

ALUCA

EASE YOUR WORK

WORKSHOP ON WHEELS - BEST CASES ON TOUR



EASE

YOUR WORK

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PROLOGUE

Whether working with animals, at the farrier's anvil, in refrigeration and air conditioning technology, or in the heart of the high-voltage grid – wherever work takes place on the go rather than at a desk, the right vehicle equipment is crucial for efficiency, safety, and professionalism. In our new magazine, "Workshop on Wheels – Best Cases on Tour," we showcase the diverse nature of these requirements – and the highly customised solutions. From compact cars for urban tradespeople to mobile service vehicles for energy providers and fully equipped veterinary practices in electric SUVs: Each best case tells the story of a specific initial problem – improvised workspaces, unstructured storage, inadequate load securing, poor time and material management – and demonstrates how a well-designed vehicle interior transforms these challenges into effective work tools.

What all projects have in common is the ambition to find the right solution for every industry: robust where things get tough, heat-resistant where fire is involved, lightweight where every kilogram affects the range of an electric vehicle, and always structured so that every step is intuitive.

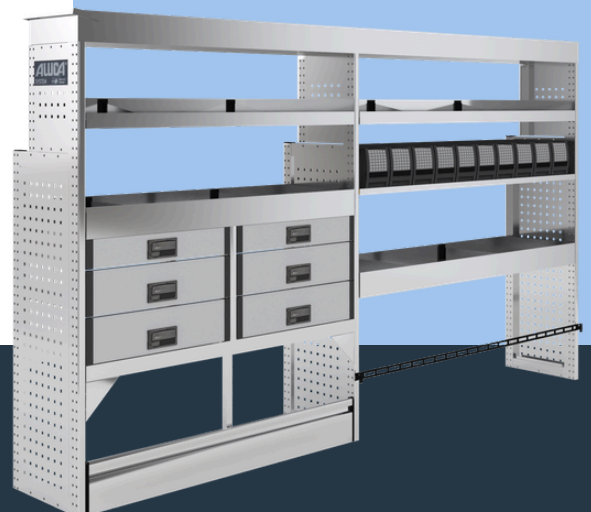
Join us on a tour through diverse industries and discover how a simple vehicle becomes a real workshop on wheels.

ALUCA
EASE YOUR WORK

**EASE YOUR WORK.
FOR OVER 30 YEARS, A QUALITY
LEADER IN ALUMINUM VEHICLE
EQUIPMENT AND A SOLUTION
PARTNER FOR MOBILE SERVICE
TECHNICIANS.**

ALUCA is a company specializing in the development and manufacture of customized vehicle equipment. Thanks to strong partners, we are always close to you and offer solutions for optimizing commercial vehicles, especially for tradespeople and mobile service providers. We place great emphasis on quality, functionality, and safety, using high-quality materials such as aluminum to ensure durable and lightweight products.

**Founded in 1993
+ 200 employees
Represented in + 20 countries
100% Aluminium
Subsidiary countries:
Germany,
Austria, Netherlands,
France, United Kingdom**



MOBILE VETERINARY PRACTICE WITH STRUCTURE

IN ACTION FOR ANIMALS –
TREATMENT IN SECONDS



INITIAL CONDITION

Veterinary care doesn't end at the clinic door.

Whether it's a routine check-up on the farm, an emergency at the patient's home, or a field call – mobile veterinarians must be able to access a full set of instruments at all times. The challenge: Medical equipment is delicate, often unwieldy, and yet must be readily available in seconds – regardless of the location.

For this project, an Audi e-tron was to be transformed into a fully equipped, mobile practice unit. The goal: to combine high-quality electric mobility with a functional, practical vehicle interior – without compromising on organisation, accessibility, or vehicle protection.

THE SOLUTION

- Vehicle: Audi e-tron, converted into a fully equipped mobile practice unit
- Centerpiece: ALUCA aluDB – modular drawer system
- Four full-extension drawers for quick, direct access to instruments and materials
- Maximum storage space with minimal weight
- All equipment neatly organized, visible, and easily accessible
- Full-extension drawers that open smoothly and completely, even when loaded
- Custom-made frames at sill height where they connect to the vehicle structure
- Clean finish, protecting both materials and the vehicle body
- Easy, practical loading and unloading for everyday use in mobile practice

THE RESULT IN PRACTICE

- Ready for treatment in seconds – required equipment is immediately accessible without searching
- Maximum storage space with minimal weight – crucial for the range and handling of an electric vehicle
- Protection for materials and vehicle – millimeter-precise custom manufacturing prevents damage and wear
- Easy loading and unloading – even under time pressure in mobile applications

INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



Conclusion

This project exemplifies how customised vehicle outfitting and electromobility can be combined. For the veterinary clinic, the Audi e-tron was transformed into a true "workshop on wheels": quiet, emission-free on the road – and with an interior organized so that every treatment can begin without delay.

VEHICLES WITH MOBILE POWER SUPPLY

COMFORT, ORDER AND ENERGY
IN A COMPACT VEHICLE



INITIAL CONDITION

This Wensink Inbouw client also uses a compact car as a service vehicle in their workshop – this time a Smart #5. As with the comparable Smart #3 project, keeping tools organised and secure is essential so that employees can travel comfortably through urban areas while remaining fully equipped. Additionally, this project required a mobile power supply to allow electrical devices to be used directly at the work site.

