



## SITRAK G5S 6x4 TIPPER



*The new Sinotruk G5S offers you flexibility configurations to meet your transportation requirements.*

- Reliable MC07H.31-61 engine.
- Allison 3200P gearbox.
- Comfortable cab for operator comfort.
- Bosch steering pump /LCD Color display/ WABCO brake control/Voss connector.
- Differential locks and cross locks for when the going gets tough.
- Alloy rim/air tank to reduce tare weight.
- EBS/ACC/AEBS/HAS/FCWS/WABCO Radar/ 360-degree surround view.

# SPECIFICATIONS

## WEIGHTS

|                            |                              |
|----------------------------|------------------------------|
| GVM (kg)                   | 25000                        |
| Max load of two axles (kg) | Front 7000<br>Rear 9000/9000 |
| GCM (kg)                   | 25000                        |

## CAPABILITY

|                          |      |
|--------------------------|------|
| Max speed(km/h)          | 100  |
| Min turning diameter (m) | 18   |
| Max climb gradient (%)   | ≥25  |
| Fuel tank (L)            | 300L |

## CABIN

|                     |       |
|---------------------|-------|
| Model               | G5S-M |
| Sits                | 2     |
| Turning radius (mm) | 2410  |

## ENGINE

|                         |                |
|-------------------------|----------------|
| Model                   | MC07H.31-61    |
| Displacement (L)        | 7.36L          |
| Power rating kW/(r/min) | 228/2200       |
| Max torque Nm/(r/min)   | 1250/1200~1700 |

## TRANSMISSION

|                    |                                    |
|--------------------|------------------------------------|
| Model              | Allison 3200P                      |
| Forward gear ratio | 3.49, 1.86, 1.41, 1.00, 0.75, 0.65 |
| Reverse gear       | 5.03                               |

## FRAME

|                              |                       |
|------------------------------|-----------------------|
| Model                        | ladder framework      |
| Main beam cross-section (mm) | C type 280×80×8       |
| Width of frame Assembly(mm)  | Front 940<br>Rear 850 |

## DRIVING AXLE

|                   |                                   |
|-------------------|-----------------------------------|
| Model             | MCY11BES                          |
| Redactor ratio    | Ratio 5.29<br>Optional            |
| Differential lock | interwheel & interaxle diff. lock |

## FRONT AXLE

|       |         |
|-------|---------|
| Model | VPD71DS |
|-------|---------|

## SUSPENSION

|       |                                                         |
|-------|---------------------------------------------------------|
| Front | Model Non-independence<br>Number 3 leaf parabolic       |
| Rear  | Model Non-independence<br>Number Leaf parabolic+air bag |

## STEERING GEAR

|                            |                                    |
|----------------------------|------------------------------------|
| Model                      | Recirculating ball hydraulic power |
| Ratio                      | 22.2~26.2:1                        |
| Max pressure of pump (kPa) | 20000                              |
| Steering way               | Steering wheel                     |

## BRAKING SYSTEM

|                         |                                    |
|-------------------------|------------------------------------|
| Working pressure(kPa)   | 1250                               |
| Drive braking type      | Dual circuit                       |
| Brake power adjust type | EBS ESC HSA                        |
| Parking brake type      | Spring stored energy air cut brake |
| Assistant brake type    | Jake Engine Brake                  |

