

S-WAY / X-WAY 8x2 – 2+2 CONFIGURATION

IVECO S-Way 260S / X-Way 280X

GVW 32 t



DESCRIPTION

This conversion has been realised and perfected by System Truck on the old Stralis and X-Way ranges, and is now available also starting from the new MY2019 range vehicles S-Way 260S / X-Way 280X already equipped with a steering rear axle (6x2).

The **2+2 configuration** is perfect for equipment with loads which are concentrated behind the cabin or not evenly-distributed, for mounting cranes, for transporting heavy machinery, forklifts and the like.

The conversion to a 4-axle vehicle (8x2) is carried out through the application of an **original IVECO axle** behind the cabin with single wheel, equipped with disc brakes, steering with hydraulically servo-assisted mechanical control.

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 mechanical linkage – having the sole functions of controlling the hydraulic system and acting as safety system in the event of a hydraulic failure – consists of rods passing under the upper edge of the frame, thus leaving the chassis completely free for the subsequent bodybuilder.

The suspension is pneumatic, integrated with a Panhard bar; the load on the added axle is automatically balanced with the load on the front axle.

The conversion also requires the relocation of the muffler from its original position on the left hand side of the frame to the intermediate position between the second and third axles on the right hand side, with a makeover of the exhaust pipe. Should the bodybuilder call for the installation of a pump on the gearbox PTO, a pre-emptive check of the available space is recommended.

TECHNICAL NOTES

 Specifications of the **base vehicle** for the conversion to 8x2 2+2:

Model	IVECO S-Way 260S 6x2 / X-Way 280X 6x2
Suspensions	Y/PS (rear pneumatic) ¹ or Y/FS (full pneumatic) or Y/FS-CM (swap bodies)
Wheelbase (min – max) (mm)	4200 – 6050
Other	Parking brake also on the front axle (IVECO option 2311) ²

 Specifications of the **vehicle converted** to 8x2 2+2:

Model	IVECO S-Way 260S 8x2 2+2 / X-Way 280X 8x2 2+2	
Suspensions added central axle	Pneumatic	
Tare increase (kg) (including tyres and wheel rims)	~950	
Maximum allowed weights (kg)	1 st axle ³	6700 / 7100 / 7500 / 8000 / 8600 ⁴ / 9000 ⁵
	2 nd axle ⁶	6700 / 7100 / 7500 / 8000
	3 rd axle (drive axle) ³	11500 / 12000
	4 th axle ³	6700 / 7100 / 7500 / 8000
GVW ⁷ (max) (kg)	35000 (technical) / 32000 (legal) ⁸	
GCW ⁹ (max) (kg)	60000 (technical) / 44000 (legal) ⁸	

¹ Where a body with high tare (for example, a concrete mixer) is foreseen, the conversion can even be carried out on vehicles with a non-liftable rear axle.

² However, vehicles which are not prepared with this option can also be adapted by System Truck prior to the conversion.

³ Maximum weight unvaried with respect to the original vehicle.

⁴ **IVECO option 8334.**

⁵ **IVECO option 76248.**

⁶ Maximum weight variable depending on the maximum weight on the 1st axle.

⁷ Gross Vehicle Weight.

⁸ The legal GVW and GCW can vary according to single country regulations, which must always be checked.

⁹ Gross Combination Weight: maximum technically allowable weight of the combined vehicle (rigid + trailer).

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

Cabin		AD						AT						AS					
1 st axle ÷ start of body (mm)		445						900						940					
Axles distance (mm)	1 st - 3 rd	4200 ¹⁰	4500 ¹⁰	4800 ¹⁰	5100	5700	6050	4200 ¹⁰	4500 ¹⁰	4800 ¹⁰	5100	5700	6050	4200 ¹⁰	4500 ¹⁰	4800 ¹⁰	5100	5700	6050
	1 st - 2 nd	1975 (standard) or 2110 ¹¹																	
Body fitting ¹² (mm)	min ¹³	6050	6450	6750	7050	7650	7900	5545	5845	6145	6445	7045	7395	5505	5970	6420	6820	7720	8270
	max	6550	6950	7350	7750	8650	9250	5700	6100	6600	7000	7900	8400	5820	6220	6720	7120	8020	8520

Axles distance (mm)	1 st - 3 rd	4200 ¹⁰		4500 ¹⁰		4800 ¹⁰		5100		5700		6050	
	1 st - 2 nd	1975	2110 ¹¹	1975	2110 ¹¹	1975	2110 ¹¹	1975	2110 ¹¹	1975	2110 ¹¹	1975	2110 ¹¹
Allowed fuel tanks ¹⁴	290 l	□	(not feasible)	□	□	■	■	■	■	■	■	■	■
	400 l			□	□	■	■	■	■	■	■	■	■
	600 l					□			■	■	■	■	■
	800 l								□	□	■	■	■

Key: ■ allowed □ allowed with System Truck vertical battery box

The tyres of the added axle are each time coherent in their size and payload to those mounted on the first and/or fourth axle of the base vehicle.

The turning radiuses remain the same with respect to the base (6x2) vehicle with the same wheelbase.

Alongside the conversion to 8x2 2+2, System Truck can provide for modifications (extension or reduction) of the **wheelbase** and/or of the **rear overhang** of the vehicle, even to intermediate lengths with respect to the standard, and/or the **repositioning of components** applied to the chassis (moving them from one side to the other or to the rear overhang) in order to achieve a configuration suitable for the foreseen body.

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

¹⁰ On models with wheelbases of 4200, 4500 and 4800 mm it will be no longer possible to house the spare wheel.

¹¹ The distance between the 2nd and 3rd axles of 2110 mm is perfect for mounting a crane behind the cabin.

¹² The body fitting dimensions are calculated with reference to the configuration with technical maximum weight of the 1st axle of 7500 kg.

¹³ The minimum body fitting is, in most cases, limited by the length of the minimum feasible rear overhang, equal to 850 mm.

¹⁴ Nota bene: the specifications on allowed fuel tanks refer to the standard configuration and must be checked each time according to the actual vehicle configuration (Ad-Blue® tank type, air filter type) and to the specific needs of the customer. It is also possible (in some cases, necessary) to install a vertical battery box designed and supplied by System Truck, smaller than the original one.