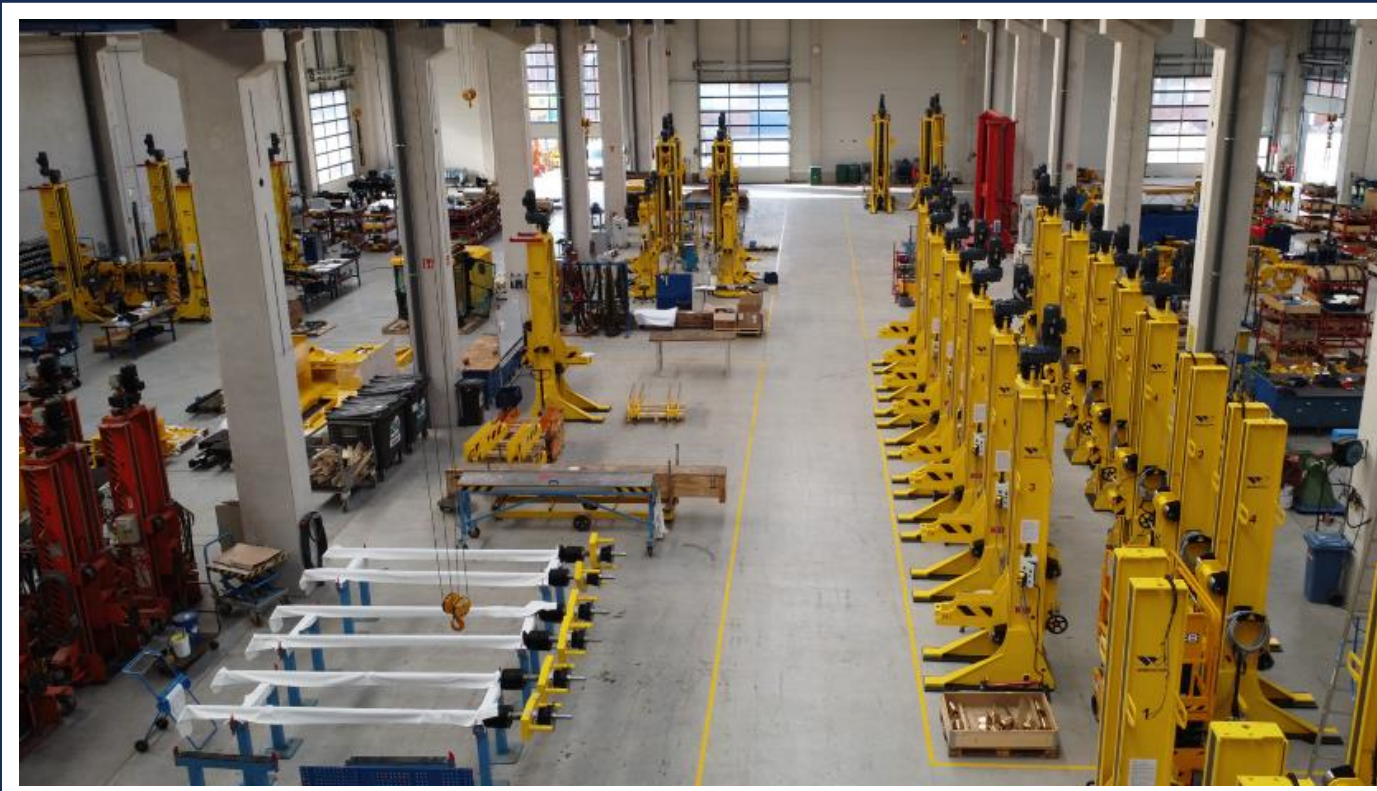




MPV® VENTUS® - MODULAR OTMS FOR MAXIMUM VERSATILITY.

WINDHOFF Bahn- und Anlagentechnik

Solution Provider of Railway Technology and Manufacturer of On-Track-Machines



Railway Technology

- ✓ Lifting Jacks
- ✓ Platforms
- ✓ Universal Service Station
- ✓ Shunting Vehicles

WINDHOFF Bahn- und Anlagentechnik

Solution Provider of Railway Technology and Manufacturer of On-Track-Machines



Rail Vehicle Technology

- ✓ Modular Multi-Purpose-Vehicle
- ✓ Versatile applications
- ✓ Homologation acc. to TSI

WINDHOFF Bahn- und Anlagentechnik

Solution Provider of Railway Technology and Manufacturer of On-Track-Machines

What makes the MPV® VentuS® such a demanded On-Track-Machine for Europe?



