



**JAKOB MINING
VEHICLES**

MOBILITY FOR MINING

PIONEERING THE FUTURE OF
ECO-FRIENDLY MINING OPERATIONS



MADE IN GERMANY



WE GO DOWN AND DIRTY

OUR TRUSTED PARTNER IN MINING MOBILITY SOLUTIONS

At JMV, we specialize in cutting-edge electric mining vehicles, offering customized training, expert technical support and comprehensive after-sales services.

As a family-owned business, we prioritize quality, sustainability, and innovation to ensure exceptional customer satisfaction. 'Our goal is to offer a seamless, worry-free service to our clients,' says Peter Jakob, President and Founder of JMV.

MARKET DOMINANCE:

- >** 1834 units delivered since 2010
 - >** Units operating at depths exceeding 1500 meters
 - >** Annual spare parts sales of over 3.6 million Euros
-

WHO WE ARE

OVER FOUR DECADES OF EXPERIENCE AND INNOVATION

JMV, with more than 40 years of expertise, has delivered over 1000 specialized vehicles for a range of industries.



Benjamin Jakob // CEO

Peter Jakob // President & Founder

Our team excels in converting vehicles for underground mining, emergency rescue operations and more. We take pride in delivering customized solutions that meet the unique demands of every sector we serve, from disaster relief to corporate fleets.

FOCUSED ON SUSTAINABLE GROWTH

- JMV continues to grow organically by building lasting partnerships with our clients.
- Our global sales and service teams provide personalized support in key markets.
- We offer a competitive total cost of ownership, understanding the challenges of high wear-and-tear environments.
- By directly sourcing equipment and manufacturing in-house, we minimize costs while maintaining the highest quality standards.



COMPANY

SALES

// OVER 40 YEARS
OF EXPERTISE IN CUSTOM
VEHICLE MANUFACTURING

// COMPREHENSIVE
FLEET MANAGEMENT
AND OPTIMIZATION SERVICES

OPERATOR TRAINING

SPARE PARTS

// EXTENSIVE TRAINING
FOR DRIVERS AND TECHNICAL STAFF

// EXCEPTIONAL
AFTERSALES SUPPORT
FOR SPARE PARTS

AFTER SALES SERVICE

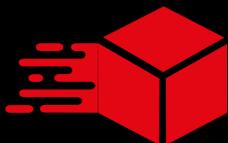




We import and export worldwide

About **Components**

- We are the only Dodge dealer in Europe with a factory contract in Detroit for the import of the Dodge RAM 5500.
- We have a direct factory contract with Stellantis for all brands of Stellantis
- We have almost half a century of experience in the unique conversion of vehicles for the mining sector.



STREAMLINED GLOBAL DELIVERY

We simplify the process by packaging and delivering parts for specialized vehicle assembly anywhere in the world.

Semi-knocked down units, such as tanks and compartments, provide the necessary supplies for the assembly of complete superstructures, which is an essential process for producing mining vehicles. Our process includes:

EFFICIENT ASSEMBLY SOLUTIONS FOR MINING VEHICLES

- Custom technical specifications tailored to client needs.
- Chassis and application configurations adapted to local regulations and user requirements.
- Value-added local components for seamless assembly and reduced lead times.



Logistics

GLOBAL IMPORT AND EXPORT SERVICES

- Low transport costs and duty exemptions in select regions.
- End-to-end logistics management by our expert commercial team, covering shipping methods, packaging, customs documentation, and more.



This zero-emission vehicle combines durability with high payload and towing capacity for rugged terrain, offering eco-friendly operations without sacrificing performance. Ideal for businesses aiming to reduce their carbon footprint and enhance field efficiency.

With its advanced electric powertrain, it delivers reliable performance even in challenging environments, making it the perfect choice for businesses aiming to reduce their carbon footprint while maintaining operational ability.





OUR VISION:

PIONEERING INNOVATION IN MINING MOBILITY

Our fully electric 4x4 vehicles are engineered to tackle the toughest terrains and missions, offering unmatched performance and reliability. Designed and developed in Germany for the future of mining.