THE SOLUTION

- Extendable ALUCA drawers with two compartments – compact, clearly structured load securing for tools
- Zeliox power supply – mobile power source integrated directly into the vehicle
- 230 V socket – connection option for electrical devices in use

THE RESULT IN PRACTICE

- Optimal space utilisation – full tool kit on board despite the compact vehicle
- Secure cargo storage – tools remain organised and protected
- Durable & robust – high-quality workmanship for daily use
- Time savings through organisation – no searching, no rearranging
- Mobile power supply – electrical devices always ready for use, regardless of location

INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



Conclusion

The combination of the ALUCA drawer system and Zeliox power supply transforms the Smart #5 into a fully-fledged, energy-independent service vehicle. This benefits the trades business in two ways: from the manoeuvrability of a passenger car in urban areas to a mobile workshop that also enables electrical applications directly on site.

MERCEDES-AMG G 63 AS MOBILE WORKSHOP

HIGHEND-SYSTEM WITH ORDER



INITIAL CONDITION

The Mercedes-AMG G 63 is intended for use as a high-quality service and support vehicle. Tools, small parts, and measuring instruments must be stored securely, quietly, and within easy reach, without compromising driving comfort, payload, or the vehicle's sporty appearance. Access is primarily via the rear door, with frequently used equipment also requiring quick access from the side. A modular, weight-optimised solution is desired that adapts to changing applications and maximises the available storage space.

THE SOLUTION

- ALUCA drawer system in the rear with full extension slides at graduated heights
- Modular box, partition, and divider systems for clear organisation
- Quick side access to frequently used parts
- Lightweight aluminum for high stability with minimal weight
- Anti-slip pads, tie-down points, and rattle-free fixings

THE RESULT IN PRACTICE

- Significantly faster access times, less searching
- Ergonomic removal at a convenient reach, back-friendly working
- Maximum storage space utilisation despite a compact cargo area
- Secure, quiet transport without slippage
- Easily scalable and adaptable for new tasks

INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



Conclusion

With its lightweight drawer system, the Mercedes-AMG G 63 transforms into a modular, ergonomic, and prestigious mobile workshop. The solution combines premium driving dynamics with organization, quick access, and clever storage optimisation – ideal for demanding applications requiring a professional appearance.

SMART SOLUTION IN VEHICLE

COMFORT AND PRACTICALITY
COMBINED IN ONE VEHICLE



INITIAL CONDITION

A compact car is used as a service vehicle by a Wensink Inbouw customer in their workshop. Unlike traditional commercial vehicles, there is little cargo space available – yet all the tools must be transported safely and in an organised manner. The customer's requirement: Organisation and secure storage of the tools are essential, without sacrificing the comfort and manoeuvrability of a passenger car in urban environments.

THE SOLUTION

- Extendable drawers with two compartments – specifically designed for the limited interior space of the vehicle
- Clear separation of tools and small parts thanks to the dual compartments
- Full extension for quick, direct access even with a compact design

THE RESULT IN PRACTICE

- Optimal space utilisation – maximum organisation in a minimal space claim
- Secure cargo storage – tools stay in place even during urban driving
- Durable & robust – high-quality construction for everyday use
- Time savings through organisation – no searching, no rearranging

INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



Conclusion

This best-case example demonstrates that a well-designed vehicle racking system doesn't necessarily require a lot of space. With the ALUCA drawer, the tradesman's business finds the perfect balance in the Smart #3 between the comfort of a city car and the practicality of a true service vehicle – compact, organised, and ready for use.

COMPACT ELECTRIC CARS, MAXIMALLY ORGANIZED

THE MITSUBISHI EV AS A MOBILE CITY WORKSHOP



INITIAL CONDITION

The Mitsubishi EV is used as a fully electric service vehicle in urban environments. Despite its very compact cargo space, tools, measuring instruments, and small parts must be stored safely, quietly, and clearly. Access must be quick and ergonomic, both via the tailgate and from the side – without affecting the vehicle's range. A modular, weight-optimized interior design is required, one that creates order, maximises the use of available space, and speeds up daily operations.

THE SOLUTION

- ALUCA drawer system with full extension at the rear for structured tool organisation
- Modular case and divider system for small parts and consumables
- Side access via the rear side door: frequently used parts reachable without rearranging
- Lightweight aluminum components to conserve payload and reach
- Anti-slip pads, lashing points, and rattle-free fixings for safe, quiet transport
- Integrated 230V socket/box for electrical devices at the work site

THE RESULT IN PRACTICE

- Fast access, reduced search times, streamlined on-site processes
- Ergonomic retrieval at a comfortable reach, back-friendly operation
- Maximum storage space utilisation despite a very compact vehicle
- Secure, quiet transport without slippage
- Reduced overall weight thanks to lightweight construction
- Easily expandable and adaptable for new tasks

INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



Conclusion

This example shows that even in a small electric vehicle a clear, ergonomic and quiet workshop solution is possible – with clearly structured drawers, side access and modular case systems for quick processes and range-saving use in urban operation.

