

**Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List**

mdtacet@mt.gov

Make:	Vogele
Model:	SUPER 1700-3i with empty hopper
Equipment Type:	paver
Contractor Modifications:	none

Interstate Approval Conditions

<i>Approval Type</i>	crossing only
<i>Speed:</i>	no restriction
<i>Weight:</i>	40,345 lb or less
<i>Traffic:</i>	approved with regular traffic
<i>Location Restrictions:</i>	no restriction

Non-Interstate Approval Conditions

<i>Approval Type</i>	crossing only
<i>Speed:</i>	no restriction
<i>Weight:</i>	40,345 lb or less
<i>Traffic:</i>	approved with regular traffic
<i>Location Restrictions:</i>	no restriction

Comments:

Equipment configuration, weights, and specifications on following pages. Approval does not apply to load posted bridges. Other construction equipment is not allowed to operate on or cross bridge at the same time this equipment is on the bridge.

Technical information

SUPER 1700-3i



Tracked paver SUPER 1700-3i

Universal Class

TECHNICAL HIGHLIGHTS

- > Maximum paving width 19 ft. 6 in. (5.95 m)
- > Maximum laydown rate 770 tons/h (700 tonnes/h)
- > Transport width 8 ft. 6 in. (2.59 m)
- > Engine output: 173 hp (129 kW) at 2,000 rpm

SUPER 1700-3i - the versatile asphalt paver

The VÖGELE SUPER 1700-3i is a cutting-edge paver in the 8-foot class. Conceived especially for the North American and Australian markets, the tracked machine handles a wide variety of paving jobs. Thanks to its compact design, the SUPER 1700-3i is the ideal partner for inner-city applications.

The innovative and easy-to-learn ErgoPlus 3 operating system is every machine operator's dream, providing ergonomic working conditions tailored to real-life use. The screed operating consoles have been completely redesigned, making operation of this new "Dash 3" machine even easier for the entire paving crew.



TECHNICAL DATA

Power unit

Engine

> Version	4-cylinder diesel engine, liquid-cooled
> Manufacturer	Cummins
> Type	QSB4.5 - C173

Output

> Nominal	173 hp (129 kW) at 2,000 rpm (according to DIN)
> ECO mode	160 hp (119 kW) at 1,700 rpm

Emissions information

> Exhaust emissions standards	EU Stage 4, US EPA Tier 4f
> Exhaust gas after-treatment	DOC, SCR

Fuel tank

58 gallons (220 liters)

Undercarriage

Crawler tracks

> Version	continuous rubber band
> Ground contact	8 ft. 6 in. x 1 ft. 2 in. (2,594 mm x 355 mm)
> Track tension adjuster	lifetime grease lubricated
> Lubrication of track rollers	lifetime

Traction drive

separate hydraulic drive and electronic control provided for each crawler track

Speeds

> Paving	up to 250 fpm (76 m/min.), infinitely variable
> Travel	up to 7.5 mph (12 km/h), infinitely variable

Material hopper

Hopper capacity 14.3 tons (13 tonnes), including conveyor tunnel

Width 10 ft. 9 in. (3,265 mm)

Feed height 24 in. (615 mm)

Push-rollers

> Standard	oscillating
> Position	can be displaced forwards by 3 in. (75 mm) or 6 in. (150 mm)
> Option	truck hitch

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 130 fpm (40 m/min.), infinitely variable (manual or automatic)

Augers

- > Version 2, with exchangeable auger blades, auger rotation reversible
- > Diameter 16 in. (400 mm)
- > Drive separate hydraulic drive provided for each auger
- > Speed up to 120 rpm, infinitely variable (manual or automatic)
- > Height infinitely variable by 6 in. (15 cm), hydraulic
- Lubrication automatic centralized lubrication system with electrically driven grease pump

Screed**VF 500**

- Basic width 8 ft. to 15 ft. 6 in. (2.45 m to 4.75 m)
- Maximum width 19 ft. 6 in. (5.95 m)
- Compacting systems V
- Layer thickness up to 12 in. (30 cm)
- Screed heating
- > Version electric by heating rods
- > Power supply three-phase AC generator

