



Low floor chassis



Lightweight

Low entry

Modular

Coxx Mobile Systems is a flexible and market orientated organization, specialized in efficient solutions within the transport sector. Offering innovative products and services and focused on efficient (city)distribution, Coxx can be seen as a game changer in the market, continuously improving products and processes.

Coxx' legacy of 100 years of experience and knowledge contributed to a broad product portfolio focused on various target groups.

Because of the modular construction of Coxx' products, innovative and revolutionary solutions can be offered both customized and serially produced. In addition to the innovative quality products, Coxx highly values personalized and adequate service.

As from 1994, Coxx constructs the Coxx **X:LOW** low floor chassis. Because of its ongoing development, the X-Low still is one of Coxx most innovative products. Due to its various advantages, the X-Low chassis can serve as the perfect base for a variety of vehicles:

- ✗ Commercial vehicles
- ✗ Market- and salestrucks
- ✗ Campers and minibuses
- ✗ Mobile offices and workspaces
- ✗ City distribution
- ✗ Foodtrucks
- ✗ Special bodywork constructions



Ultra low entry level – 25 cm



Loading capacity up to 4.500 kg



Unique coupling system



Air suspension as a standard

The **X:LOW low floor chassis** is unique due to an ultralow entry level and low weight, modular construction, unique coupling system and rear axle air suspension as a standard.

The low entry level, in combination with a high loading capacity, offers the ideal base for distribution of people and goods. Given its modular character and flexible sizing, the X-Low suits a variety of target groups.

The modular construction results in short delivery times, starting from only one week!

The universal coupling system connects the X-Low chassis with the cabin, and allows the cabin to be easily replaced after depreciation. This second life of the chassis and bodywork reflects positively in the exploitation costs.

This brochure gives an overview of the special features and advantages of the X-Low low floor chassis as well as technical specifications of this unique product.

We are happy to assist in finding your most efficient transport solution by means of a specialized and personalized consultation.

The modular, low weight X-Low chassis is voted one of the most innovative products in the Innovation Top 100 2016 (initiated by the Chamber of Commerce, NL)



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X-Low chassis for market- and salestrucks

The X:LOW chassis serves as a perfect base for various types of market- and salestrucks. Because of the modular character of the chassis, multiple options and customizations are possible within the weight range 3.500 till 7.490 kg, and lengths between 4 to 8 meters.

A low center results in a working height of just 25 cm above ground level! This means that the salesman is standing almost on the same height as his customers, which improves customer contact experience. In addition, the low entry level is very convenient in loading and unloading the vehicle.

The chassis is designed to be very easily transformed into a salestruck, just like a plug-and-play. The walls can be mounted directly to the outriggers. Smart suspension allows wheel arches as wide as only 33 cm to generate even more volume in between.

Foodtruck chassis 3.500 kg to 7.490 kg GVW

Fancy foodtrucks, who does not recognize them? More often these food trucks appear on festivals or somewhere unexpected to create an ambient atmosphere, vintage style. Usually refurbished vintage vehicles are used as food trucks. But what about the pollution of engines and high loading floors that come with these vehicles? Trending is to design a completely new vehicle – vintage style. Using a Coxx X-Low chassis optimizes the loading capacity, enhances the usability for the salesman and improves customer experience.

Optional is a 'naked cabin', which allows the bodywork constructor to assemble one's own coachwork. In this way the foodtruck can be styled on demand, but includes all modern and mandatory technological features.

The flexibility of the X:LOW allows a variety of options to customize your trendy foodtruck.]

There is a broad range of basic vehicles to choose from, suitable for a variety of needs and requirements, up to 130 kW / 180 hp. Various options are available to make the cabin as comfortable as desired.

For an ultimate optimization of vending capacity, the X-Low can be equipped with the unique **Shortcab integral cabin**.

The Shortcab is an in-house developed integral cabin, based upon a 'naked' Fiat Ducato cabin. The Shortcab is mounted to the X-Low chassis just like a regular cab.

