

PowerFeeder

# MT 3000-2i

Special Class



Material Feeder:

Maximum Conveying Capacity 1,200 tonnes/h

Large Receiving Hopper Holding 16.4 tonnes

ErgoPlus Operating System

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

# Highlights

» Uninterrupted and non-contacting supply of mix to pavers ensures maximum paving quality

» High-performance feeder concept in combination with the large receiving hopper holding 16.4 tonnes allows even large mix lorries to be emptied in just 60 seconds

» Anti-collision protection and reliable distance control

» ErgoPlus operating concept offers an excellent all-round view and allows easy and safe operation

» High conveying capacity up to 1,200 tonnes/h





## MT 3000-2i for Non-Stop Quality



Numerous factors have to be taken into consideration to ensure that a high level of paving quality is achieved in road construction. There can be no doubt that an uninterrupted and non-contacting supply of mix to the paver is crucial to preventing any stops in the paving

process. A material feeder is thus vital to the economical achievement of high-quality results, especially on large-scale job sites. The cutting-edge MT 3000-2i can do a great deal more than previous material feeders.

The machine comes with a receiving hopper holding 16.4t of mix and a high-performance feeder concept allowing mix lorries (25t) to be emptied in just 60 seconds. The ErgoPlus operating system offers an excellent all-round view and provides for easy and safe machine operation. Just as users

have come to expect from VÖGELE pavers. This is also the reason why the MT 3000-2i can be easily operated by just one person.



# Rapid Transfer of Mix Enhances Process Safety



In large-scale road construction projects such as motorway construction or rehabilitation, non-stop supply of the paver with mix and continuous paving are crucial. For only then can daily laydown rates of 4,000t and more be achieved. If the interval for changing the lorries that supply the feeder with mix is too long, a bottleneck ensues, reducing the actually achievable laydown rate and impeding job-site logistics. This is why VÖGELE have designed the new PowerFeeder Series for maximum performance.

Thanks to the concept of the PowerFeeder MT 3000-2i, it is possible to empty even large mix lorries in one go. The process of emptying a lorry containing 25t of mix unfolds in a breathtaking 60 seconds.

The VÖGELE PowerFeeder thus speeds up job-site logistics considerably, as the lorry drivers have more time for the process-critical manoeuvring.

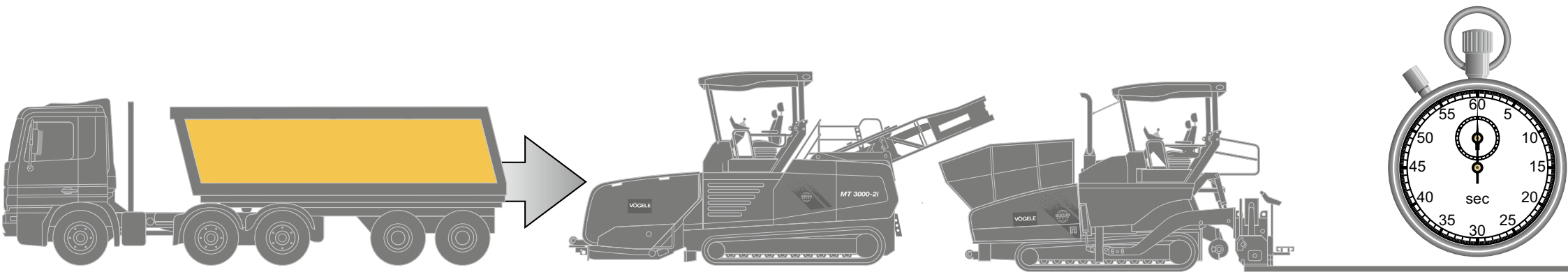
**Total mix storage capacity up to 40 tonnes**  
If the total mix storage capacity in the complete system is taken into account, including the paver's conveyors and the auger tunnel, then the VÖGELE system reaches a total storage capacity up to 40 tonnes of mix.

When developing the PowerFeeder generation, a special focus was placed on high-performance and precise handling of a wide variety of mixes. Other materials can thus also be conveyed in addition to asphalt, such as topsoil, gravel, water-bound base course mixes or recycled materials.

