

# FADIEL ITALIANA

## WHEELCHAIR LIFT LINE



# BP Lift

Operator-operated, electro-hydraulic, double-armed, folding platform lifter with automatic handling.



**DIMENSIONS CONTAINED**

When closed, it has a footprint of only 30 cm, and its minimal outward projection allows it to be installed close to the tailgate.

**WEIGHT REDUCED**

The frame, made of high-strength special steel and the aluminium walking surface provide the structure with robustness and reduced weight (99 kg).

**ANTI-SLIP FLOOR**

The contact surface of the aluminium walking surface is punched, making it robust and non-slip.

**EASY TO USE**

Two pushbutton panels are used to perform the loading and unloading operations. The pushbutton panel is also made entirely by Fadiel Italiana.

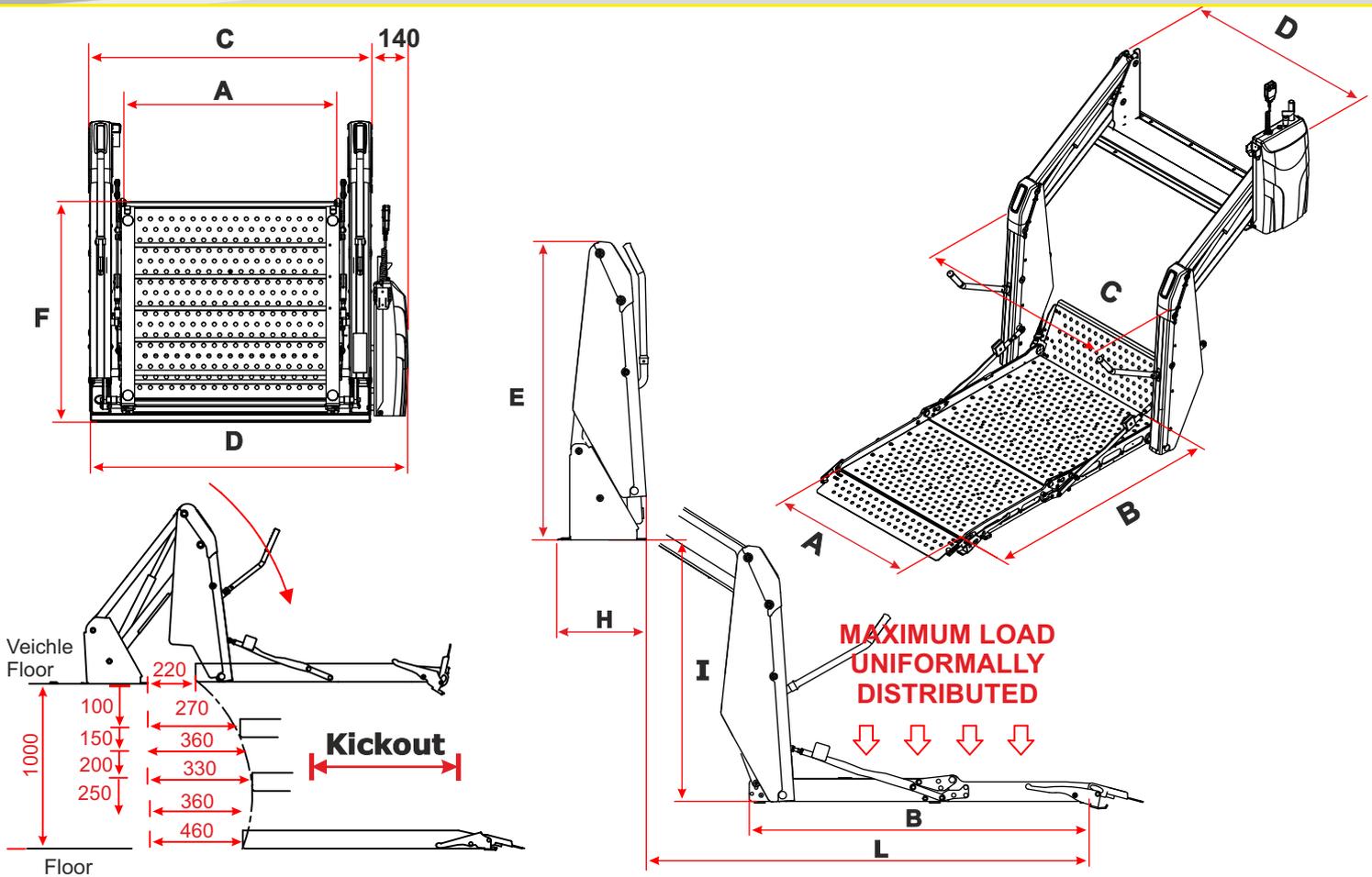
**SAFETY AND RELIABILITY**

The operation of the lifter is guaranteed by an electro-hydraulic system, tested for intensive use. In the event of faults, a manually operated emergency system operation of the lifter is ensured in the event of faults.

**SILENT**

The lifter is equipped with special rubber dampers that make it the most silent in the world when driving.

Power supply = 12v - Pump motor power 0.5 kw  
 Emergency hand pump - Time from closed to the loading bed = 10 sec.  
 Rise time (with 350 kg) from ground to loading bed = 15 sec.



BP	Cod.	Cod. led	Total platform Width	Total platform Length	Outer arms Width	Total Width	Total Height	Total Platform Height	MAXIMUM LOAD	Base depth	Maximum height of lifting	Lifter Footprint on the Ground	Weight Kg
			A	B	C	D	E	F	G	H	I	L	
72x115	106001	106003	720	1150	970	1108	1140	772	350	320	1000	1750	99
80x130	106002	106004	800	1300	1055	1250	1150	815	350	335	1000	1875	106
80x130 SA	106014		800	1300	1055	1250	1150	815	350	335	1000	1875	110

Edge Barrier	M	N	106001-106003 72x115	
			height profile M	90
			106002-106004 80x130	
			height edge N	52
			106014 - 80x130 SA	
			height profile M	120
			106015 - 80x130 SA (led)	
			height edge N	82

# BABY LIFT

Operator-operated, electro-hydraulic, double-armed, folding platform lifter with automatic handling.