BUILDING A SUSTAINABLE FUTURE

Discover the future of eco-friendly mining with JMV's latest innovation: the JMV "TERRA CHARGE #1". This all-electric 4x4 pickup truck is a game-changer for the industry, combining zero-emission technology with the durability required for mining operations.





The JMV “TERRA CHARGE#1” is the first all-electric light vehicle from Jakob Mining Vehicles that has been specially developed for the extreme conditions in mining. With state-of-the-art battery technology and a particularly robust design, the JMV Vehicle sets new standards in terms of efficiency, safety and environmental friendliness.

TECHNICAL DATA:

Drive High-performance electric motor with an output of over 200 kW
Range: Up to 250 km on a single charge
Battery: Safe LFP battery system with digital battery passport for maximum transparency and service life
Payload: Up to 1050 kg payload
Charging time: Quick charge to 80% in less than 1 hour
Safety: Equipped with the latest safety systems and ISO 19296-certified
Maintenance: Low maintenance costs thanks to modular design and advanced telematics system

DESIGN AND DEVELOPMENT:

Robustness: Designed for harsh underground operation, with a sturdy body that resists impact and corrosion.
Efficiency: Optimized for long operating times with minimal downtime
Safety: Comprehensive safety system that meets mining requirements, including emergency devices and state-of-the-art sensors.

SAFETY FEATURES:

- *ISO 19296 Certification: Ensuring compliance with the highest safety standards for mining operations.*
- *ROPS Certified (ISO 3471) Roll Over Protective Structure to safeguard operators in the event of a vehicle rollover.*
- *FOPS Certified (ISO 3449 - Level II) Provides protection from falling heavy objects like rocks and debris, ensuring the operator’s safety.*
- *Wearable Safety Devices: Integrates modern safety solutions to monitor environmental hazards & worker well-being.*
- *Comprehensive Operator Training: Extensive training provided to maximize vehicle safety and efficiency.*

ENVIRONMENTAL PROTECTION:

Zero emissions: all-electric drive reduces CO₂ emissions to zero.
Energy efficiency: ... Reduced energy consumption thanks to optimized drive technology and recuperation.
Recycling: Use of a digital battery passport to track and reuse batteries, supports EU directives on raw material recycling.
Ventilation costs: Reduced ventilation costs in mines by eliminating exhaust gases.



**JAKOB MINING
VEHICLES**

THE JMV TERRA CHARGE #1

A CUTTING-EDGE ELECTRIC 4X4 DESIGNED FOR MINING!

The JMV "TERRA CHARGE #1" makes a significant contribution to reducing the ecological footprint of the mining industry. By using zero-emission drive systems and advanced recycling methods for vehicle components, the vehicle represents an environmentally friendly alternative to traditional diesel vehicles.



New cooling module



Heavy duty steel bumper with tow eyes

DANA 60 axle with leaf springs

STANDARD EQUIPMENT:

ABS 4 disc brakes,
Aircondition, Airbags,
Power steering, Skidplates,
Full size spare Tire,
Tilt steering column.,
Autom. Transmission,
Diesel engine

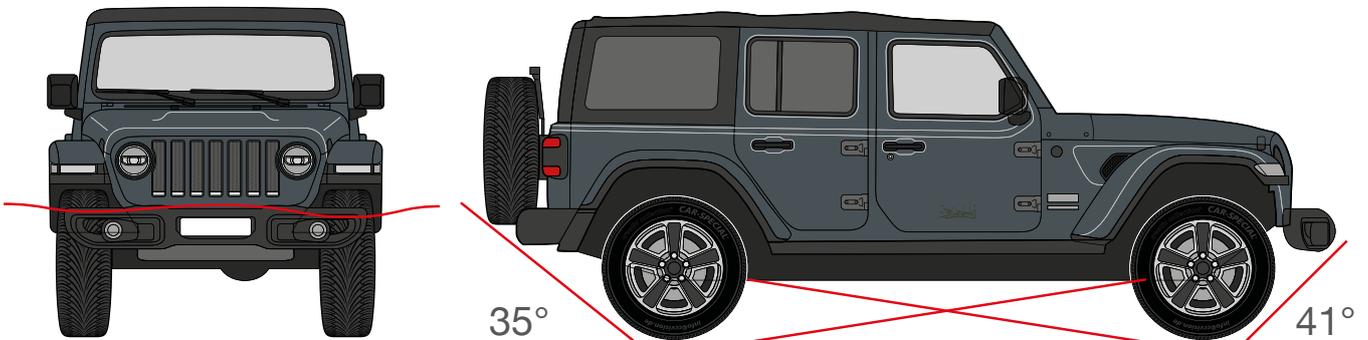
Application area:

underground-mining

Base vehicle:

military version of Jeep® Wrangler – “J8” and civilian Wrangler

- Homologation and import; Complete conversion according to customer requirements
- Programming of specific vehicle software

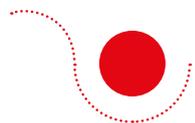


Fording depth 760 mm

Departure angle 35°

22° Ramp break-over angle

Approach angle 41°



Turning Circle 5,9 m

DIMENSIONS: L4785 x W1885 x H1832 mm

GROUND CLEARANCE: 237 mm; Wheelbase 3008 mm



Car can be open at the top or fully closed

Fresh air savior

DANA 44 axles with upgraded shocks and springs

245/70 17 tires on steel wheels optional

Reinforced chassis 1164 kg payload

Jeep® Wrangler

J8 Mining Heavy Duty Version

Designed for extreme underground mining conditions, this version boasts over double the payload capacity and triple the durability.

Jakob Mining Vehicles ensures that only the best vehicles are adapted for underground mining, fully compliant with industry standards such as KlimaBergV, TRGS 554, and ISO 19296:2018.



Application area:
Underground mining

Base vehicle:
*Military Version
Jeep® Wrangler*

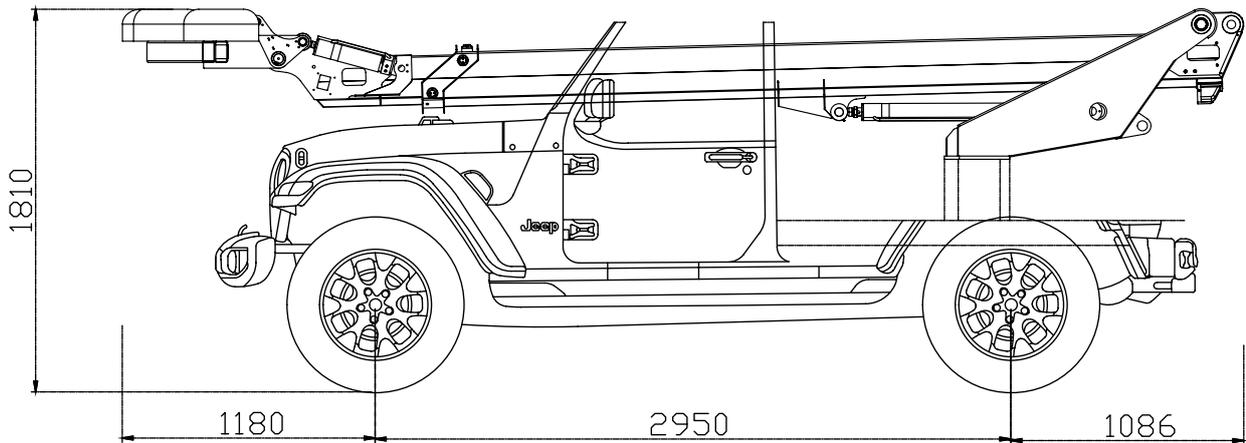
Jeep® Wrangler

RIDGE RADAR

Regular checks of mine workings using radar measurement have been the preferred technique for many years, as compared to the conventional pilot hole measurement method. Radar measurement allows for monitoring between individual pilot holes, with reliable evaluations down to an observation depth of 3 meters. In addition to identifying detachments in the mountains, geological anomalies can also be detected using radar measurement. This leads to a more targeted and effective implementation of security measures at a section height between 1.85 meters and 7.00 meters.