## Conveying Capacity

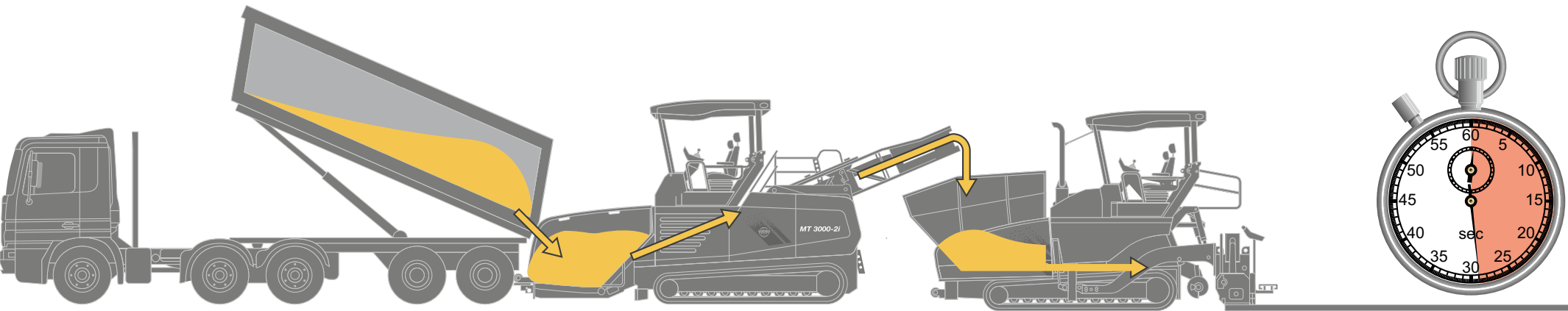
### 0 SECONDS

The mix lorry manoeuvres up to the feeder.



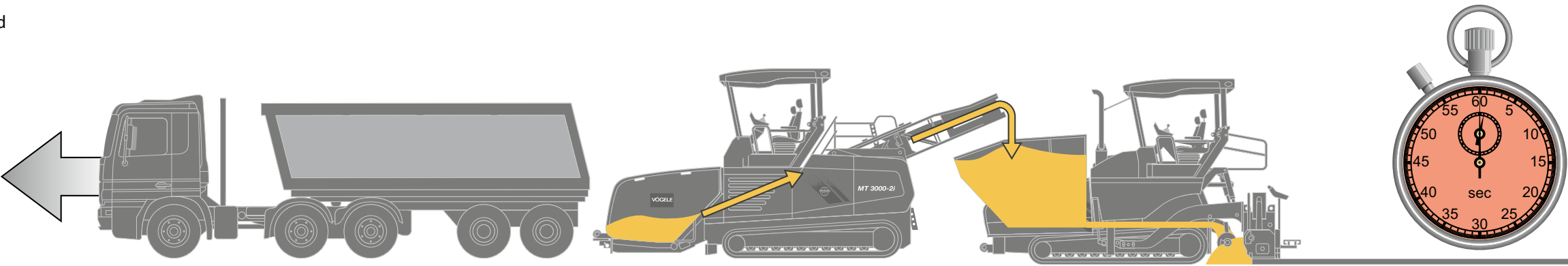
### 30 SECONDS

Thanks to the high-performance feeder concept, more than half of the 25t has already been unloaded.



### 60 SECONDS

The feeding process is complete. The mix has been dumped into the material feeder's receiving hopper and the extra hopper of the paver.





» **Large receiving hopper** holding 16.4 tonnes.

» **Proportionally controlled worm conveyors** with large worm blades (400mm) for homogeneous conveyance of mix, without residues.

» **1.1m wide conveyor** capable of transferring up to 1,200 tonnes of mix per hour.

» **The belt of the conveyor** is extremely robust and long-lasting as it is an industrially manufactured endless belt.

» **The trough shape (30°)** of the conveyor belt centres the material during conveyance and provides for a clean flow of mix during transfer, without spills.

» **Guidance of the conveyor belt** via tensioning cylinders guarantees a correctly centred alignment of the belt. A smart automatic system adjusts the belt tension as required.

» **For impeccable material management**, a special diesel heating system provides for a good belt temperature to prevent mix from sticking to the conveyor belt.

» **Automatic distance control** supports the operator. Sturdy sensor technology controls the distance from the paver to the material feeder and maintains the two machines at an ideal distance. This way, the feeder operator can fully focus his attention on the material transfer.

» **An anti-collision system** provides for additional safety. In the event of danger, the feeder following behind the paver is stopped and a potential collision prevented.



# VÖGELE ErgoPlus

## The User-Friendly Operating System

Even the best machine with the most advanced technology can only really show its strengths if it can be operated easily and as intuitively as possible, and offers the operator a maximum of ergonomic comfort and workplace safety. Therefore, the ErgoPlus operating concept focuses on the operator.