**DIMENSIONS CONTAINED**

The smallest in the world, perfect for low-roofed vehicles or vehicles with a small passenger compartment; can be installed on both the rear and side access of the vehicle.

**WEIGHT REDUCED**

Use of high-strength steel and self-tempering aeronautical aluminium, extremely strong and extremely light, weighing less than 85 kg.

**ANTI-SLIP FLOOR**

The contact surface of the aluminium walking surface is punched, making it robust and non-slip.

**EASY TO USE**

Two buttons on the push-button panel perform loading and unloading operations. The push-button panel is also made entirely by Fadiel Italiana.

**SAFETY AND RELIABILITY**

Elegant, with high quality finishing, equipped with acoustic-luminous signals, guaranteeing visibility and extreme safety even in the absence of natural light; halved height allowing a good view from the rear-view mirror; perfectly silent while driving, each component is rubberised to eliminate vibrations and noise.

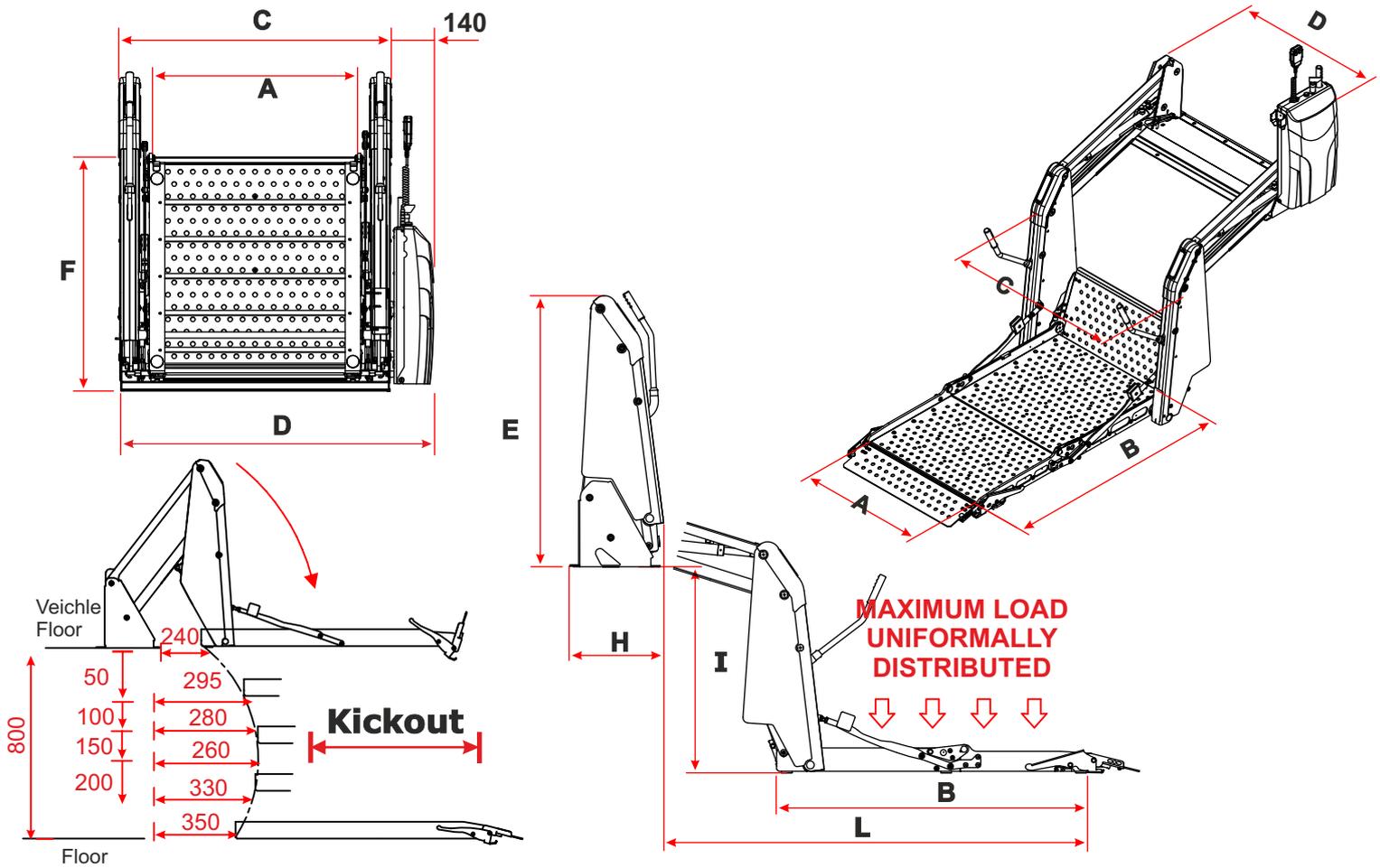
**SILENT**

The lift is equipped with special rubber dampers that make it the most silent in the world when driving.

*Power supply = 12v - Pump motor power 0.5 kw - Emergency hand pump*

*Time from closed to loading bed = 8 sec.*

*Rise time (with 320 kg) from - 760 to the loading platform = 10 sec.*



BABY	Cod.	Cod. led	Total platform Width	Total platform Length	Outer arms Width	Total Width	Total Height	Total Platform Height	MAXIMUM LOAD	Base depth	Maximum height of lifting	Lifter Footprint on the Ground	Weight Kg
			A	B	C	D	E	F	G	H	I	L	
65x100	106009		645	1000	880	1020	1015	675	320	400	800	1670	85
65x115	106005	106006	645	1150	880	1020	1015	750	320	400	800	1820	89
71x115	106011	106012	698	1150	910	1050	1015	750	320	400	800	1820	90
76x115	106007	106008	745	1150	970	1110	1015	750	320	400	800	1820	91

# BI LIFT

**Operator-operated electro-hydraulic double-armed, single platform lifter with automated handling.**



## **BARRIER**

The 80 mm high barrier make the lifter ideal not only for transporting people but also for loading and unloading goods. The maximum load capacity of the BI lift is 350 and 450 kg.

