



Ming Ao Technology

for your independence



Shandong Mingao Automobile Technology Co., Ltd.

Phone:400-833-6602

Email:Jonfeng@mingao.top

Website: www.mingao.top

Address: No. 8888, Zhuoda Industrial Park, the intersection of Chang jiang East Road and Fanyang Road, Dingtao District, Heze City, Shandong Province



Welcab product brochure

We understand the challenges people with reduced mobility face when traveling and help them overcome daily obstacles and achieve as much independence as possible while driving. Make driving a safe and enjoyable experience and create a freer travel environment for them.

Contents

Company profile

Why choose Ming Ao

01 Mechanical detachable wheelchair

- 07/08 MA-SRL-MRSM Separate manual seat(Ultimate Design)
- 09/10 MA-SRL-MRSE Separate electric seat(Ultimate Design)
- 11/12 MA-SRL-MRS Separate mechanical lift and rotation mechanism(Ultimate Design)
- 13/14 MA-SRL-MM Separate manual seat
- 15/16 MA-SRL-ME Separate electric seat
- 17/18 MA-SRL-MM Separate manual seat
- 19/20 MA-SRL-ME Separate electric seat
- 21/22 MA-SRL-M Separate mechanical lift and rotation mechanism

02 Hydraulic detachable wheelchair

- 25/26 MA-SRLH-WM Separate hydraulic manual seat
- 27/28 MA-SRLH-WE Separate hydraulic electric seat
- 29/30 MA-RL-H Separated hydraulic lift and rotation mechanism

03 Mechanical rotating lifting seat

- 33/34 MA-RL-MRS Mechanical lift and swivel seat(Ultimate Design)
- 35/36 MA-RL-M Mechanical lift and swivel seat
- 37/38 MA-WHCH-12/24IN Docking a wheelchair
- 39/40 MA-RT-M Small car owner and co-pilot rotating extension mechanism (manual)
- 41/42 MA-RT-E Small car owner and co-pilot rotating extension mechanism (electric)

04 Wheelchair car lifts

- 45/46 MA-WLLP-AHF Horizontal foldable wheelchair lift platform
- 47/48 MA-WLLP-AVF Vertical folding wheelchair lift platform
- 49/50 MA-WLLP-ELI110A Semi-automatic wheelchair lift
- 51/52 MA-WLLP-ELI960 Vehicle rear wheelchair lifting platform
- 53/54 MA-WLLP-ESIF6 Ultra-thin box wheelchair lifting platform
- 55/56 MA-WLLP-ESIF6(PRO) Ultra-thin box wheelchair lifting platform
- 57/58 MA-WLLPEB1400A Concealed wheelchair lifting platform for small buses
- 59/60 MA-WLLP-EBF12 Bus wheelchair lift platform

05 Wheelchair storage robotic arm

- 63/64 WA-WROBOT-F Flip-type wheelchair storage robotic arm
- 65/66 WA-WROBOT-U Upright wheelchair storage robotic arm

06 Manual folding guide plate

- 69/70 MA-FG-3M Tri-fold guide plate

07 Wheelchair fixing device

- 73/74 MA-DF-600 Disc fixed



Ming Ao Technology

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Company profile

Shandong Mingao Automotive Technology Co., Ltd. was established in 2015. After years of development, it has developed into a professional domestic manufacturer of R&D, production and sales of vehicle-mounted welfare products. We mainly provide welfare products such as welfare wheelchairs, welfare seats, wheelchair boarding guides, wheelchair lifts, wheelchair roof storage devices, wheelchair fixation devices, and car driving assistance devices for disabled people.

By building a highly specialized team and advanced technical equipment, we continue to accumulate technical strength and comprehensively improve product quality. Taking customer needs as the core of service, we focus on creating welfare products that satisfy customers. So far, we have provided professional vehicle modification services for commercial vehicles, large SUVs, off-road vehicles and other welfare vehicles to thousands of domestic and foreign private and institutional users. With our excellent welfare products and perfect after-sales service, we have won wide recognition and praise in the welfare vehicle modification market at home and abroad.

Adhering to a distinct corporate philosophy, we drive the market with technology and highlight our brand features with excellent service. With multiple product patents and passing 3C national compulsory safety certification, EU CE certification and international ISO quality system certification, we are committed to providing one-stop customized modification services for welfare vehicles.

WE ARE HERE TO HELP

QUALITY IS OUR MOST

COMPANY CULTURE

CORPORATE PURPOSES

Create a barrier-free world so that everyone with mobility impairments can travel freely

BUSINESS PRINCIPLES

Taking customer value and social responsibility as the core, pursuing excellence, innovation and sustainable

QUALITY POLICY

Strict standards and leading technology, pursuing product perfection; providing customers with excellent and safe

CORPORATE VISION

Become the world's leading innovation leader and be committed to continuing to promote industry developmentsolutions

WHY CHOOSE MING AO

01 TECHNICAL ADVANTAGES

Adopting innovative technology, safe and reliable, customizable solutions



05 PATENT ADVANTAGES

Unique technological innovation and unique product features



03 INSTALLATION ADVANTAGES

Provide professional technical team, on-site installation and remote technical services



02 GEOGRAPHICAL ADVANTAGE

Located at the intersection of the four provinces of Shandong, Suzhou, Henan and Anhui, it has convenient transportation



06 SERVICE ADVANTAGE

Instant response, committed to providing users with a worry-free product experience



04 PROFESSIONAL ADVANTAGES

Advanced technology provides users with leading-level user experience and value



关爱
Care for vulnerable groups

SERVICE HOTLINE: 400-833-6602

CAN DO IT FOR YOU

Customized car

Quality Assurance

Door-to-door installation

After-sales improvement

Door-to-door service is available. Free modification plan service process:

- 1 Free telephone consultation
- 2 Choose welfare products
- 3 Customized vehicle modification solutions
- 4 Arrange for technicians to come to your door
- 5 Continuous after-sales tracking service



01

MECHANICAL DETACHABLE WHEELCHAIR

We focus on providing welfare vehicles based on business models for special groups. The welfare seats equipped allow people with mobility impairments to realize electric entry and exit of the seats through remote control operation buttons. The specific mechanism includes the mechanical mechanism turning to the preset position, unfolding and extending forward, pushing the seat out of the car, slowly lowering the height of the seat and the ground, unfolding the rear wheels of the seat, and finally releasing the connection with the seat to complete the wheelchair. The separation from the mechanism allows the seat to be used independently as a wheelchair. This design effectively solves the problem of people with disabilities and people with reduced legs and feet getting on and off the vehicle. Through the electric function of the welfare seat, it provides a more convenient way of travel for people with reduced mobility, getting rid of the traditional trouble of relying on support.

MA-SRL-MRSM (Ultimate Design)

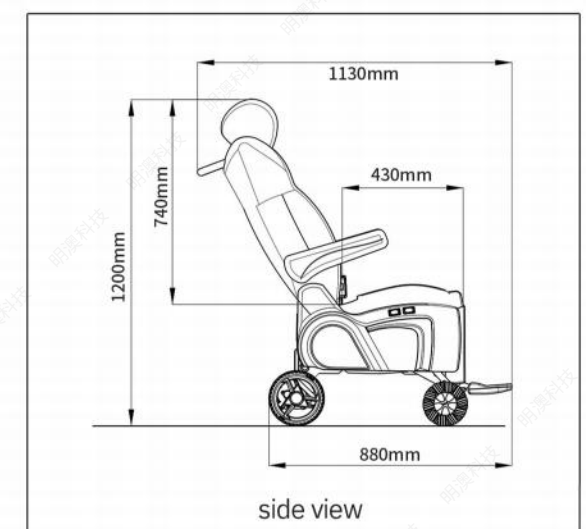
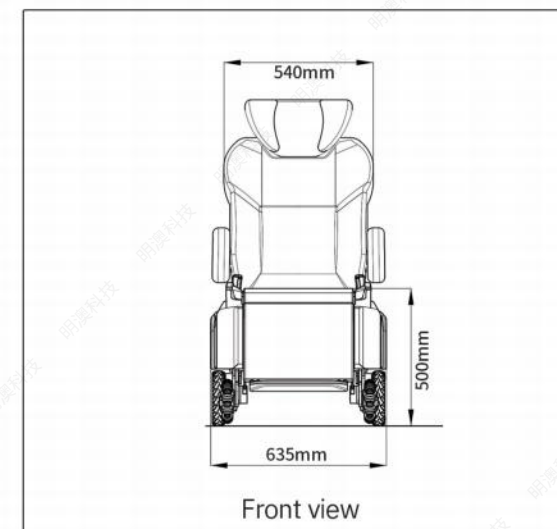


Separate manual seat



Features

- The wheelchair upgrade has ventilation, heating, massage, electric leg rest, and electric backrest functions
- It also has a handheld remote control switch and mobile phone Bluetooth wireless remote control
- The headrest/armrest can be adjusted up and down, and the backrest can be adjusted forward and backward.
- The front wheel uses Meconum wheels, which can turn the direction on the spot.
- Leather color and stitching can be customized
- Two-way foldable pedals, flexible and convenient
- The rotation path, backrest angle, and descent stroke can be programmed according to actual conditions



MA-SRL-MRS It is a manually detachable mechanical lifting and rotating seat. It is suitable for middle-row passengers in commercial vehicles (MPV). The seat can be rotated out of the vehicle and lowered in height. After the seat is separated from the mechanism, it can be converted to move on the ground. The wheelchair eliminates the need for cumbersome secondary transfer operations and provides a more flexible way to travel.