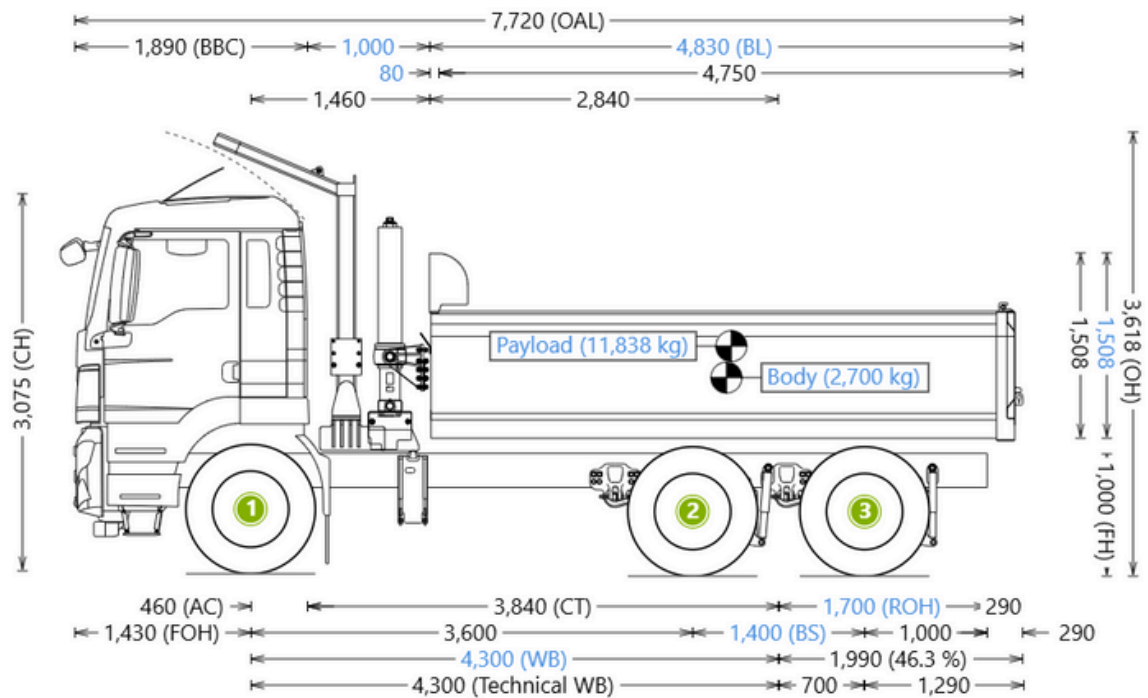
## ELECTRICS

|                                      |                               |
|--------------------------------------|-------------------------------|
| Circuit type                         | double, control positive pole |
| Voltage (V)                          | 24                            |
| Generator power (kW)                 | 3.08                          |
| Accumulator voltage / capacity(V/Ah) | 2x12/180                      |

## EXTRAS

|                            |          |
|----------------------------|----------|
| Trailer brakes ABS to rear | Included |
| Sun visor, side skirts     | Included |

# CAB-CHASSIS & BODY DRAWING



| Dashboard                       |        | Masses Summary              | Front (1) | Rear (2 - 3) | Total     |
|---------------------------------|--------|-----------------------------|-----------|--------------|-----------|
| Manufacturer's Limits           | ✓      | Chassis Mass                | 4,018 kg  | 3,080 kg     | 7,098 kg  |
| Regulatory Compliance           | ✓      | Fuel & Crew                 | 258 kg    | 117 kg       | 376 kg    |
| Organisation Standards          | ✓      | 4700x2270x1050 Hardox Body  | 267 kg    | 2,433 kg     | 2,700 kg  |
| Gross Mass on Vehicle Front (%) | 26.6 % | Hyva Hoist                  | 108 kg    | 42 kg        | 150 kg    |
|                                 |        | SHERMAC RS2000 Folding ROPS | 270 kg    | 50 kg        | 320 kg    |
|                                 |        | Total Unladen               | 4,922 kg  | 5,722 kg     | 10,644 kg |
|                                 |        | Payload                     | 1,060 kg  | 10,778 kg    | 11,838 kg |
|                                 |        | Gross                       | 5,982 kg  | 16,500 kg    | 22,482 kg |
|                                 |        | Permissible                 | 6,000 kg  | 16,500 kg    | 22,500 kg |
|                                 |        | Unused Capacity             | 18 kg     | 0 kg         | 18 kg     |
|                                 |        | Utilisation                 | 99.7%     | 100.0%       | 99.9%     |

# CONFIGURATION

## Significant Dimensions

|                       |          |
|-----------------------|----------|
| Theoretical Wheelbase | 4,300 mm |
| Track Width - Front   | 2,035 mm |
| Track Width - Rear    | 1,850 mm |

## Centre of Gravity & Mass Distribution - Vehicle

| Description                 | Horizontal COG * | Vertical COG *  | Lateral COG * | Front           | Rear             | Total            |
|-----------------------------|------------------|-----------------|---------------|-----------------|------------------|------------------|
| Sitrak G5S 6x4 (BCI Truck)  | 1,866 mm         | 920 mm          | 0 mm          | 4,018 kg        | 3,080 kg         | 7,098 kg         |
| Fuel Tank 1                 | 1,850 mm         | 700 mm          | 811 mm        | 144 kg          | 108 kg           | 252 kg           |
| AdBlue 1                    | 1,324 mm         | 700 mm          | -854 mm       | 30 kg           | 13 kg            | 44 kg            |
| Crew 1st Row                | -250 mm          | 1,685 mm        | 0 mm          | 85 kg           | -5 kg            | 80 kg            |
| 4700x2270x1050 Hardox Body  | 3,875 mm         | 1,618 mm        | 0 mm          | 267 kg          | 2,433 kg         | 2,700 kg         |
| Hyva Hoist                  | 1,204 mm         | 1,970 mm        | 0 mm          | 108 kg          | 42 kg            | 150 kg           |
| SHERMAC RS2000 Folding ROPS | 667 mm           | 2,444 mm        | 0 mm          | 270 kg          | 50 kg            | 320 kg           |
| Payload                     | 3,915 mm         | 1,874 mm        | 0 mm          | 1,060 kg        | 10,778 kg        | 11,838 kg        |
| <b>Total</b>                | <b>3,157 mm</b>  | <b>1,535 mm</b> | <b>8 mm</b>   | <b>5,982 kg</b> | <b>16,500 kg</b> | <b>22,482 kg</b> |