## **SAFETY AND RELIABILITY**

In the event of electrical faults, a manually operated emergency system ensures the basic operation of the lift. The lift resting on the road surface is only 187 cm outside the vehicle.

## **WEIGHT REDUCED**

The frame made of high-strength STRENX special steel and the walking surface made of aluminium, guarantee the structure's robustness and reduced the weight overall of the lift, which is only 106 kg.

## **SILENT**

The lift is equipped with special rubber dampers that make it the quietest in the world when driving.

## **ANTI-SLIP FLOOR**

The contact surface of the aluminium walking surface is punched, making it robust and non-slip, in addition the punching is smaller in diameter to facilitate the sliding of smaller wheels

## **DIMENSIONS CONTAINED**

When closed, it has a footprint of only 35 cm, and its minimal outward projection allows it to be installed close to the tailgate without interfering with the bumper during its movement.

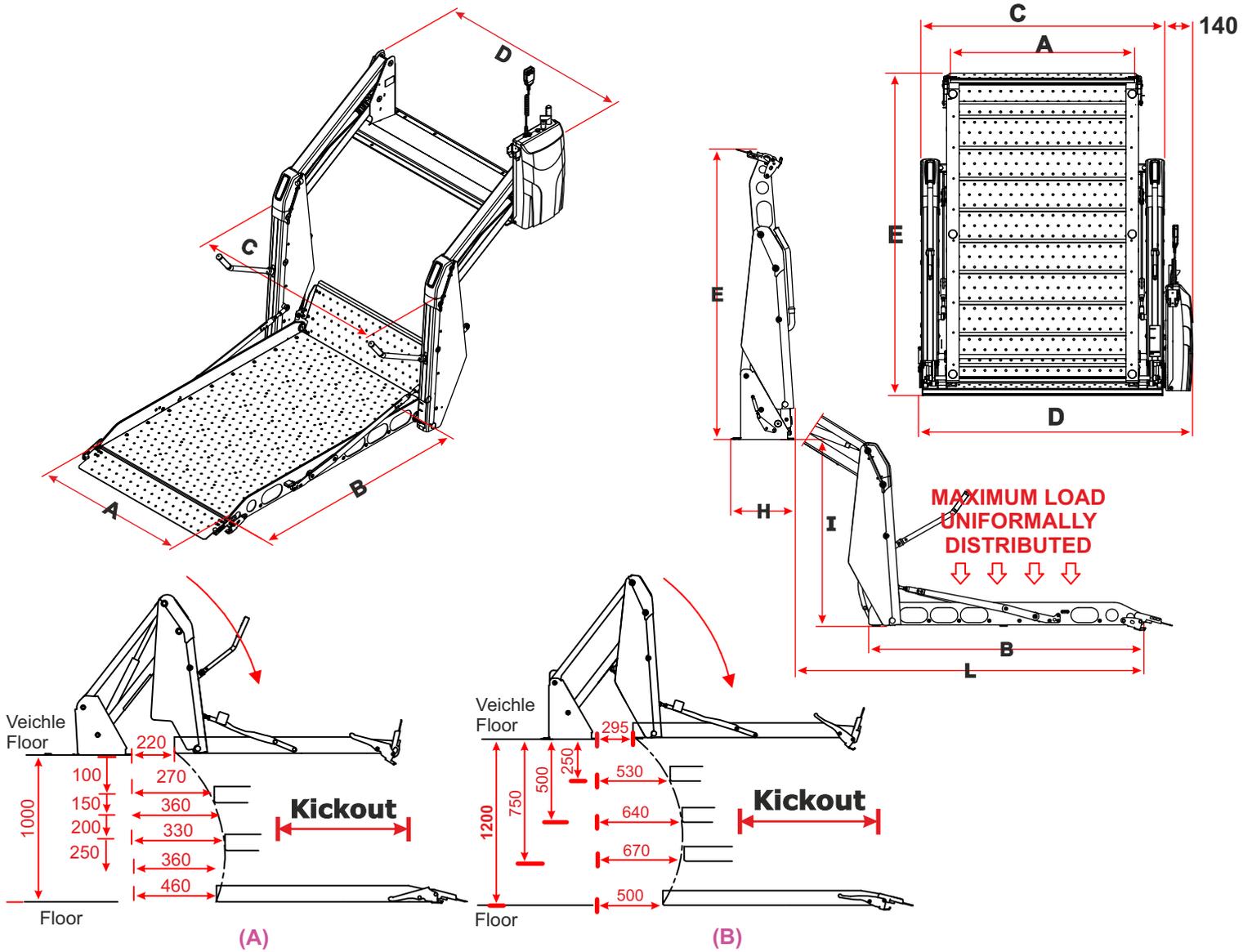
## **EASY TO USE**

Two buttons on the push-button panel perform loading and unloading operations. The push-button panel is also made entirely by Fadiel Italiana.

*Power supply = 12v - Pump motor power 0.5 kw - Manual emergency pump*

*Time from closed to loading bed = 10 sec.*

*Rise time (with 350 kg) from - 1000 to the loading platform = 15 sec.*



BI	Cod.	Cod. led	Total platform Width	Total platform Length	Outer arms Width	Total Width	Total Height		MAXIMUM LOAD	Base depth	Maximum height of lifting	Lifter Footprint on the Ground	Weight Kg
			A	B	C	D	E	F	G	H	I	L	
80x130 (A)	106013		805	1310	1155	1250	1430		350	335	1000	1920	106
90x140 (A)	106018		890	1360	1160	1290	1480		450	335	1000	2010	130
90x140 (B)	106019		890	1360	1160	1290	1480		450	335	1200	2010	132

# OPEN-BABY LIFT

**Operator-operated electro-hydraulic double arm lifter and double flat platform with automated handling, the walking surface has a central cavity with two side lanes to facilitate the pushing of the wheelchair**