The Shortcab is only 1 meter in length, whereas a regular Ducato cabin is 2,40 meter. Meaning an extra 1,4 meter net length for sales and promotion.



The distinctive appearance of the Shortcab integral cabin perfectly matches the retro look and feel of nowadays food truck.



X-Low chassis for campers and mobile offices

The X-LOW chassis is often used as a base to build campers and mobile offices. The low entry level optimizes comfort and usability because entering and exiting the vehicle becomes really easy.

Because of the modular character of the chassis, multiple customized options can be offered, specifically focused on every customer's needs. Mobile offices are becoming suitable for a variety of purposes and target audiences:

- X mobile police units, -workspaces, -stages and platforms, -fitness areas, -dentists etc..
- X promotional / demonstration vehicles
- X product promotions
- X jury vehicles at events
- X test vehicles

The low chassis optimizes the roadholding of the vehicle and convenience for the driver. This is not only applicable for campers making longer journeys, but also applies to mobile offices relocating.

Both mobile offices and campers are customized and contain special features to meet each individual customer's needs.

We are happy to assist and support in the development of the design of both the chassis as well as the externally built body of the vehicle, to deliver the best product. Quality, customization and customer experience are highly valued at Coxx Mobile Systems.



X-Low chassis for distribution: regular driving license B

The ultralight version of the X-Low chassis is designed to have the highest loading capacity possible, within the range of a regular driving license.

The chassis components are constructed out of high quality Domex® S700MC steel and riveted together to exclude tension in the chassis. This allows the construction of the chassis to be both ultra-strong and ultra-light. Because of the lightweight construction there is more loading capacity for the vehicle within its weight class.

The bearing construction and low weight loading floor contribute to a higher efficiency and most optimal productivity within the scope of a regular driving license (B).

Obviously, this leads to great advantages:

- ✗ no additional heavy truckers license needed
- ✗ no exemptions required for reaching specific locations
- ✗ highest capacity possible within the regular driving license

Even more unique features of the chassis: standard air suspension and universal coupling system to optimize usability and comfort.



Loading floor at 41 cm / 16 inch

Loading volume: more than 30 m3

Loading capacity: up to 1.100 kg

4 different widths

Loading floor length: up to 5,5 meter

Gradient tailboard: 9 degrees

Small wheelarches

X-Low chassis for distribution: truck driving license: C-1

Carry a load up to 4.500 kg with only a C1 driving license? No problem with a Coxix X-Low chassis.

The high-quality Domex® 700 steel used for the innovative design, ensures a low vehicle weight together with an optimal carrying capacity. As a result: a low vehicle weight and maximum net loading capacity.

The low entry level, only 41 cm / 16 inch above floor level, makes entering the vehicle very easy and convenient. No need for a regular tail lift anymore, a low weight tailboard with a gradient of only 9 degrees is sufficient even for heavy materials.

Vehicles up to 5.000 kg GVW are equipped with only a single rear axle. This single rear axle optimizes driving comfort with better manoeuvrability and brings lower maintenances costs because of less brake and tyre wear.

Are you looking for a XL-body? Because of the high loading capacity it is possible to construct the X-Low chassis up to 8 meter in chassis length. This makes the X-Low with 7.490 kg GVW a valuable alternative for heavy 12-ton solutions. Maximum capacity within the scope of the C1 driving license for a low investment and lower costs.

A combination of the X-Low chassis with a **Doublecab** allows you to take up to 6 passengers in your vehicle. Added with 4.000 kg and 43 m³ of maximum payload.