MOBILE SOLUTION FOR THE FIRE DEPARTMENT

EQUIPPED FOR USE IN THE FIELD



INITIAL CONDITION

Firefighters need reliable, well-organized equipment for working in varied terrain – from medical supplies and rope access equipment to tools and lighting. Despite limited cargo space, everything must be stowed securely, quietly, and quickly accessible, ideally via both the tailgate and the side. The vehicle's interior should be robust yet lightweight to maintain manoeuvrability and payload capacity, and to enable rapid handovers at the scene – for example, directly at the helipad or at hard-to-reach locations.

THE SOLUTION

- Full-extension drawer system in the rear for medical kits, PPE, and technical equipment
- Modular case and divider systems for clear separation of material groups
- Quick side access to frequently used components
- Lightweight components to reduce payload and improve handling
- Lashing points, non-slip surfaces, and rattle-free fixings
- Power/lighting solutions for working in twilight/at night

THE RESULT IN PRACTICE

- Short distances, quick retrieval, structured processes at the deployment site
- Ergonomic working heights, back-friendly handling
- Secure, quiet load securing – nothing slips, nothing rattles
- Maximum storage space utilisation despite compact vehicle class
- Modularly adaptable to seasonal requirements and teams

INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



Conclusion

The conversion provides the fire department with a clearly structured, ergonomic, and lightweight equipment solution. Full-extension drawers and modular case systems reduce search times, while non-slip surfaces and lashing points secure equipment quietly and reliably. The low weight maintains payload capacity and driving dynamics – from the approach to the helipad.

LIGHTWEIGHT CONSTRUCTION MEETS STABILITY

THE BALANCE FOR ELECTRIC SERVICE VEHICLES



INITIAL CONDITION

Electric mobility is increasingly conquering the trades sector – and for good reason. Electric commercial vehicles are environmentally friendly, efficient, and offer a sustainable alternative to conventional combustion engine vehicles. However, they also bring new challenges, especially when it comes to the proper outfitting of service vehicles. Weight plays a crucial role in electric vehicles: Every extra kilogram reduces the range and impacts energy efficiency. Against this backdrop, choosing a well-designed and lightweight vehicle outfitting system is becoming increasingly important.

THE SOLUTION

- For the VW ID Buzz demonstrator vehicle, ALUCA showcased how lightweight construction and stability can be combined in vehicle outfitting. Aluminum offers an ideal solution for striking a balance between low weight and high load-bearing capacity:
- Inset boxes for the precise, protected sorting of small items
- Heavy-duty shelf extensions for the safe transport of even heavy equipment
- MetaBox cases for mobile, robust tool transport
- aluDB as a lightweight, stable underfloor solution

THE RESULT IN PRACTICE

- Efficient space utilisation – each module optimally designed for the interior
- Secure load securing – tools and materials firmly fixed, even during dynamic driving
- Durable & robust – aluminum withstands consistently high loads
- Time savings through organisation – clear structure instead of searching and improvising

Conclusion

This best-case example clearly demonstrates why aluminum is the material of choice for the interior fittings of electric commercial vehicles: It reduces weight without compromising stability or robustness. For trades businesses that embrace e-mobility, this results in a service vehicle that optimally combines range, efficiency, and organisation.



FORD RANGER - PICK-UP WITH SYSTEM

MAXIMUM ACCESS, MINIMUM WEIGHT



INITIAL CONDITION

The Ford Ranger is intended to serve as a versatile service and assembly vehicle – often operating off-road. Materials, tools, and small parts must be stored securely, protected from the weather, and readily accessible. Access should be possible via the tailgate as well as from the side through the hardtop wings, without rearranging anything and with a clear, organised layout. A robust, weight-optimised conversion is desired, one that utilises the advantages of the pickup truck (payload, length, width) and maximises the usable work area on the vehicle.

THE SOLUTION

- Heavy-duty full-extension drawers in the rear for tools, cases, and machinery
- Side drawers/case modules behind the hardtop flaps for quick access
- Integrated work surface/drawer table at the rear for assembly and sorting
- Modular dividers, case systems, and labeling for clear organisation
- Lightweight aluminum, non-slip surfaces, and tie-down points
- Weatherproof storage space thanks to the hardtop, rattle-free securing

THE RESULT IN PRACTICE

- Short distances: Unloading from the rear and sides without repositioning
- Ergonomic working heights, safe handling of heavy parts
- Full utilisation of the platform despite structured organisation
- Quiet, safe transport even on rough roads
- Flexibly expandable for new applications and equipment

INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



Conclusion

The conversion transforms the Ford Ranger into a robust, well-organized work vehicle for both on- and off-road use. Combined rear and side access, sturdy full-extension drawers, and modular case systems ensure efficient workflows and secure equipment – all while maintaining a low unladen weight and high everyday usability.

