



# Benefits of BAS Mining Trucks 8x4 widespread

# Benefits of BAS Mining Trucks 8x4 with widespread axles

What are the benefits of the new BAS Mining Trucks 8x4WS (widespread)?  
To find out, this truck has been evaluated on the following features:

- Maximum Payload
- Dump Body
- Roll Stability
- Powertrain

[DOWNLOAD specs sheet BAS 8x4WS mining truck](#)



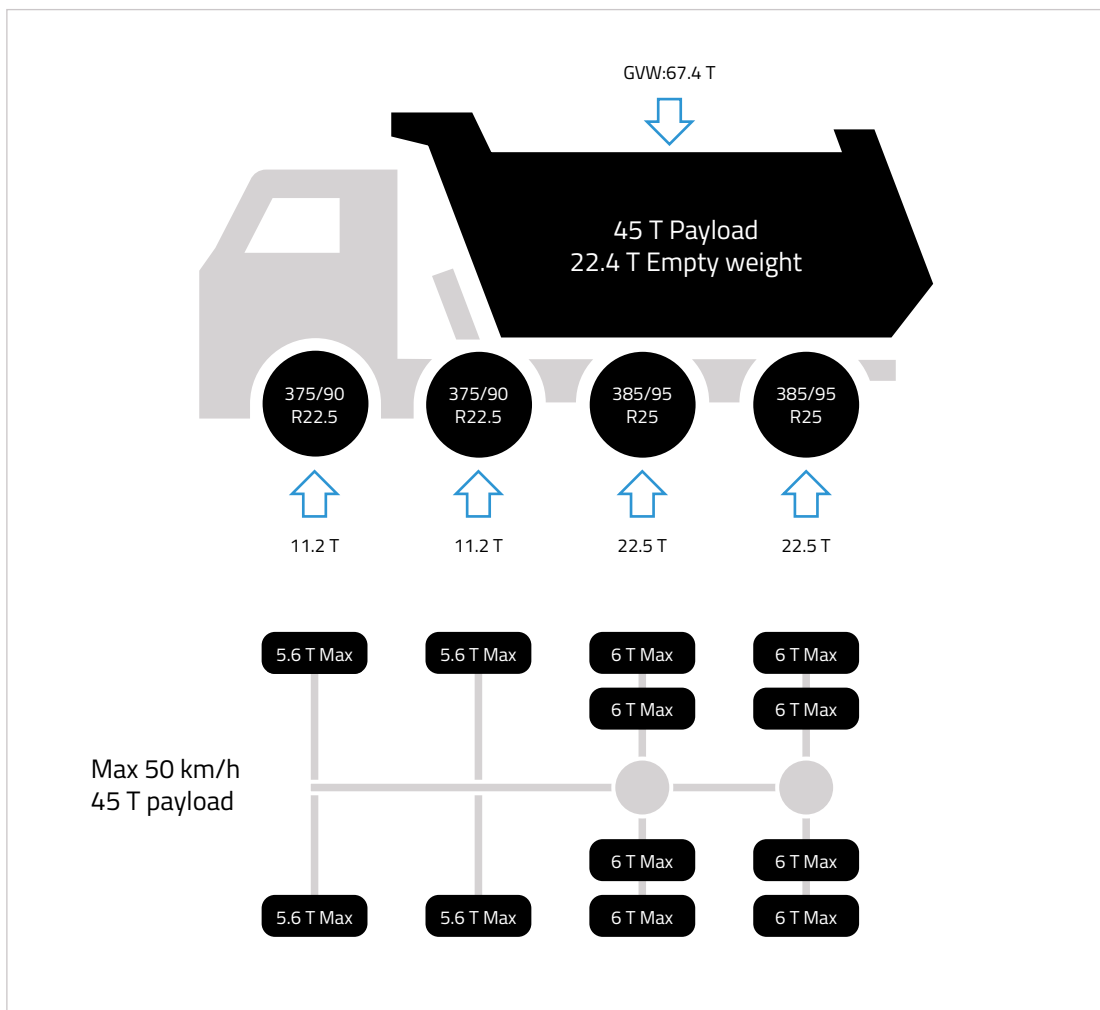


# Maximum payload

When designing the new Volvo FMX 8x4 widespread, BAS Mining Trucks has taken into account the maximum payload that axles and tires can withstand.

