

# Electric Monorack





## Fully electric, energy-saving, compact

The unique Monorack transport system is weather-resistant and can be adapted to almost any terrain thanks to its flexible rail concept. The modular and simple construction allows the installation to be erected without foundations or additional structural measures. The vehicle is guided on a fixed rail and is driven by a spline system under the rail. A disc motor with downstream planetary transmission provides the necessary drive power. The electrical power is provided by a 48 V lithium-ion battery of the latest generation, which is automatically charged at defined stations. The Monorack is operated via a waterproof control panel and requires no previous knowledge. It is possible to operate the vehicle via remote control.

The safety concept complies with the required standard according to the European Machinery Directive and guarantees safe operation. In the event of a

power failure or technical defect, the Monorack is automatically brought to a standstill and blocked on the rail.

### Specifications

Driving speed	max. 0.7 m/s
Motor power	6 kW
Drive torque	640 Nm
Standard battery	3.6 kWh (expandable)
Operating voltage	48 V
Battery charger	1 kW / 230 V
Range (standard battery)	60 min. uphill
Payload (1 seat + 1 luggage carrier)	from 200 kg
Max. gradient	100 % / 45°
Curve radius	4 m
Rail height	0.45 - 3.00 m

## The modern way of ascent

Whether for the development of a property or to reach the landing stage, the flexible rail construction, modern controls, and the latest battery technology mean there are almost no limits to the MRK300's field of application.

### Highest ride comfort on narrow rails

- Pivoting seat for automatic level compensation for all passengers
- Easy to operate
- Comfortable seating position
- Driving style adapted to the line
- Pocket-size remote control
- Low noise drive

### Sophisticated quality

- Robust construction
- High availability in every weather
- Reliable and low maintenance
- Low maintenance costs
- Long service life

### Powerful and long-lasting

- Latest lithium-ion battery technology
- Powerful and maintenance-free electric disc motor
- Reliable and proven controls

- Suitable for the widest variety of terrains
- Flexible and environmentally friendly

### Safety guaranteed

- Independent permanent-magnetic emergency brake
- Emergency operation during power failure
- All-round route monitoring for driverless operation
- Certified according to the European Machinery Directive 2006/42/EC

### Adapted to your needs

- Maximum flexibility in line route
- Minimal space requirement due to slim design
- Controls adapted to individual needs
- Vehicle can be combined according to customer requirements
- Different designs available
- In addition to passenger transport, material transport of up to 200 kg is possible

We have many years of experience in the planning and implementation of sophisticated Monorack installations. Even after start-up, you can count on us to be there for you whenever you need us.







## Vehicle

The electric Monorack is driven by a powerful petrol engine and is equipped with two independent brake systems to ensure optimum safety at all times.

The composition of the vehicle may be assembled according to specific requirements. Different superstructure versions are available for passenger and freight transportation.

### Electric Monorack configuration options

- Standard version
- Version with wooden seat and side panelling
- Agricultural version with high payload load
- Luggage carrier
- Weather protection
- Remote control
- Additional equipment
- Country-specific versions

*Customer-specific adaptations are possible at any time.*





## Our services

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### Project planning

For more than 40 years, we have been involved in the planning and implementation of sophisticated Monorack installations. As an experienced partner, we would be delighted to help you with your project and provide support starting from the initial idea through to the finished installation.

We offer feasibility assessments planning and preparation of proposals, support with planning applications, development and implementation of special customer requirements, implementation and assembly, final acceptance and certification, service contracts.

### Assembly

The track, which is delivered in individual parts, is carefully integrated into the existing landscape by our

specialists. The 6-metre long rail sections are bent on site according to the geometry of the terrain and are normally laid about 50 cm above the ground. Walls, roads and terrain variations up to 6 metres high can be easily passed over by the rails if necessary. The support tubes are knocked 1 - 1.5 metres deep into the ground and do not require an additional foundation. On rocky ground, the supports are bolted securely if required. We will determine the exact course during the planning phase based on your requirements.

### Service and maintenance

Even after start-up, you can count on us to be there for you and your Monorack installation, whenever you need us. Whether for repairs, annual services, spare parts or technical information, we will be happy to advise you. Thanks to our many years of experience, we are the ideal partner to support your project.





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