Saket Autotech
Innovations Private Limited

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MANUAL & PNEUMATIC DOORS, RAMPS, AND WHEELCHAIR LIFTS FOR BUSES

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Plot No. 94, Sector-59 HSIIDC
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Manual and Pneumatic Jack Knife Door

DESCRIPTION

- Door panels constructed using a combination of Mild Steel for durability and reduced weight.
- Modular design ensures easy installation and low maintenance upkeep.
- Bottom hinge equipped with a ball mounted pin for enhanced durability and smooth operation.
- Top guide pin includes a bearing for noise-free and frictionless movement.
- Pneumatic cylinder mounted on a swivel bearing for efficient and stable performance.
- Fitted with specially profiled rubber gaskets to ensure effective sealing against dust and noise.
- Pneumatic cylinders comply with ISO 15552 standards, ensuring reliability and interchangeability.

ADVANTAGES

- Compact design optimises space usage in the vehicle.
- Operable both pneumatically and manually.
- Emergency controls available at both driver and passenger ends.
- Mild Steel components are powder-coated for enhanced corrosion resistance and extended service life.
- Low-cost maintenance: Lubrication of Hinges, Slide Guide Bearing, Pin Bearing, Pneumatic Cylinder Bearing every 3 months or 40,000 cycles

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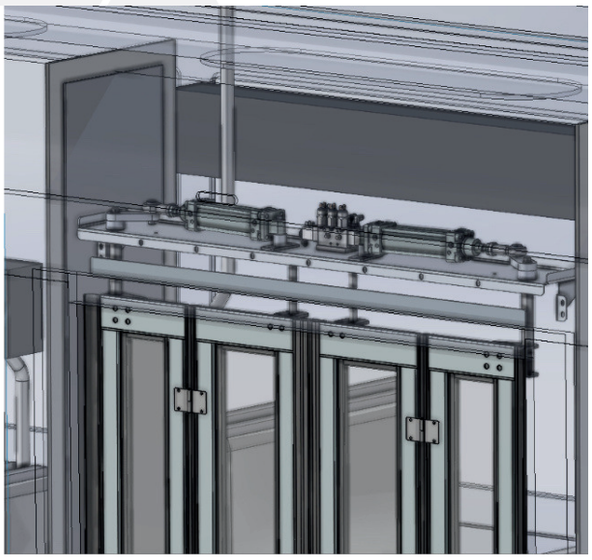
TECHNICAL DATA



- Operating Pressure: 4–6 Bar
- Aperture Width: 710–800 mm
- Power Supply: 24V DC ±10%
- Maintenance Interval: Every 40,000 cycles or 3 months
- Opening Time: 4–5 seconds
- Power Consumption: 4.5W per stroke

SAFETY FEATURES

- Toughened safety glass used in door panels to prevent breakage.
- Fully compliant with applicable automotive ISO standards.
- Safety features integrated into the door controller.
- Anti-pinch functionality to prevent injury during door operation.
- Emergency door release switches provided both inside and outside the vehicle.
- Audible and/or visual indication (buzzer/light) during door operation.

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Double Leaf Inswing Pneumatic Door

Comes in Single Leaf variant as well

DESCRIPTION

- Door leaves are fabricated using Mild Steel and Aluminium Sections, fitted with single toughened glass panels for strength and aesthetics.
- Modular design ensures easy installation and simplified maintenance.
- Rotating bars mounted on ball bearings provide long service life and smooth operation.
- Top guide pins incorporate bearings to ensure silent, frictionless functioning.
- Pneumatic cylinder mounted on a swivel bearing to allow seamless actuation.
- Fitted with specially profiled rubber gaskets for superior sealing against dust and air leakage.
- Pneumatic cylinders conform to ISO 15552 standards for global quality and compatibility.

ADVANTAGES

- Inward swing design keeps exterior vehicle profile unobstructed, ideal for narrow or high-traffic environments.
- Dual-mode operation: can be actuated pneumatically or manually in case of emergency or failure.
- Emergency controls provided at both driver and passenger ends for added safety.
- Mild Steel components are powder-coated for enhanced corrosion resistance and durability.
- Low-maintenance design requiring only periodic lubrication of hinges, slide bearings, and pneumatic cylinder components (every 3 months or 40,000 cycles).