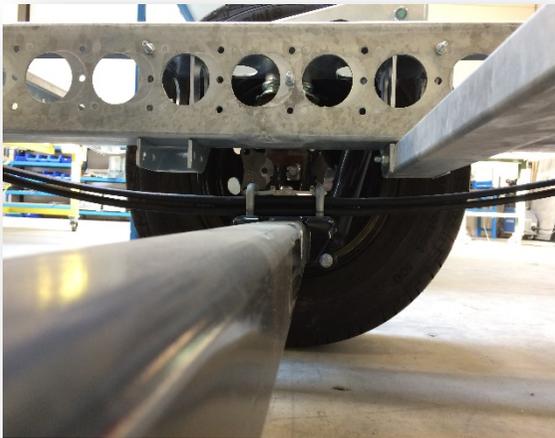
Loading floor	Max Weight	Power
410 mm	7.490 kg	180 Hp
Vehicle length	Max 10m	
Height	Max 4m	
Loading capacity	Up to 4.500kg	



X-Low Economy Line chassis with leaf springs

Are you looking for the advantages of the X:LOW chassis at a competitive price? The X:LOW Economy Line is a basic type of X-Low, with the advantages of a low floor chassis.

Like the X-Low modular, the X-Low economy line is constructed in C-profiles out of riveted high quality Domex® steel.



You can choose between a flat loading floor or a lowered aisle within the chassis beams. In addition it is possible to opt for extra outriggers and crossbeams.

As with the X-Low modular, the X-Low Economy Line offers a variety of options and possibilities in utilization.

One of the special features of the Economy line, contrary to the X-Low modular, is the standard leaf spring. This allows even less weight, adequate delivery times and a competitive price. The axles can be adjusted and there is an option to add coil springs or additional air suspension.



The Fiat Ducato 3.5T or 4.0T Chassis Cabin serves as a base for the X-Low economy line. The chassis is mounted with a fixed coupling system to the cabin, which requires less fittings and less work, which all contributes to even lower weight and less costs.

SIZE		WEIGHT	
Minimum chassis length	4.000 mm	Maximum allowable GVW	4.000 kg
Maximum chassis length	6.000 mm	Maximum pressure front axle	2.100 kg
Width loading floor	2.130 mm	Maximum pressure rear axle	2.300 kg
Width between wheels	1.550 mm	Tare weight cabin and chassis (5.000 mm)	1.690 kg
Width loading floor with extended axle	2.330 mm	Maximum trailer weight	3.000 kg
Width between wheels	1.750 mm		
Maximum wheelbase	4.500 mm		



Shortcab integral cab

The Shortcab is only one single meter long, compared to a regular Ducato cabin with a 2,40 meter length. This allows more space for vending, distribution or promotion. A gain of 1.4 meter net!

Combining an X-Low chassis with a Shortcab cabin optimizes efficiency and optimal use of available space. This makes it a perfect fit for market- and foodtrucks.

In addition, the distinctive appearance of the Shortcab integral cabin perfectly matches the retro look and feel of nowadays foodtrucks.

The Shortcab cabin is directly attached to the body of the vehicle. This allows direct access from the cabin to the load, which optimizes routing. As a result (un)loading can be done faster.

The Shortcab is an in-house developed cabin, based upon a 'naked' Fiat Ducato cabin. The Shortcab cabin is mounted regularly to the Coxk X-Low chassis and can be used in combination with both short and (extra) long chassis.

Because the Shortcab can be used in various purposes. It is an all-round solution for a variety of customers, looking for optimal use of available space for a competitive price and the best usability possible.



Advantages and technical features

The X:LOW chassis is available in several types varying in length, width and loading capacity. All depending on the specific needs and requirements of the end user. The modular construction of the X-Low chassis allows delivery times starting from one week.

Every type of X-Low can be delivered with a height of 250mm or 410mm. This low entry level, combined with the high loading capacity, offers the ideal solution for the transportation of people and goods. The modular construction and flexible sizes make the X-Low chassis all-round suitable for a variety of customers.

The table provides an overview of the specifications per chassis type. Every chassis can be customized and designed to meet specific needs and requirements. We would like to take the opportunity to use our extensive knowledge and experience to advise and provide you with a perfect fit.