MA-SRL-MRSM Product parameters

- Maximum lowering height 490mm
- Loading weight: 150KG
- Rotation angle: 0-110°
- Working voltage: 24V dc

MA-SRL-MRSE (Ultimate Design)

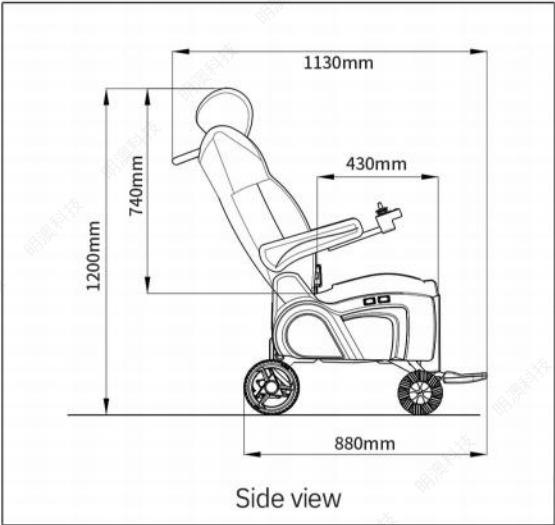
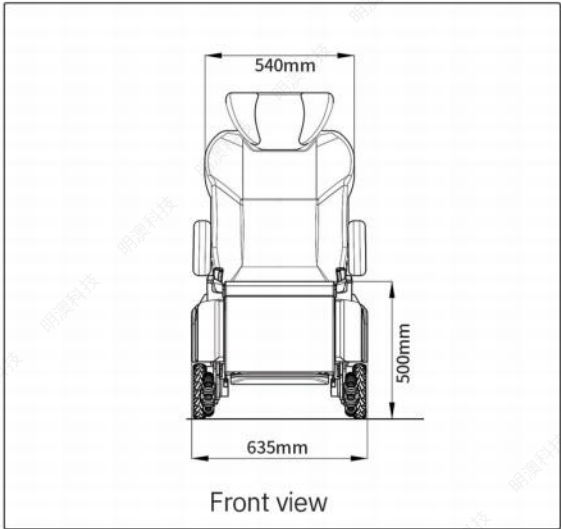


Separate electric seat



Features

- The wheelchair upgrade has ventilation, heating, massage, electric leg rest, electric backrest, and lighting functions
- The headrest/armrest can be adjusted up and down, and the backrest can be adjusted forward and backward.
- The front wheel uses Meconum wheels, which can turn the direction on the spot.
- Leather color and stitching can be customized
- It also has a handheld remote control switch and mobile phone Bluetooth wireless remote control
- The rotation path, backrest angle, and descent stroke can be programmed according to actual conditions
- Joystick operated wheelchair direction



MA-SRL-MRSE It is an electric detachable mechanical lifting and rotating seat, suitable for the middle row of commercial vehicles (MPV). The user can rotate the seat out of the car and lower the height. After the seat is separated from the mechanism, it can be converted to sit on the ground. An electric mobile wheelchair, by controlling the handle of the electric wheelchair, the user can move freely without the assistance of others. At the same time, it provides them with an independent and free travel experience, allowing them to easily participate in hiking and traveling.

MA-SRL-MRSE Product parameters

- Maximum lowering height 490mm
- Loading weight: 150KG
- Rotation angle: 0-110°
- Working voltage: 12V dc
- Wheelchair speed: 6km/h
- Continuous cruising range 20km
- Electric wheelchair voltage: 24V dc
- Electric wheelchair weight: 67.5Kg

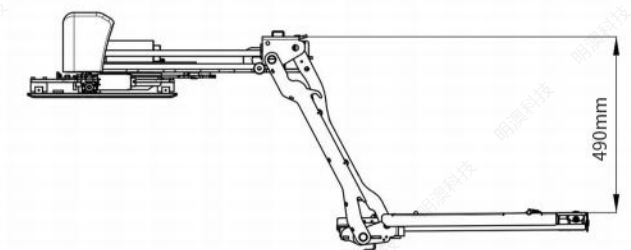
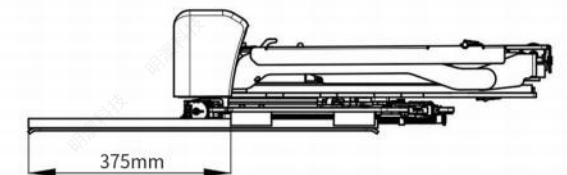
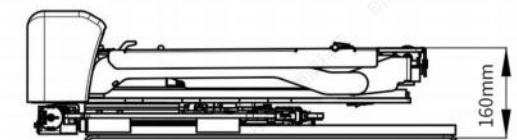
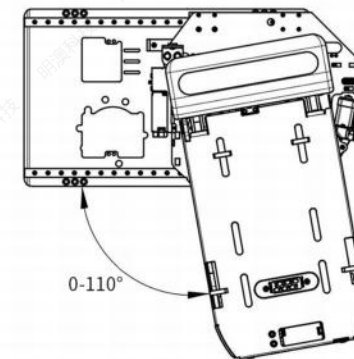
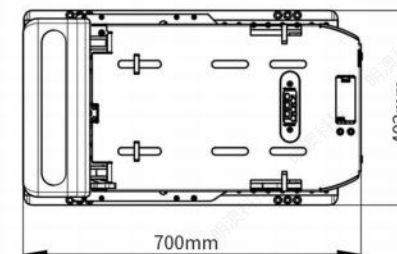
MA-SRL-MRS (Ultimate Design)

Separate mechanical lift and rotation mechanism



Features

- Manual emergency function: emergency manual retraction
- Programmable rotation path, backrest angle, and descending stroke
- Hand-held switch for control
- With anti-pinch and stop function
- Fault code display, human-computer interaction
- Sensor needle measurement height at lowered position
- It also has a handheld remote control switch and a mobile phone Bluetooth wireless remote control



MA-SRL-MRS It is used for manual and electric models of separate mechanical lifting and rotating seats. The front and rear movement stroke, rotation angle and lifting height of the seat can be set through secondary programming. After the program setting is completed, it can run automatically. All actions are controlled through the newly upgraded handheld handle.

MA-SRL-MRS Product parameters

Loading weight: 150KG
Rotation angle: 0-110°
Working voltage: 24V dc
Rated power: 240W
Maximum lowering height 490mm,
one working cycle for 2 minutes
Mechanical weight: 75kg

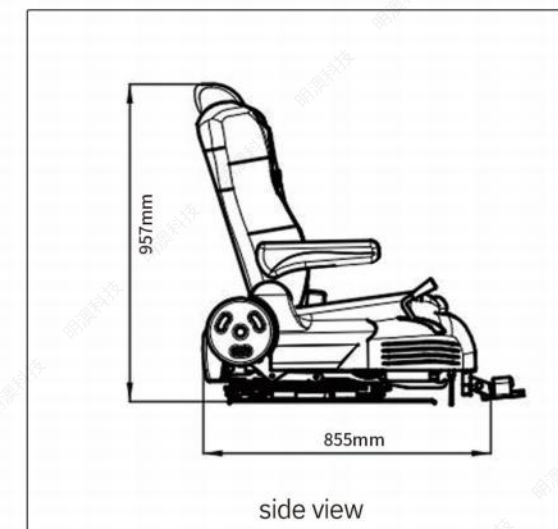
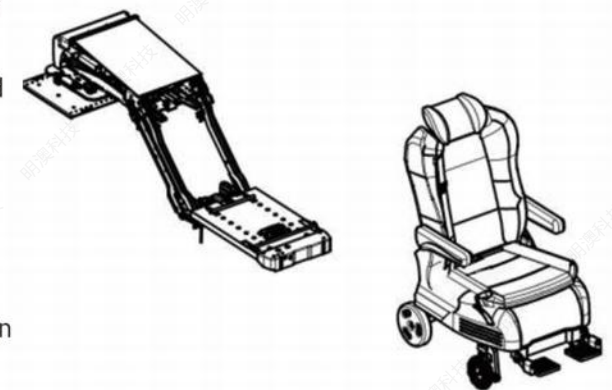
MA-SRL-MM

Separate manual seat



Features

- Upgraded separate welfare seats, suitable for MPVs with smaller space
- The headrest/armrest can be adjusted up and down, and the backrest can be adjusted forward and backward.
- The front wheel uses Meconum wheels, which can turn the direction on the spot.
- Leather color and stitching can be customized
- Two-way foldable pedals, flexible and convenient
- The rotation path, backrest angle, and descent stroke can be programmed according to actual conditions



MA-SRL-MM It is a manually detachable mechanical lifting and rotating seat. It is suitable for middle-row passengers in commercial vehicles (MPV). The seat can be rotated out of the vehicle and lowered in height. After the seat is separated from the mechanism, it can be converted to move on the ground. The wheelchair eliminates the need for cumbersome secondary transfer operations and provides a more flexible way to travel.

MA-SRL-MM Product parameters

Maximum lowering height 550mm
Loading weight: 150kg
Rotation angle: 0-105°
Working voltage: 12V dc
Wheelchair weight: 61kg

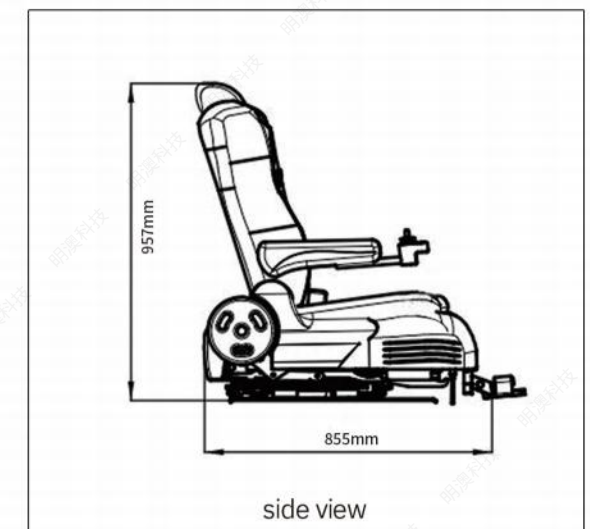
MA-SRL-ME

Separate electric seat



Features

- Upgraded separate welfare seats, suitable for MPVs with smaller space
- The headrest/armrest can be adjusted up and down, and the backrest can be adjusted forward and backward.
- The front wheel uses Meconum wheels, which can turn the direction on the spot.
- Leather color and stitching can be customized
- Two-way foldable pedals, flexible and convenient
- The rotation path, backrest angle, and descent stroke can be programmed according to actual conditions
- Joystick operated wheelchair direction



MA-SRL-ME It is an electric detachable mechanical lifting and rotating seat, suitable for the middle row of commercial vehicles (MPV). The user can rotate the seat out of the car and lower the height. After the seat is separated from the mechanism, it can be converted to sit on the ground. An electric mobile wheelchair, by controlling the handle of the electric wheelchair, the user can move freely without the assistance of others. At the same time, it provides them with an independent and free travel experience, allowing them to easily participate in hiking and traveling.