The objective has been to be able to transport 45 tonnes of payload. To achieve this objective, 375/90 R22.5 tires have been selected for axles 1 and 2. These tires can carry 5.6 T at 50 km/h. For axles 3 and 4, 385/95 R25 tires have been chosen. These double mounted tires can carry 6 T each at 50 km/h. In this way, the tires on each axle can safely bear the 11.2 T load on axles 1 and 2, and the 22.5 T load on axles 3 and 4, when the truck is fully loaded with 45 T payload with an empty weight of 22.4 T.

The new BAS Mining Trucks 8x4WS can therefore safely transport at least 5 T more payload than a regular 8x4 truck.



# Tipper construction

The BAS Mining Trucks 8x4 uses two cylinders, one on each side of the dump truck. These cylinders have double action. They push the tipper up and pull it back down, which saves dumptime. Tiptime up is 28 seconds, down 20 seconds. The tipper has a conical shape, so it empties quickly when tilted. Being manufactured from 8mm Hardox 450 steel plates, wear is significantly reduced during many unloading operations.

Additionally, the pressure compensation between the two cylinders keeps the tipper in the centre of the vehicle by applying the same force on each side of the chassis. This provides more stability through the tipping.

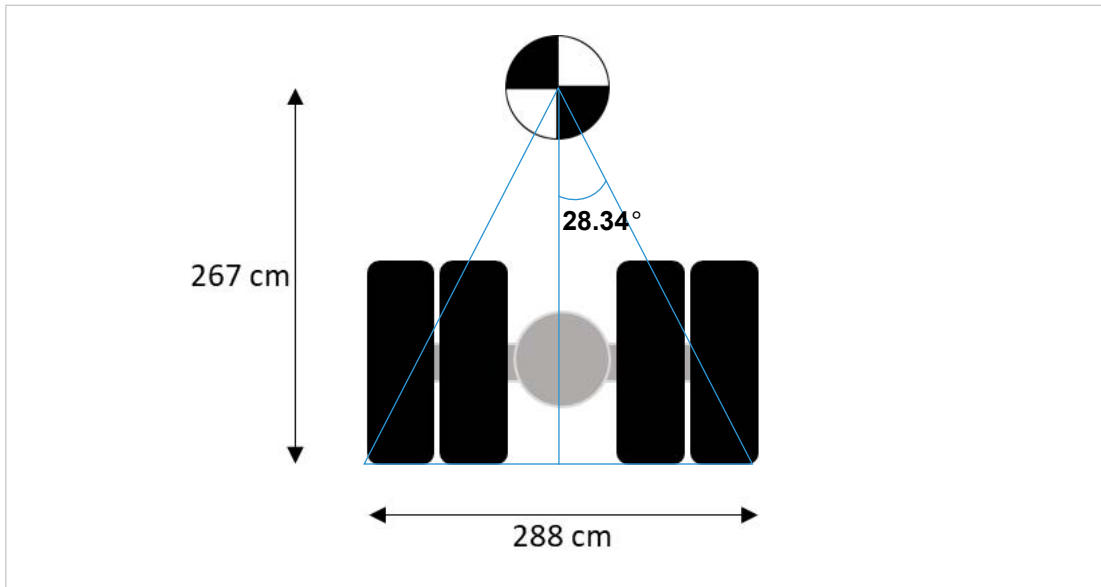
The body of the BAS Mining truck is dimensioned based on the density of the material to be transported. The volume of the tipper guarantees sufficient capacity to move the 5 tonnes of additional payload in comparison to regular 8x4 tippers.