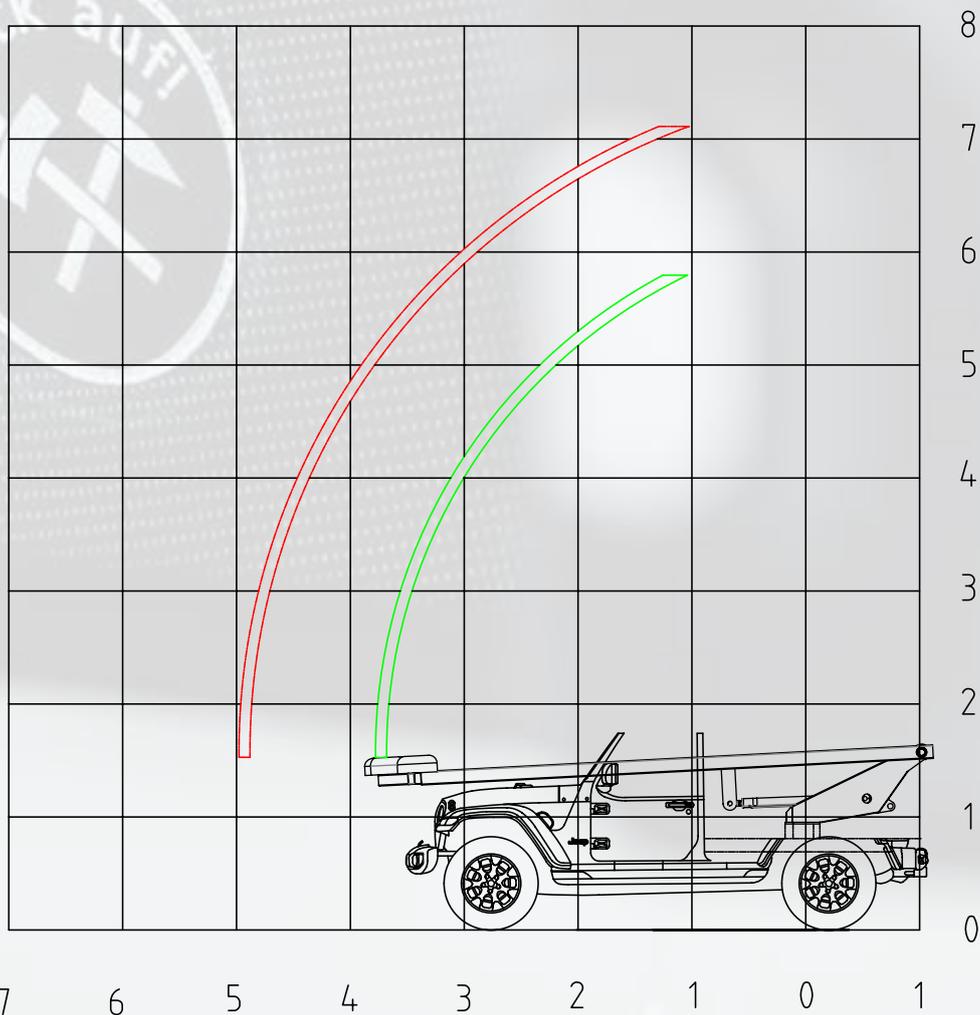


Dimensions Ridge Radar



Work area

- BOOM EXTENDED
- TRANSPORT POSITION



redesigned gate



coil spring



bumper with tow eyes



safe application



air filtration



JMV – best quality



STANDARD EQUIPMENT:

ABS 4 disc brakes,
Aircondition, Airbags,
Power steering,
Skidplates, Full size spare tire,
Tilt steering column.,
Autom. Transmission,
Diesel engine



Zero Emissions

COMING
SOON:



DANA 60 axle
with leaf springs



Jeep® Gladiator

Heavy Duty Version:
*Chassis & Structure more than double
the payload and triple the durability*