ROLLING SMITH ON THE MOVE

FROM TOOL CHAOS TO A MOBILE PROFESSIONAL WORKSHOP

INITIAL CONDITION

A farrier arrived at ALUCA with his vehicle – and with a problem familiar to many mobile tradespeople: loose boxes, gas cylinders, and heavy machinery, secured haphazardly with ratchet straps. Anvil, grinding machine, toolbox, and heating equipment shared a cargo space without any organised structure. The result: long search times instead of smooth workflows, a high safety risk due to unsecured, sometimes hot and rotating equipment – and a workday that was more improvisation than system. The customer's wish was clear: an ALUCA vehicle racking system for better organisation, safety, and quick access.

THE SOLUTION

- Robust machine module with integrated drilling and belt grinding station
- Heavy-duty pull-out drawer with securely fixed anvil and vice, also providing a stable work surface
- Heat-resistant compartment for heating technology, neatly separated from the rest of the storage space
- Drawer towers and case systems for clear, organised storage of tools and accessories
- Dedicated, easily identifiable place for each tool instead of loose items
- LED work lighting for shadow-free visibility even in twilight and poor lighting conditions

THE RESULT IN PRACTICE

- Everything has its designated place – secure, organised, and immediately accessible.
- Significantly shorter setup and search times – tools and machines are exactly where they're needed.
- Increased workplace safety – machines, anvils, and gas cylinders are securely fixed instead of loose cargo.
- Mobile workstation with a workshop feel – drilling, grinding, and machining is possible directly at the vehicle.

Conclusion

The before-and-after comparison speaks for itself: An improvised van with loosely secured cargo has been transformed into a structured, safe, and professional workshop on wheels. For the farrier, this means not only more organisation but also noticeably greater efficiency and safety in daily work at the customer's location.



POLICE SPRINTER - TACTICAL OPERATIONS HUB ON WHEELS

ORDER ENSURES THE DEPLOYMENT



INITIAL CONDITION

In everyday police operations – from traffic accidents and search missions to special operations – a van is needed that keeps equipment organised, secure, and readily accessible. At the scene, different teams should be able to work simultaneously: rear access for large equipment, and side compartments for documentation, security, and communication. The van's interior must be robust, quiet, and weight-optimised.

THE SOLUTION

- Heavy-duty full-extension drawers at the rear for equipment, cases, and barrier systems
- Modular drawer and case systems with clear labelling
- Side work and storage areas for documentation/checklists
- Lashing rails, non-slip surfaces, and rattle-free securing devices
- Integrated power supply, lighting, and interfaces for radio/IT
- Robust lightweight components for high payload and smooth transport

THE RESULT IN PRACTICE

- Fast, intuitive access without rearranging
- Simultaneous work at the rear and side, clear process control
- Safe, quiet transport of sensitive equipment
- Maximum usable area with structured organisation
- Scalable for different layers and equipment sets

INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



Conclusion

The conversion transforms the Sprinter into a tactically usable work platform for police operations. Clearly labelled modules, a load-bearing full extension, and side work areas reduce search times and enable parallel workflows. Secure fixings and integrated power and interface supply protect equipment, keep noise levels low, and increase operational reliability – from arrival to situation management.

ELECTRICAL AND TANK TECHNOLOGY SAFELY KEPT IN THE SPRINTER

SECURED IN COMPLIANCE WITH NORMS



INITIAL CONDITION

For work involving electrical and tank technology, a transporter is needed that can safely, upright, and in accordance with standards stow sensitive components, compressed gas cylinders or tanks, and specialised tools. Quick access is required at the work site, while transport routes must remain clear and the load must be reliably secured even during emergency braking. The vehicle's conversion should allow for a clear separation between energy supply components, tools, PPE, and accessories, integrate lighting and power supply, and remain as lightweight as possible despite a high payload.

THE SOLUTION

- Vertical mounting rails and form-fitting brackets for bottles/tanks, each with tested strapping systems
- Modular shelves, drawers, and compartments for measuring instruments, adapters, hoses, and small parts
- Floor and wall lashing (airline rails) for flexible securing points
- Clear marking of the dispensing direction and a clear foot/work area at the rear
- Integrated LED work lights and 230V/12V interfaces for device operation and charging
- Lightweight aluminum components for low weight and smooth transport

THE RESULT IN PRACTICE

- Fast, intuitive access without rearranging – defined removal paths
- Secure, standards-compliant fixing of bottles/tanks and equipment
- Quiet transport, no loose parts, less wear and tear
- Clear separation of material groups, less search time
- High payload capacity thanks to lightweight construction, stable handling
- Easily adaptable for additional components or changing sets



Conclusion

The conversion transforms the Sprinter into a structured and safe work platform for projects in electrical and fuel technology. Vertical brackets with certified safety features, modular storage solutions, and integrated power connections ensure fast, traceable processes and protect sensitive components during transport. This keeps access unobstructed, materials secure, and allows teams to work efficiently and with a clear overview at the work site.

THE PERFECT SETUP FOR MOBILE GARDENER'S

ERGONOMICALLY POSITIONED
AND ALWAYS WITHIN EASY
REACH



INITIAL CONDITION

The VW Crafter with all-wheel drive is used in landscaping (forestry, gardening, and landscaping) both for transporting people and as a mobile work base. Thanks to its long wheelbase, there is plenty of space for equipment and the team – however, a structured, ergonomic, and weatherproof solution is needed in which a complete set of equipment can be safely stored and quickly accessed. In addition, maintenance and repair work should be possible directly on site, including storage space for work clothes, helmets, tools, and spare parts.