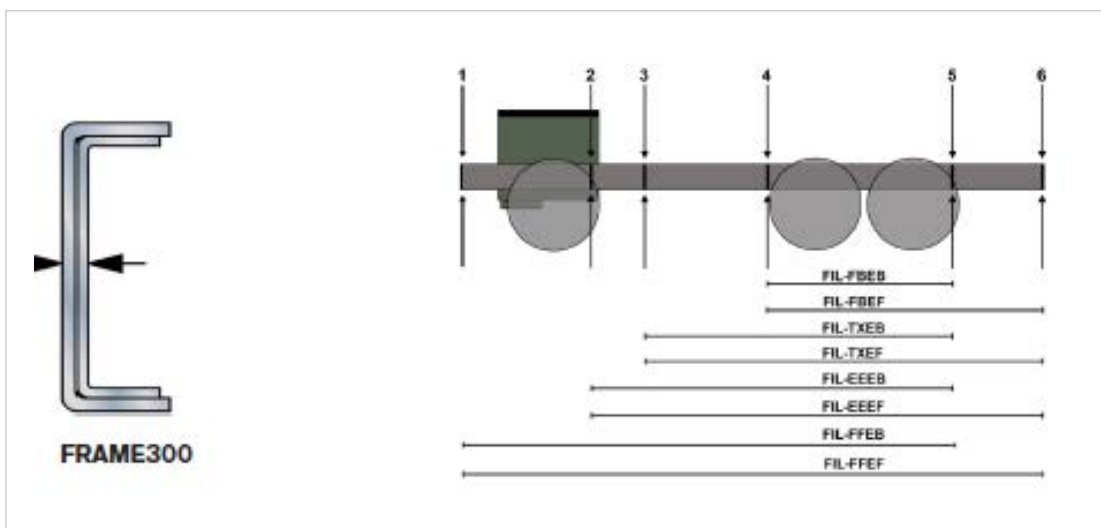
# Roll stability

BAS Mining Trucks 8x4WS is wider on tandem tires, 2880 mm. Although the BAS Mining truck's centre of gravity is higher (2670 mm) the side to side stability is better, just like a larger rigid mining truck has it over conventional equipment.

As a result of the extra width over the tandem tires, the BAS 8x4WS has a higher dumping lean angle before reaching the breakeven limit, 28.34°.

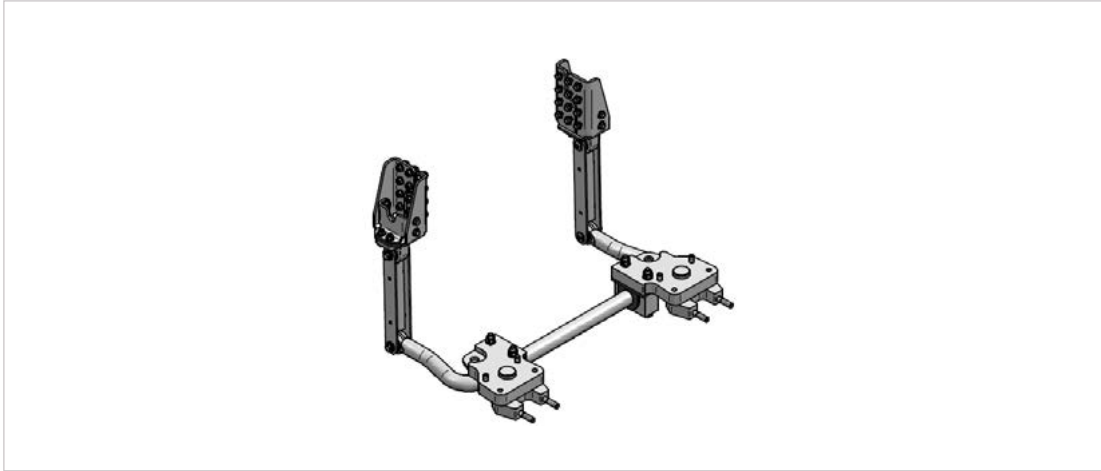


To reduce stress on the frame, the chassis beams are reinforced with an innerliner frame over the entire length on the BAS Mining truck.