MA-SRL-ME Product parameters

Maximum lowering height 550mm
Loading weight: 150kg
Rotation angle: 0-105°
Working voltage: 12V dc
Wheelchair speed: 6km/h
Continuous cruising range 20km
Electric wheelchair voltage: 24V dc
Wheelchair weight: 65kg

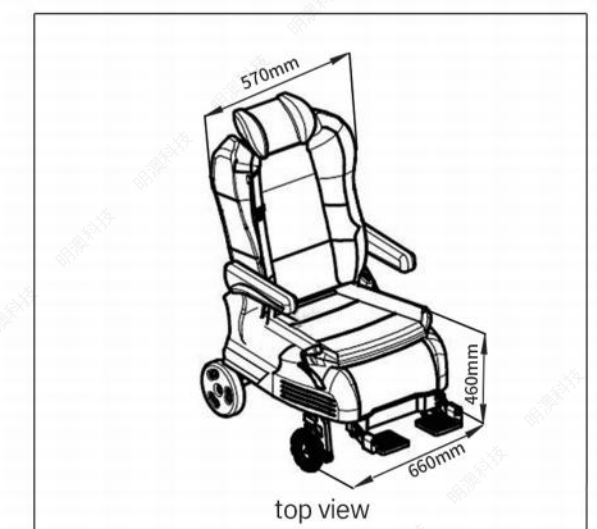
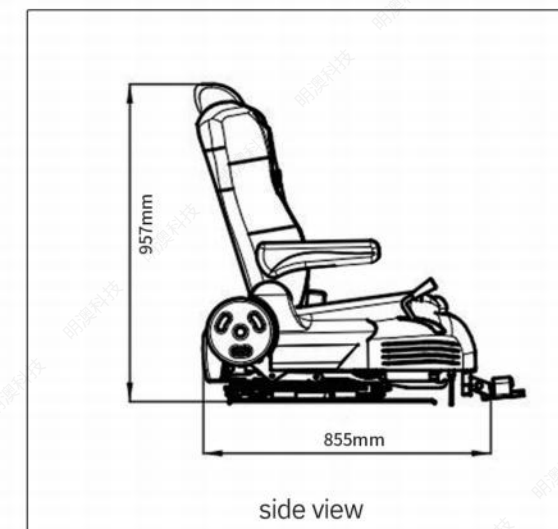
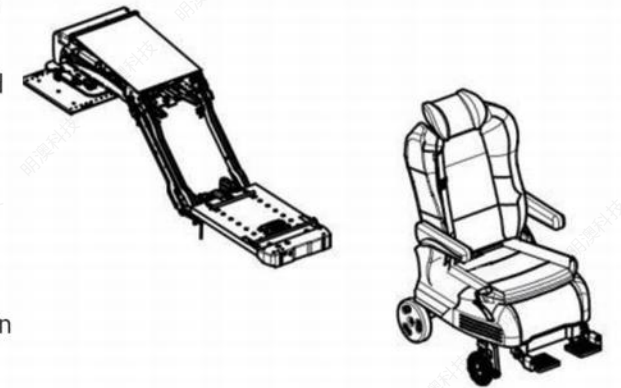
MA-SRL-MM

Separate manual seat



Features

- Upgraded separate welfare seats, suitable for MPVs with smaller space
- The headrest/armrest can be adjusted up and down, and the backrest can be adjusted forward and backward.
- The front wheel uses Meconum wheels, which can turn the direction on the spot.
- Leather color and stitching can be customized
- Two-way foldable pedals, flexible and convenient
- The rotation path, backrest angle, and descent stroke can be programmed according to actual conditions



MA-SRL-MM It is a manually detachable mechanical lifting and rotating seat. It is suitable for middle-row passengers in commercial vehicles (MPV). The seat can be rotated out of the vehicle and lowered in height. After the seat is separated from the mechanism, it can be converted to move on the ground. The wheelchair eliminates the need for cumbersome secondary transfer operations and provides a more flexible way to travel.

MA-SRL-MM Product parameters

Maximum lowering height 550mm
Loading weight: 150KG
Rotation angle: 0-105°
Working voltage: 12V dc
Wheelchair weight: 61kg

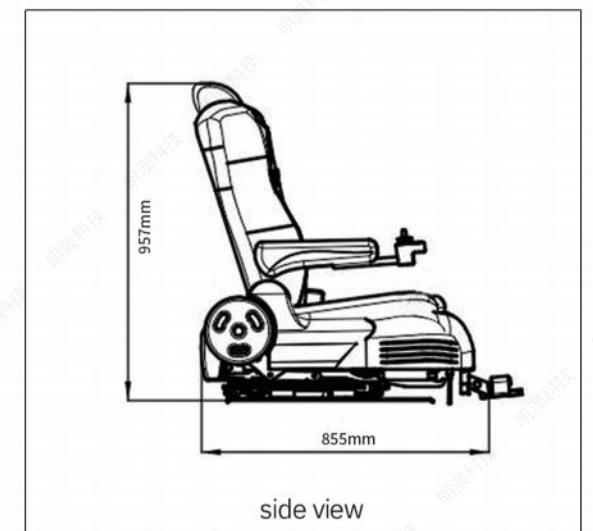
MA-SRL-ME

Separate electric seat



Features

- Upgraded separate welfare seats, suitable for MPVs with smaller space
- The headrest/armrest can be adjusted up and down, and the backrest can be adjusted forward and backward.
- The front wheel uses Meconum wheels, which can turn the direction on the spot.
- Leather color and stitching can be customized
- Two-way foldable pedals, flexible and convenient
- The rotation path, backrest angle, and descent stroke can be programmed according to actual conditions
- Joystick operated wheelchair direction



MA-SRL-ME It is an electric detachable mechanical lifting and rotating seat, suitable for the middle row of commercial vehicles (MPV). The user can rotate the seat out of the car and lower the height. After the seat is separated from the mechanism, it can be converted to sit on the ground. An electric mobile wheelchair, by controlling the handle of the electric wheelchair, the user can move freely without the assistance of others. At the same time, it provides them with an independent and free travel experience, allowing them to easily participate in hiking and traveling.

MA-SRL-ME Product parameters

Maximum lowering height 550mm
Loading weight: 150KG
Rotation angle: 0-105°
Working voltage: 12V dc
Wheelchair speed: 6km/h
Continuous cruising range 20km
Electric wheelchair voltage: 24V dc
Wheelchair weight: 65kg

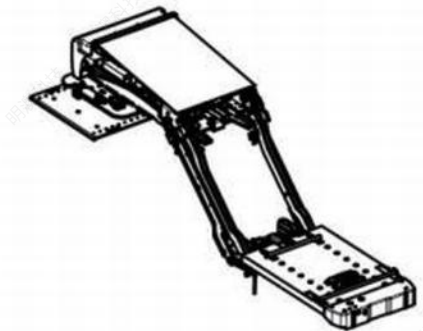
MA-SRL-M

Separate mechanical lift and rotation mechanism



Features

- Manual emergency function: emergency manual retraction
 - Programmable rotation path, backrest angle, and descending stroke
 - Hand-held switch for control
 - With anti-pinch and stop function
 - Fault code display, human-computer interaction
 - Sensor needle measurement height at lowered position
- It also has a handheld remote control switch and a mobile phone Bluetooth wireless remote control



MA-SRL-M It is used for manual and electric models of separate mechanical lifting and rotating seats. The front and rear movement stroke, rotation angle and lifting height of the seat can be set through secondary programming. After the program setting is completed, it can run automatically. All actions are controlled through the newly upgraded handheld handle.

MA-SRL-M Product parameters

Loading weight: 150KG
Rotation angle: 0-105°
Working voltage: 12V dc
Rated power: 120W
Maximum lowering height :550mm
one working cycle for 2 minutes
Mechanical weight: 90kg



02

SEPARATE HYDRAULIC LIFT AND SWIVEL SEAT

We provide welfare vehicles based on business models specifically for special groups. The welfare seats equipped with them realize hydraulic mechanism. The remote control operates the button to first rotate the seat to the predetermined position, then the mechanism unfolds forward, pushes the seat out of the car, slowly lowers the height of the seat and the ground, unfolds the rear wheels of the seat, and finally releases the connection with the seat. Complete the separation of the seat and the mechanism so that the seat can be used independently as a wheelchair. This design effectively solves the inconvenience problem for people with mobility impairments to get in and out of the vehicle. Through the electric function of the welfare seat, they get rid of the trouble of relying on, supporting, hugging, carrying, and lifting to get in and out of the vehicle.

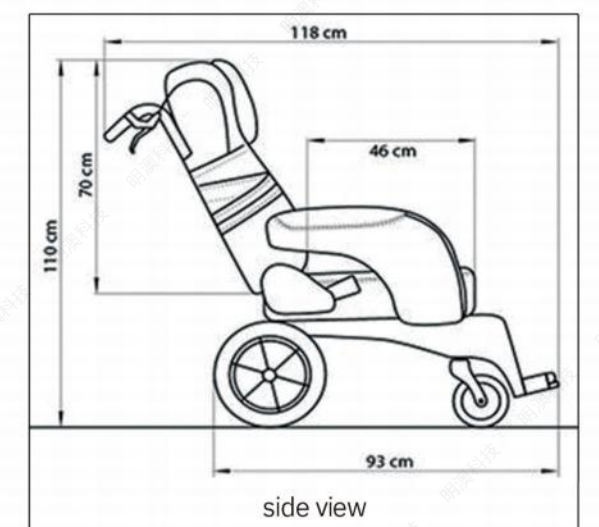
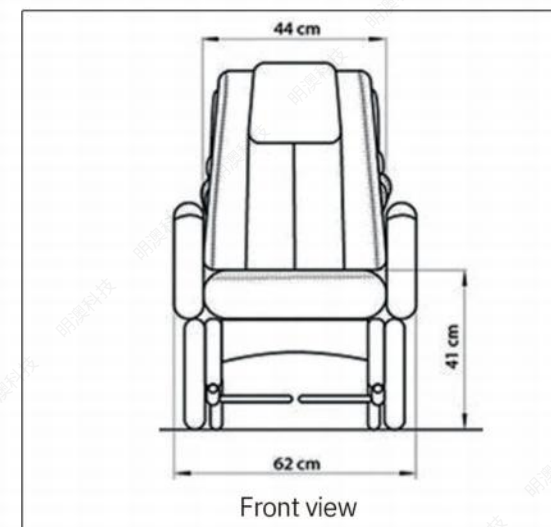
MA-SRLH-WM

Separate hydraulic manual seat



Features

- The foot pedal is made of stainless steel and is easy to disassemble.
- Headrest/armrest adjustable up and down
- The backrest can be adjusted to a 180° angle
- Honeycomb rubber shock-absorbing tires
- Leather color and stitching can be customized
- The brakes are disc brakes
- The leg rest can be manually adjusted to the appropriate angle (optional)



MA-SRLH-WM is a manually detachable hydraulic lifting and rotating seat, suitable for medium and large MPVs and commercial vehicles. The seat rotates out of the vehicle and lowers the height. After the seat is separated from the mechanism, it can be converted into a manually propelled wheelchair. The product is divided into two types: left-hand and right-hand, suitable for people with different needs.

