

## **Important technical and legal information regarding vehicle configuration and weight-related data**

In road traffic, each vehicle is only approved for a certain maximum weight. This maximum weight must not be exceeded during operation. Therefore, particular attention must be paid to the technical and legal requirements for the weight of your vehicle when configuring and selecting optional equipment ('packages', 'features' and 'options') from our factory-fitted range when configuring your vehicle.

The EU Commission's Implementing Regulation (EU) 2021/535 dated 31 March 2021 (up to and including 06/2022: EU Commission Regulation (EU) No. 1230/2012 dated 12 December 2012) sets out the legal requirements for the weight of your vehicle. In order provide information that is as transparent and comprehensive as possible about the weight-related data specified in the configurator, the following explanations and information provided by Knaus Tabbert AG are based on the requirements of this Regulation. Please read the following explanations and information regarding weight-related data carefully before configuring and ordering your vehicle. Our retail partners will also be happy to help you select and configure your vehicle.

### **1. The technically permissible maximum mass of the vehicle**

The 'technically permissible maximum mass' of the vehicle is shown in Part I of the registration certificate (under point F.1.) and refers to the maximum mass that your vehicle may weigh when loaded (e.g. 3,500 kg) as specified by the manufacturer. This may not be exceeded during any journey. Exceeding the technically permissible maximum mass during operation is punishable by fines in many European countries. In Germany, exceeding the technically permissible maximum mass during operation can constitute an administrative offence punishable by a fine. We therefore recommend that you weigh your vehicle prior to every journey and check that it complies with the technically permissible maximum mass. Compliance with the technically permissible maximum mass is your responsibility.

The technically permissible maximum mass for each layout is shown in the technical data.

### **2. The mass of the vehicle in running order**

The 'mass in running order' refers to the mass of the vehicle including the body and standard factory equipment (or 'basic equipment') including the standard fuel tank filled to 90% of its capacity, as well as operating fluids such as lubricants, oils and coolants, tools and puncture repair kit, plus the driver mass, which is calculated as a fixed weight of 75 kg by law.

For each layout, the mass in running order is shown in the technical data.

The following items are included in the mass in running order:

- the unladen weight of the vehicle, including the body and operating fluids such as lubricants, oils and coolants, tools and puncture repair kit;
- the standard factory equipment, i.e. the basic configuration of a vehicle equipped with all the features required by law, including any fitted equipment that does not require further specifications at a configuration or equipment level;
- 100% filled fresh water tank; in running order (the capacity of the fresh water tank is limited to 10, 20 or 40 litres in running order depending on the vehicle model) and a 100% filled aluminium gas cylinder weighing 16 kg;

- the 90% filled standard fuel tank including fuel;
- the driver, whose weight is calculated as a fixed 75 kg.

Please note that the mass in running order specified in the technical data is a calculated nominal value that is subject to production-related tolerances of up to  $\pm 5\%$ . These legally permissible tolerances can have a direct impact on the actual mass of your vehicle and therefore also the load capacity or remaining payload. So you should always take these tolerances into account when configuring your vehicle.

### **3. The actual vehicle mass**

The 'actual vehicle mass' refers to the mass of the vehicle in running order plus the mass of any optional factory-fitted equipment on a particular vehicle.

### **4. The mass of the driver and the mass of the passengers**

The 'driver mass' is calculated as a fixed weight of 75 kg, regardless of the driver's actual weight. Since the driver mass is already included in the mass in running order, it is not included in the authorised passenger mass.

The 'passenger mass' is based on the permissible number of occupants in running order, as determined by the manufacturer during the type-approval process minus the driver mass, which is calculated as a fixed weight of 75 kg.

For each layout, the permissible number of occupants in running order is shown in the technical data.

The passenger mass is also calculated as a fixed weight of 75 kg per passenger, regardless of their actual weight. For a vehicle with a permissible number of occupants in running order of four, the passenger mass is therefore 225 kg (3x75 kg).

### **5. Standard equipment and optional equipment**

The 'standard equipment' (or 'basic equipment') refers to the basic configuration of a vehicle equipped with all the features required by law, including any fitted equipment that does not require further specifications at a configuration or equipment level.

Details of the standard equipment (or 'basic equipment') are provided for the layout you have selected as part of the configuration.