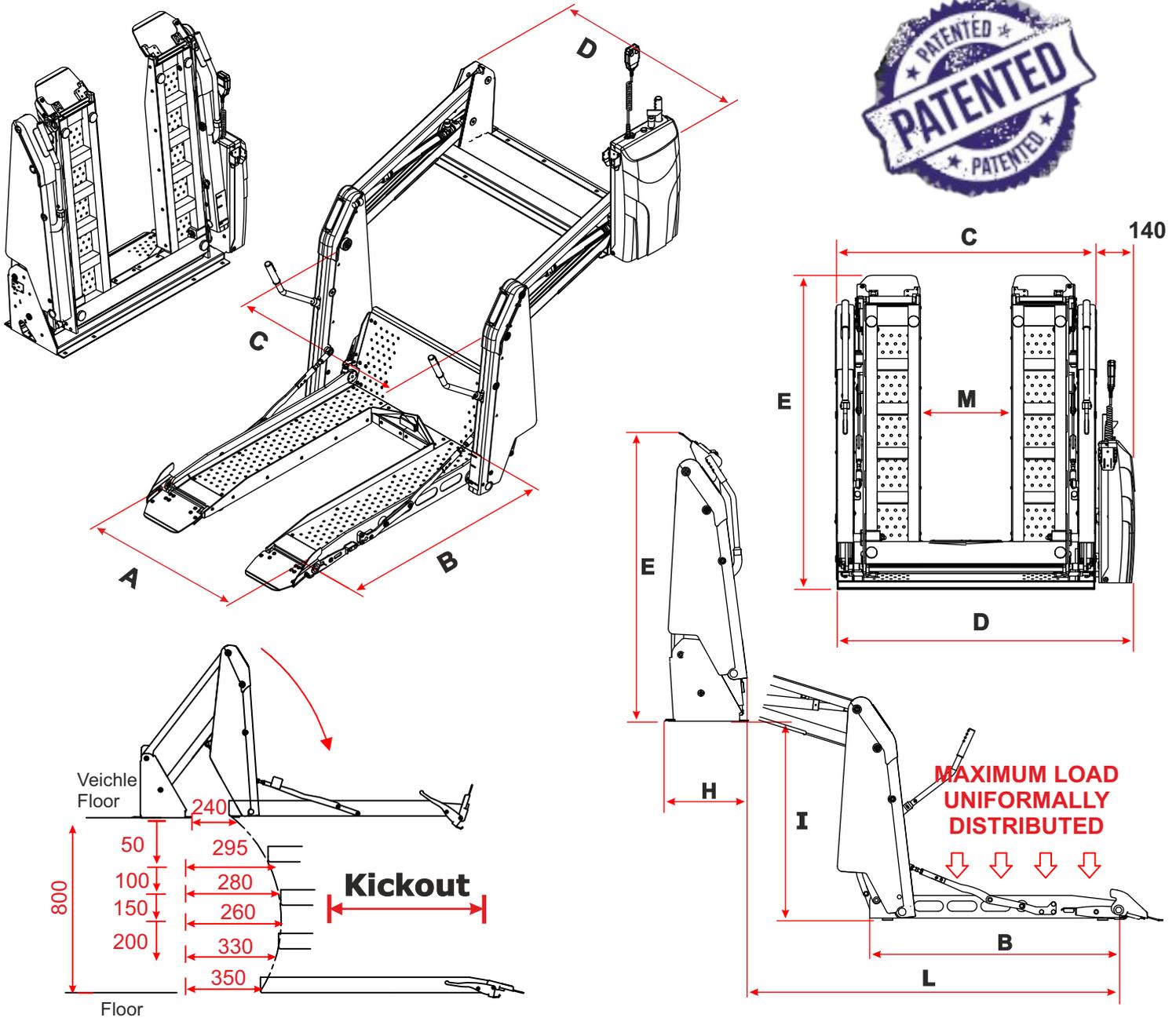


- EASE OF ENTRY** The operator does not have to climb over the lifter to push the wheelchair into the vehicle, but can perform this task simply by walking inside the lifter.
- VISIBILITY** The special design of the lifter allows complete rear visibility looking from the rear view mirror.
- LOADING UNLOADING** Once folded, the lifter allows easy loading and unloading of any object, even large ones.
- ANTI-SLIP FLOOR** The surface of the walking surface, made of aluminium, is characterised by a special non-slip punching. There are no welds, and therefore no brittle points.
- EASY TO USE** Two buttons on the push-button panel perform loading and unloading operations. The push-button panel is also made entirely by Fadiel Italiana.
- DIMENSIONS CONTAINED** Small and compact, can also be installed on low-roof vehicles. The minimal protrusion outwards allows it to be installed close to the tailgate.
- SILENT** The lifter is equipped with special rubber dampers that make it extremely silent while driving.

*Time from closed to loading bed = 8 sec.*

*Descent time (empty), from the loading platform to maximum descent - 770 = 8 sec.*

*Ascent time (with 320 kg), from - 760 to the loading platform = 10 sec.*



OPEN	Cod.	Cod. led	Total platform Width	Total platform Length	Outer arms Width	Total Width	Total Height	MAXIMUM LOAD	Base depth	Maximum height of lifting	Lifter Footprint on the Ground	Central cavity	Weight Kg	
			A	B	C	D	E	F	G	H	I	L	M	
71x94	106016	106017	698	945	920	1050	1200		320	350	800	1620	325	106

# BUTTERFLY LIFT

**Operator-operated, electro-hydraulic, double-arm lifter with openable flat platform with automatic handling.**



The product has numerous innovations compared to similar products on the market, such as the closure between the two walking surfaces with a C-shaped support, a feature that prevents the walking surfaces from separating once they are closed and aligned.

**INNOVATIVE**

Another huge innovation is the presence on the two walking surfaces of pistons with compensation springs (patented), which allow the perfect alignment of the two floors even in the presence of irregular surfaces.

**VISIBILITY**

The special design of the lifter allows the complete rear visibility looking from the rear view mirror.

**LOADING UNLOADING**

Once folded, the lifter allows easy loading and unloading operations of any object, even large ones.

**ANTI-SLIP FLOOR**

The walking surface is made of punched aluminium, which makes it robust, without welding points and with excellent grip.

**EASY TO USE**

Two buttons on the push-button panel perform loading and unloading operations. The push-button panel is also made entirely by Fadiel Italiana.