On the following pages you will find detailed information on the extensive functions of the ErgoPlus operating concept. ErgoPlus encompasses the feeder operator's stand and his operating console.

The operating console is designed for optimum clarity, presenting all feeder functions in logical groups. There's a place for everything and everything in its place on the operator's stand, and the operator has an excellent overview of all the key points of the feeder.

All told, the ErgoPlus operating concept enables the operator to respond to job site working processes and situations more quickly and accurately, giving him total control over the machine and the project.

## The Strong Points of ErgoPlus

- » **Operator platform** of streamlined design and well organized for a high level of safety at work.
- » **The feeder operator's seats** and the operating console are adjusted conveniently and easily to meet his personal needs. This provides a maximum of ergonomic comfort.
- » **All vital feeder functions** are clustered in logical groups on the feeder operator's console. Their operation is quick and easy to learn.
- » **The ErgoPlus** feeder operator's console is of modular design. This smart concept is not only ideal in practice, but also saves costs. It offers the great advantage that single modules can be replaced if necessary without needing to replace the entire unit.



Operator's ErgoPlus Console



ErgoPlus Operating Comfort



ErgoPlus Operator's Stand



## The Operator's **ErgoPlus** Console

*Full Control  
for the Machine Operator*





# The Operator’s ErgoPlus Console

Clear and Logical Arrangement of Controls

The feeder operator’s ErgoPlus console has been designed according to practice-related principles. All controls are clearly arranged. Feeder functions are clustered in logical groups so that operators find their controls just where they would expect them to be.

On the ErgoPlus console, all push-buttons are easily identifiable by touch even when wearing work gloves.

Once a button is pressed, off you go. This is due to the “Touch and Work” principle. This means that a function is executed directly – without a need to confirm.

As darkness falls, the feeder operator’s console is back-lit automatically, as in a car. This makes night-time work easy and relaxed.

## Examples of Feeder Functions

**Automatic Distance Control (Option)**

Automatic distance control adapts the material feeder’s speed automatically to the paver’s speed. As a result, a constant distance between the paver and the feeder is maintained at all times. The feeder operator can concentrate exclusively on the transfer of material.

**Choice of Operating Modes**

On the ErgoPlus console, 4 different operating modes for the feeder are available to select from. By pressing the arrow buttons, up or down, the operator changes modes in the following order: “Neutral”, “Job Site Mode”, “Positioning Mode” and “Pave Mode”. An LED indicates the mode selected.

**Automatic Conveyance of Mix**

When pushing the main conveyor switch, all conveying systems are activated in automatic mode. The speeds of worm conveyors and conveyor belt are optimally matched to one another. A sonic sensor monitors the quantity of material conveyed and automatically adapts the feed rate as required.



MODULE 1  
Traction

MODULE 2  
Material Conveyance

MODULE 3  
Receiving Hopper and Steering

MODULE 4  
Display for set-up of vital feeder functions on menu level 1.  
Secondary functions on menu level 2.

**Display of the Feeder Operator’s Console**

The large, easy-to-read display panel shows vital information on menu level 1 such as the current operating speed and the level of mix in the paver’s material hopper. Further parameters such as the feed rate and the distance from the paver can be easily set on the display panel. And the display gives access to machine-related information such as fuel consumption or service hours.

**Potentiometer for Steering**

For long curves with a constant radius, the desired track position can be pre-selected through the potentiometer for steering. As long as this function is not deactivated, the feeder automatically follows the curve without a need for operator intervention.

**Choice of Engine Speed Ranges**

For the engine, there is a choice of 3 modes to select from: MIN, ECO and MAX. To switch modes for engine rpm, all the operator needs to do is press the arrow buttons, up or down. In ECO Mode, the engine delivers sufficient power for a great number of applications. Operating in ECO Mode reduces noise emission and fuel consumption considerably.



# The ErgoPlus Operator's Stand



## Excellent All-Round Visibility

» The comfortable operator's stand gives an unobstructed view of all crucial areas on the feeder such as receiving hopper, steering guide or dumping point into the paver's material hopper. This way, the material feeder can easily be operated by one person.

» The arrangement of the pivot-mounted seats provides for maximum all-round operator visibility. It allows the operator to conveniently monitor the mix supply from the feed lorries on the one hand and the dumping of mix into the paver's material hopper on the other.



