

## MANUFACTURER QUALIFICATIONS AND CERTIFICATES

### Project management and engineering

- \_ Certified quality management ISO 9001
- \_ IRIS certification according to ISO/TS 22163

### Production and system integration

- \_ Certified welding competence according to EN15085-2
- \_ Certified bonding competence according to DIN 6701
- \_ Certified production control according to EN 1090
- \_ Qualified supplier (Q1 ) of Deutsche Bahn AG for MPV® VentuS® type DB GAF

### Environmental management at the headquarter in Rheine

- \_ Environmental management system according to ISO 14001

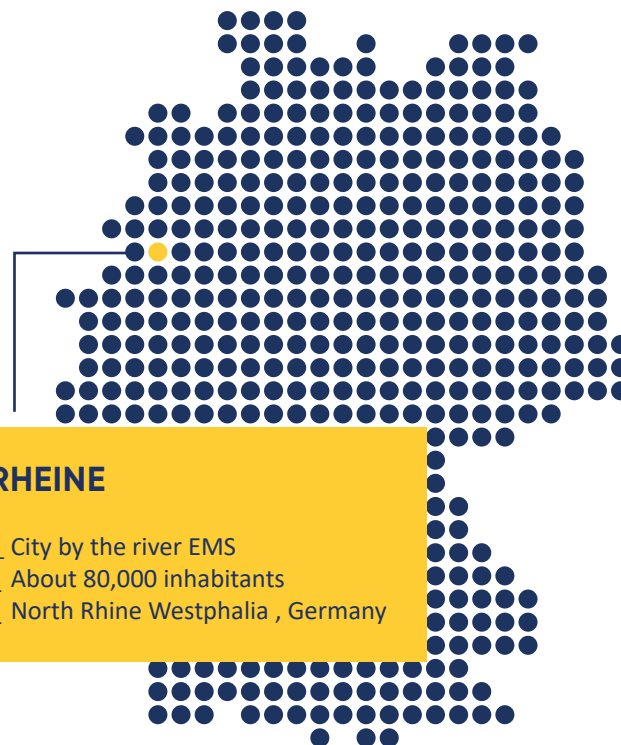
### Admission

- \_ Approval according to valid standards and guidelines
- \_ Standardised approach with admission concept

## THE FIRST MPV®-VentuS®-NV ARE ALREADY IN THE REALIZATION PHASE!

- ////////////////////////////////////
- \_ A **3 SECTION WORKS TRAIN** for the Urban Works Transport Company Ltd in Frankfurt am Main (abbrev. VGF) (Delivery from 2022)
  - \_ A **rail grinding vehicle** for Duisburger Verkehrsgesellschaft AG (Delivery from 2023)
  - \_ **Successful realization of the modular VentuS®-NV construction:** crane module, cabin module, platform module and much more.
  - \_ **Successful realization of modular built-in components:** In particular, the modular drive system, which allows emission free operation according to the future valid regulations (e. g. electric - overhead line, battery-electric, or similar).

## PRODUCTION AND COMPANY HEADQUARTER



### RHEINE

- \_ City by the river EMS
- \_ About 80,000 inhabitants
- \_ North Rhine Westphalia , Germany

## CONTACT US

**WINDHOFF BAHN- UND ANLAGENTECHNIK GMBH**  
Hovestraße 10 | 48431 Rheine

Martin Kühnhenrich, Manager Sales  
MKuehnhenrich@windhoff.de | M: +49 173 586 300 2

Ralf Kötter, Sales  
RKoetter@windhoff.de | M: +49 172 217 278 7

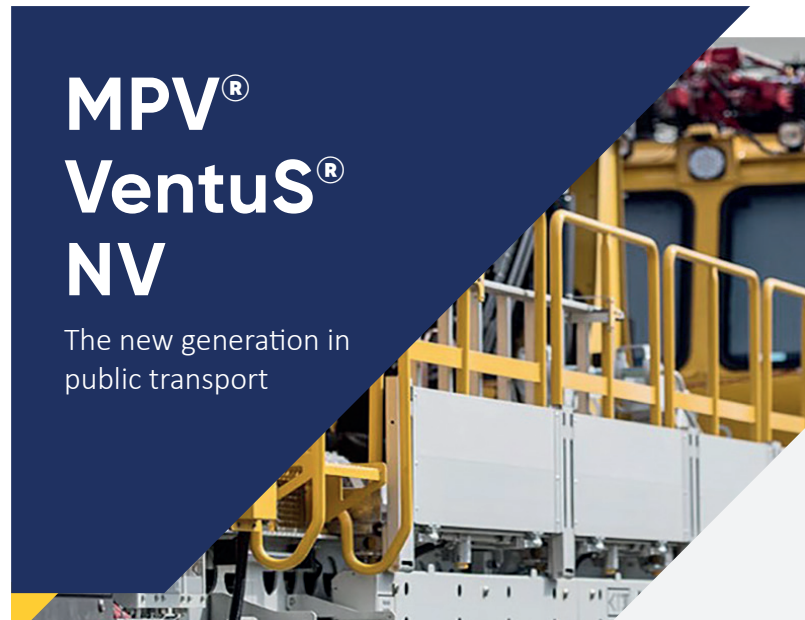
André Altmann, Sales  
AAltmann@windhoff.de | M: +49 151 730 451 34

[www.windhoff.de](http://www.windhoff.de)

## THE MODULAR SYSTEM THAT MEETS YOUR REQUIREMENTS

# MPV® VentuS® NV

The new generation in public transport



TRAM

**Multi Purpose Vehicle** (abbrev. **MPV®**):

### MODULAR

Modules for cranes, cabins , frames, etc.