Not convinced yet? Find all X:LOW advantages listed below:

Customized and serially produced:

- ✕ Body length from 4,000 up to 8,000 mm
- ✕ 4 option body widths: 2,130, 2,230, 2,330 & 2,430 mm
- ✕ Competitive pricing
- ✕ Wheelbase variable per 10 cm
- ✕ Flat loading floor or lowered aisle
- ✕ Short delivery times
- ✕ Optional cross beams and outriggers

Up to 5.300 kg gross loading capacity (C1)

High quality Domex® 700 steel used in an innovative design allows a low vehicle weight with extra carrying capacity. Max. 5.300 kg for construction, body and load within the scope of driving license C1! Choose the Coxx X-Low with 7.490 kg GVW.

Type	GVW	Engine power	Chassis length	License	Axles
XF 4.2-35	3.500 kg	109/130 Kw – 150/180 HP	3.500 – 5.500 mm	B	2
XR 4.2-35	3.500 kg	109/130 Kw – 150/180 HP	3.500 – 5.500 mm	B	2
XF 4.2-50	5.000 kg	109/130 Kw – 150/180 HP	3.500 – 5.500 mm	C1	2
XR 6.2-60	6.000 kg	109/130 Kw – 150/180 HP	4.000 – 8.000 mm	C1	3
XF 6.2-65	6.500 kg	109/130 Kw – 150/180 HP	4.000 – 8.000 mm	C1	3
XF 6.2-75	7.490 kg	109/130 Kw – 150/180 HP	4.000 – 8.000 mm	C1	3





Ultra-low entry level – 25 cm

Ultra-low entry level

A lowered aisle is available, especially suitable for foodtrucks and salestrucks.

A lowered aisle results in a working height of only 25 cm above ground level. This allows the vendor to stand at almost the same height as his customers. This positively influences customer experience.

Unique coupling system

The unique universal coupling system allows the cabin to be replaced after full depreciation.

Because the cabin is exchangeable and can be replaced, the valuable bodywork can start a second life. This will reflect in exploitation costs.



Unique coupling system

6-wheel laser alignment

Unique for reconstruction: aligning all wheels using Josam® laser-equipment as a standard on every chassis. Resulting in some great advantages:

- ✗ Less tyre wear
- ✗ Less rolling resistance
- ✗ Less consumption
- ✗ Less costs



6-Wheel laser alignment

Low loading floor

Because of the low loading floor at only 41 cm above ground level, it becomes very easy to (un)load. No need for a regular tail lift anymore, a low weight tailboard with a 9 degrees gradient is sufficient - even for heavy materials.

With a small gradient all load can be loaded and unloaded very easily. How convenient.



Low loading floor – 41 cm

Various for front wheel drive vehicles:



Various basic vehicles

- ✗ Engines with up to 180 HP
- ✗ EURO 5+ en EURO 6 available
- ✗ Option CNG
- ✗ Double cab (7 seats)
- ✗ Competitive deluxe option packages
- ✗ Fiat, Renault, Opel and VW are suitable

Air suspension as a standard

The rear axles of the X-Low chassis are equipped with air suspension as a standard. This results in optimized comfort while driving and allows the chassis to lower within seconds.

The air suspension has an Air Drive Control (ADC) system. This ensures stability and the chassis to remain on the correct height while driving.