Fresh air savior

Special offroad
kevlar tyres
on steel wheels
optional

Heavy duty steel
bumper with tow eyes

Reinforced chassis

DANA 44 axles with upgraded
shocks and springs



JAKOB MINING
VEHICLES

Application area:
Underground/Overground,
'community/local authorities

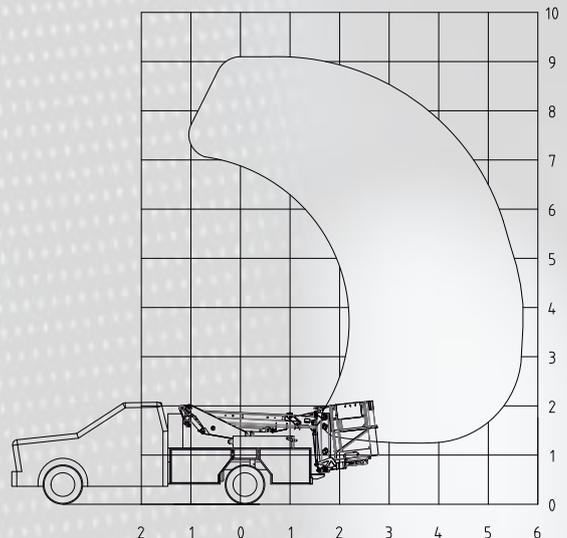
Base vehicle:
RAM 5500 Tradesman;
Available legendary 6.7 l Cummins® Turbo Diesel
Left- or right-side power take-off capability; Palfinger

Heavy Duty RAM 5500 AERIAL PLATFORM

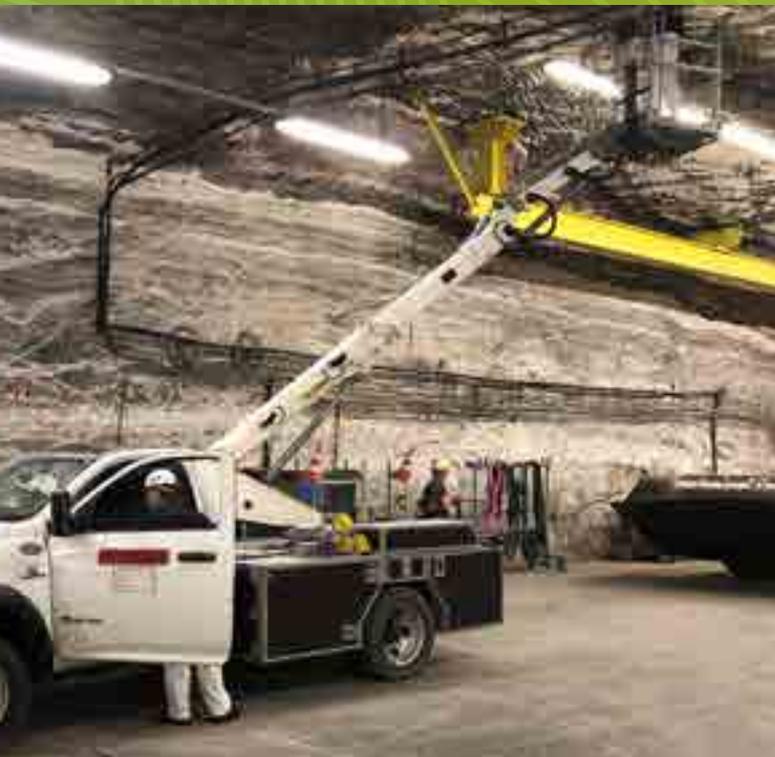
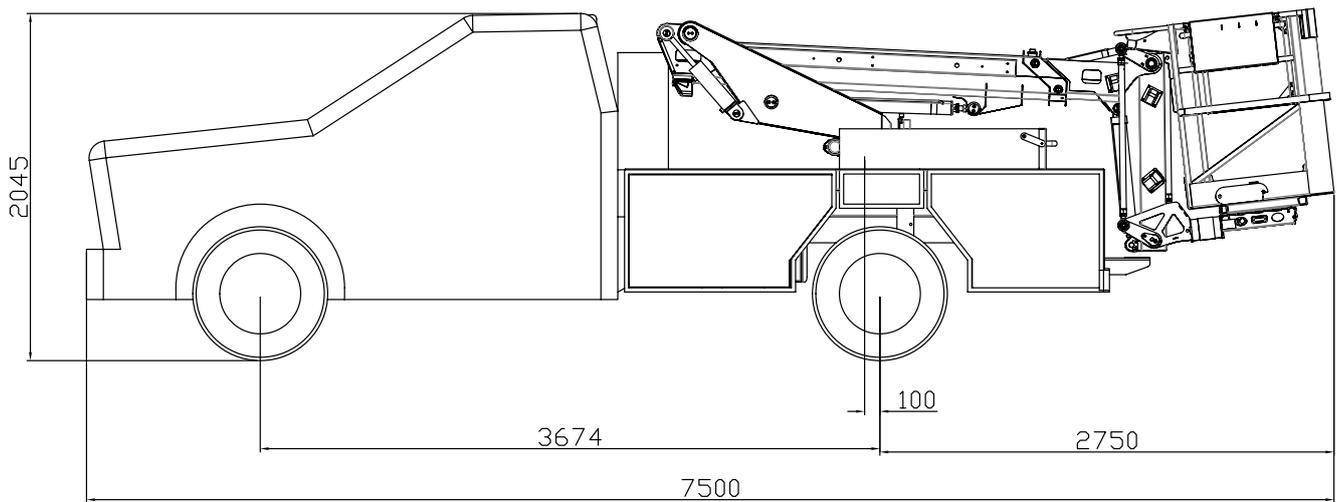