THE SOLUTION

- Full extension drawers and tool holders for Makita machines: electric chainsaws, long-reach pole saws, trimmers, and compatible accessories
- Side rail systems and modular cases/drawers for Makita batteries, chargers, small parts, and consumables
- Ergonomic access heights, secure mounting, and non-slip surfaces for quick and safe access
- Storage zones for PPE: workwear, helmets, gloves, and safety glasses
- Integrated workbench with tool modules and spare parts compartments for on-site maintenance/repairs
- Lashing rails, strap systems, and rattle-free fixings for quiet transport – even off-road

THE RESULT IN PRACTICE

- All devices and batteries immediately accessible, clear layout within the vehicle
- Reduced search times, faster start at the deployment site
- Safe, quiet transport of machines and power systems
- PPE neatly stored separately from tools and machines
- Maintenance and repair work possible directly on site
- High everyday usability off-road thanks to 4x4 and robust construction



Conclusion

The Mobile Gardener van becomes a clearly structured base of operations for landscaping – equipped with Makita machines and a suitable battery infrastructure. Saws and trimmers are ergonomically stored and quickly accessible; PPE, tools, and spare parts have designated places. This ensures efficient operations, safe transport of equipment, and maintenance directly on the construction site.

AGRICULTURAL MACHINERY SERVICE AT ITS BEST

LIGHTWEIGHT, ROBUST, DURABLE
– AND FULLY MODULAR



INITIAL CONDITION

LMB Roelofs has been a trusted name in the region for years – a family business with strong roots in agriculture, committed to providing reliable service to farmers, agricultural workers, and civil engineering companies. Until now, their service vehicle was haphazardly equipped: tools rattled around in the back, there were no designated spots, and every service call involving farm machinery like balers or harvesters required a degree of improvisation.

THE SOLUTION

- Integrated worktop – stable, non-slip, and ready for on-site repairs
- Bright lighting inside and outside the vehicle for safe working even in low light
- Drawer and shelf system for organisation and quick access to tools
- Organised cable management with secure fastening – no more tangled cables
- Secure storage and firm fixation of all tools and equipment

THE RESULT IN PRACTICE

- A designated place for everything – saves time, provides clarity, and increases safety
- No more rattling in the rear of the vehicle – everything is securely fastened, resulting in a noticeably smoother ride
- Faster, more organised workflow – less improvisation on site



Conclusion

For LMB Roelofs, the vehicle racking system turned out exactly as the customer had hoped – the next one has already been ordered. This best-case scenario impressively demonstrates that where tools have a designated place and cables are neatly routed, work in agricultural machinery service is faster, more organised, and requires significantly less improvisation.

FITTING FOR A BREAKDOWN ASSISTANCE VEHICLE

ALL-TIME READY FOR ACTION



INITIAL CONDITION

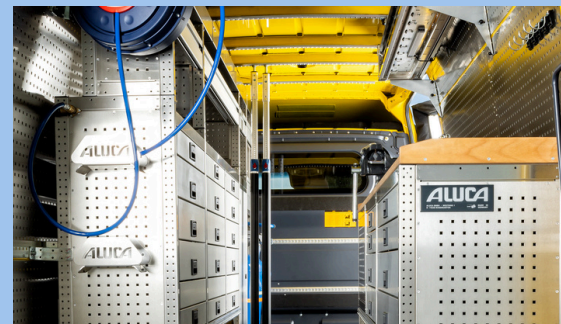
A breakdown assistance vehicle must be ready for deployment within a very short time – equipped with a full set of tools, its own power supply, compressed air, and good visibility at the scene. For this project, a Sprinter was to be converted into a true all-in-one breakdown assistance vehicle, combining all the necessary technical systems in a customised interior.

THE SOLUTION

- Custom vehicle interior fittings with drawers, workbench, and pegboards for flexible tool mounting
- Compressor with pre-installed lines for immediate use of compressed air on-site
- Extendable drawers for optimal space utilisation, even in confined spaces
- Power supply for operating electrical equipment directly at the work site
- Roof rack for additional storage space, such as for warning cones or accessories
- Amber light and rear guidance systems for maximum visibility and safety on the road

THE RESULT IN PRACTICE

- Optimal space utilisation – every compartment, every drawer, and every centimetre is used efficiently
- Immediately ready-to-use technology – compressed air and power supply available directly on the vehicle
- High safety during operation – excellent visibility thanks to amber light and rear guidance systems
- Everything from a single source – ALUCA as an all-in-one solution for equipment and technology



Conclusion

This best-case example demonstrates how a breakdown assistance vehicle can be transformed into a fully equipped mobile workshop with a well-designed, customised interior – complete with its own power and compressed air supply, optimal space utilisation, and high visibility during operations. Create order, increase revenue – start now.