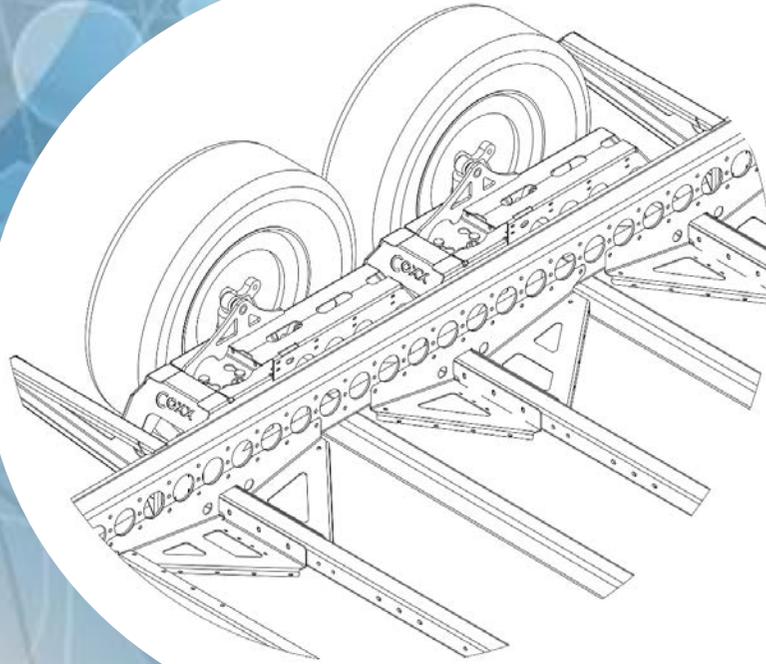


Air suspension as a standard

Technical design

Air suspension as a standard

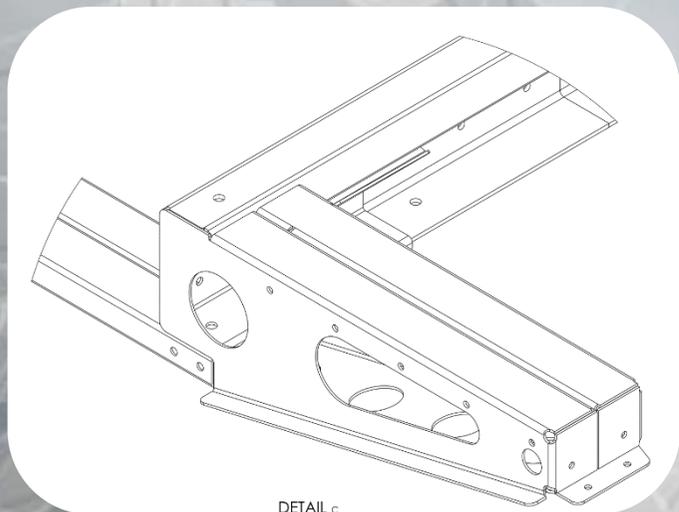