## Working Comfort

» A few adjustments are all it takes for the feeder operator to position his console exactly to meet his personal needs. It can be displaced across the full width of the operator's stand, swivelled out to the sides and tilted.

» When working with the seat swung out, the feeder operator's console can be swivelled out together with the seat. In this way, an ergonomically optimized workplace is set up in no time at all.



## A Place for Everything and Everything in its Place

» The operator's stand, with its streamlined design, is well organized, offering the feeder operator a professional workplace.

» The operator's console can be protected by a shatter-proof cover to prevent wilful damage.

» Plenty of stowage space makes it easy to keep the machine tidy. Access to all vital service points on the machine has been designed to be extremely clear and ergonomic.

## Hardtop Gives Excellent Protection

» The modern hardtop made of glass fibre reinforced polymer material shelters the operator whether rain or shine. The hardtop is raised or lowered quickly and with effortless ease by a manually operated hydraulic pump. Wide, easily extendable sunshades give the operator optimal protection when his seat is moved out.



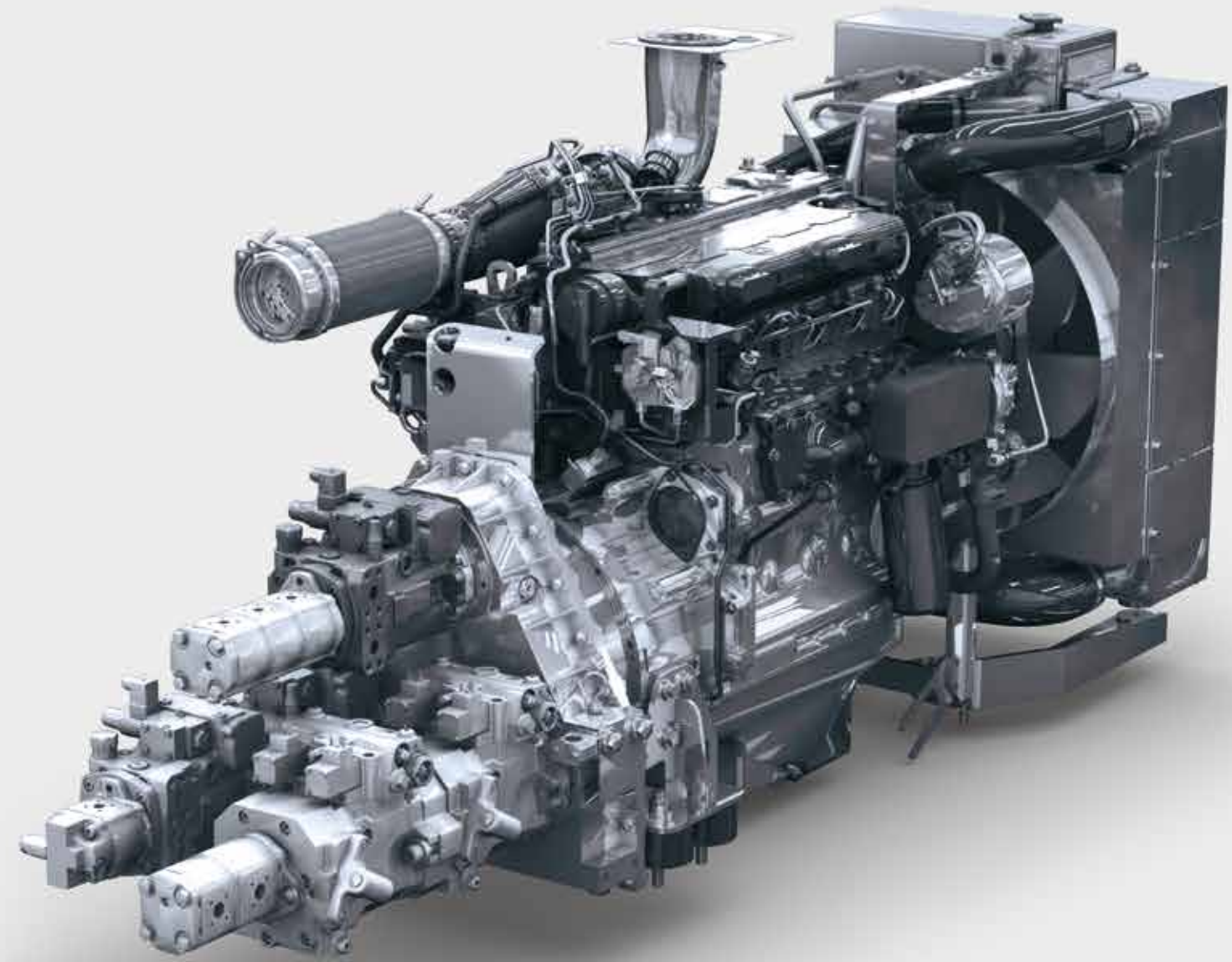


## Cutting-Edge Machine Technology



The MT 3000-2i is driven by a powerful Deutz diesel engine rated at 160kW. The „i“ stands for „Intelligent Emission Control“ and is found in the type names of all machines from the WIRTGEN GROUP equipped with the latest engine technology.

These engines comply with the stringent European exhaust emissions standards 3b and the US standard EPA Tier 4i, valid for this engine class in the countries of the European Union, the USA, Canada and Japan since 2011.