WORKSHOP ON WHEELS: HVAC TECHNOLOGY

ESSENTIALS FOR A SMOOTH SERVICE OPERATION



INITIAL CONDITION

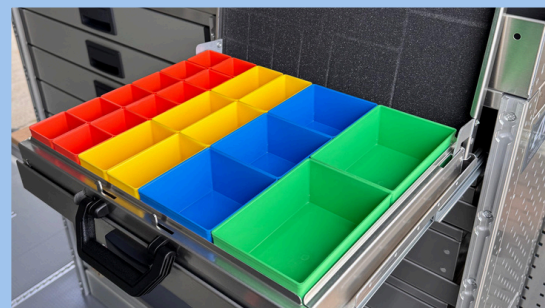
Service vehicles for refrigeration and air conditioning technicians are essentially "mobile workshops." In daily operations, every minute counts: spare parts must be readily available, tools securely fastened, and the workspace ergonomically designed to minimize downtime at the customer's site. The central question for this project was therefore: What are the essential items that a refrigeration and air conditioning service vehicle must have to ensure that organisation, accessibility, and workplace safety truly function smoothly in everyday use?

THE SOLUTION

- Pull-out workbench – mobile workspace directly at the vehicle, removable when needed
- Lashing rails for reliable load securing on the vehicle walls
- Drawers for structured, protected storage of tools and small parts
- Shelf with V-boxes for clearly sorted, easily identifiable spare parts
- Case shelves for quick access to mobile tool cases in use
- Inset boxes with color-coded compartments for the precise sorting of small parts

THE RESULT IN PRACTICE

- Clear organisation instead of searching – every part has its designated, easily identifiable place
- Quick access to frequently used spare parts – fewer trips, less time wasted
- Secure tool fixation – load stays in place even when cornering and braking
- Good ergonomics – everything within easy reach
- Minimised downtime, maximised workplace safety – directly noticeable in customer use



Conclusion

For refrigeration and air conditioning technicians, this best case demonstrates how many small, well-thought-out modules can combine to create a great effect: A classic van becomes a fully-fledged mobile workshop that saves time in everyday use, creates safety and enables a professional appearance for the customer.

ENERGY SUPPLY IN APPLICATION

SAFE AND EFFICIENT WORK WITH A SYSTEM



INITIAL CONDITION

For maintenance, fault repair, and network service in the energy sector, a long-wheelbase van is required that can safely and clearly accommodate measuring instruments, tools, spare parts, and personal protective equipment (PPE). During operation, material groups must be clearly separated, frequently used parts must be quickly accessible, and sensitive equipment must be mounted with minimal vibration. The van's design should allow for a high payload, quiet transport, and provide a clean documentation/work area.

THE SOLUTION

- Double-sided shelving systems with full/partial extension drawers in various heights
- Drawers with compartments for small parts, fuses, connectors, and test probes
- Equipment compartments with holders for measuring/testing equipment and cases
- Pocketboards and hook rails for hand tools and cables
- Work surface with storage, optional lighting and 230V/12V connections
- Lashing rails, non-slip mats, and rattle-free fixings

THE RESULT IN PRACTICE

- Fast access to frequently used consumables and measuring instruments
- Structured separation of material groups, reduced search times
- Quiet, safe transport of sensitive equipment
- Efficient processes for malfunctions, maintenance, and commissioning
- Expandable for future equipment sets and standards



Conclusion

The conversion transforms the long-wheelbase Sprinter into a reliable service and maintenance base for energy supply. Clearly organised shelves and drawers, secure equipment mounts, and defined work zones reduce search times, protect equipment, and accelerate network service operations.

ERGONOMICS IN THE VEHICLE

MORE SPACE,
CLEAR ORGANISATION
AND HIGH PAYLOAD

INITIAL CONDITION

The service vehicle lacked a clear organisation system for tools, measuring instruments, and small parts. This led to searching for items, unnecessary movements, and an uneven load distribution. The goal of the redesign was to shorten access routes, support ergonomic workflows, and make better use of the available space.

THE SOLUTION

- Modular shelving system with drawers and full-extension slides
- Functional zones based on frequency of use: frequently used materials within easy reach
- Labelled small parts drawers for quick overview and restocking control
- Non-slip base and secure locking mechanism for equipment
- Adaptable modules for future product range changes
- aluDB raised floor for optimal space utilization

THE RESULT IN PRACTICE

- Noticeably shorter setup and access times at the work site
- Less bending and twisting thanks to low-profile reach heights
- More even load distribution, smoother driving and working behaviour
- Staying organised remains stable even after multiple uses
- More transparent inventory, fewer shortages



Conclusion

The structured vehicle racking system organises materials according to use and weight, shortens distances, and supports ergonomic movements. The result is faster processes, reliable inventory, and a vehicle architecture that remains clear and organised even with changing tasks.

ORDER IN THE SERVICE VEHICLE

THE GAME CHANGER FOR EFFICIENT WORK



INITIAL CONDITION

Service vehicles for network operation, house connections, and fault repair are mobile assembly stations. In operation, every minute counts: measuring cases, metering materials, and connection technology must be immediately accessible, heavy assemblies securely fastened, and the work area designed so that even bulky meter cabinets or cable drums can be quickly loaded and ergonomically handled on site. The central question was: What absolutely must be in an energy supplier's service vehicle to ensure order, access, and workplace safety function reliably during daily standby and installation operations?