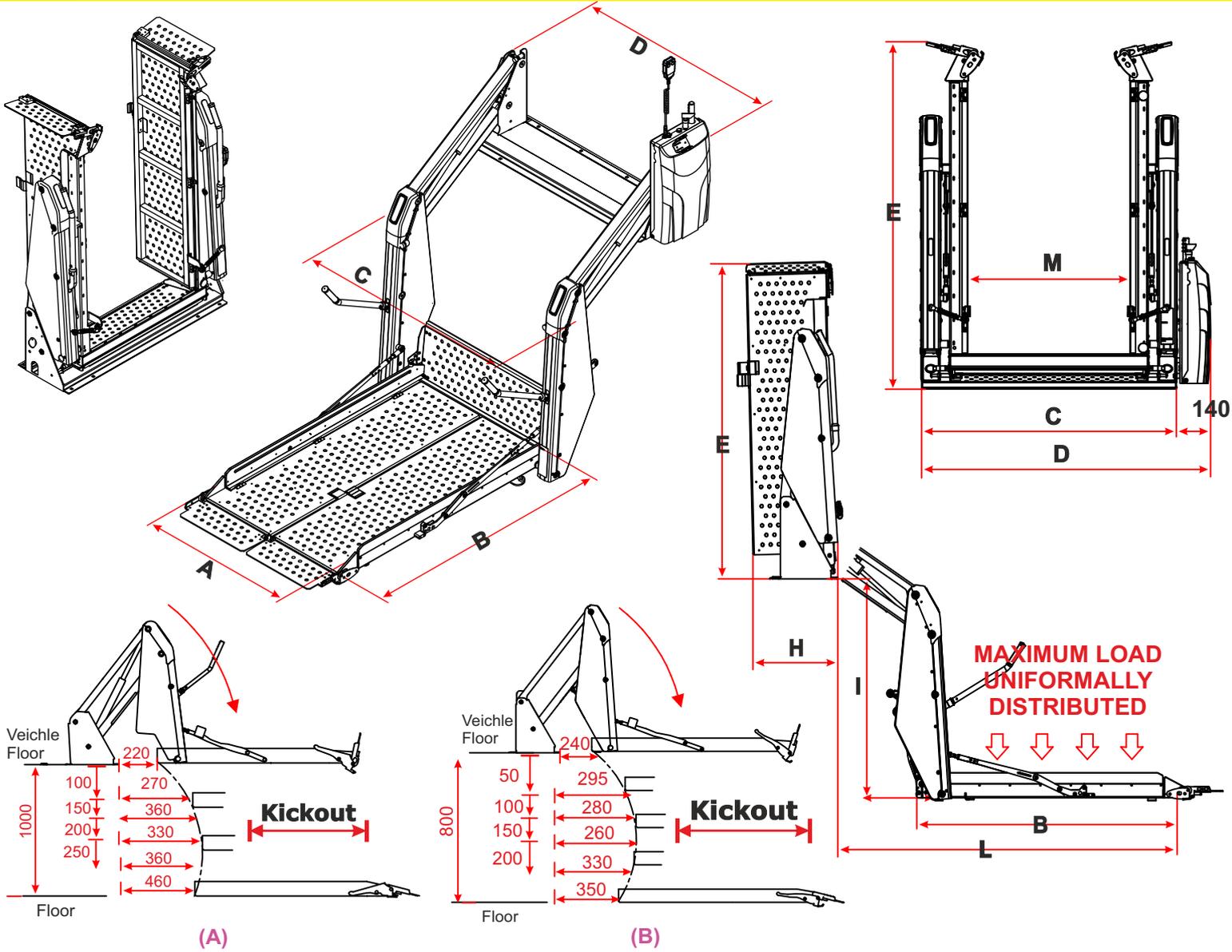
**SILENT**

The lifter is equipped with special rubber dampers that make it even more silent while driving.

*Time from closed to loading bed - (8 sec)*

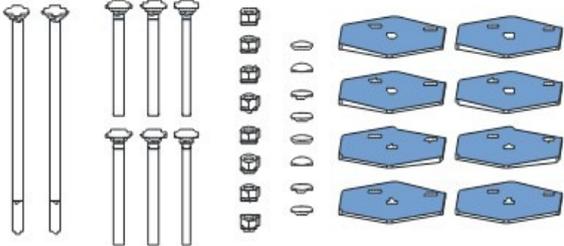
*Descent time (empty) from the loading bed to maximum descent - (H=800 - 8 sec) - (H=1000 - 10 sec)*

*Ascent time (with 300 kg) (from H=800 to the loading platform = 10 sec) - (from H=1000 to the loading platform = 12 sec)*



Butterfly	Cod.	Cod. led	Total platform Width	Total platform Length	Outer arms Width	Total Width	Total Height	F	MAXIMUM LOAD	Base depth	Maximum height of lifting	Lifter Footprint on the Ground	Central cavity	Weight Kg
			A	B	C	D	E		G	H	I	L	M	
80X130 (A)	106020	106021	800	1300	1050	1050	1450		350	450	1000	1720	670	129
76X105 (B)	106022	106023	760	1050	970	1110	1170		350	430	800	1530	930	109
66X96 (B)	106024	106025	660	960	870	1010	1090		350	420	800	1440	530	90

# Lifter Accessories

	DESCRIPTION	CODE
	<p>Wireless 2-button pushbutton panel kit</p> <p>To be ordered together with the device, supplied already installed</p>	<p>106603</p>
	<p>Wireless 4-button pushbutton panel kit</p> <p>To be ordered in the case of an existing device</p>	<p>015010</p>
	<p>Lifter attachment kit</p>	<p>106604</p>