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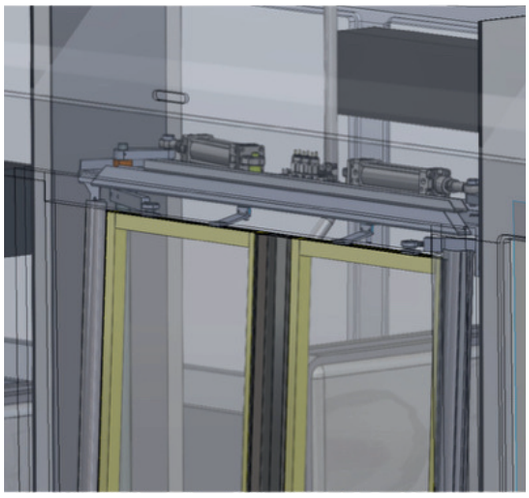
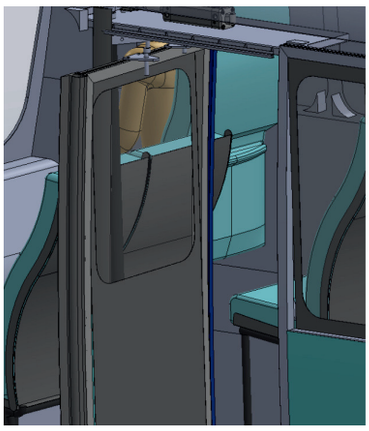
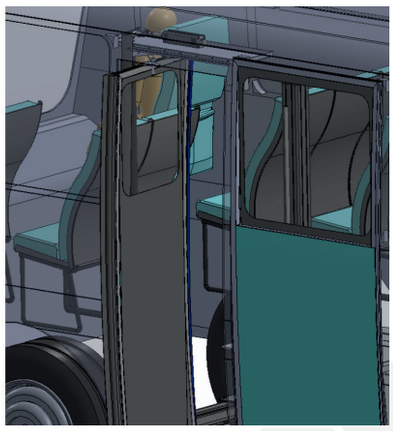


TECHNICAL DATA

- Operating Pressure: 4–6 Bar
- Aperture Width: 1210–1300 mm
- Power Supply: 24V DC ±5%
- Maintenance Interval: Every 3 months or after 40,000 cycles
- Opening Time: 4–5 seconds
- Power Consumption: 4.5W per stroke

Single Leaf variant





SAFETY FEATURES

- Toughened safety glass in both door leaves enhances passenger protection.
- All components adhere to relevant Automotive ISO Standards.
- Anti-pinch functionality prevents accidental injury during door movement.
- Emergency open/close switches available both inside and outside the vehicle.
- Audible buzzer or visual indicators signal door operation for added awareness.

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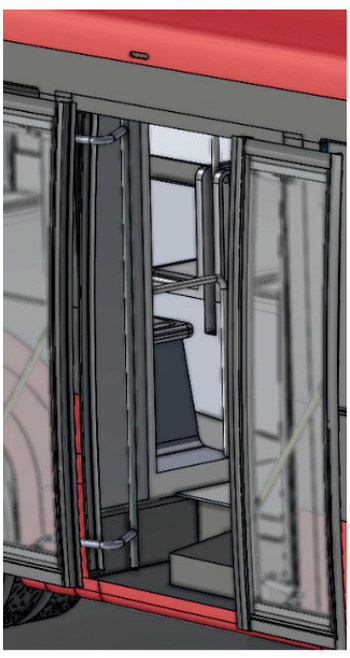
Double Leaf Out-Swing Door

DESCRIPTION



- Door leaves are constructed using Mild Steel and Aluminium Sections, fitted with single toughened glass panels for durability and aesthetics.
- Modular architecture ensures simplified installation and convenient maintenance.
- Rotating bars mounted on ball bearings enable smooth, long-lasting performance.
- Top guide pins feature bearings for quiet and efficient movement.
- Pneumatic actuator mounted on a swivel bearing ensures fluid door operation.
- High-quality profile rubber gaskets provide excellent sealing against dust, noise, and moisture.
- Equipped with pneumatic cylinders conforming to ISO 15552 standards, ensuring quality and compatibility.