\* Horizontal COG is measured from Theoretical Wheelbase start; Vertical COG is measured from the ground; Lateral COG from the centre

## Notes & Warnings

### Notes

#### Manufacturer's Limits

- The compliance indicators for Manufacturer's Limits refer to Gross Axle and Gross Vehicle Mass ratings only.

#### Regulations Applied

- AU: National
  - Heavy Vehicle (Mass, Dimension and Loading) National Regulation. Last reviewed by TruckScience: February 2021.

#### General

- Left / Right mass distribution has not been calculated
- Included in Fuel & Crew: 300 l Fuel, 40 l AdBlue, 1 Crew at 80 kg per person
- Excluded from this calculation: 5th Wheel
- Not Specified: Tools, Spare Wheel
- Safety Features: Front Underrun Protection, Advanced Emergency Braking, Lane Departure Warning Systems
- Overall centre of gravity includes truck, crew, fuel, equipment & payload
- Application = On Road
- Vehicle Spec Date: 2025/06
- Measurement System = Metric
- Body & Equipment added: 4700x2270x1050 Hardox Body, Hyva Hoist, SHERMAC RS2000 Folding ROPS
- External Body Width = 2,270 mm
- The Cab Tilt Clearance is not calculated, therefore the actual clearance must be confirmed by an engineer
- A minimum cab gap has not been provided. Please confirm this dimension with the vehicle manufacturer.
- The Vertical Centre of Gravity for vehicle & fuel tank 1 has been estimated
- The Smallest Turning Circle is used to determine the smallest U-turn that the vehicle is capable of making
- The vehicle's Static Rollover Angle (SRA) is 30.86°, giving a Static Rollover Threshold (SRT) of 0.597 g, assuming a stiff suspension and no tyre flex.



## Experience Unmatched Fuel Economy with SITRAK

With cutting-edge technology and a track record of excellence, SITRAK offers industry-leading fuel efficiency. Enjoy higher kilometers per liter, reduced operating costs, and exceptional value for long-haul operators.

At BCI Truck, we enhance this performance with local expertise and comprehensive nationwide support, ensuring your fleet is more cost-effective and road-ready than ever before.

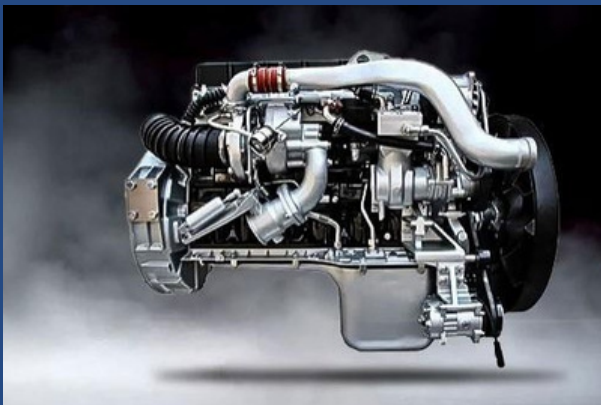




## FEATURES



The cabin is designed for driver comfort and functional operation, prioritising an ergonomic setup for long working hours. The interior includes an ISRI ventilated heated seat for year-round comfort, a spacious 30L cab refrigerator for convenience on the road, and an advanced Continental colour display offering real-time vehicle insights. With a 4-point air suspension system and 360-degree camera visibility, the G5's interior supports a smooth, safe, and informed driving experience tailored to urban transport needs.



Experience the exceptional performance of the MC07 engine, designed for maximum fuel efficiency and durability. With a displacement of 7.33 litres and a power rating of 280HP, the MC07 delivers reliable power for a wide range of applications, from cargo transport to demanding worksite tasks. The engine's high torque and advanced fuel injection system ensure optimal performance even under heavy loads, making it the perfect engine for T5G models, ready to tackle tough jobs with ease.