MA-SRLH-WM Product parameters

Wheelchair weight: 48KG
Loading weight: 150KG
Rear wheel size: 12 inches

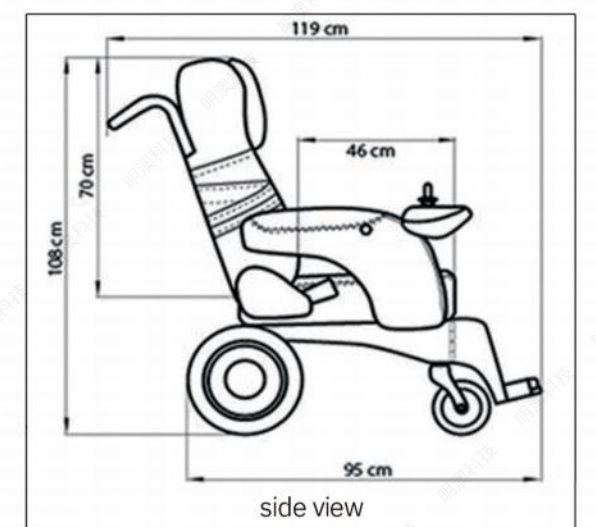
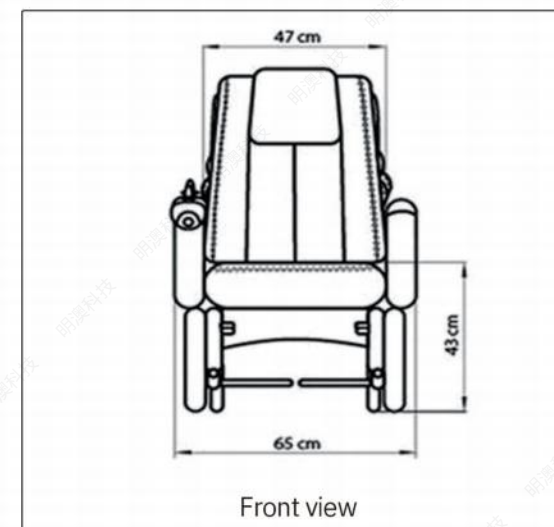
MA-SRLH-WE

Separate hydraulic electric seat



Features

- Joystick controls wheelchair direction
- The foot pedal is made of stainless steel and is easy to disassemble.
- Headrest/armrest adjustable up and down
- The backrest can be adjusted to an angle of 165°
- Honeycomb rubber shock-absorbing tires
- Leather color and stitching can be customized
- The brake is electromagnetic brake
- The leg rest can be manually adjusted to the appropriate angle (optional)



MA-SRLH-WE It is an electric detachable hydraulic lifting and rotating seat, suitable for medium and large MPVs and commercial vehicles. The seat rotates out of the car and lowers the height. After the seat is separated from the mechanism, it can be converted into an electric wheelchair. The product is divided into two types: left-hand and right-hand, suitable for people with different needs.

MA-SRLH-WE Product parameters

Battery capacity: 30AH
Range: 15km
Speed 6 kilometers per hour
Wheelchair weight: 78KG
Loading weight: 150KG
Rear wheel size: 12 inches
Motor power: 320W

Separated hydraulic lift and rotation mechanism



Features

- Manual emergency function: emergency manual retraction
- Rotation path, backrest angle, and descent stroke can be set
- Hand-held switch for control
- The mechanism rotates the seat out of the car and lowers it to facilitate the elderly and passengers in wheelchairs to get in and out of the car.
- Detection system: detects whether the wheelchair is locked to the limit
- The sensor automatically detects whether the wheelchair is lowered into place



MA-RL-H It is used for manual and electric models of separate hydraulic lift and swivel seats. The seat can be rotated, extended and lowered through a wired or wireless remote control handle. The lifting and rotating mechanism adopts two flexible control methods, one is wireless remote control and the other is wired remote control. This design provides users with a more convenient and personalized seat operation experience.

MA-RL-H Product parameters

Loading weight: 150KG
 Rotation angle: 0-105°
 Working voltage: 12V dc
 Rated power: 500W
 Maximum lowering height :550mm
 one working cycle for 2 minutes
 Mechanism weight: 96kg
 One working cycle is about 1 minute and 20 seconds



03

WHEELCHAIR TRANSFER TO CAR SEAT

The lifting and rotating seat can be used for the co-pilot position of medium and large SUVs and the middle row of MPV commercial vehicles. The seat can be rotated out of the car, and passengers can sit on the seat outside the car, and then the mechanism smoothly lifts and rotates into a safe position inside the car. After the seat is fully extended out of the car, the height from the ground can be adjusted according to the vehicle conditions and your needs. This product is also suitable for docking with wheelchairs, allowing passengers to transfer directly from the seat of the wheelchair into the car. All movements are controlled by the handle.

This product is available in left-hand and right-hand versions. The seat's rotation and forward and backward movement can be programmed through a hand-held switch, making it suitable for co-pilots in vehicles with tight space.

MA-RL-MRS (Ultimate Design)

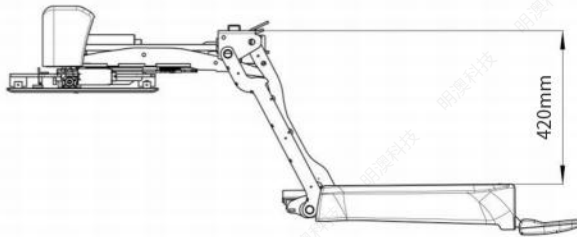
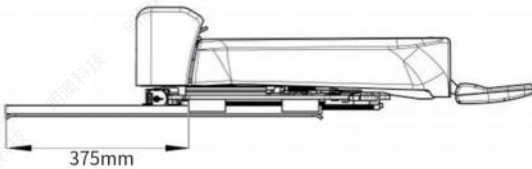
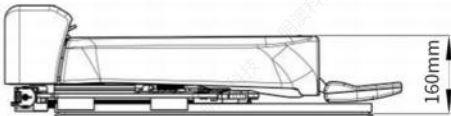
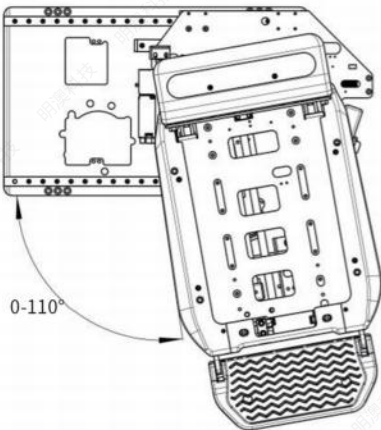
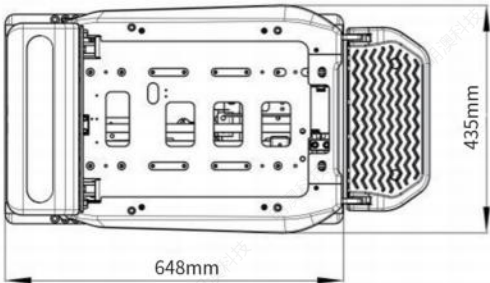


Mechanical lift and swivel seat



Features

- The wheelchair upgrade has ventilation, heating, massage, electric leg rest, and electric backrest functions
- It also has a handheld remote control switch and a mobile phone Bluetooth wireless remote control
- The footrest can be extended and retracted when not in use
- With manual emergency function
- Programmable seat motion trajectory



MA-RL-MRS It can be used in medium and large SUVs and MPV business models, and is suitable for middle doors or co-pilots. Passengers can sit on the seat outside the car, and then the mechanism smoothly lifts and rotates into a safe position inside the car. After the seat is fully extended outside the car, the height above the ground can be adjusted according to the vehicle conditions and your use needs, and the passenger can Directly use the vehicle's original seats for modification, retaining the original functions and providing a comfortable and unified style.

MA-RL-MRS Product parameters

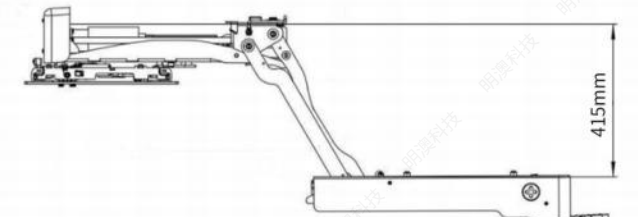
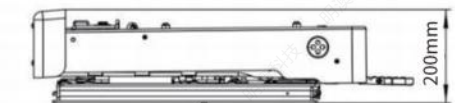
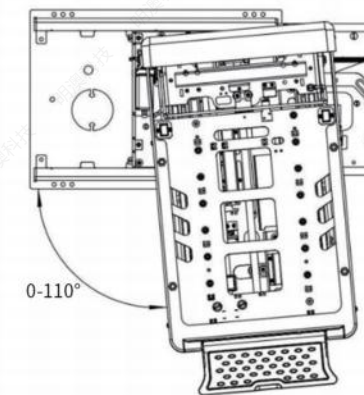
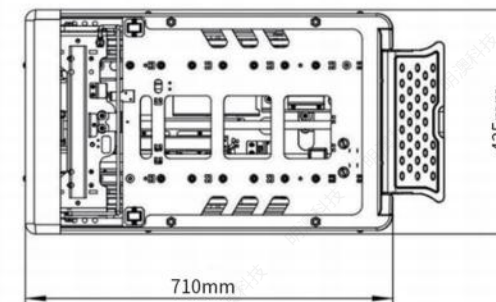
Working voltage: 12V dc
Rated power: 120W
Rated load: 150Kg
Descending height: 420mm
Rotation angle: 0-110°
Static sleep current: <0.1mA
Rated operating current: 30A
Mechanism weight: 78kg

Mechanical lift and swivel seat



Features

- Applicable to a wide range of models
- The original car seats can be upgraded, beautiful and comfortable·
- The footrest can be extended and retracted when not in use·
- With manual emergency function·
- Programmable seat motion trajectory



MA-RL-M It can be used in medium and large SUVs and MPV business models, and is suitable for middle doors or co-pilots. Passengers can sit on the seat outside the car, and then the mechanism smoothly lifts and rotates into a safe position inside the car. After the seat is fully extended outside the car, the height above the ground can be adjusted according to the vehicle conditions and your use needs, and the passenger can Directly use the vehicle's original seats for modification, retaining the original functions and providing a comfortable and unified style.

MA-RL-M Product parameters

Working voltage: 12V dc
 Rated power: 120W
 Rated load: 150Kg
 Descending height: 420mm
 Rotation angle: 0-110°
 Static sleep current: <0.1mA
 Rated operating current: 30A
 Mechanism weight: 82kg

MA-WHCH-12/24IN

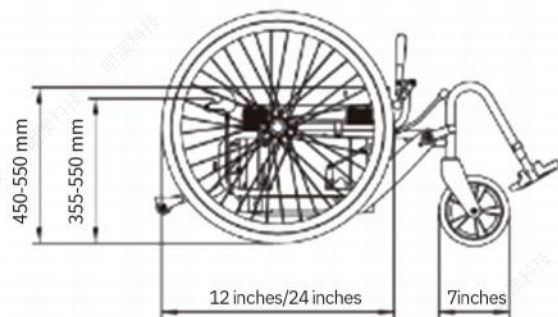
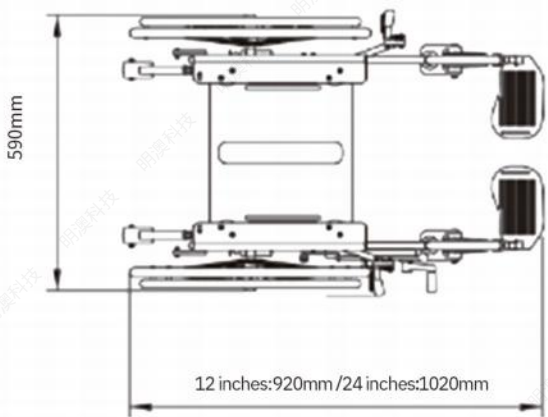


Docking a wheelchair



Features

- The height of the docking wheelchair can be adjusted up and down
- The foot pedal is easy to remove
- Removable anti-reverse bracket
- 24-inch wheels are removable to reduce storage space
- Prevent backward tilting function



MA-WHCH-12/24IN It is divided into 12-inch and 24-inch wheelchairs and can be used in conjunction with the MA-RL-M. When a person with mobility impairments swivels out of the car, the docking mechanism between the seat and the bottom of the seat can be moved, and the seat and docking mechanism can be pushed in. The docked wheelchair can be converted into a wheelchair that moves on the ground, and vice versa, it can be entered into the car. Passengers can stay in their wheelchairs throughout the journey without leaving.