ADVANTAGES

- Outward-swinging design frees up interior space by moving the door leaves outside the bus body.
- Dual-mode functionality allows both pneumatic and manual operation.
- Emergency access controls provided at both driver and passenger sides.
- Powder-coated Mild Steel parts offer extended resistance to wear and corrosion.
- Cost-effective maintenance requiring periodic lubrication of hinges, guide bearings and pneumatic cylinder bearings every 3 months or 40,000 cycle.

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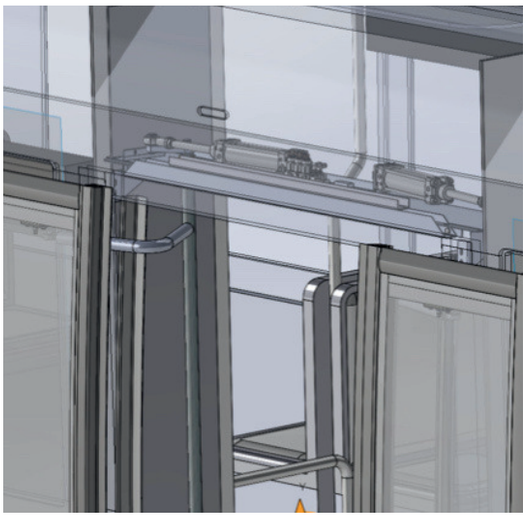
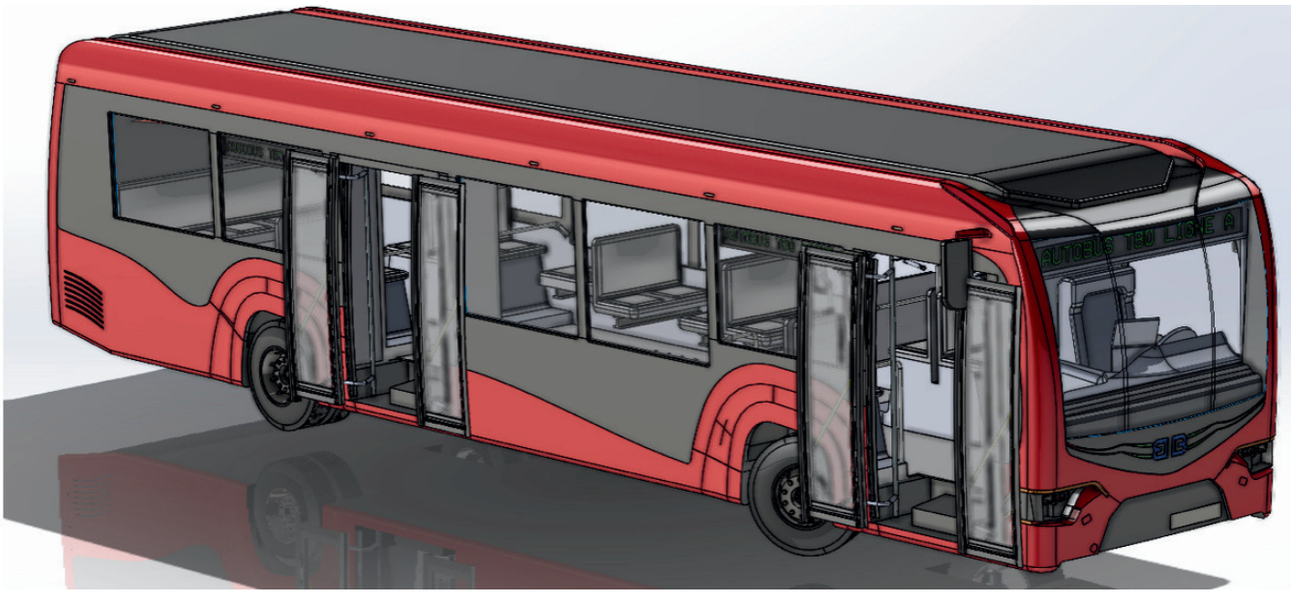