No outriggers ensuring
easy movement

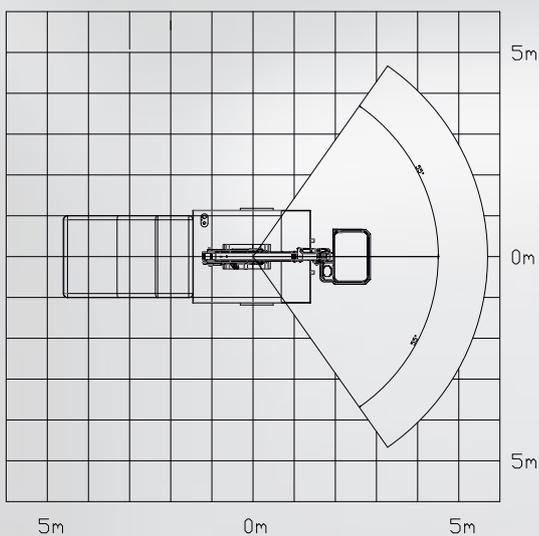
WORK AREA



Dimensions **Aerial Platform**



PROTECTIVE DISC



This platform is one-of-a-kind. It is specially developed for underground work, with a total weight of 8.25 tons. This platform has no outriggers, but a tilting device instead, ensuring easy movement. An ultrasonic sensor protects the operator while working underground, and a protective disc prevents stones from blocking the tyres.

ADDITIONAL SPECIFICATIONS:
Total weight 8.25 tons. 110° movable cage boom. Tilting device. Galvanized parts. 4-wheel brake. Electronic cabin protection. Protective disc that prevents stones from blocking tyres. Home function. Electric/hydraulic control. Various warning lights.



JAKOB MINING
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Application area:

Underground/Overground,
community and municipalities

Base vehicle:

RAM 5500





RAM 5500 CREW TRANSPORT

- 16 swing seats on the platform, with a roll bar
- Total vehicle length of 6.50/7.20 meters
- Fully customized conversion according to customer specifications.
- Also available with ROPS/FOPS



HEAVY DUTY TRUCK



RAM 5500 CRANE

Tough and durable.

The RAM 5500 is designed to meet even the most demanding needs. Equipped with best-in-class features, it provides both the capability and efficiency that your business requires. With multiple vehicle configurations available, a wide range of upfit options and capabilities are possible. This heavy-duty truck is built to handle any challenge.

Application area:

Underground/Overground,
community/local authorities

Base vehicle:

RAM 5500 Tradesman

- > 6.7 l Cummins® Turbo Diesel
- > Palfinger crane build
- > Available left- or right-side power take-off capability



POWER PACK



RAM 5500 TANK

RAM Trucks – built to last

Our diesel and H2 or electric-powered RAM trucks undergo rigorous testing and validation to ensure their durability and reliability. As a true heavy hauler, the RAM boasts a robust rear frame steel strength that can handle your heaviest loads with ease. With a maximum diesel gross vehicle weight rating of 17,463 kg, the RAM is built to exceed your expectations.