MA-WHCH-12/24IN Product parameters

- Rim size: 12 inches/24 inches
- Rated load: 150Kg
- 12-inch docking wheelchair:17kg
- 12-inch docking wheel mechanism:25.5kg

MA-RT-M



Small car owner and co-pilot rotating extension mechanism (manual)

Features

- Convenient and easy manual operation
- Simple and easy to operate, more widely used



MA-RT-M It is a manual rotating extension mechanism, suitable for cars or vehicles with narrow space. Passengers only need to sit on the seat outside the car and use manual operation to smoothly rotate the seat into the original position inside the car. The entire process is operated manually, ensuring safety, convenience and reliability.

MA-RT-M
Product parameters

Rotation angle 0~90°
Rated load: 150Kg

Small car owner and co-pilot rotating extension mechanism (electric)



Features

- The seat movement path can be operated via the handle
- With manual emergency function
- Simple and easy to operate, more widely used



MA-RT-E It is an electric rotating extension mechanism, suitable for cars or vehicles with narrow spaces. Passengers only need to sit on the seat outside the car and perform electric operation through the remote control handle to smoothly rotate the seat into the original position in the car. The entire process of forward and backward movement and rotation of the seat is controlled by the remote control handle, which is simple and convenient.

MA-RT-E Product parameters

Rotation angle 0~90°
Operating voltage: 12 Vdc
Power: 30W
Rated load: 150Kg



04

WHEELCHAIR CAR LIFTS

Wheelchair lifts provide an innovative solution for barrier-free travel for people with reduced mobility. Wheelchair lifts are divided into two categories: internal wheelchair lifting platforms and external wheelchair lifting platforms. The internal wheelchair lifting platform can be folded, and the rear view is not blocked. It is suitable for commercial vehicles and buses. The external wheelchair lifting platform is small in size, does not take up space in the car, and is suitable for a wider range of vehicle models.

These two types of lifting platforms provide the convenience and comfort of barrier-free travel for people with mobility impairments. Let them have equal socialization and communication with normal people.

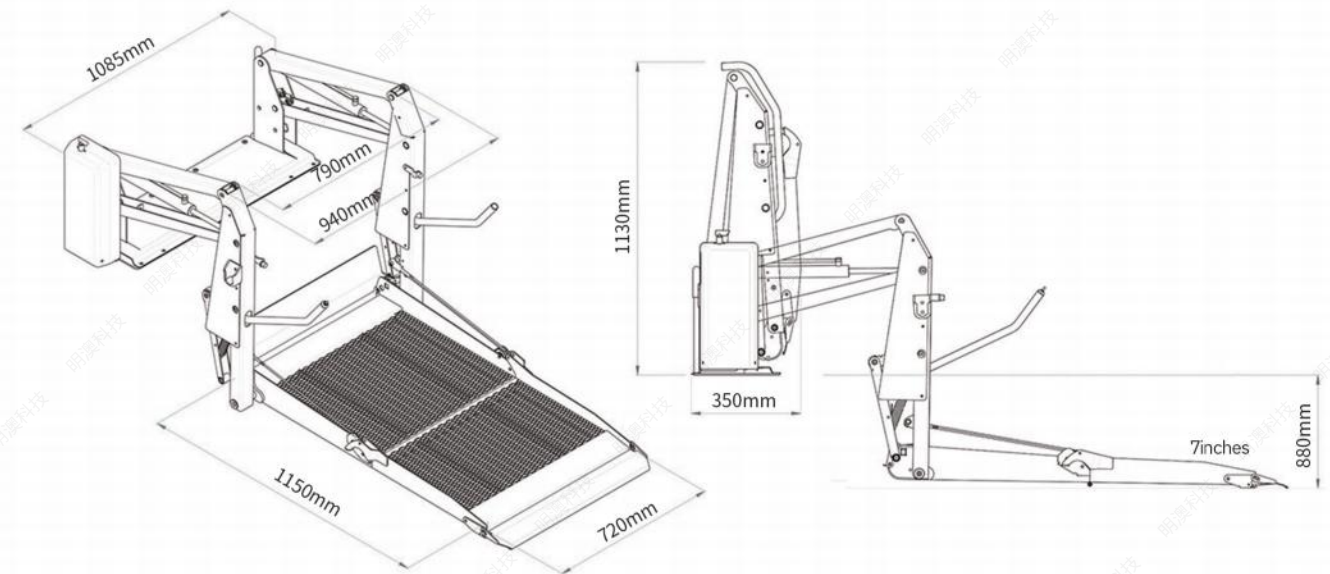
MA-WLLP-AHF

Horizontal foldable wheelchair lift platform



Features

- With manual emergency function
- Movement is powered by two hydraulic cylinders
- Handrails add beauty and practicality
- With anti-slip platform
- Hydraulic system ensures smooth movement
- Does not block rear view



MA-WLLP-AHF Suitable for commercial vehicle side doors or tailgates, this product adopts fully automatic hydraulic drive technology and can easily control the lifting and flipping functions of the platform through a remote control switch. Horizontal folding platform does not block rear view

MA-WLLP-AHF Product parameters

Working voltage: 12/24V dc
Rated load: 320Kg
Power: 800W
Lift weight: 145kg

MA-WLLP-AVF

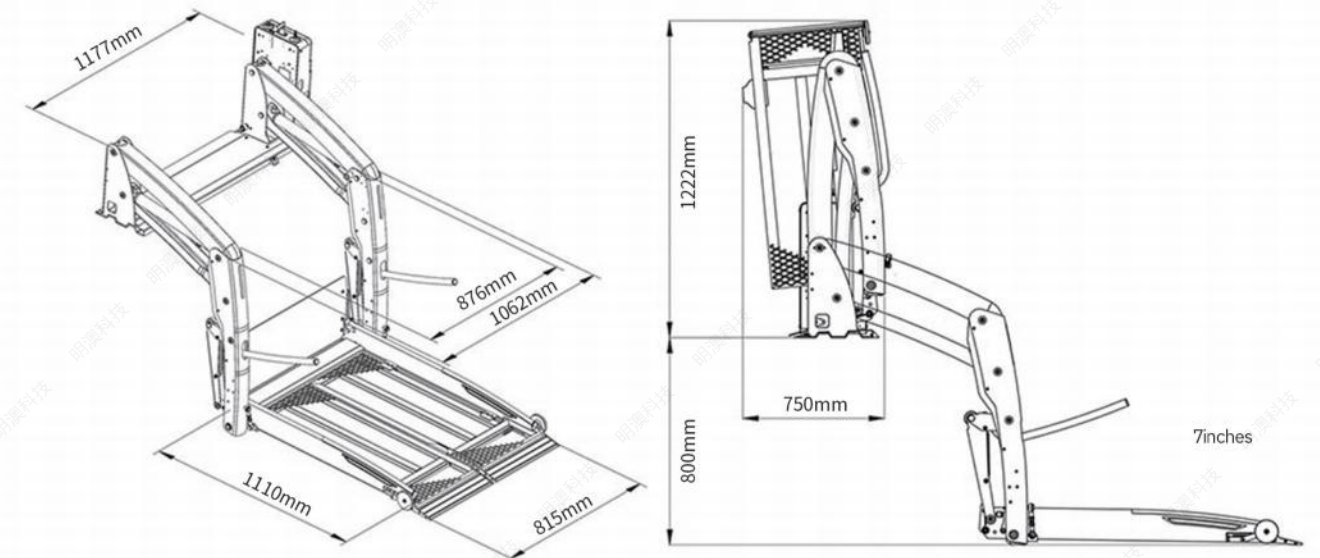


Vertical folding wheelchair lift platform



Features

- With manual emergency function
- Equipped with optional platform lighting system
- Equipped with automatic telescopic armrests
- With non-slip middle openable vertical folding platform
- Unique structure is stronger
- Hydraulic drive can significantly reduce the descent speed control of starting acceleration, making it smooth and comfortable



MA-WLLP-AVF It is suitable for the side door or tailgate of commercial vehicles. It can be opened vertically and placed inside the vehicle to provide passengers with a spacious vision space. Provide an easier and more convenient solution for you to get on and off the bus without barriers.