## CONSTRUCTION DETAILS OF FADIEL LIFTERS

### Reduced weight

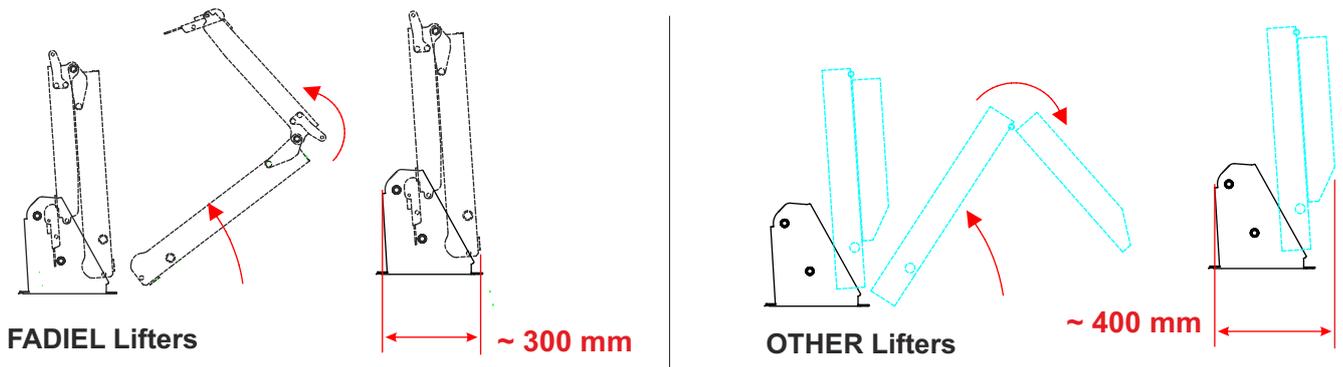
The frame of the lift is made of high-strength 'STRENX' steel, which guarantees the structure's **robustness**; the walking surface is made of **aluminium** with **punching**, which guarantees an optimal grip.

The combination of steel and aluminium makes the structure light but at the same time strong and reliable

For more information about this special steel, see page 17



### Smallest footprint

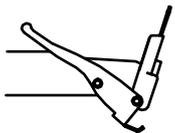


The special **FADIEL** locking system with **inward folding** of the footplates **reduces the thickness** of the lift by approximately 10 cm compared to lifts with the footrest folding outwards.

This allows the lift to be positioned closer to the vehicle door and optimises the passage of the platform over the rear bumper.

### Ground support of the feet

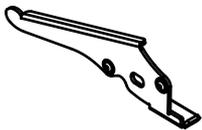
The movement of the entry platform is connected to the ground support feet



INPUT FOOT raised (safety form) during movement



FOOT resting on the ground, footplate lowered for entry/exit manoeuvres



UNIQUE FADIEL FEET made of metal, robust, impact-resistant and wear-resistant



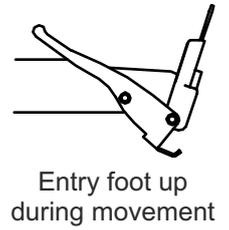
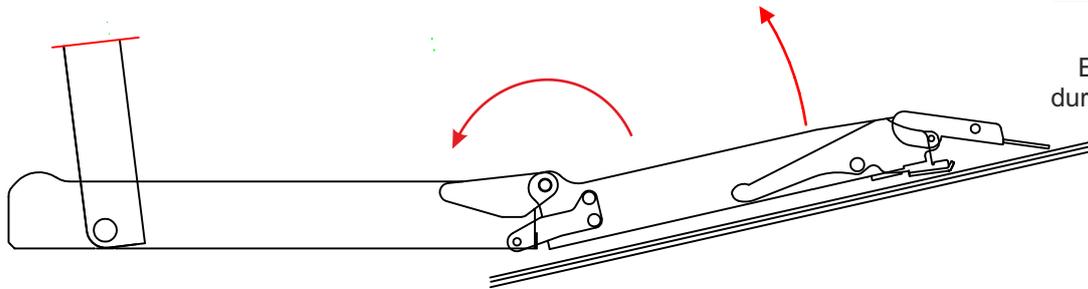
**CAUTION:**

In the event of irregular ground, if the feet doesn't touch the ground, for safety reasons the entrance platform will not open, which means that the access to the lift platform will not be possible.

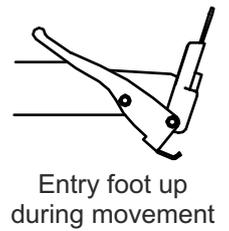
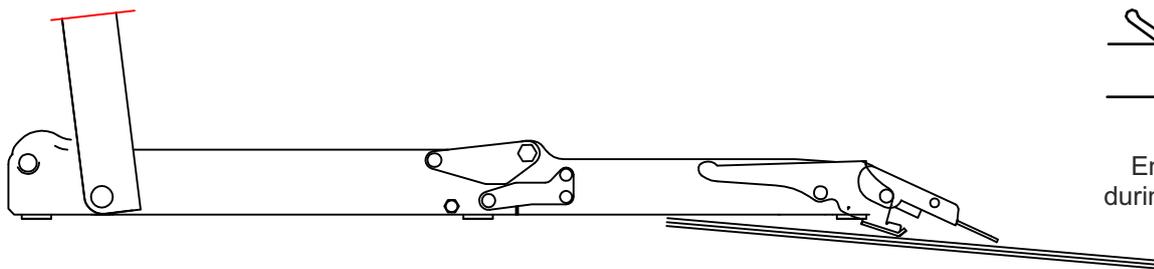
This feature of use where the ground surface must allow the feet to be rested for lowering the entrance platform is present on all FADIEL lifts

**Adaptability of the lifter platform to the floor surface facing uphill and downhill**

The FADIEL lifter, thanks to its special opening and rolling closure, allows the entrance platform to be opened even on uphill terrain



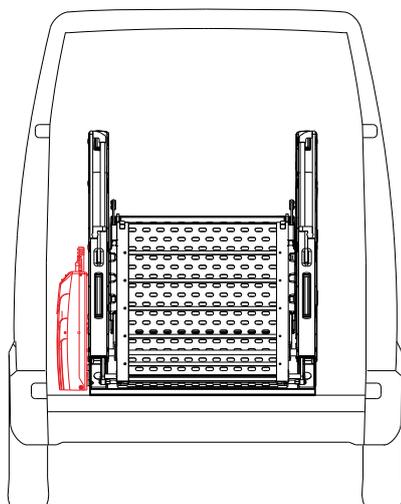
The FADIEL lifter also allows the entrance platform to be opened on downhill terrain because the special feet allow the opening process even with light pressure



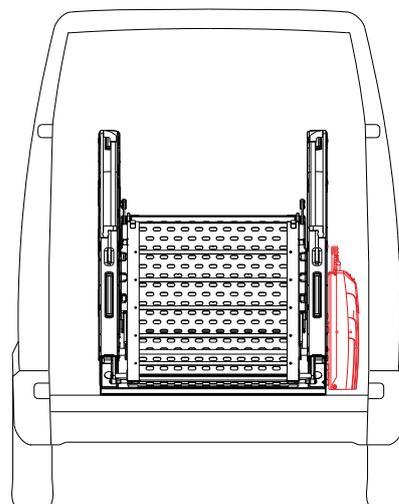
It is possible to order the motor on either the left or right side.