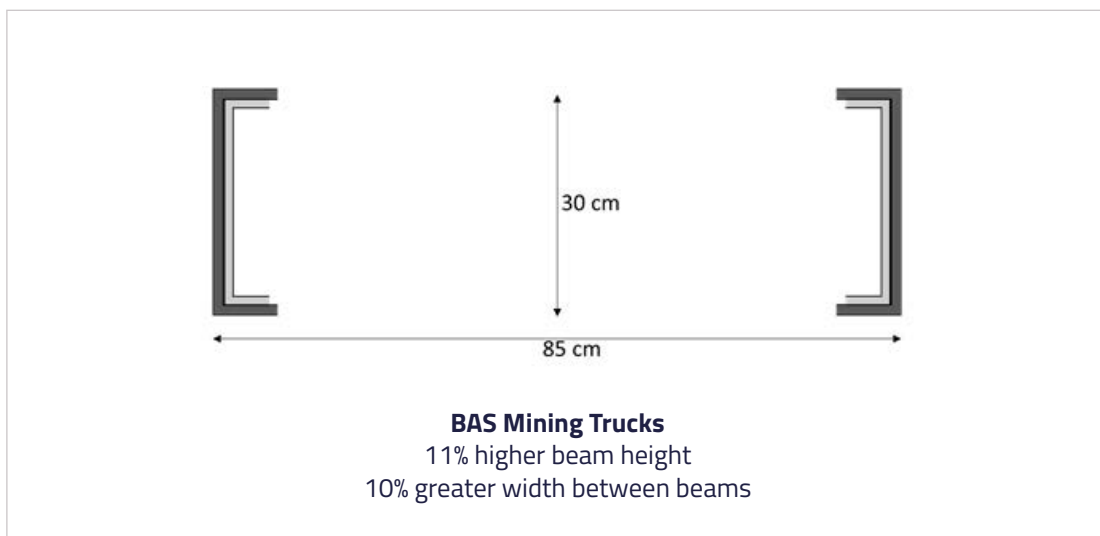
# Roll stability

In addition, the additional stabilizer in front of the tandem on the BAS Mining truck creates more stability for the entire vehicle, increasing safety.



The bending strength of Volvo chassis beams is higher than other brand 8x4 chassis. This benefit is the result of the use of Volvo's 300 mm high chassis beams. The flexural strength of a beam is strongly affected by its height, giving the BAS Mining truck the advantage.

BAS Mining Trucks 8x4WS uses a Volvo FMX chassis. The width between the chassis beams is 85 cm. The extra width on the BAS Mining Truck results in increased torsional stiffness. The benefit is a better body balance, which increases

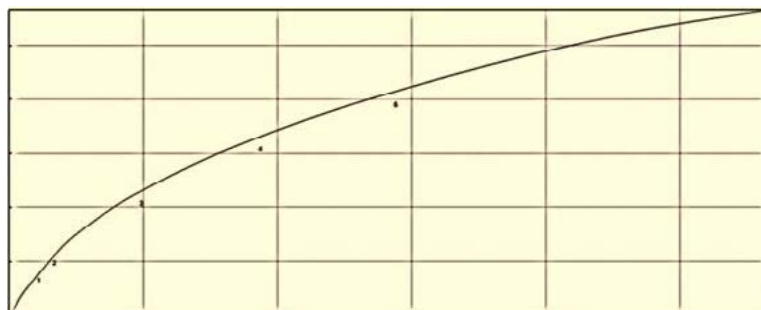


# Powertrain

The main benefit of the BAS Mining Trucks powertrain is the Powertronic transmission. It is a fully automatic transmission that uses a hydraulic torque converter. This converter eliminates the need for a clutch plate, making the transmission very suitable for mining.

The Powertronic transmission in the BAS Mining truck offers continuous traction, even when changing gears, so the driver always maintains control of the truck.

An additional benefit of the Powertronic transmission is the automatic locking of the hydraulic torque converter in all gears. This avoids internal speed differences in the torque converter, reducing energy losses and resulting in low fuel consumption.



**Acceleration curve**  
6 speeds

# The reasons for choosing the new **BAS Mining Trucks 8x4 WideSpread**

- **Increased productivity** thanks to increased maximum payload due to the extended axle configuration, at least 5 tonnes more per trip in comparison to a regular 8x4 tipper
- **Faster and more stable unloading** thanks to double acting side cylinders and tipper design
- **Maximum stability** thanks to the wider and stronger chassis configuration
- **Durable** and suitable for mining **powertrain**

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# The Mining Haulage specialist

The mining industry is a highly specialist sector which sets unique criteria, expectations and requirements with regards to haulage. For example, it demands very strong and durable materials. It involves the haulage of large quantities of ore, minerals, coal and overburden. And it requires high rimpull. BAS Mining Trucks delivers when it comes to strong and durable trucks that are ideally suited for the mining, quarrying and construction industries.

The mining industry is very demanding. Both on people and materials. At BAS Mining Trucks, we understand that better than anyone else. Therefore, operators need full support when doing their work. The equipment must therefore offer them optimum comfort, a perfect overview and awareness of their workplace, maximum protection of health & safety and complete user friendliness. This all leads to high productivity at the highest degree of safety and at the lowest cost per tonne.

We enable companies to boost the efficiency of their operations while optimising the facilities placed at the workers' disposal. We call this 'the new efficiency'. The knowledge, skills, products and passion of BAS Mining Trucks can even make the interests of our customers and the interests of BAS Mining Trucks reinforce each other. In every partnership we take our responsibility, both socially as well as financially, with respect to people and environment. Together we can move mountains!