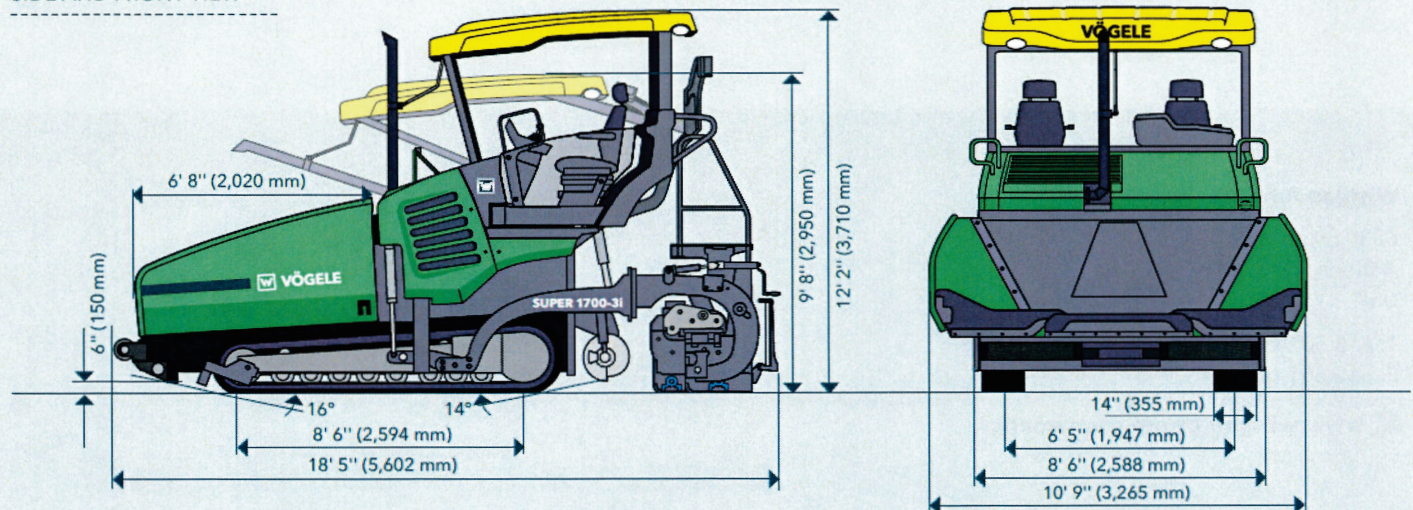
Dimensions (transport) and weights**Length**

- > Version tractor unit and screed
- > VF 500 V 18 ft. 5 in. (5.6 m)

Weights

- > Version tractor, hardtop and screed
- > VF 500 V 40,345 lbs. (18,300 kg)

Key: DOC = Diesel Oxidation Catalyst, SCR = Selective Catalytic Reduction, VF = Screed with Front-Mounted Extensions, V = with vibration

SIDE AND FRONT VIEW

THE HIGHLIGHTS OF THE SUPER 1700-3i

- > Tracked Universal Class paver with a large range of applications and pave widths up to 19 ft. 6 in. (5.95 m)
- > Powerful engine complying with US EPA standard Tier 4f
- > The VÖGELE EcoPlus low-emissions package significantly reduces fuel consumption and noise levels
- > Optimum feeding with mix thanks to the large material hopper holding 14.3 tons (13 tonnes)
- > ErgoPlus 3 with a number of additional ergonomic and functional advantages
- > Fully-integrated Niveltronic Plus, the System for Automatic Grade and Slope Control
- > High paving speeds up to 250 fpm (76 m/min)

FEATURES

> Large receiving hopper holding 14.3 tons (13 tonnes)	■
> Hydraulic hopper front	■
> Truck hitch	□
> Simple, ergonomic ErgoPlus 3 operating concept	■
> Working lights, LED	■
> Powerful oil-cooled generator	■
> VÖGELE EcoPlus low-emissions package	■
> LED light balloon for use at night	□
> NEMA power outlet, 120 V	□
> Sonic sensor to control augers	■
> Power Tunnel - hydraulically adjusted limiting plates for auger tunnel	■
> Niveltronic Plus System for Automated Grade and Slope Control	■
> Various sensor types are available for the Niveltronic Plus	□
> VÖGELE RoadScan comprehensive asphalt temperature measuring system	□
> WITOS Paving FleetView Telematics System	■
> Ventilation System	■

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

■ Standard feature □ Option

Wirtgen America, Inc.

6030 Dana Way
Antioch, TN 37013
USA

T: 615 501-0600
F: 615 501-0691

> www.wirtgen-group.com/america