Experience the cutting-edge technology of the SITRAK MCY13 drive axle, featured in all new SITRAK trucks. This next-generation single-stage drive axle comes standard with a maintenance-free SKF bearing assembly, ensuring smooth operation without the need for regular maintenance. With a durability of over 1,000,000 kilometres, this drive axle is known for its high efficiency, low noise, and extended oil life.



The G5S is equipped with the Allison 3500P 6-speed automatic transmission, offering seamless and efficient gear shifts for all driving conditions. This transmission is built to enhance driving comfort and reduce wear on components, thanks to its advanced torque converter technology. With its robust design and smooth power delivery, the Allison 3500P ensures maximum efficiency and longevity, making it ideal for both urban environments and long-haul journeys.



## ADVANCED SAFETY FEATURES

### Anti-Brake System (ABS)

ABS is designed to keep you in control, automatically adjusting braking force to prevent wheel lock-up during sudden stops or on slippery surfaces. This ensures maximum adhesion between the tyres and the road, enhancing safety and confidence in every drive.

### Electronic Brake force Limitation (EBL)

EBL optimises brake force distribution for improved vehicle stability and performance. By adjusting based on ABS feedback, EBL helps ensure your brakes perform at their best, giving you peace of mind on every journey.

### Acceleration Slip Regulation (ASR)

ASR provides extra traction when you need it most. It helps prevent wheel spin during acceleration on low-friction surfaces like snow or ice, maintaining your vehicle's stability and control, so you can drive with confidence in any weather.

### Electronic Braking System (EBS)

EBS combines ABS and ASR technologies to enhance braking performance and reduce brake wear. This system ensures smoother, more responsive braking and extends the lifespan of your brake components, keeping your vehicle reliable and safe.

### Electronic Stability Control (ESC)

ESC is here to keep your vehicle on track. By monitoring vehicle dynamics, it reduces the risk of rollover and skidding, ensuring you maintain control in all driving conditions. It's an extra layer of safety, especially in critical situations.

### Exhaust Valve Brake (EVB)

EVB boosts engine braking efficiency, reducing wear on your brakes. It's ideal for maintaining control and slowing down on steep descents, providing added safety without additional brake wear. The maximum EVB braking power of MC11 engine and MC13 engine can reach 255kW and 270 kW respectively.

### Hydrodynamic Retarder

The Hydrodynamic Retarder offers smooth, continuous braking, especially useful for long descents. It reduces the load on your brakes, improving safety and prolonging brake life, so you can focus on the drive.

### Hill Start Assist (HSA)

HSA prevents rollback when starting on an incline. By holding brake pressure temporarily, it allows for a smooth transition from brake to accelerator, making hill starts easier and safer.

### Adaptive Cruise Control (ACC)

ACC takes the stress out of highway driving by automatically adjusting your speed to maintain a safe distance from the vehicle ahead. It enhances comfort and safety, reducing fatigue on long drives. ACC can be applied from 30km/h to 125km/h, helping the driver to stay relaxed while driving and raise comfort.

### Lane Departure Warning System (LDW)

LDW helps you stay in your lane. It monitors road markings and alerts you if you begin to drift, providing an extra level of safety to prevent unintentional lane departures and reduce the risk of accidents.

### Advanced Emergency Braking System (AEB)

Our AEB system is designed for those critical moments. It uses radar technology to detect potential collisions and automatically applies the brakes if necessary, helping to prevent accidents and keep you safe.



## **SITRAK G5S OPTIONAL EXTRAS**

### **Safety Features**

2KG Fire Extinguisher  
Anderson Plug & 350AMP Leads,  
Emergency Hammer with Bracket,  
First Aid Kit, Reverse, Squawker, Safety  
Triangle, UHF and Aerial, Handbrake  
Alarm, Orange Safety Lugs (Wheel Nut  
Indicators), Left Hand Turn Alarm

### **Comfort & Convenience**

Chassis Walk Plate, Floor Matts, Flat  
LED Beacon, Dash Cam - Aftermarket,  
Incab Air Blower, Transport Vehicle  
Interstate

### **Appearance Upgrades**

Bullbar, Cab Colour, Chassis Colour  
Company Decals, Seat Covers, Yellow  
Grab Handles/Yellow Steps. Tinted  
Windows, LED Light Bar

### **Performance & Durability**

Ceramic Coat of Wheels Crate Guard  
Treatment to Chassis, Lockable Battery  
Isolator, JOST Ballrace, JOST Turntable,  
Teflon Turntable