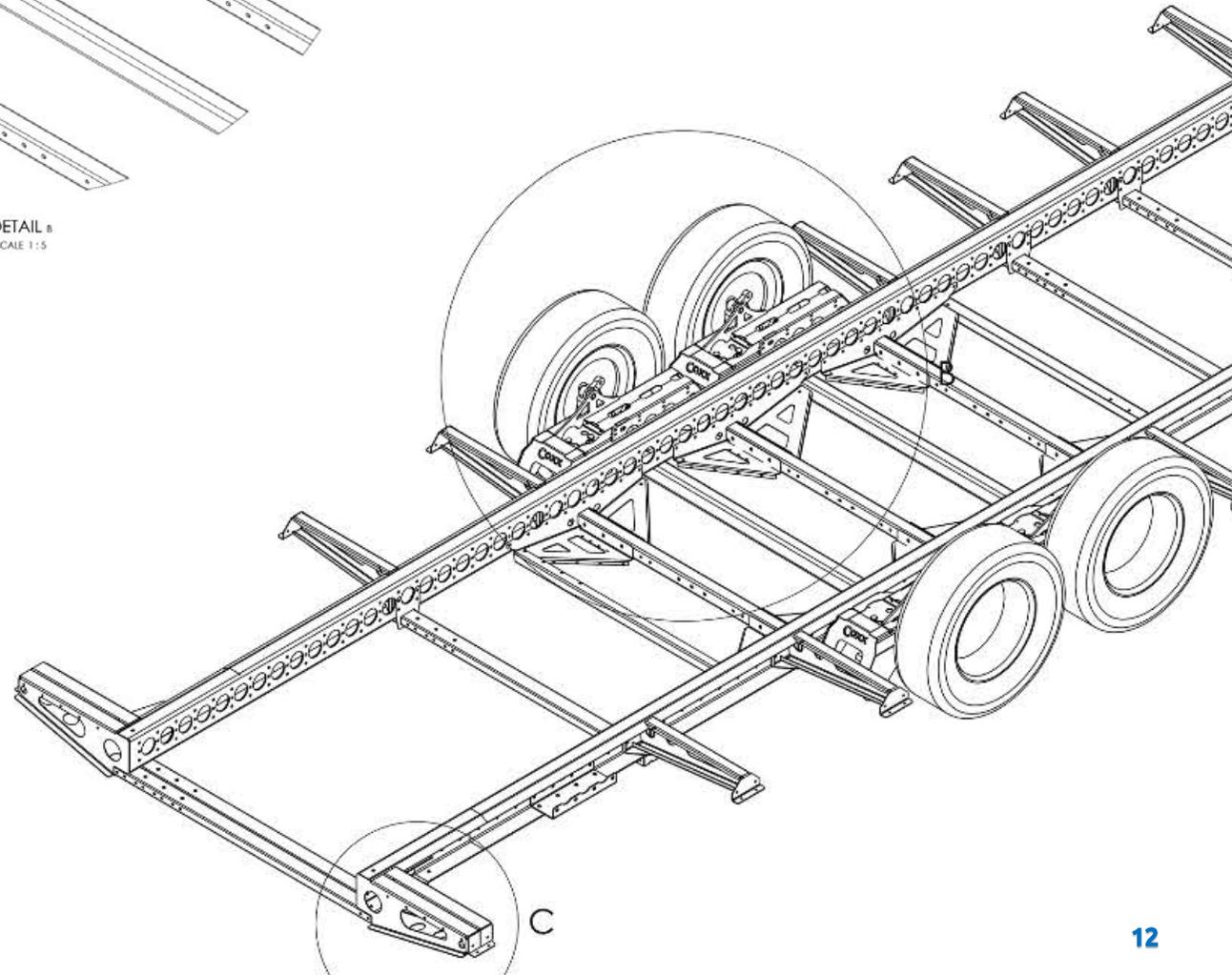
An extra low entry and optimal comfort because of the air suspension with an easy-to-use touchscreen control panel.