THE SOLUTION

- Large drawer module with full extension slides for tools and spare parts
- Partition with case/assortment holders and colour-coded small parts boxes
- Pocketised panels on both sides with horizontal lashing rails and tie-down points
- Wide, non-slip center aisle for meter cabinets, cable drums, and measuring cases
- Extendable vice workstation for quick repairs
- LED interior lighting for optimal visibility

THE RESULT IN PRACTICE

- Clear organisation instead of searching – every part has a defined, easily identifiable place
- Quick access instead of wasting time searching – frequently used parts are within easy reach and clearly labelled
- Secure load securing – even heavy assemblies remain stable during braking and cornering
- Ergonomic workflows – a clear central zone and full extension drawers enable back-friendly work

Conclusion

Service vehicles with modular, easy-to-clean interiors create clear order and quick access without time loss, reliably secure tools and assemblies and enable ergonomic processes, thereby measurably reducing setup and downtime, making operations safer and more efficient, and ensuring a consistently professional appearance for the customer.

INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



THE FIRE DEPARTMENT'S COMMAND VEHICLE AS A TRENDSETTER

COORDINATION AT THE TOUCH OF A BUTTON



INITIAL CONDITION

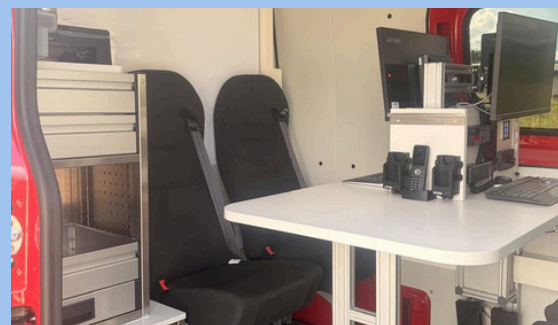
Fire departments need compact, flexible command vehicles that efficiently support on-site command and control. Requirements include two fully equipped communication and IT workstations, clearly structured storage space for Euroboxes, and an integrated charging solution for radio and operational equipment. Sensitive devices and documents must be securely stored; separate modules such as a heavy-duty drawer for heavy equipment and a hygiene drawer ensure clean, ergonomic workflows.

THE SOLUTION

- Modular rear conversion with Euroboxes on a rail system
- Heavy-duty pull-out drawer for ergonomic handling of heavy equipment
- Separate hygiene drawer/module
- Two radio/PC workstations including built-in components (tables, mounts, integration)
- Integrated mounts and charging cradles for TETRA/DMR handheld radios
- Additional power and charging infrastructure within the conversion
- Safe with combination lock for sensitive equipment/documents
- LED interior lighting in the work and storage area

THE RESULT IN PRACTICE

- Shorter setup times: Modular Eurobox rear extension with rail system ensures quick, structured access.
- Ergonomics and safety: Heavy-duty pull-out drawers enable back-friendly, safe handling of heavy equipment.
- Order instead of chaos: Inset boxes/modular organisation keep small items readily accessible and eliminate search times.
- Increased operational readiness: Integrated mounts and charging infrastructure in the extension keep devices ready for use.



Conclusion

Lightweight, modular interior fittings create clear structures and accelerate processes within the command vehicle. A well-designed storage system reduces setup times, while ergonomic heavy-duty drawers facilitate handling. The weight-optimised aluminum base maximises payload and contributes to stable vehicle dynamics. The result: improved visibility, faster decision-making, and more reliable operations.

MEDICAL SUPPLY SERVICE ON TOUR

HOW A SMART VEHICLE INTERIOR DESIGN SIMPLIFIES WORK



INITIAL CONDITION

A medical supply company requires a standardised service vehicle concept for a fleet of approximately 20 vehicles. The focus is on the transport, delivery, on-site maintenance, and repair of patient lifts/stairlifts and rehabilitation aids. Requirements include secure load securing for high-value medical technology, robust storage solutions with heavy-duty drawers, and a reliable 230V power supply for tools and testing equipment.

THE SOLUTION

- Double-sided shelving systems with full-extension drawers
- Perforated wall panels around the perimeter for flexible tool and parts storage
- Lashing rails in the floor for variable, standard-compliant load securing of large equipment
- Inverter/charger unit for 230 V on-board power (tools, test equipment)
- Side-mounted work module with fold-down workbench
- LED interior lighting for safe work in the cargo area

THE RESULT IN PRACTICE

- Faster service response times: clear storage logic, less search time
- Increased transport safety: valuable medical equipment reliably secured
- Mobile repairs/testing on-site: 230V on-board power reduces second trips
- Improved ergonomics and process quality: integrated workbench work zone
- Future-proof and scalable: modular design facilitates adaptations and fleet rollout
- Better visibility in poor lighting conditions: LED lighting supports safe working



Conclusion

The compact Vito conversion combines clear organisation, secure load securing, and mobile power supply to create a practical service vehicle for rehabilitation and medical technology. The result: faster processes, fewer damages, a higher first-response rate, and a concept that can be efficiently rolled out across the entire fleet.