MA-WLLP-AVF
Product parameters

Working voltage: 12/24V dc
Rated load: 320Kg
Power: 800W

MA-WLLP-ELI110A

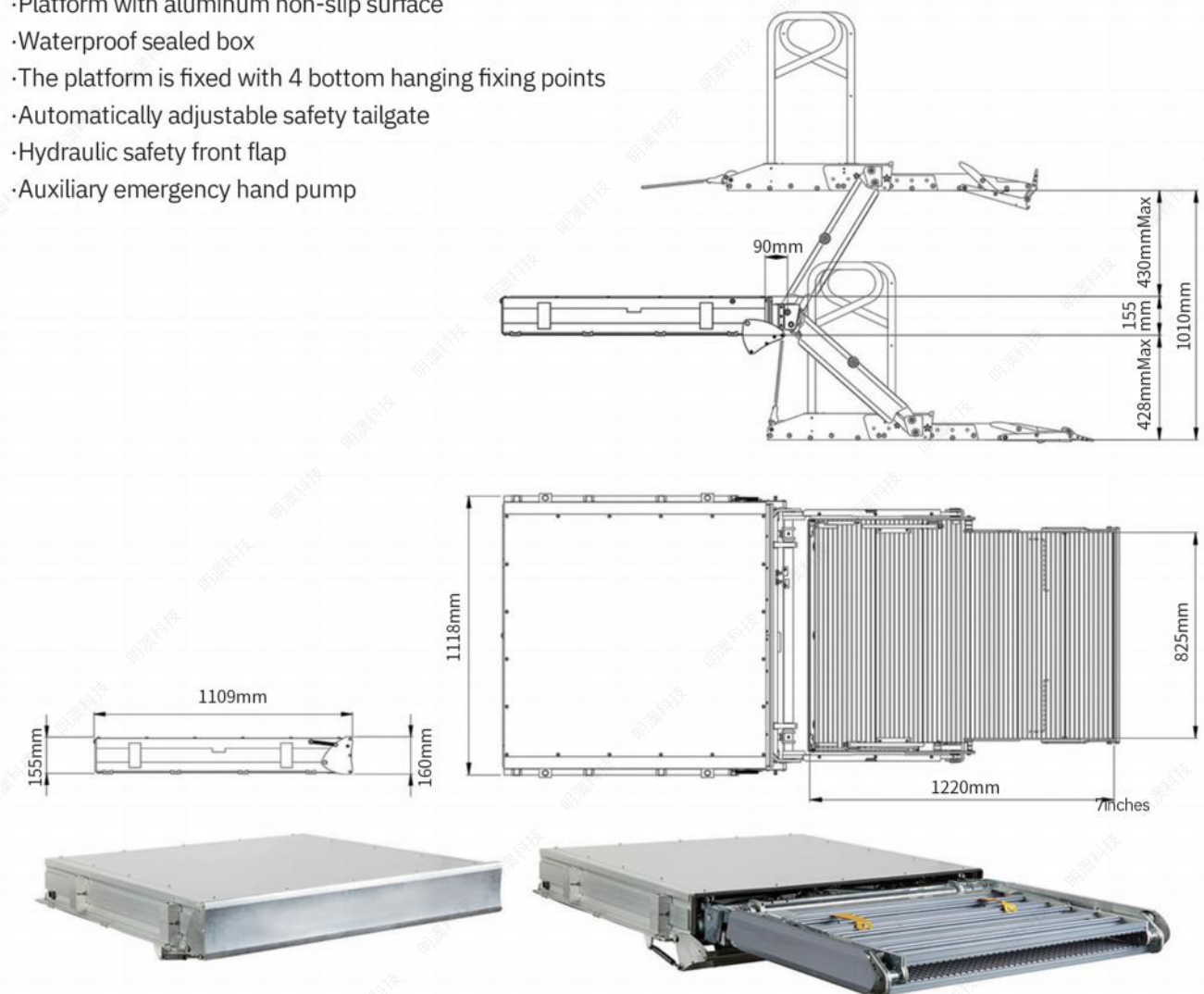


Semi-automatic wheelchair lift



Features

- Platform with aluminum non-slip surface
- Waterproof sealed box
- The platform is fixed with 4 bottom hanging fixing points
- Automatically adjustable safety tailgate
- Hydraulic safety front flap
- Auxiliary emergency hand pump



MA-WLLP-ELI110A It is an innovative retractable wheelchair lifting platform that can be installed under the car chassis at the rear or side of the vehicle. Its compact size and retractable arms of different heights make it suitable for a variety of vehicles.

MA-WLLP-ELI110A Product parameters

Working voltage: 12/24V
Rated load: 350Kg
Platform width: 820mm
Platform length: 1220mm
Product weight: 145kg

MA-WLLP-EL1960

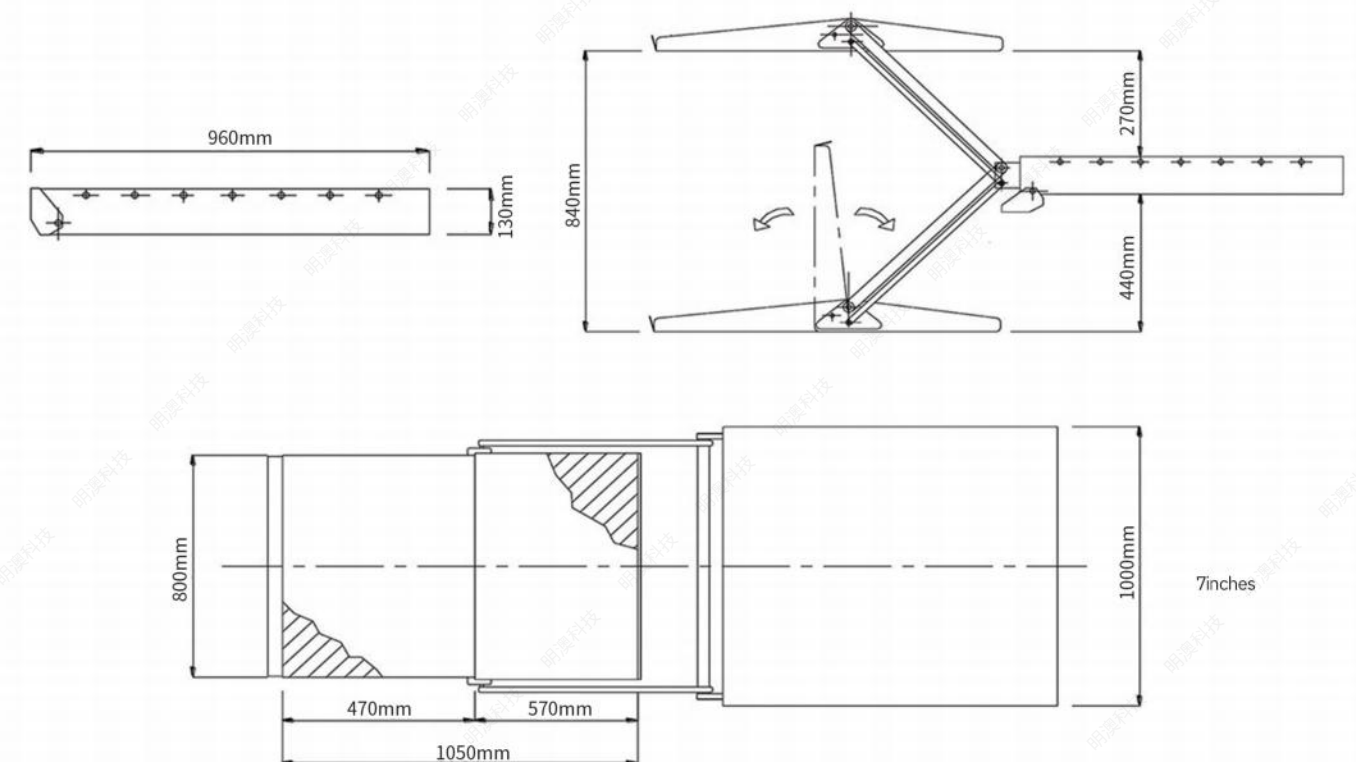


Vehicle rear wheelchair lifting platform



Features

- Aluminum non-slip surface platform
- The platform is fixed with 4 bottom hanging fixing points
- With front and rear safety flaps
- Auxiliary emergency hand pump



MA-WLLP-EL1960 is a retractable semi-automatic lift that can be installed at the rear of the vehicle chassis. Due to its compact size and retractable arms of different heights, this product can be used on a variety of vehicles.

MA-WLLP-EL1960 Product parameters

Working voltage: 12/24V
Rated load: 320Kg
Platform size: 1050mm*800mm
Product weight: 140kg

MA-WLLP-ESIF6

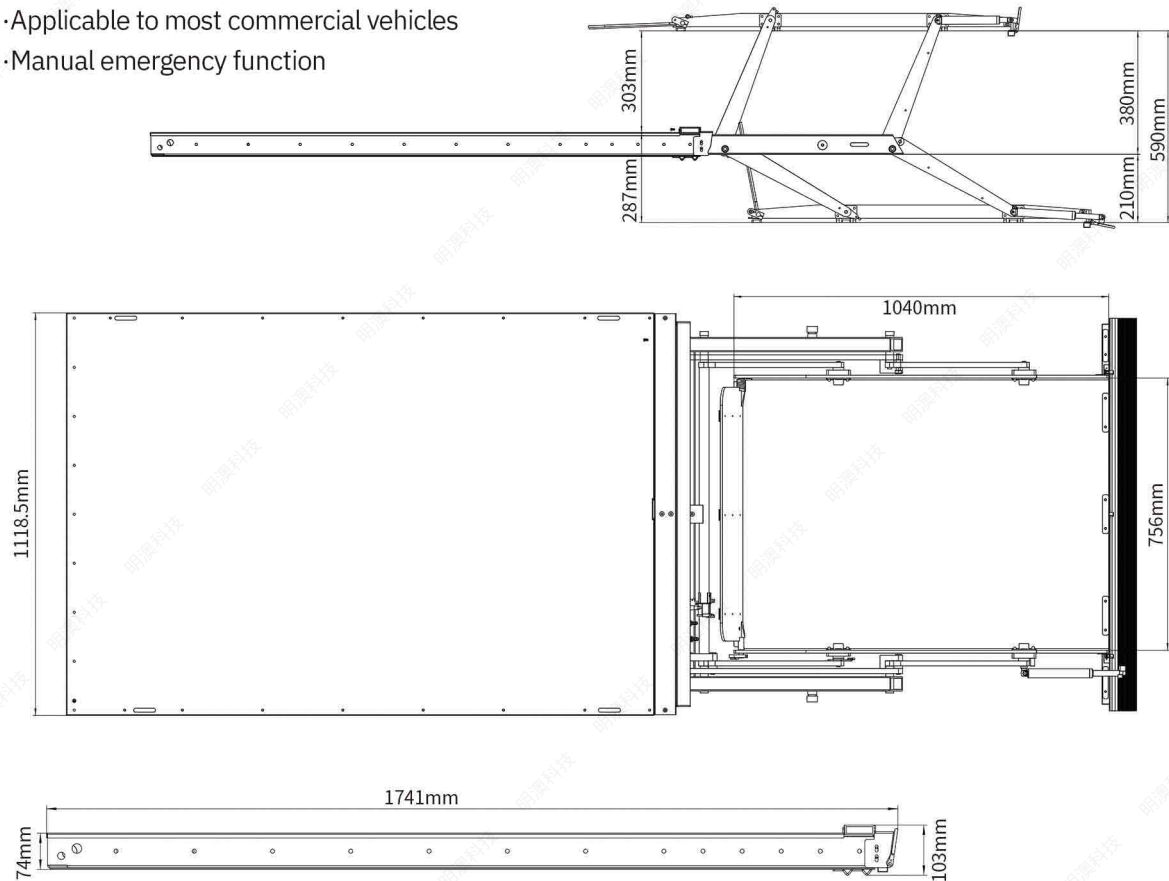


Ultra-thin box wheelchair lifting platform



Features

- Ultra-thin box design with a thickness of only 103 mm support
- OEM customization, the fuel tank and exhaust pipe remain intact
- Applicable to most commercial vehicles
- Manual emergency function



MA-WLLP-ESIF6 Mostly installed on the side below the chassis of commercial vehicles, the super wheelchair lifting platform is designed with a thickness of only 103 mm, which is suitable for a variety of commercial vehicle models. At the same time, it can keep the fuel tank and exhaust pipe in good condition, providing users with a new barrier-free travel mode.

