

## K 6x4 – 1+2 CONFIGURATION REAR

Renault Trucks K Range - 4x4

Category N3G

TECHNICAL GVW 31 t



### DESCRIPTION

Conversion developed by System Truck for the application of a rear (tag) axle with a technical capacity of 9 t<sup>1</sup> on 2-axle (4x4) Renault Trucks vehicles from the K range with rear mechanical suspensions with parabolic springs.

This configuration of the vehicle – with double traction and added rear axle (**1+2**) – is advisable for applications requiring its use both as a road vehicle and off-road, as well as in mountain and wood areas. The category of the vehicle is N3G (off-road).

The conversion to a 3-axle vehicle (6x4) is carried out through the application of a rear axle with single wheels, steering hydraulically. The suspension is pneumatic and features the axle lifting device with automatic operation.

System Truck's **Technology** system for the hydraulic control of the added axle steering is completely independent from the front steering system and therefore does not affect in any way the original vehicle driving comfort. The pneumatic section of the system guarantees the centring of the wheels of the added axle in the event of a pressure loss or oil overheating (> 90°C) in the hydraulic system.

<sup>1</sup> Or, upon request and subject to single country regulations and requirements, 10 t.

## TECHNICAL NOTES

 Specifications of the **base vehicle** for the conversion to 6x4 1+2 rear:

Model	<b>Renault Trucks K 4x4</b>	
Suspensions drive axles	Mechanical with parabolic springs	
Wheelbase (min – max) (mm)	3600 – 4900	
Tyres	1 <sup>st</sup> axle (drive axle)	385/65 R22.5 or 315/80 R22.5
	2 <sup>nd</sup> axle (drive axle)	315/80 R22.5
Other	Engine PTO with spline shaft 650 Nm (Renault Trucks code 22811) / 1000 Nm (Renault Trucks code 22813)	

 Specifications of the **vehicle converted** to 6x4 1+2 rear:

Model	<b>Renault Trucks K 6x4 1+2 rear</b>	
Suspensions added rear axle	Pneumatic (with automatic lifting device)	
Tyres added rear axle	385/65 R22.5 or 315/80 R22.5	
Tare increase (kg) (including tyres and wheel rims)	~1050	
Maximum allowed weights (max) (kg)	1 <sup>st</sup> axle (drive axle)	9000 <sup>2</sup> or 8000 <sup>3</sup>
	2 <sup>nd</sup> axle (drive axle)	13000 (technical) / 11500 (legal) <sup>4</sup>
	3 <sup>rd</sup> axle	9000 <sup>5</sup> (technical) / 7500 (legal) <sup>4</sup>
GVW <sup>6</sup> (max) (kg)	31000 (technical) / 25000 (legal) <sup>4</sup>	

**Nota bene: the dimensions specified are theoretical and must be checked each time by the subsequent bodybuilder according to the actual vehicle configuration.**

Cabin		Day Cab (short)					
1 <sup>st</sup> axle ÷ start of body (mm)		615					
Axles distance (mm)	1 <sup>st</sup> - 2 <sup>nd</sup>	3600	3700	4000	4300	4600	4900
	2 <sup>nd</sup> - 3 <sup>rd</sup>	1405					
Body fitting <sup>7</sup> (mm)	min	6000	6200	6700	7300	7800	8300
	max	6500	6700	7300	7800	8400	8900

The hydraulic pump of the Technology steering system is connected to the engine power take-off. For vehicle bodies requiring the use of the engine PTO, a **double output adapter** devised by System Truck engineering can be supplied to split the exit and leave the main exit available for the bodybuilder<sup>8</sup>.

The transformed vehicle has been fully tested by the Italian Ministry of Transport.<sup>9</sup>

**For any further information and to ask for custom designed solutions to meet your specific needs, please don't hesitate to contact our Technical Commercial Office: T +39 (0)376 1590804 [commerciale@st-truck.com](mailto:commerciale@st-truck.com)**

<sup>2</sup> With 385/65 R22.5 tyres.

<sup>3</sup> With 315/80 R22.5 tyres.

<sup>4</sup> The legal maximum allowed weights can vary according to single country regulations, which must always be checked

<sup>5</sup> Or, upon request and subject to single country regulations and requirements, 10000.

<sup>6</sup> Gross Vehicle Weight.

<sup>7</sup> The body fitting dimensions are calculated with reference to the configuration with GVW of 25000 kg and maximum allowed weights on the axles of 8000, 11500 and 7500 kg.

<sup>8</sup> System Truck code 30.04.25.0028-GR

<sup>9</sup> For markets other than Italy, the possibility of and terms for registering the vehicle must be checked each time.

Technical Sheet\_Renault Trucks K 6x4 P

Rev. 0 of 15/02/2021

Non contractual document. The data contained in this technical sheet may be subject to changes without notice. Reproduction, even partial, is forbidden.