TECHNICAL DATA

- Operating Pressure: 4–6 Bar
- Aperture Width: 1210–1300 mm
- Power Supply: 24V DC ±5%
- Maintenance Interval: Every 3 months or after 40,000 cycles
- Opening Time: 4–5 seconds
- Power Consumption: 4.5W per stroke



SAFETY FEATURES

- Toughened safety glass in both door leaves enhances passenger protection.
- All components adhere to relevant Automotive ISO Standards.
- Anti-pinch functionality prevents accidental injury during door movement.
- Emergency open/close switches available both inside and outside the vehicle.
- Audible buzzer or visual indicators signal door operation for added awareness.

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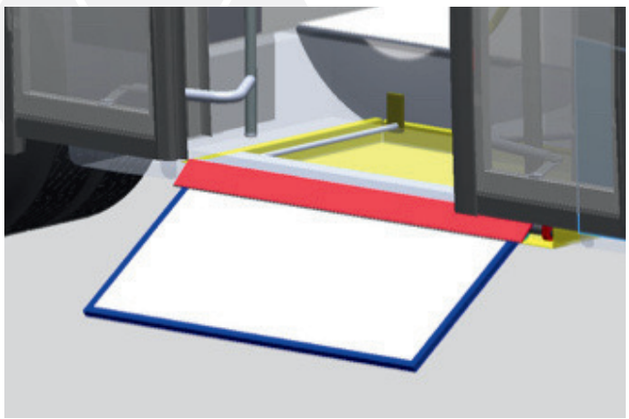
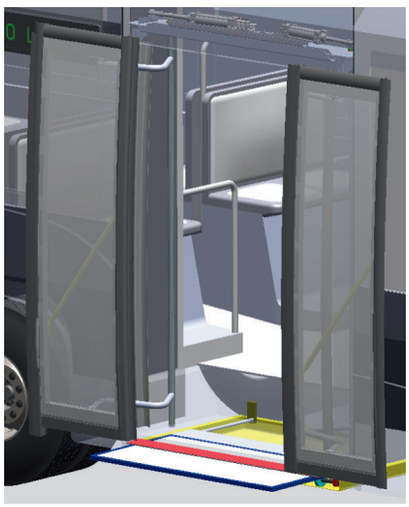
PNEUMATIC WHEELCHAIR RAMP FOR BUSES



DESCRIPTION

The pneumatic entrance ramp is designed to enable smooth and safe boarding for wheelchair users in buses. Driven by a pneumatic mechanism, it allows for automatic deployment and retraction with minimal manual effort, enhancing accessibility and operational convenience.



- Frame Construction:

  Manufactured with high-grade stainless steel outer framing and a lightweight honeycomb platform, ensuring an optimal balance between durability and reduced structural weight.

- Mounting:

  Underfloor chassis installation for optimal space utilization and seamless integration into the vehicle's structure.

ADVANTAGES

- Modular design ensures adaptability across various bus platforms
- Can be easily detached from the vehicle floor for servicing without affecting the vehicle's structural integrity
- Made with corrosion-resistant materials, suitable for extended use in varying environmental condition

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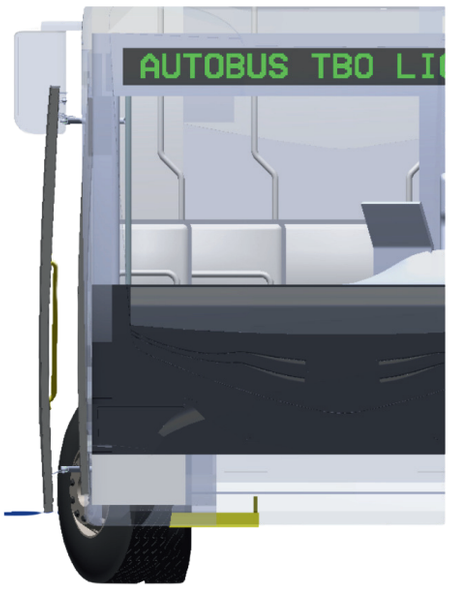
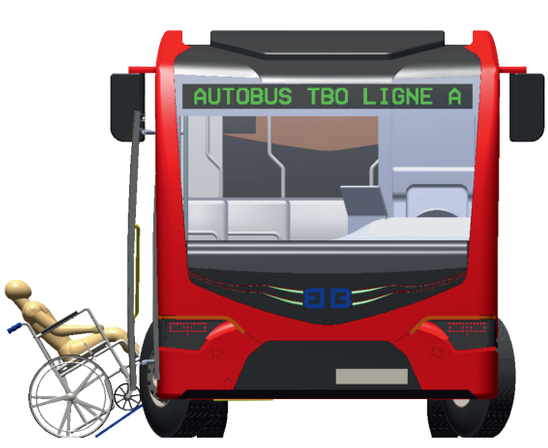