### MULTIFUNCTIONAL

Maintenance | Measuring | Rail grinding

### SUSTAINABLE

Solutions for today and for the future  
Zero Emission

 **WINDHOFF**

## QUALITY MADE IN GERMANY

### Sophisticated modular vehicle concept

- \_ Rail grinding vehicle (bi-directional)
- \_ Track work vehicle

### Modularity

- \_ Vehicle width and track gauge
- \_ Vehicle concept
  - \_ Driven
  - \_ Non driven

### Further equipment features

- \_ With different working bogies (e. g. grinding bogie)
- \_ With measuring equipment
- \_ With snow clearing equipment
- \_ With overhead wire de-icing equipment
- \_ With water dispensing system for lawned routes
- \_ With a speed of up to 60 km/h

## WINDHOFF MPV®-VentuS®-NV WITH ZERO EMISSION TO CONSTRUCTION SITE

### Standardised procedure with approval concept

- \_ Approval according to valid standards and guidelines
- \_ Vehicle is handed over ready for use and approved incl. approval, training and documentation

### Equipment

- \_ With your chosen working equipment
- \_ With customized train protection systems
- \_ With driver assistance systems
- \_ With customized information and communication equipment

## STANDARDIZATION AND HIGH FLEXIBILITY

### Modular bogie concept

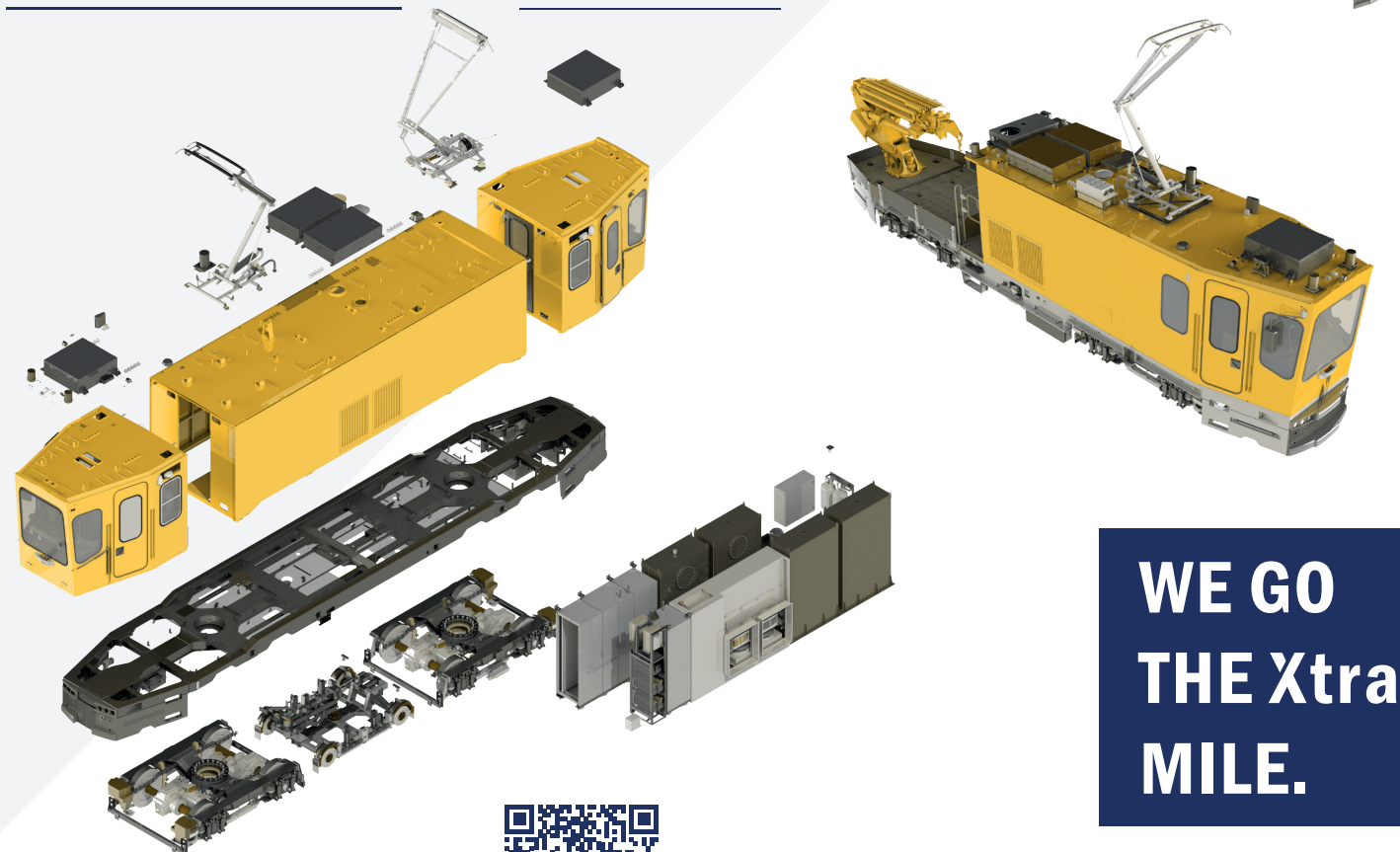
- \_ Standardised bogie types
- \_ Traction and running bogies
- \_ Working bogies

### Modular cabin concept

- \_ 2 different cabin lengths (basic)
- \_ Modular interior design
- \_ Capacity for up to 5 people (basic)

### Modular drive concepts

- \_ e.g. electric overhead line
- \_ e.g. traction battery
- \_ e.g. diesel engine
- \_ e.g. hydrogen engine
- \_ e.g. fuel cell



All information  
in digital form

**WE GO  
THE Xtra  
MILE.**

**WINDHOFF**