The 'optional equipment' ('packages', 'features', and 'options') refers to all equipment not included in the standard equipment that is factory fitted to the vehicle by the manufacturer and which can be ordered by the customer. Optional equipment in this sense does not include any other accessories that are fitted to the vehicle by you or your retail partner after the manufacturer has delivered the vehicle.

Details of the (equipment) packages, features, and options that can be ordered from the factory are provided for the layout you have selected as part of the configuration.

Please note that the installation of optional equipment always results in a reduction in pay-mass (see point 6.). The maximum optional equipment mass that can be selected for each layout can be found in the information on the respective layouts (see point 7.).

## **6. The pay-mass and the minimum pay-mass**

The 'pay-mass' is calculated by subtracting the mass in running order, the passenger mass and the manufacturer's maximum optional equipment mass from the technically permissible maximum mass.

European legislation stipulates a fixed 'minimum pay-mass' for motorhomes that must be adhered to for luggage and other accessories not installed by the manufacturer. This must not be reduced when configuring your vehicle and is calculated using the following formula:

$$\text{Minimum pay-mass in kg} \geq 10 * (n + L)$$

Where 'n' = maximum number of passengers plus the driver and 'L' = the overall length of the vehicle in metres.

## **7. The maximum optional equipment mass**

To ensure compliance with the legally prescribed minimum pay-mass, the 'maximum optional equipment mass' is specified by the manufacturer for each layout. This is the mass available for selecting optional factory-fitted equipment ('packages', 'features' and 'options') while complying with the minimum pay-mass required by law.

Knaus Tabbert AG calculates the maximum optional equipment mass by subtracting the mass in running order, the passenger mass and the minimum pay-mass from the technically permissible maximum mass.

However, the mass in running order is a calculated nominal value that may be subject to production-related tolerances of up to  $\pm 5\%$  (see point 2.). The occurrence of these production-related tolerances could result in the minimum pay-mass not actually being observed if the calculated optional equipment mass is used.

To prevent such a reduction in the minimum pay-mass, Knaus Tabbert AG therefore takes account of the permissible weight deviations that experience has shown may occur for each layout when determining the maximum optional equipment mass.

In addition, equipment features of national variants/special models that are not part of the standard equipment are also taken into account when calculating the maximum optional equipment mass.

If due to the selection of optional equipment, the maximum optional equipment mass is exceeded, you can generally (depending on the layout) select an increase in vehicle load capacity, reduce the permitted number of seats when driving and/or deselect optional equipment in the configurator in order to continue with the configuration. If you fail to do this, the configuration and therefore the order process for your vehicle cannot be continued.

## **8. Legally permissible tolerances in the calculation of weight data**

The mass in running order figures given in the technical data are calculated nominal values that are subject to production-related tolerances of up to  $\pm 5\%$ . These production-related tolerances of up to  $\pm 5\%$  are legally permissible and result from the use of natural materials such as wood, as well as the manufacturing processes used by some suppliers. Despite optimised production processes, weight fluctuations resulting from the materials used cannot be ruled out. As these legally permissible tolerances have a direct impact on the actual mass of your vehicle and therefore also the possible vehicle load capacity or remaining pay-mass, you should always take these into account when configuring your vehicle.

*Example:*

Mass in running order according to technical data:	2,968 kg
Legally permissible tolerance of $\pm 5\%$ :	148 kg
Legally permissible range of mass in running order	2,820 to 3,116 kg

Based on the above example, if you order the vehicle with optional equipment with a total weight of 150 kg, the nominal value of the mass in running order shown in the technical data results in a pay-mass of 180 kg. However, the actual load capacity may deviate from this value because of the legally permissible tolerances. If the mass in running order of your vehicle is about 1% higher than the nominal value stated in the technical data, the load capacity is reduced from 180 kg to 151 kg:

*Example:*

3,500 kg	Technically permissible maximum mass
- 2,998 kg	Actual weight of the vehicle in running order (+ 1% compared to the mass in running order of 2,968 kg stated in the technical data)
- 3x75 kg	Passenger mass
- 150 kg	Optional equipment ordered for the specifically configured vehicle
= 127 kg	Remaining load capacity (NB: the remaining load capacity must be greater than the minimum pay-mass, see point 6.)

We therefore recommend that you weigh your loaded vehicle prior to every journey and check that you comply with the technically permissible maximum mass. As the driver of the vehicle, you are responsible for checking this.