**The position of the motor (right or left) must be communicated at the time of the order, no changes can be made afterwards**

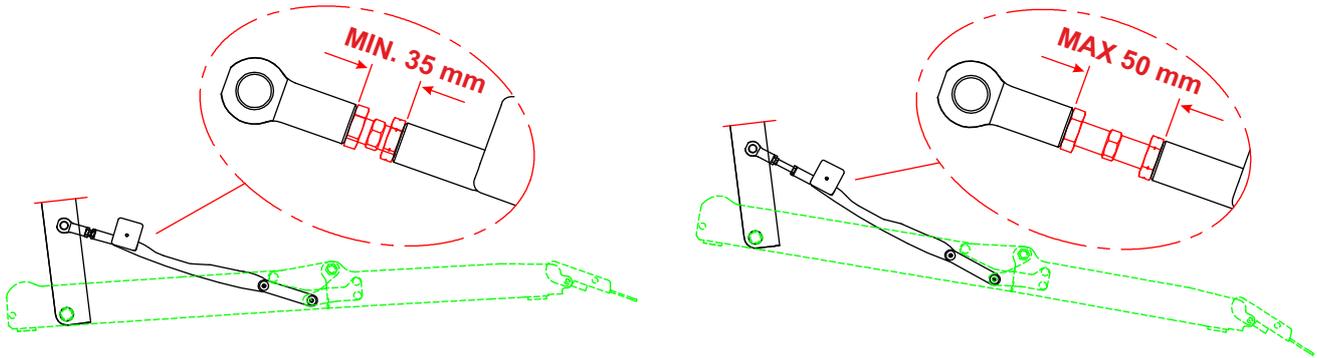
Lift installed with motor on the **LEFT SIDE**



Lift installed with motor on the **RIGHT SIDE**



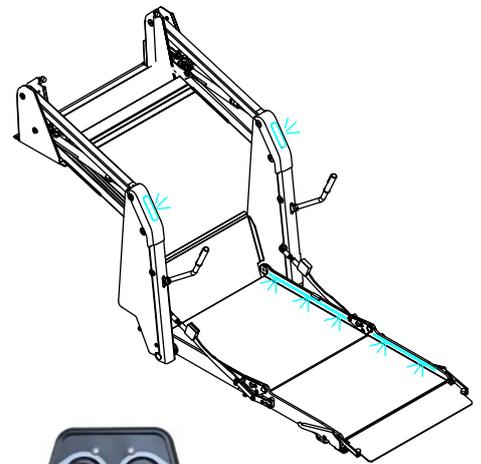
**Adjusting the lift footplate**



After attaching the lift to the vehicle floor, the platform can be adjusted as required.

**Signal lights**

On request, intermittent yellow LED lights can be fitted on the upper arms to make the lifter more visible, and LED lights on the sides of the walking surface to illuminate the climbing area



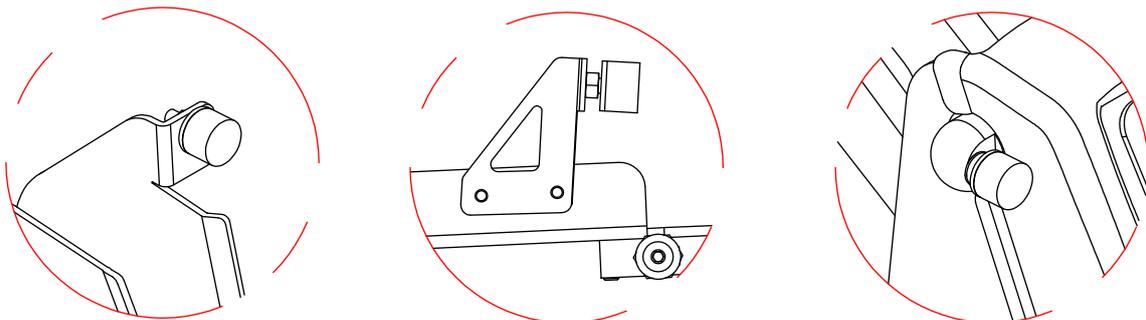
**Push-button panel**

The lifter's control panel is ergonomically shaped, robust and lightweight with only 2 buttons to simplify the use of the device, it can be supplied wired (A) or with radio control (wireless) (B), with buttons or waterproof membrane (Ip54)



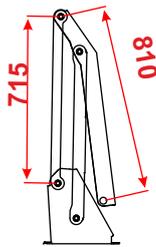
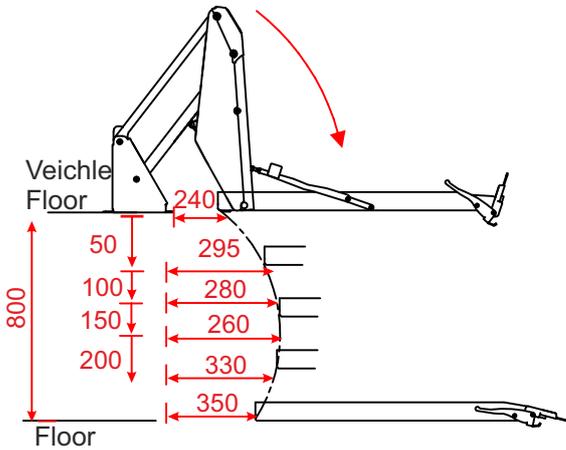
**Anti-vibration rubbers**