MA-WLLP-ESIF6 Product parameters

Rated load: 300Kg
Platform size: 756mm*1040mm
Product weight: 140kg

MA-WLLP-ESIF6(PRO)

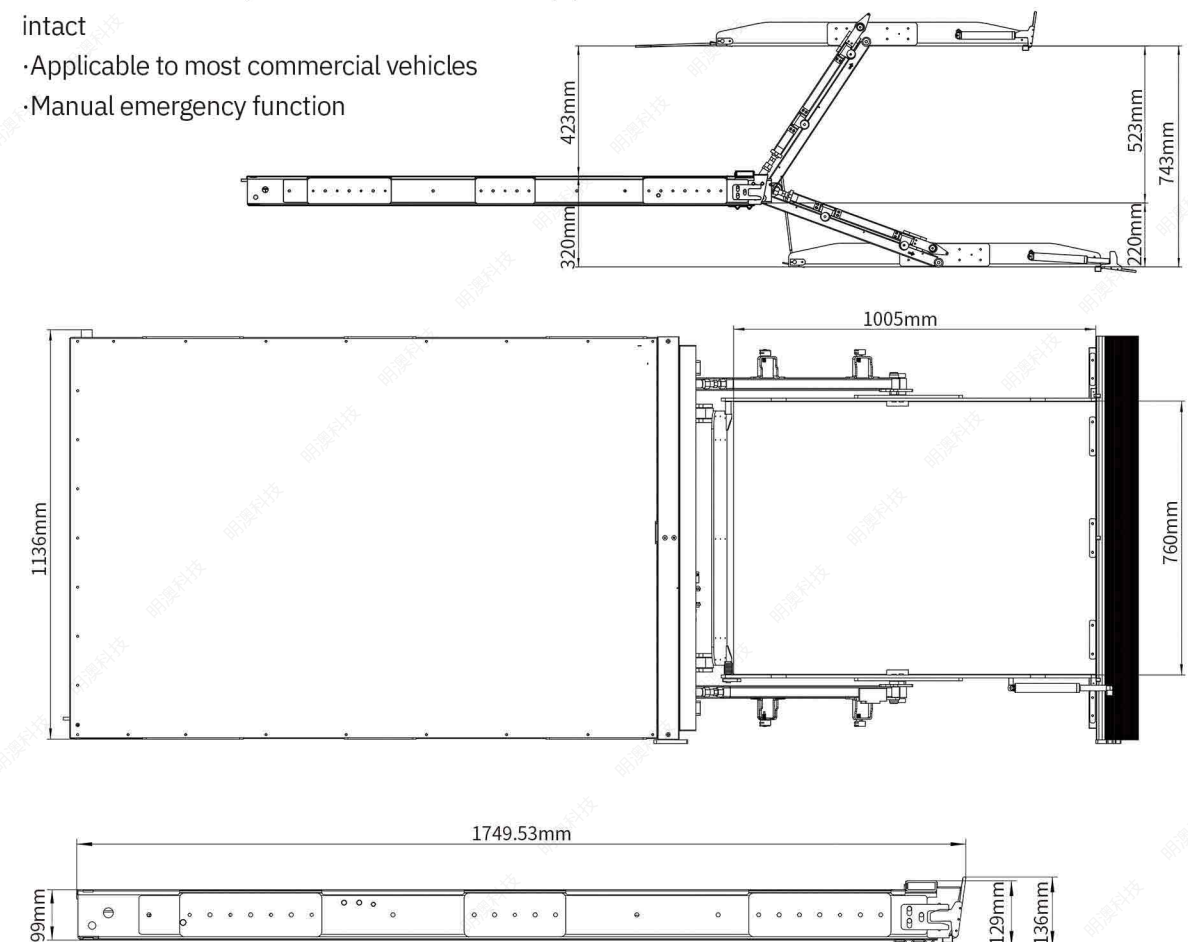


Ultra-thin box wheelchair lifting platform



Features

- Ultra-thin box design with a thickness of only 136 mm support
- OEM customization, the fuel tank and exhaust pipe remain intact
- Applicable to most commercial vehicles
- Manual emergency function



MA-WLLP-ESIF6(PRO) Mostly installed on the side below the chassis of commercial vehicles, the super wheelchair lifting platform is designed with a thickness of only 136 mm, which is suitable for a variety of commercial vehicle models. At the same time, it can keep the fuel tank and exhaust pipe in good condition, providing users with a new barrier-free travel mode.

MA-WLLP-ESIF6(pro) Product parameters

Rated load: 300Kg
Platform size: 760mm*1005mm
Product weight: 140kg

MA-WLLP-EB1400A

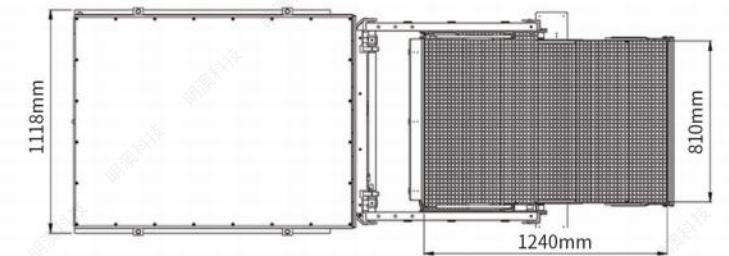


Concealed wheelchair lifting platform for small buses

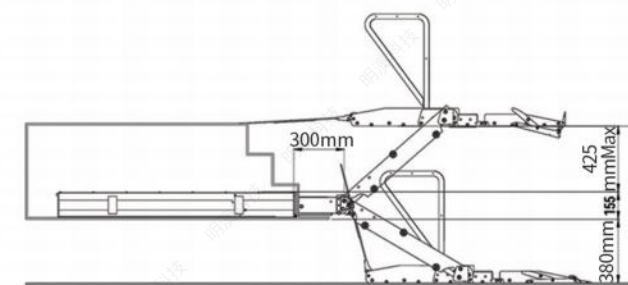


Features

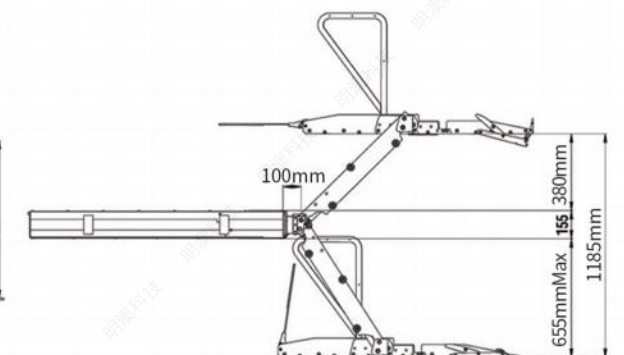
- The platform surface is anti-slip and waterproof
- Secure this platform with 4 bottom overhang fixing points
- Mechanical automatic front safety baffle
- Automatically adjustable rear safety baffle
- Safety handrails are provided on the platform
- Auxiliary emergency hand pump



While lifting



Recover in hidden state



MA-WLLPEB1400A It is a semi-automatic telescopic lifting platform specially developed for installation on the side or rear of minibuses. Because the platform is moveable and allows the telescopic arm to be raised and lowered to different heights, it can be positioned as a step lift or hidden between the vehicle's raised floor and external chassis.

MA-WLLPEB1400A Product parameters

Rated load: 350Kg
Working voltage: 12V/24V
Platform size: 810mm*1222mm
Product weight: 165kg

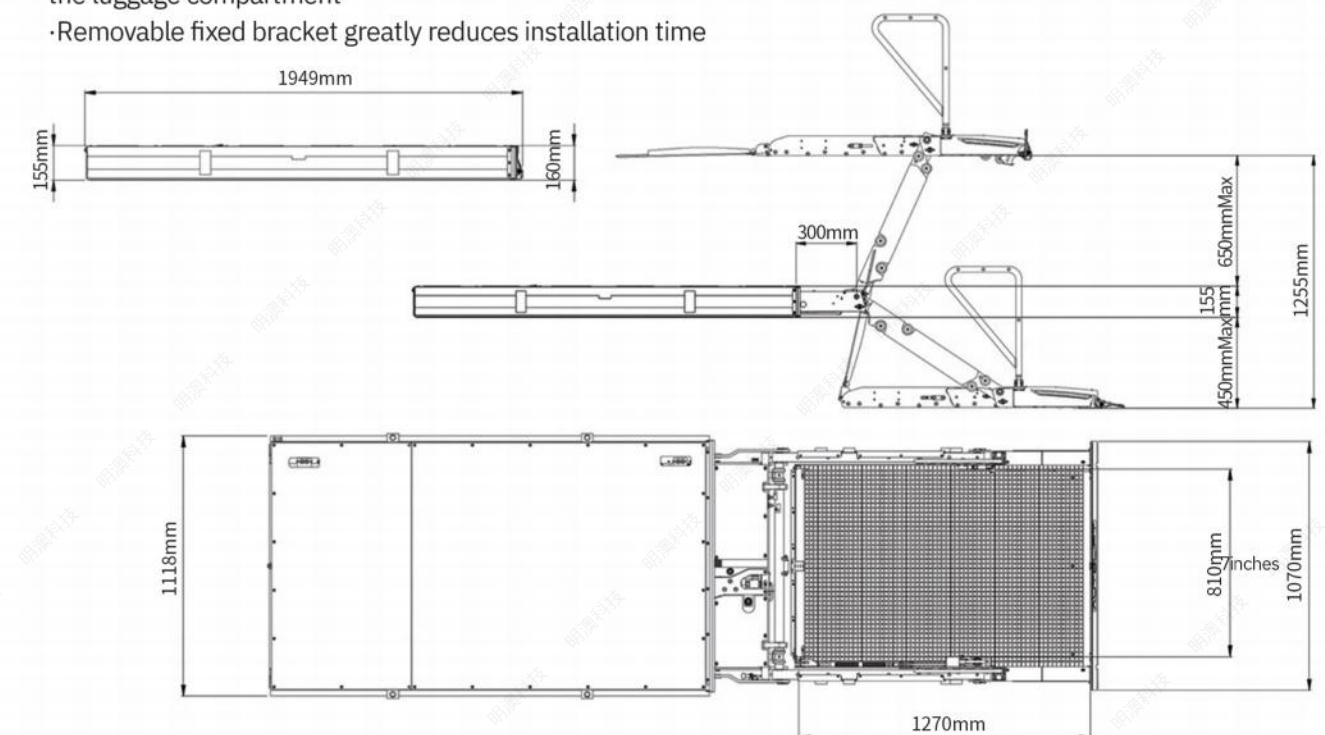
MA-WLLP-EBF12

Bus wheelchair lift platform



Features

- Platform with aluminum non-slip surface
- LED lights integrated into the platform frame illuminate the way for wheelchairs to get on and off the platform
- The waterproof sealed box is made of aluminum
- Multi-drive anti-roll device is leak-free and maintenance-free
- Plug-and-play interface and hydraulics built into the lift rack eliminate the need for additional electro-hydraulics in the luggage compartment
- Removable fixed bracket greatly reduces installation time



MA-WLLP-EBF12 It is the lightest bus lift on the market and has a first-class appearance. It is especially suitable for medium and large buses such as long-distance buses and city buses. Equipped with a removable fixed bracket and plug-and-play connection design, making installation faster.