TECHNICAL DATA

- Maximum Load Capacity: 350 kg
- Ramp Width: 1200 mm
- Overextension Length: 600–750 mm
- Operation Time: 8–10 seconds
- Angular Rotation: Up to 210° ± 5° relative to the bus floor
- Power Supply: 24 V DC ± 10 V
- Power Consumption: 4.5 W per stroke
- Ramp Weight: 50 kg
- Maintenance Interval: Every 3 months

SAFETY FEATURES

- Non-slip tread surface for enhanced user safety during operation
- Proximity switches provide live status to the driver (open/closed)
- Low-maintenance design-requiring only periodic lubrication of slides and pneumatic cylinder bearings



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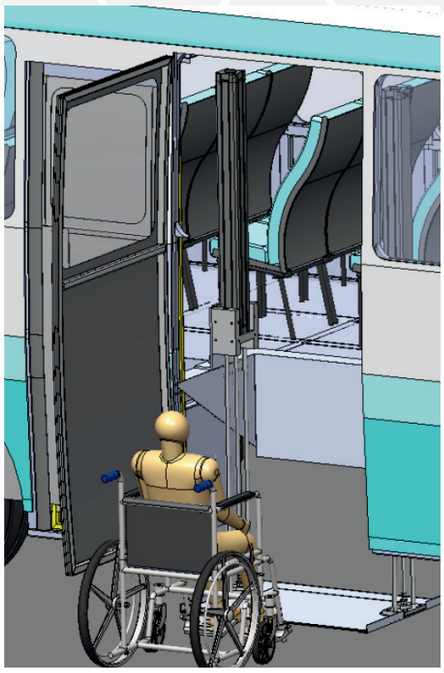
BUS PNEUMATIC WHEELCHAIR LIFT



DESCRIPTION

Developed exclusively for Haryana Roadways, the Pneumatic Wheelchair Lift enables safe, efficient boarding and deboarding of wheelchair users in buses. The system operates using pneumatic (air pressure-based) technology, eliminating the need for hydraulic or electric actuators making it ideal for public transport applications where simplicity, durability, and low maintenance are key.

ADVANTAGES

- **Minimal seat displacement**: Only 2 seats are removed, compared to 6 in typical electric lifts.
- **Versatile application**: Compatible with both low-floor and high-floor bus designs.
- **Energy-efficient**: Significantly lower power consumption than electric systems.
- **Reduced maintenance**: Fewer components result in lower wear and tear.