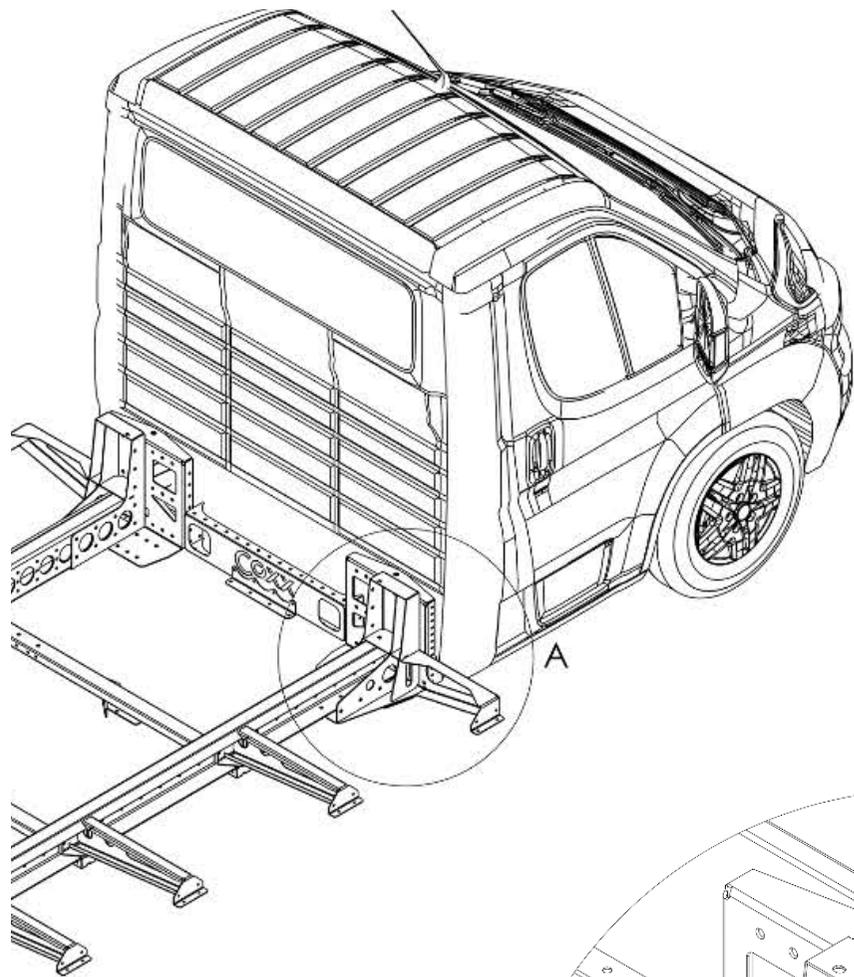
DETAIL b
SCALE 1:5

Low entry level and various sizes

An entry level of only 250 mm above ground level and a loading floor of just 41 cm contribute to the ultimate user experience and convenience. A variety of optional sizes give exactly the volume needed.

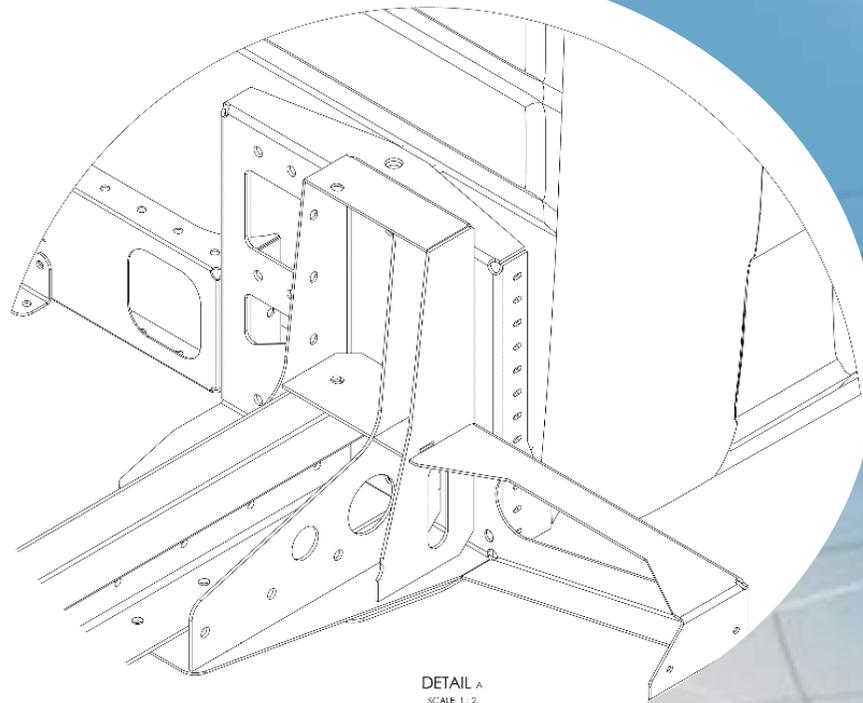


DETAIL c



Smart coupling system for the chassis & cabin

A universal coupling system allows to exchange and replace the cabin very easily. As a result, the valuable chassis can start a second life.



DETAIL A
SCALE 1:2

Modular construction

Various lightweight components can be combined in multiple ways, resulting in the perfect chassis according to all personal needs and requirements. Just like adulatory Meccano.

Air suspension

Easy-to-use



1

Manual control panel



2

One-touch levelling



3

Compact protection



4

The rear axles of the X₂LOW chassis are equipped with air suspension as a standard. This results in optimized comfort while driving and allows the chassis to lower within seconds.

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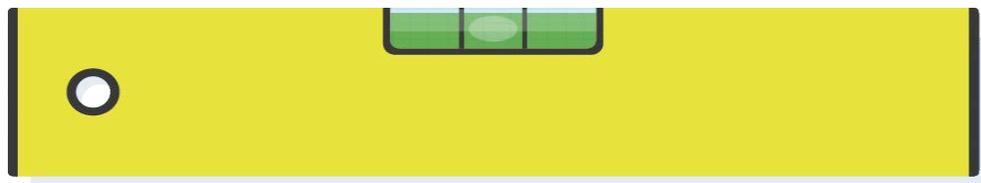


The air suspension is easy to use with the touchscreen controller. This controller works very intuitive, just like a smartphone. It has a memory to save all desired settings regarding driving comfort and vehicle height.