Rated load:350Kg
Product weight:<200kg
Platform size:849mm*1216mm
Lifting height: 1255mm



05

WHEELCHAIR STORAGE ROBOTIC ARM

The WROBOT robot is a leading product in this field in China and even the world. It is specially designed for self-driving wheelchair users. Its innovation lies in its automatic method of storing wheelchairs in the vehicle trunk. The robot carries the wheelchair from the driver's door to the trunk, which automatically opens and closes and returns when the driver operates, providing the driver with complete independence. The robot can be installed in cars, station wagons, minivans and SUVs, and fits in the trunk with no impact on the vehicle's passenger compartment. If you plan to change vehicles, the WROBOT robot can be removed and reinstalled into a different vehicle. The robot can lift and store folded or unfolded wheelchairs weighing up to 2.2kg, or up to 30kg when enhanced. In vans, removable seats can also be installed in place of the driver's seat to make up for the height difference between the driver's seat and the wheelchair, making it easier to move from the driver's seat to the wheelchair and back.

WA-WROBOT-F



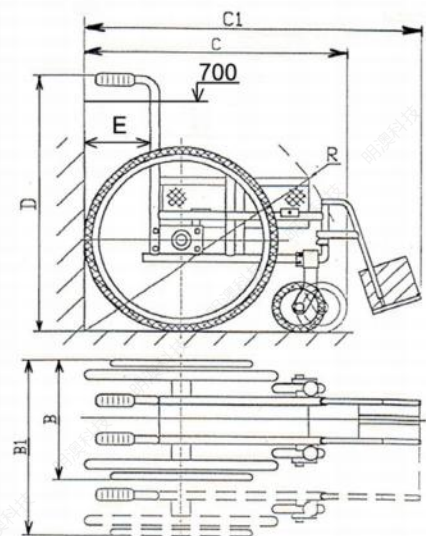
Flip-type wheelchair storage robotic arm



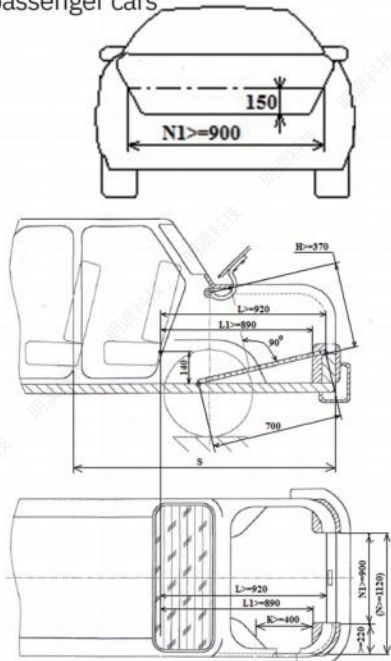
Features

- One-click automatic operation, simple and convenient
- Suitable for folding and some non-folding wheelchairs
- Can be applied to most cars, SUVs, minivans, etc.
- During the process of collecting (retrieving) the wheelchair, the robotic arm will flip the wheelchair to retract (retrieve) it into (or out of) the vehicle.

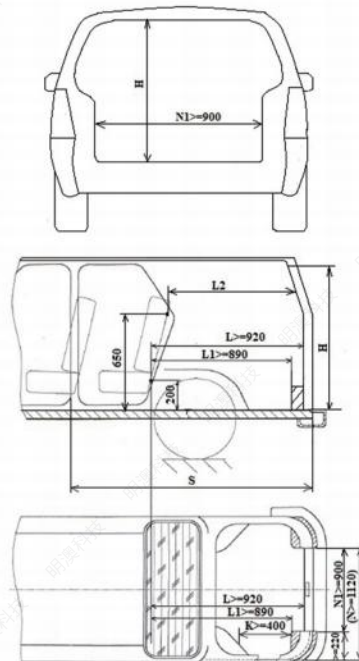
Wheelchair size requirements



Unit: (mm)
Required dimensions for
passenger cars



Unit: (mm)
SUV vehicle required dimensions



	Wheelchair dim, mm	Wheelchair dim max, mm For car:
C		N1-60max
C1		N1-60max
R		N1-50max
D		N1-50max L-20max (L2-20 for open wheelchair)
B		H-20max
B1		H-100 (for open wheelchair)
E*		200 Minimum
Weight		22kg max. (30kg if reinforced)

If $E \leq 200\text{mm}$, the difference should be added to the dimensions of C, C1 & R.

WA-WROBOT-F The robot is intended for wheelchair users who drive themselves and want an automated method of storing their wheelchair in the trunk of their vehicle. The robot is able to carry a wheelchair from the driver's door to the trunk. The trunk automatically opens and closes and returns when operated by the driver, providing the driver with complete independence.

WA-WROBOT-F Product parameters

Robotic arm weight: 60kg
Wheelchair weight is less than 30Kg
It takes about 45 seconds to reach from the trunk to the driver's seat/passenger seat
Rated load: 150Kg

WA-WROBOT-U



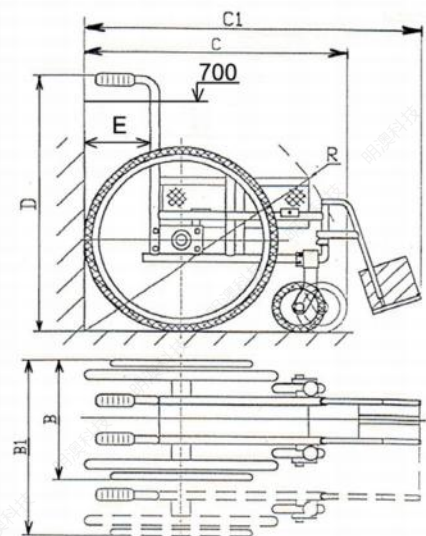
Upright wheelchair storage robotic arm



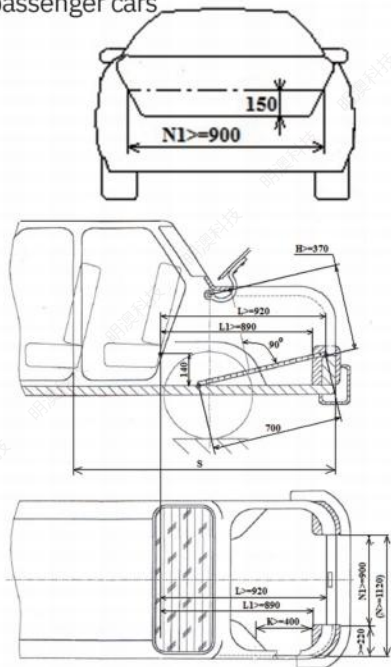
Features

- One-click automatic operation, simple and convenient
- Suitable for folding and non-folding wheelchairs
- Can be applied to most cars, SUVs, minivans, etc.
- During the process of collecting (retrieving) the wheelchair, the robotic arm will flip the wheelchair to retract (retrieve) it into (or out of) the vehicle.

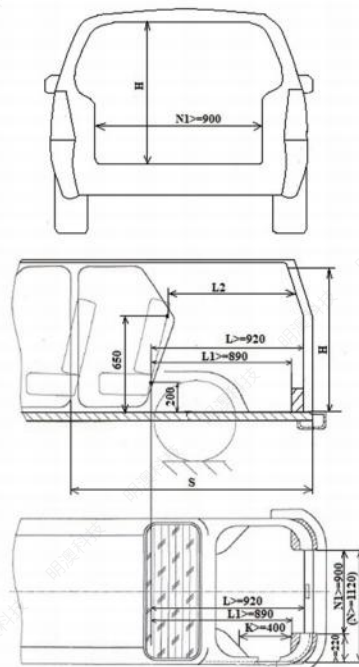
Wheelchair size requirements



Unit: (mm)
Required dimensions for
passenger cars



Unit: (mm)
SUV vehicle required dimensions



	Wheelchair dim, mm	Wheelchair dim max, mm For car:
C		N1-60max
C1		N1-60max
R		N1-50max
D		N1-50max L-20max (L2-20 for open wheelchair)
B		H-20max
B1		H-100 (for open wheelchair)
E*		200 Minimum
Weight		22kg max. (30kg if reinforced)

If $E \leq 200\text{mm}$, the difference should be added to the dimensions of C, C1 & R.

WA-WROBOT-U The robot is intended for wheelchair users who drive themselves and want an automated method of storing their wheelchair in the trunk of their vehicle. The robot is able to carry a wheelchair from the driver's door to the trunk. The trunk automatically opens and closes and returns when operated by the driver, providing the driver with complete independence.

WA-WROBOT-U Product parameters

Robotic arm weight: 60kg
Wheelchair weight is less than 30Kg
It takes about 30 seconds to reach from the trunk to the driver's seat/passenger seat
Rated load: 150Kg



06

MANUAL FOLDING GUIDE PLATE

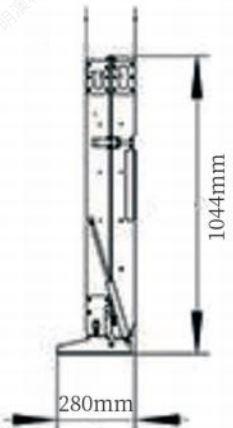
The manual folding guide series is suitable for barrier-free vehicle facilities such as commercial vehicles, RVs, school buses, and ambulances. It is made of aluminum alloy and has the characteristics of anti-slip surface, thin guide plate and anti-corrosion. The guide plate forms a slope to facilitate wheelchair entry and exit. When not in use, it can be easily folded and stored in the car, taking up less space in the car.

MA-FG-3M

Tri-fold guide plate



- Features**
- Anti-slip platform
 - Aluminum alloy plates are light in weight and have strong corrosion resistance
 - There is no abnormal sound during vehicle movement and it is effortless to unfold and stow away.



MA-FG-3M The aluminum alloy guide plate is made of lightweight and durable material, easy to operate and reliable in performance. Gas springs are installed on both sides of the product to ensure that the operator can easily open and retract the guide plate without exerting a lot of effort. When not in use, the guide plate can be stowed upright in the car, occupying less space in the car.

MA-FG-3M
Product parameters

Rated load: 350Kg



07

WHEELCHAIR FIXING DEVICE

The wheelchair fixation device is an important device specially designed to ensure the safety of wheelchair passengers in the car. This type of device usually uses a four-point fixation. The wheelchair bracket is fixed to the floor of the vehicle by using seat belts and fixing devices. In the event of a collision or sudden braking, it can effectively ensure the safety of wheelchair users in the vehicle.

MA-DF-600

Disc fixed



Features

- Comes with two-point safety belt, no need to drill holes for fixation
- The maximum length of the seat belt is 650mm and can be adjusted by yourself
- Install the disc anchor position according to the wheelchair size
- The disc holder is installed on the outside of the wheelchair



Tractor*4



Seat belt*1



Fixing screws*4



Nut*4



Spring washer*4



Gasket*4

MA-DF-600 Disc fixation method, this device is fixed at four points. In the event of braking or collision, it can firmly fix the wheelchair, slow down the impact force on the wheelchair passenger, and ensure the safety of the wheelchair passenger in the car.

MA-DF-600 Product parameters

Tractor*4
Product weight: 7.5kg
The maximum length of the tractor seat belt is 650mm