» The latest „i“ engine for Europe, USA, Canada and Japan rated at 160kW complies with the stringent European exhaust emissions standard 3b and the US standard EPA Tier 4i.

» ECO Mode (1,800 rpm) cuts operating costs and allows particularly quiet operation.

» Large fuel tank holds 450 litres for more than a day's work without a need for refuelling.

» Long crawler tracks with high tractive effort allow operating speeds up to 25m/min. during material transfer.



## Precision on Tracks



The long crawler tracks of the MT 3000-2i provide for maximum traction on any base. As a result, the feeder has no problem pushing large feed vehicles.

» Thanks to powerful separate drives fitted into the sprockets for crawler tracks, engine output is translated into operating speed with no loss of power so that any feed vehicle can be pushed with ease.

» Long crawler tracks with large footprints provide for maximum tractive effort, allowing the material feeder to progress well at a constant speed even when operating on difficult terrain.

» Positive tracking when moving straight and accurate cornering due to separate drive and electronic control provided for each crawler track.

## Easy Servicing



The VÖGELE PowerFeeder MT 3000-2i stands out through cutting-edge technology, reliability and service-friendliness at the highest level. It is the ideal partner of every road building contractor.

» Large panels give convenient access to all service points.

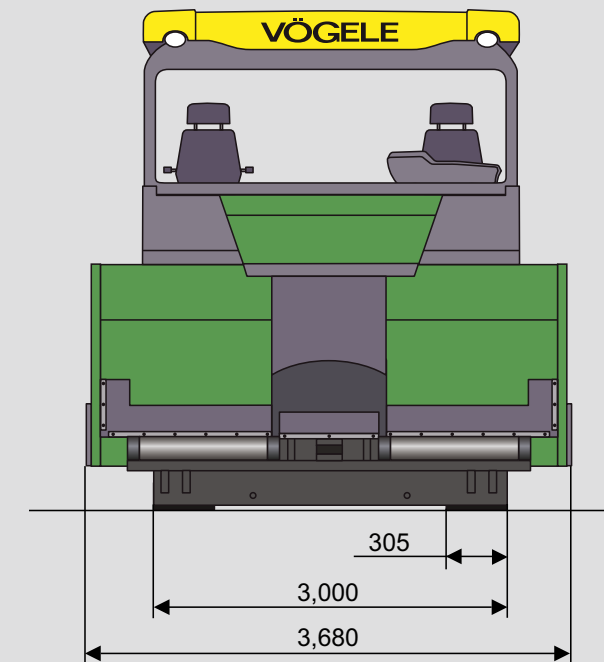
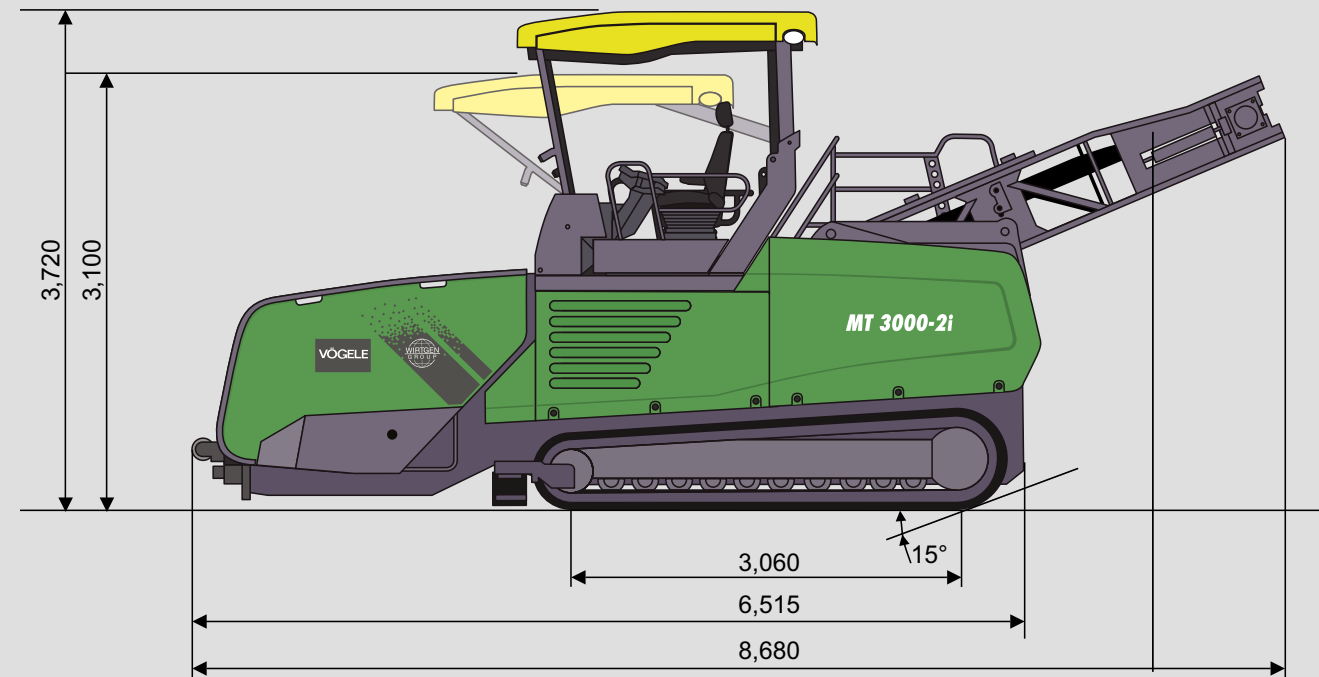
» All hydraulic pumps are located on the splitter gearbox and provide maximum service-friendliness thanks to their clear arrangement and easy accessibility.