There is an option to add air suspension on the front axles. This is available in a 4 channel system. Air suspension on the front axles adds to driving comfort and optimizes maximum carrying capacity on the front axle.



The manual control panel offers the possibility to lift or lower the vehicle very easily to the preferred height.



The air suspension system is equipped with a single button function to level the vehicle with only one-touch. This function requires the 4 channel system.



The electronics and compressor are mounted in a compact protection covering beneath the chassis to protect against weather influences. An air suspension comes with an air dryer to protect against frost, fixed as standard to prevent the airducts from freezing in the winter period.



Accessories

There are various options and accessories available for the X-LOW chassis, which can also be ordered individually.

Alloy wheels

The chassis are equipped with wheels of steel as a standard. Alloy wheels are optional to upgrade the carrying capacity and reduce the vehicle weight even further.



Heavy duty front axle suspension

The heavier 3-axle chassis are equipped with heavy duty suspension on the front axle. This allows more carrying capacity on the front axle, less bending and a better weight distribution of the load.

The 5.000 kg GVW chassis can be equipped with heavy duty suspension on the front axle, if the weight balance requires is.



Leveling jacks

Leveling jacks are available for the X-Low chassis, to level the vehicle when standing still. The leveling jacks are available in various sizes, different carrying capacities and cylinder strokes. The leveling jacks can be ordered individually.

The leveling jacks have an integrated levelling-system, are easy to use with a controller (included) and/or your smartphone or tablet.



Supporting suspension for Economy Line chassis

Especially for the X-Low Economy Line chassis, there is an optional supporting suspension available, to raise the axle weight capacity on the leaf springs of the rear axles.

This supporting suspension is attached very easily to the leaf springs, preventing the suspension to bend to its maximum. This increases the loading capacity of the chassis.

Fact sheet X-low

	X-Low Economy Line	X-Low XLM Ultralight	X-Low XLM	X-Low XLM
GVW Max	3.500 / 4.000 kg	3.500 / 5.000 kg	3.500 / 5.000 kg	6.500 / 7.450 kg
No. of axles	2	2	2	3
Rear axle load	2.400 kg	2.300 / 2.900 kg	2.300 / 2.900 kg	2.300 / 2.900 kg
Rear axle make	Fiat	Coxx	Coxx	Coxx
Suspension	Leaf springs	Air suspension	Air suspension	Air suspension
	<i>Optional: supporting air- or coilsprings</i>	<i>Optional: air suspension front axle</i>	<i>Optional: air suspension front axle</i>	<i>Optional: air suspension front axle</i>
Chassis width	2.130 mm	2.130 mm	2.130 mm	2.130 mm
		2.230 mm	2.230 mm	2.230 mm
		2.330 mm	2.330 mm	2.330 mm
		2.430 mm	2.430 mm	2.430 mm
Chassis length	Up to 5.500 mm	Up to 5.500 mm	Up to 6.000 mm	Up to 8.000 mm
Chassis height	460 mm	410 mm	410 mm	410 mm
Center entrance	300 mm	250 mm	250 mm	250 mm
Coupling Cab	Fixed	Coxx Coupling system	Coxx Coupling system	Coxx Coupling system
Outriggers	1 per side standard	1 per side standard	On request	On request
Crossbeams	2 standard	2 standard	On request	On request
Material	Domex® 700 MC	Domex® 700 MC	Domex® 700 MC	Domex® 700 MC
Chassis weight	+/- 410kg	+/- 420kg	+/- 470kg	+/- 470kg
Base vehicle	Fiat Ducato 3.5T / 4.0T Heavy Chassis Cabin	Fiat Ducato 3.5T / 4.0T Heavy Chassis Cabin	Fiat Ducato 4.0T Heavy Chassis Cabin	Fiat Ducato 4.0T Heavy Chassis Cabin





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