SERVICE VEHICLE WITH SYSTEM

MAXIMUM ORDER FOR SERVICE OPERATIONS



INITIAL CONDITION

Before the conversion, tools, small parts, and machinery were only provisionally organised in the vehicle. This led to lengthy search times, unnecessary trips between the rear and side access points, and unsecured equipment in the cargo area. For network repairs, troubleshooting, and utility connections, the team wanted a robust, uniformly structured interior with a clear separation of material groups, easily accessible machine stations, and a durable external work area—ideally designed so that the most important tasks could be performed directly at the open tailgate.

THE SOLUTION

- Locking bar for flexible load securing in the cargo area
- Workbench with a sturdy worktop for mobile assembly and repair work
- Fire extinguisher stored safely and within easy reach
- Spacious drawers for organised tool and material storage
- Metaboxes for small parts management with quick visual and access organisation
- V-boxes for modular transport units

THE RESULT IN PRACTICE

- Significantly improved organisation and faster loading and unloading processes
- Increased workplace safety through secure fastening and clearly defined workspaces
- Ergonomic work processes thanks to workbenches and short distances
- Space-optimised use of cargo space through modular box and drawer systems

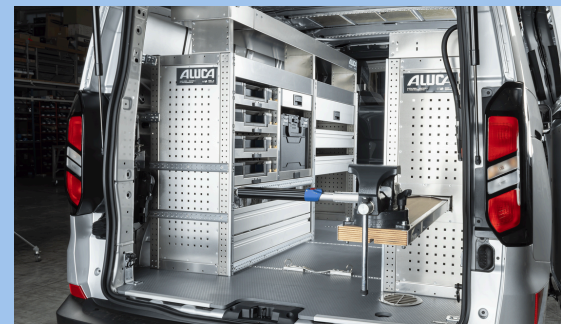
INDIVIDUALISATION

STORAGE SPACE OPTIMISATION

CROSS-INDUSTRY FLEXIBILITY

ERGONOMICS & ACCESSIBILITY

WEIGHT MINIMISATION



Conclusion

The customised vehicle racking transforms the Transit into a tidy, safe, and efficient mobile workshop. Thanks to a clear structure, durable components, and smart load securing, teams gain significant time savings, work more ergonomically, and can transport materials and tools with reliable protection.

THE VETERINARIAN ON MOBILE DUTY

EFFICIENT TREATMENT DIRECTLY FROM THE TOYOTA LAND CRUISER

INITIAL CONDITION

The mobile veterinarian needs a robust, hygienic, and clearly organized setup in the Toyota Land Cruiser. Medications, instruments, and supplies must be shockproof, temperature-controlled, and readily accessible. At the same time, ergonomic workflows at the rear of the vehicle are essential for quickly and safely preparing treatments in the field—without lengthy searches or rearranging. The mobile veterinarian needs a robust, hygienic, and clearly structured setup in the Toyota Land Cruiser.

THE SOLUTION

- Full-extension drawers with deep compartments for instruments, medications, and supplies
- Shallow drawers for documents, syringes, needles, and dressings
- Non-slip shelf/work surface at the rear for sterile preparation
- Secures and dividers to prevent slippage and breakage
- Space prepared for a cooling unit/cooler for medication storage

THE RESULT IN PRACTICE

- Significantly shorter setup and search times at the scene
- Clean, hygienic organisation of sensitive materials
- Secure storage even on rough terrain
- Ergonomic working at the rear of the vehicle, everything within easy reach
- Fast inventory check and refill logic thanks to modular boxes



Conclusion

By installing the vehicle racking system, the Landcruiser becomes a mobile practice with streamlined processes. The combination of deep drawers, modular boxes, and a secure work surface ensures maximum organisation, protects sensitive materials, and enables the veterinarian to perform efficient and safe treatments directly on site.

THE EQUINE BLACKSMITH'S VEHICLE AS A MOBILE SHOP

STRUCTURE INSTEAD OF SEARCH TIME FOR FARRIERS



INITIAL CONDITION

For the daily work of a farrier, a robust vehicle racking system is essential, one that securely holds the anvil, tools, supplies, and machinery while simultaneously enabling ergonomic work directly at the rear. Distances must be short, heavy components securely fastened, and delicate tools neatly organized. Furthermore, a sturdy work surface is necessary, allowing for the work on horseshoes and the preparation and follow-up of work steps in the field.

THE SOLUTION

- Heavy-duty drawer unit with full extension slides for horseshoes, nails, pliers, and rasps
- Sturdy, fold-out work surface at the rear
- Tool compartment/holders for grinding tools/machines and power supply
- Compartment with safety device for gas/oven or heat source
- Lashing and securing systems for anvil and heavy equipment
- Non-slip shelves and edge protectors for safe storage of materials

THE RESULT IN PRACTICE

- Short setup times: everything within easy reach, every movement intuitive
- Secure storage of heavy components, even on rough terrain
- Ergonomic work at the rear of the vehicle thanks to the fold-out work surface
- Clean layout prevents search times and material loss
- Robust in continuous use: less wear and tear, higher reliability



Conclusion

The farrier's vehicle transforms into a mobile workshop with clear organisation and maximum stability. Drawers with full extension slides, secure brackets, and the fold-out work surface ensure efficient workflows, protect equipment, and enable precise work directly on site.