» Service indicators and easily accessible measuring ports facilitate diagnosis and service.





## All the Facts at a Glance



Dimensions in mm



## POWER UNIT

MT 3000-2i (for Europe / USA / Canada / Japan)	
Engine:	6-cylinder Deutz diesel engine, liquid-cooled
Type:	TCD 6.1 L6
Exhaust Emissions	
Standard:	EU Stage 3b, US EPA Tier 4i
Output:	Nominal: 160kW at 2,000 rpm (according to DIN) ECO Mode: 150kW at 1,800 rpm
Fuel Tank:	450 litres
Electrical System:	24V

## UNDERCARRIAGE

Crawler Tracks:	provided with rubber pads
Ground Contact:	3,060mm x 305mm
Traction Drive:	separate hydraulic drive and electronic control provided for each crawler track
Speeds:	Operating: up to 25m/min., infinitely variable Travel: up to 4.5km/h, infinitely variable
Steering:	by alteration of track running speeds
Brake:	multiple-disk brake locked on automatically without oil pressure

## MIX CONVEYING SYSTEMS

Worm Conveyors:	2, driven hydraulically, installed in the receiving hopper
	Speed: infinitely variable
	Diameter: 400mm
Belt Conveyor:	1, driven hydraulically
	Belt Width: 1,100mm
Conveying Capacity:	1,200 tonnes/h*

## RECEIVING HOPPER

Holding Capacity:	16.4 tonnes
Width:	3,680mm (hopper sides folded out)
Feed Height:	600mm (bottom of receiving hopper)
Push-Rollers:	oscillating

## EXTRA HOPPER

Holding Capacity:	20 - 24 tonnes (to be placed into the material hopper of the paver)
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### DIMENSIONS (TRANSPORT) AND WEIGHT

Length:	8,950mm
Width:	3,000mm
Height:	3,100mm
Weight:	19.2t

## OPTIONAL EQUIPMENT

Xenon lamps for working lights.
Hardtop of glass fibre reinforced polymer material.
Mechanical distance control.
230V electrical package.

For more optional extras please contact your VÖGELE partner.

\*dependent on type of mix

Technical alterations reserved.





Your VÖGELE QR Code  
which leads you directly  
to the "MT 3000-2i" on  
our website.



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