RAM 5500 Swappable Tank System

Engine: 6.7L Cummins® Turbo Diesel
Capacity: 4,500 liters swappable tank (wastewater, water or oil)

Key Features: Swappable tank system for efficient use, allowing one vehicle to handle multiple tasks
Saves time and reduces fleet size by using one platform for different jobs
Left- or right-side power take-off capability for operational flexibility

MINING MOBILITY AS A SERVICE (MMAAS)

REVOLUTIONIZING MINING OPERATIONS

JMV's Mining Mobility as a Service offers a flexible, sustainable, and cost-effective solution for mining operations. By providing shared electric vehicle fleets, MMaaS minimizes the need for multiple vehicles, reducing emissions and lowering upfront investments.

Our fleet is constantly monitored for performance, with predictive maintenance and over-the-air updates ensuring operational efficiency. This service streamlines mining mobility, allowing you to focus on productivity without the hassle of vehicle management.

REVOLUTIONIZING MINING TRANSPORTATION WITH MMAAS

JMV's Mining Mobility as a Service (MMAAS) offers a flexible, sustainable, and cost-effective solution for managing mining fleets. By integrating shared electric vehicles and advanced recycling processes, MMaaS drives efficiency and reduces environmental impact.

KEY BENEFITS OF MMAAS:

- **Sustainable Fleet Management:** Electric vehicles reduce reliance on diesel-powered fleets, significantly lowering emissions in mining operations.
- **Extended Battery and Motor Lifecycle:** Through continuous monitoring, batteries and motors are refurbished or recycled, minimizing waste and extending their usability.
- **Cost Efficiency:** Reduces operational costs by centralizing fleet management and reducing the need for multiple vehicles, all while improving performance.
- **Real-Time Vehicle Monitoring:** Vehicles are continuously monitored via remote connections, allowing for predictive maintenance and ensuring optimal performance throughout their lifecycle.
- **Circular Economy Approach:** MMaaS promotes sustainability by reusing vehicle components, further reducing the carbon footprint and conserving resources.

THE FUTURE OF MINING MOBILITY

MMaaS from JMV offers a transformative solution for the mining industry, combining sustainability with operational efficiency. It is designed to revolutionize how mining companies transport resources, paving the way for greener, more efficient operations.

*JOIN JMV IN SHAPING THE FUTURE OF SUSTAINABLE
MINING TRANSPORTATION!*

SPECIALIZED RESCUE VEHICLES

DEVELOPMENT OF THE FOLLOWING VEHICLE CLASSES

- > Commando fire brigade
- > First (Rapid) response vehicles (FRV)
- > Police/public authorities
- > Coastguard rescue vehicles

JMV has developed a range of rescue vehicles based on Jeep® platforms, designed to handle critical situations with high payload capacity and ample load space. These vehicles are built to provide maximum safety for emergency personnel, including physicians, firefighters, and first responders.

Our portfolio also includes customized commando fire brigade vehicles, first response vehicles (FRV), police and public authority vehicles, and coastguard rescue vehicles, tailored to meet the unique demands of each sector.

**„YOUR VISION“
on a different
vehicle?
NO PROBLEM
for us!**



The European Union, together with the Federal Ministry for Economic Affairs and Climate Action, is supporting the measure Innovation Premium (doubled federal share of the directive for the promotion of the sale of electric vehicles in Germany) through the European Recovery and Resilience Facility (ARF).

Commissioned with the implementation of the funding measure:



Bundesministerium
für Wirtschaft
und Klimaschutz



Finanziert von der
Europäischen Union
NextGenerationEU



Bundesamt
für Wirtschaft und
Ausfuhrkontrolle

READY TO DRIVE INNOVATION IN MINING?



MADE IN GERMANY



[MINING-JAKOB.DE](https://mining-jakob.de)

Thank you for your interest in our innovative mining solutions.
Our team looks forward to working with you to tailor solutions that meet your specific needs.

 **JAKOB MINING
VEHICLES**

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