Position	can be displaced forwards by 75 mm or 150 mm	

## Conveyors and augers

### Conveyors

> Version	2, with replaceable feeder bars, conveyor movement reversible for a short time
> Drive	separate hydraulic drive provided for each conveyor
> Speed	up to 34 m/min., infinitely variable (manual or automatic)

### Augers

> Version	2, with replaceable auger blades, auger rotation reversible
> Diameter	400 mm
> Drive	separate hydraulic drive provided for each auger
> Speed	up to 84 rpm, infinitely variable (manual or automatic)
> Height	infinitely variable by 15 cm, hydraulic, lowest position 10 cm above the ground

### Lubrication

automatic centralized lubrication system with electrically driven grease pump

### Screed

#### AB 500

Basic width 2.55 to 5 m

Maximum width 6.5 m | 7 m\*

Compacting system TV

Layer thickness up to 30 cm

### Screed heating

> Version electric by heating rods

> Power supply three-phase AC generator

## Dimensions (transport) and weight

### Length

> Version tractor unit with screed

> AB 500 TV 6.04 m

### Weight

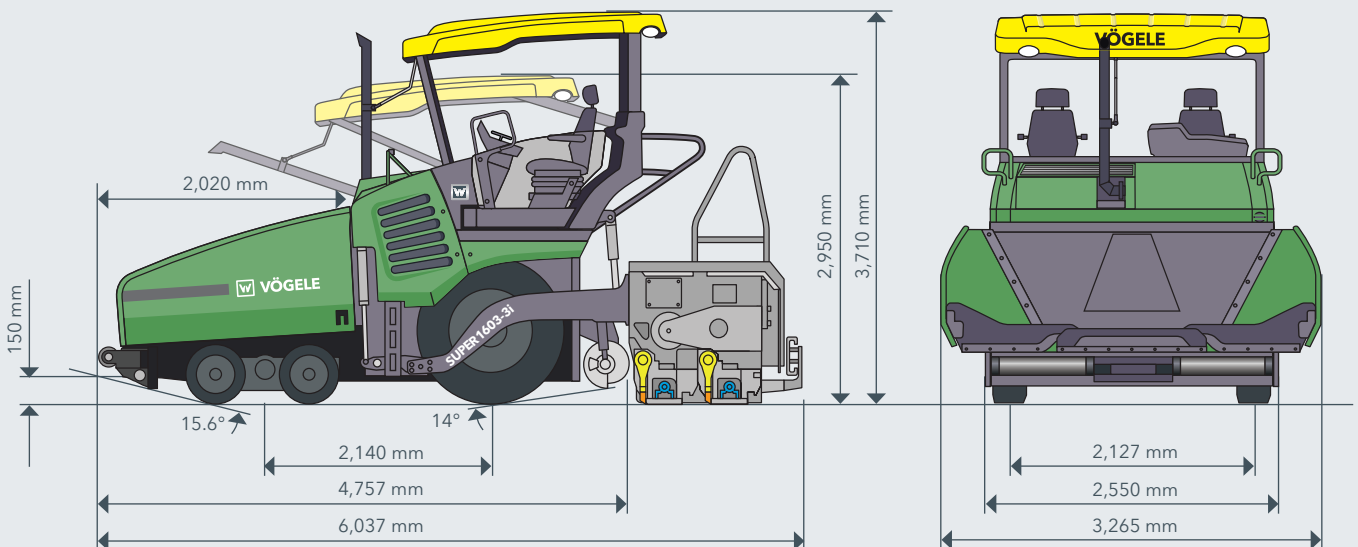
> Version tractor unit with screed

> AB 500 TV pave widths up to 5 m: 17,900 kg / pave widths up to 6.5 m: 19,150 kg

Key: DOC = Diesel Oxidation Catalyst, DPF = Diesel Particulate Filter, SCR = Selective Catalytic Reduction, AB = Extending Screed, TV = with tamper and vibrators

\* The 7 m pave width requires extra equipment and is available on request.

## SIDE AND FRONT VIEW



### THE HIGHLIGHTS OF THE SUPER 1603-3(i)

- > Powerful and economical drive concept, even when operating at full load and in any climate zone
- > The VÖGELE EcoPlus low-emissions package significantly reduces fuel consumption and noise levels
- > The Pivot Steer steering brake reduces the outside turning circle to 3.5 m
- > Large material hopper with a capacity of 13 tonnes ensures optimum feeding with mix
- > PaveDock Assistant facilitates communication during transfer of mix
- > ErgoPlus 3 operating system with numerous convenient and automatic functions
- > AutoSet Plus functions for quick and safe repositioning on the job site and for storing individual paving programs
- > Niveltronic Plus fully integrated System for Automated Grade and Slope Control
- > Wide range of sensors for flexible use in all applications
- > Wide range of applications at pave widths up to 7 m\*
- > Can be combined with the AB 500 Extending Screed

FEATURES	SUPER 1603-3i	SUPER 1603-3
> Simple, ergonomic ErgoPlus 3 operating concept	■	■
> Windscreen with windscreen wipers	□	□
> 2 comfortable operator's seats	■	■
> 2 ergonomic heated operator's seats	□	□
> LED light balloon for use at night	□	□
> Powerful, oil-cooled generator	■	■
> VÖGELE EcoPlus low-emissions package	■	□
> PaveDock Assistant communication system	□	□
> Hydraulic hopper front	□	□
> Large 13-tonne capacity material hopper	■	■
> Sonic sensor to control augers	□	□
> Niveltronic Plus System for Automated Grade and Slope Control	□	□
> Ventilation system	□	□
> AutoSet Plus	□	□
> Pivot Steer steering brake	□	□
> WITOS FleetView telematics system	■	■
> WITOS Paving Plus process management solution	□	□
> WITOS Paving Docu paver and paving data recording system	□	□
> VÖGELE RoadScan comprehensive asphalt temperature measuring system	□	□

This list is just an extract of the scope of supply.  
Standard features and options may differ by sales region.

\* The 7 m pave width requires extra equipment and is available on request.

■ Standard feature    □ Option

#### JOSEPH VÖGELE AG

Joseph-Vögele-Str. 1  
67075 Ludwigshafen  
Germany

T: +49 621 8105-0  
F: +49 621 8105-461  
M: marketing@voegele.info

➤ [www.voegele.info](http://www.voegele.info)