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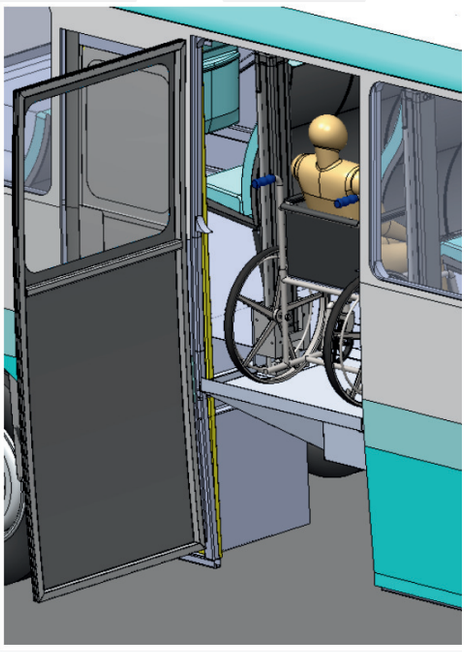
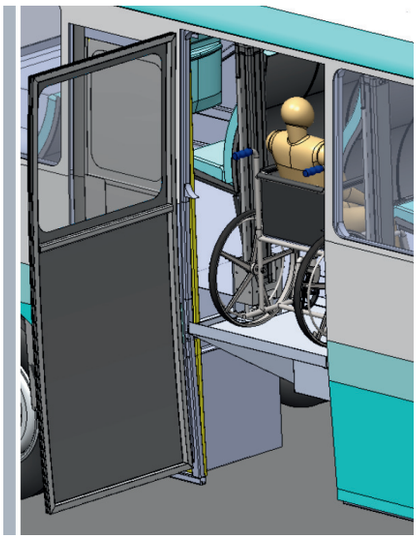
TECHNICAL DATA

Operating Pressure: 5–6 Bar (Pneumatic)
Power Supply: 24 V DC
Power Consumption: 10 W
Air Consumption per Stroke: 100 L
Installation Options:
Can be embedded directly on the chassis
Can be installed in a floor cutout
(required size: 1000 mm x 1500 mm)
Max Load Capacity: 200 kg
Operation Access: Via dedicated side body door



SAFETY FEATURES

- Lift operates only when the side body door is fully open, ensuring user safety.
- Position indicators on the driver's dashboard via dedicated light signals.
- Onboard pendant control for safe and convenient operation.
- Audible buzzer alert during lift motion to notify the driver and passengers.
- Emergency stop button for immediate halt in case of malfunction.



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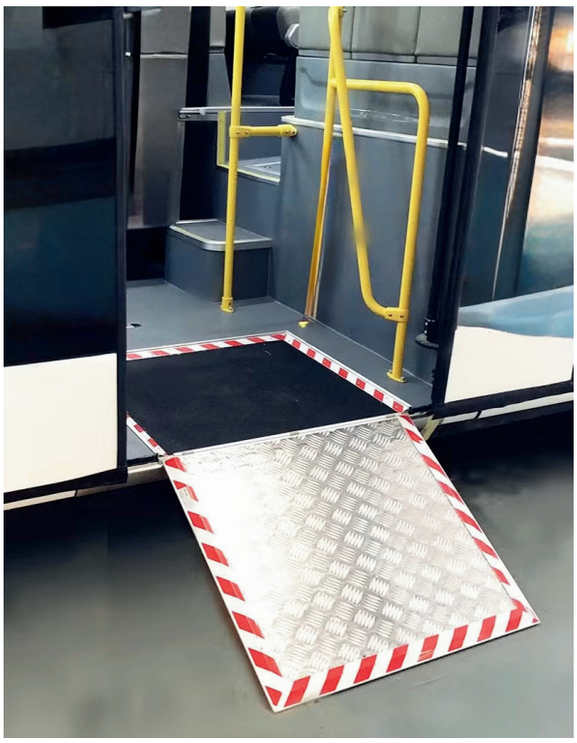

DESCRIPTION

A manual bus ramp is a foldable, non-powered device designed to provide wheelchair access on lowfloor buses. Crafted from aluminium-the ramp is light weight and corrosion resistant. It integrates seamlessly into the bus floor and remains flush when not in use. Ramp is manually operated by the driver or attendant, offering a safe and accessible entry for passengers using wheelchairs or other mobility aids.

TECHNICAL DATA

- Anti-slip surface: Equipped with a checker plate or equivalent coating to provide traction and prevent slips.
- Flush integration: When retracted, the ramp aligns with the bus floor to ensure unimpeded passage and maintain emergency-exit clearances.
- Manual deployment: Easily opened and closed by the driver or operator without needing power, ensuring dependable accessibility .

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SAFETY & FUNCTIONAL FEATURES

- Fully extended dimensions: 920 mm (L) × 735 mm (W)
- Weight: 15 kg
- Mounted directly to the bus floor using a built-in hinge
- Load capacity: up to 350 Kg

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