

## ***What services do we provide?***

- Railway vehicle design
- Planning of railway vehicle transformation
- Planning of railway vehicle remotorization
- Licensing of railway vehicles in Hungary
- Design and conversion of locomotives, motor trains, wagons, freight cars
- Design capacity to prepare documentation and drawings
- Trolleybus, bus conversions

## ***What companies are we looking for?***

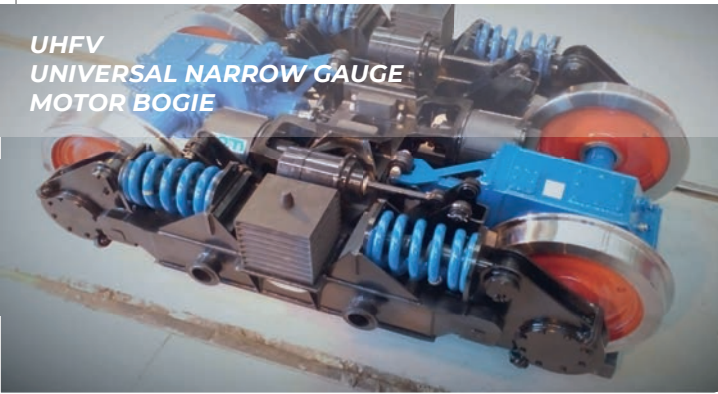
- Companies dealing with vehicles
- Vehicle manufacturing companies
- Vehicle maintenance companies
- Transport companies
- For companies that require the development planning and implementation of maintenance and the necessary tools
- Companies manufacturing parts and equipment for railway and road vehicles, for whom we would provide representation in Hungary

INVENT Engineering Office Ltd.

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For more information please visit our website: [www.inventkft.hu](http://www.inventkft.hu)

### UHFV UNIVERSAL NARROW GAUGE MOTOR BOGIE



### SELF-DEVELOPED MOTOR BOGIE FOR NARROW-GAUGE RAILWAYS.

#### Main technical data:

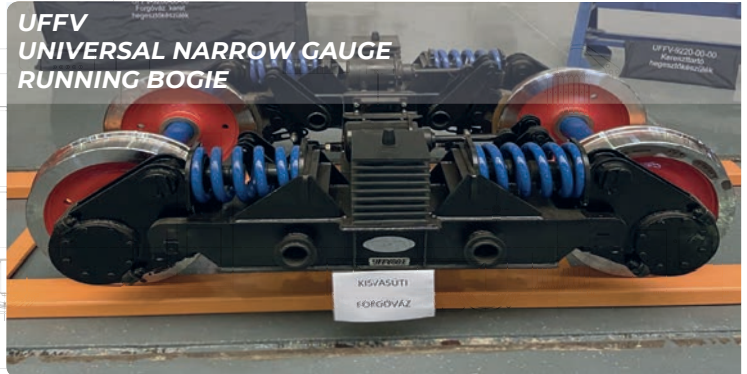
- ✦ Track gauge: 760 mm
- ✦ Wheel diameter: 600 mm
- ✦ Wheelbase: 1700 mm
- ✦ Axle load: 5-6 t
- ✦ Operating speed: 20-60 km/h

### SELF-DEVELOPED RUNNING BOGIE FOR NARROW-GAUGE RAILWAYS.

#### Main technical data:

- ✦ Track gauge: 760 mm
- ✦ Wheel diameter: 600 mm
- ✦ Wheelbase: 1700 mm
- ✦ Axle load: 5-6 t
- ✦ Operating speed: 20-60 km/h

### UFFV UNIVERSAL NARROW GAUGE RUNNING BOGIE



### SELF-DEVELOPED THREE-PART TRAM. THE PRODUCTION OF THE PROTOTYPE WAS DESIGNED BY WITH PRODUCTION EQUIPMENT AND ON-SITE SUPERVISION.

#### Main technical data:

- ✦ Track gauge: 1435 mm
- ✦ Length: 34,470 mm
- ✦ Passenger capacity: 236 people
- ✦ Seats: 51 people
- ✦ Wheel arrangement:  
Bo'-Bo'-Bo'-Bo'
- ✦ Max. axle pressure: 90 kN
- ✦ Max. speed: 70 km/h



### ACT TRAM, ADDIS ABABA FIRST ETHIOPEAN TRAM

OUR COMPANY DESIGNED A RETRO TRAM WITH AN EXTERIOR AND INTERIOR DESIGN THAT BRINGS TO LIFE THE ATMOSPHERE OF THE BEGINNING OF THE 20TH CENTURY, USING THE CABINET FRAME AND ROTATING FRAME OF THE KT4 TYPE TRAMS. THE TRAM RUNS IN THE OLD TOWN OF TALLINN.



### RETRO TRAM, TALLINN



A blue and yellow MK48 Hybrid Locomotive is shown on a railway track. The locomotive has a white cab and yellow accents. It is labeled 'Mk48 2021' and 'HYBRID LÁEV'. The background shows a dense forest.

## MK48 HYBRID LOCOMOTIVE

DESIGNED FOR RAILWAYS WITH A GAUGE OF 760 MM THE HYBRID LOCOMOTIVE. AT SHORTER DISTANCES ALSO SUITABLE FOR BATTERY TRACTION, ESPECIALLY FOR ON-SITE, REVERSING WORKS. OUR COMPANY IN THE DESIGN OF THE DRIVE SYSTEM COOPERATED.

A blue and yellow V63 Locomotive is shown on a railway track. The locomotive has a white cab and yellow accents. It is labeled 'V63 006' and 'MAV'. The background shows a railway yard with overhead power lines and trees.

## V63 LOCOMOTIVE

OUR COMPANY PLANNED THE MODERNIZATION OF THE LARGEST LOCOMOTIVE OF THE HUNGARIAN STATE RAILWAYS. THE 5,000 HP LOCOMOTIVE WAS ORIGINALLY BUILT WITH A CLUTCH BEARING DRIVE. BY MODIFYING THE HOUSING OF THE ORIGINAL TC ENGINE, THE SLIDE BEARINGS WERE REPLACED WITH ROLLER BEARINGS.

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## MERCEDES TROLLEYBUS, SZEGED

OUR COMPANY PLANNED THE CONVERSION OF A MERCEDES-BENZ CITARO C1 BUS INTO A TROLLEYBUS FOR THE SZEGED TRANSPORT COMPANY. IT WAS THE FIRST MERCEDES TROLLEY AT THE TIME OF THE REBUILD.

## IKARUS-SKODA TROLLEYBUS, SZEGED

IT WAS PREPARED FOR THE SZEGED TRANSPORT COMPANY BATTERYSELF-PROPELLED ARTICULATED TROLLEYBUS. THE TRAM DESIGNS BY SKODA, THE DESIGNS OF VEHICLE STRUCTURAL PARTS MADE BY OUR COMPANY.

### Main technical data:

- Length: 18,750 mm
- Passenger capacity: 124 people
- Seats: 37 people
- Battery self-driving: 7.2 km
- Own weight: 19,565 kg

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