The lifter is equipped with special anti-vibration rubbers placed in the supports of the moving parts, which make it extremely quiet both during operation and when closed while driving the vehicle

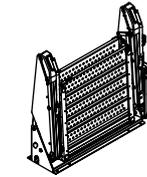


**KICKOUT LIFTER LIST**

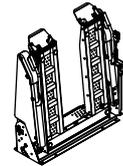
See from the attached drawing the kickout measurements of the lift out referring to the outermost rear part of the platform, to establish the positioning of the lift inside the vehicle to avoid a possible collision with the rear bumper



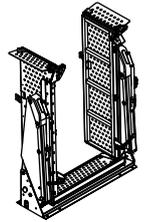
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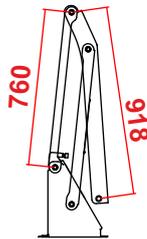
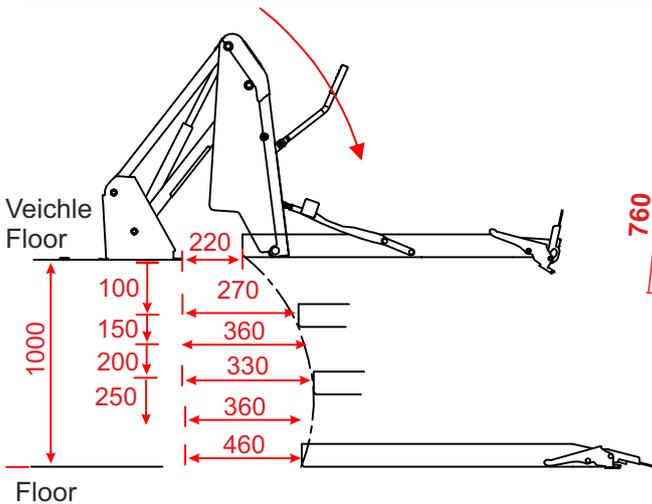
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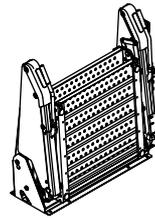
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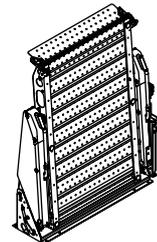
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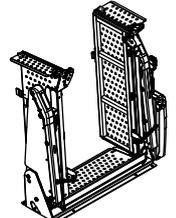
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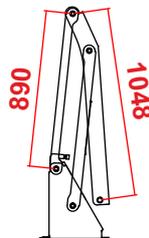
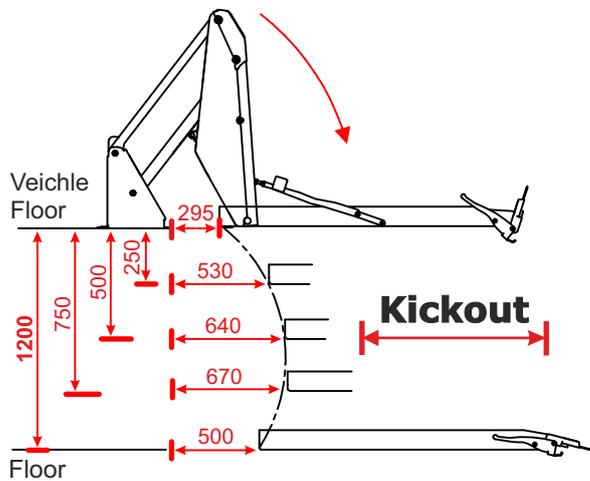
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STRENX® STEEL

**Fadiel Italiana** has always been a guarantee of quality in innovation; over the years, in fact, the constant search for the highest quality, results has led our company to identify and choose increasingly performing materials, in order to achieve excellence of all products. This is the reason for choosing **Strenx® steel** from the Swedish company **SSAB**, for our wheelchair lifts.

**SSAB** is the world's most experienced manufacturer of high-strength tempered steels. In the wheelchair lift sector, **SSAB** was the first steel mill to offer ultra high-strength cold-rolled structural materials. These steels, with dimensions even less than 2 mm thick, boast exceptional mechanical properties due to the purity of the material and extremely accurate production processes. It is precisely the extreme purity, low alloy solution and the high quality manufacturing processes of **Strenx® steel** are the secret to obtaining an alloy with high hardness, extreme strength and excellent performance even at below zero temperatures. Cold rolling provides exceptional characteristics because the low surface roughness, combined with the extreme purity that characterises all **Strenx® steels**, creates the best conditions for high resistance to cyclic loads, such as those of a wheelchair lift. **Since Strenx® steel** is stronger than ordinary steel, it can be used in thinner dimensions and therefore create lighter structures. This type of steel is therefore represent the safe choice for robust and lightweight structures, designed to operate in any type of environment. Thanks to its unique combination of strength, hardness, compactness and weldability, it exceeds the most demanding classification standards. The high resistance to low temperatures guarantees the highest possible level of safety even in the most critical uses and in the most difficult environments. **Fadiel Italiana's challenge** was to design and build a lift, with a steel structure and aluminium decking, which was extremely robust but at the same time the most compact and lightest in the world.

**The high-strength structural Strenx® steel** was the answer to this challenge. The result is here, for all to see today, a lifting device with very high resistance, with a high finishes and above all a **total weight of less than 92 kg**, a feature that not only benefits the technician during installation, but above all the customer who will have lower consumption of tyres and shock absorbers, as well as less noise while driving. It is with great pride that today we can now boast of being recognised by **SSAB** company as an Italian excellence for the use of their special steels, and to have become official members of **My Inner Strenx**, with the authorisation to apply the identification sticker of this type of steel on our lifters. Being admitted as a member means that we have been assessed and approved by **SSAB** after numerous inspections and strict quality checks.

The **My Inner Strenx** label on our lifts is a certificate of **quality and performance**. The label certifies to customers that the product has been built to be strong and light, made of **Strenx® structural steel** and high-strength aluminium, in accordance with the design and specifications of the **SSAB** material.



# FADIEL ITALIANA

