MONTANA Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

mdtacel@mt.gov

Make: Vogele

Model: SUPER 1700-3i with empty hopper

Equipment Type: paver

Contractor Modifications: none

Interstate Approval Conditions

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

Non-Interstate Approval Conditions

Approval Type	**crossing only**
Speed:	**no restriction**
Weight:	**40,345 lb or less**
Traffic:	**approved with regular traffic**
Location Restrictions:	**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.

A WIRTGEN GROUP COMPANY

VÖGELE

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.

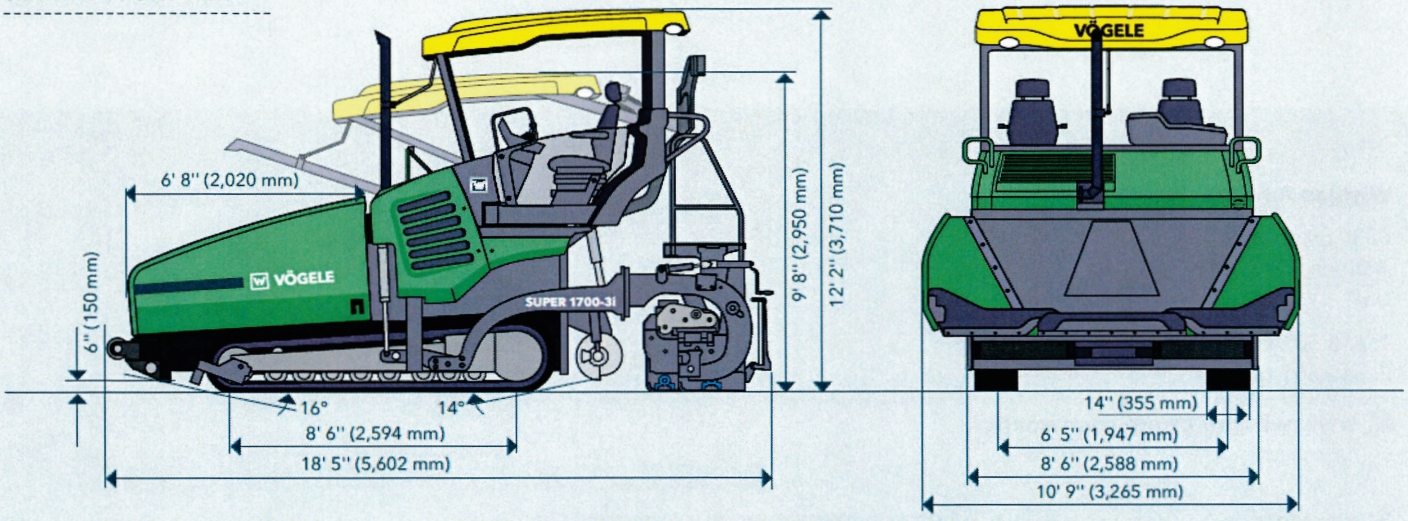


TECHNICAL DATA	
Power unit	
Engine	
> Version	4-cylinder diesel engine, liquid-cooled
> Manufacturer	Cummins
> Type	QSB4.5 - C173
Output	
> Nominal	173 hp (129 kW) at 2,000 rpm (according to DIN)
> ECO mode	160 hp (119 kW) at 1,700 rpm
Emissions information	
> Exhaust emissions standards	EU Stage 4, 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

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