Rail Vehicle Technology

- ✓ More than 300 vehicle (MPVs: mainline and light-rail, wagons) ordered in the last two decades
- ✓ First MPV VentuS ordered in 2020
- ✓ Close to 20 MPV VentuS (mainline only) ordered in the last 4 years

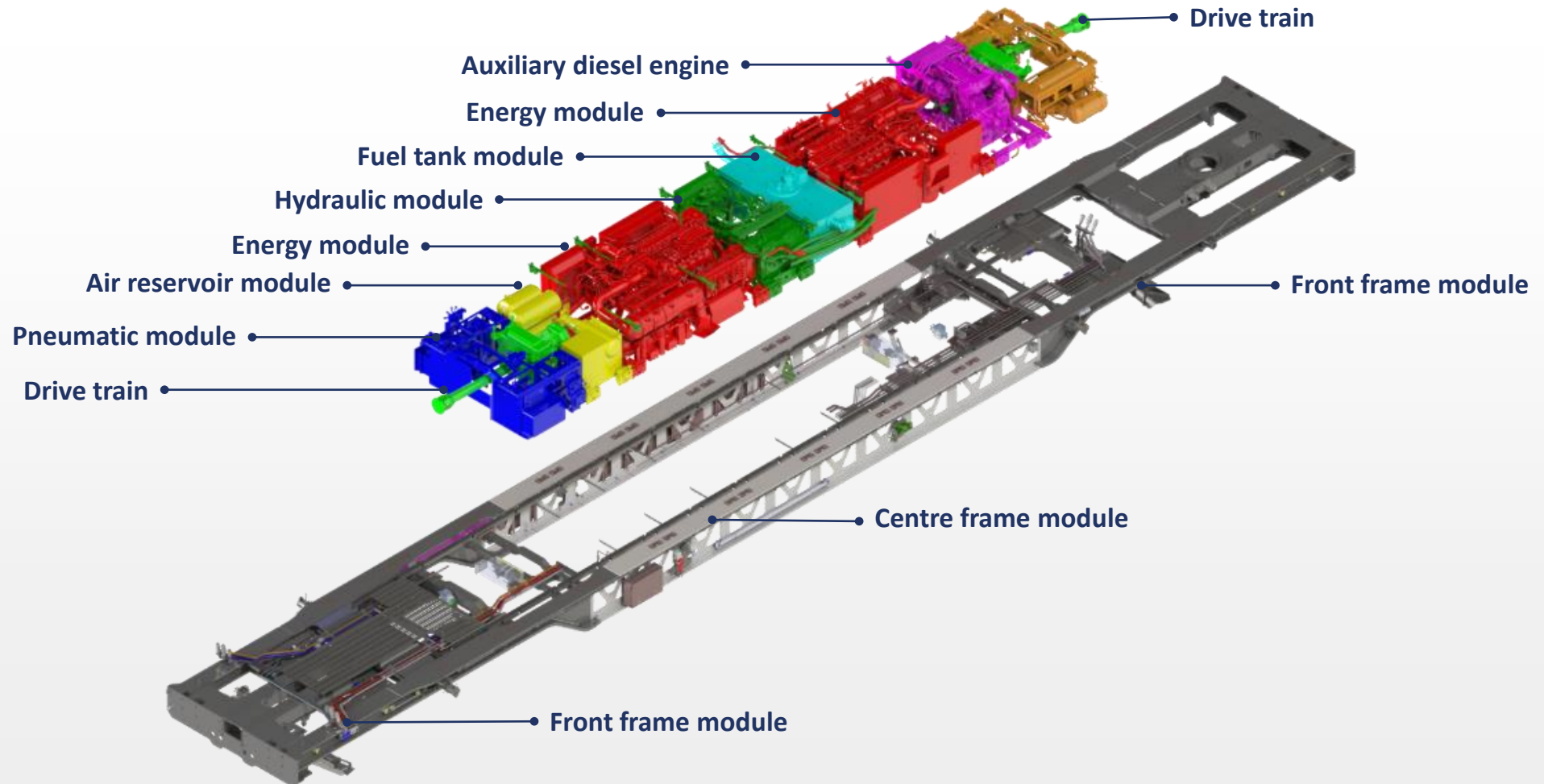
Versatility through modularity

Keeping opportunities open

MODULARITY

Versatility through modularity

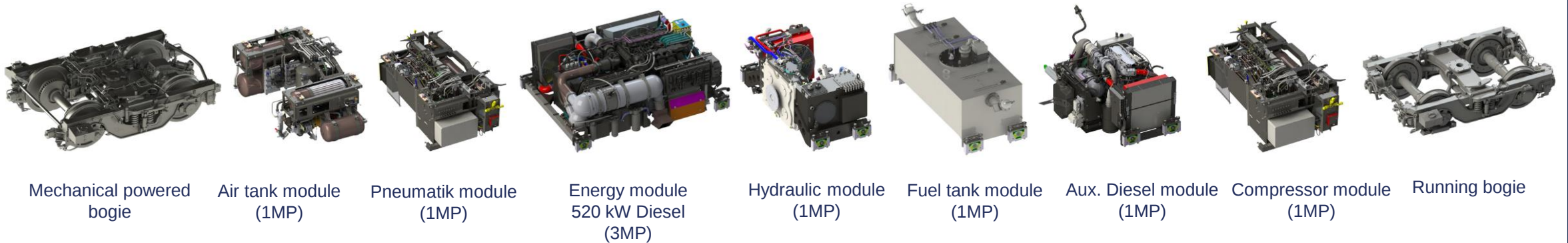
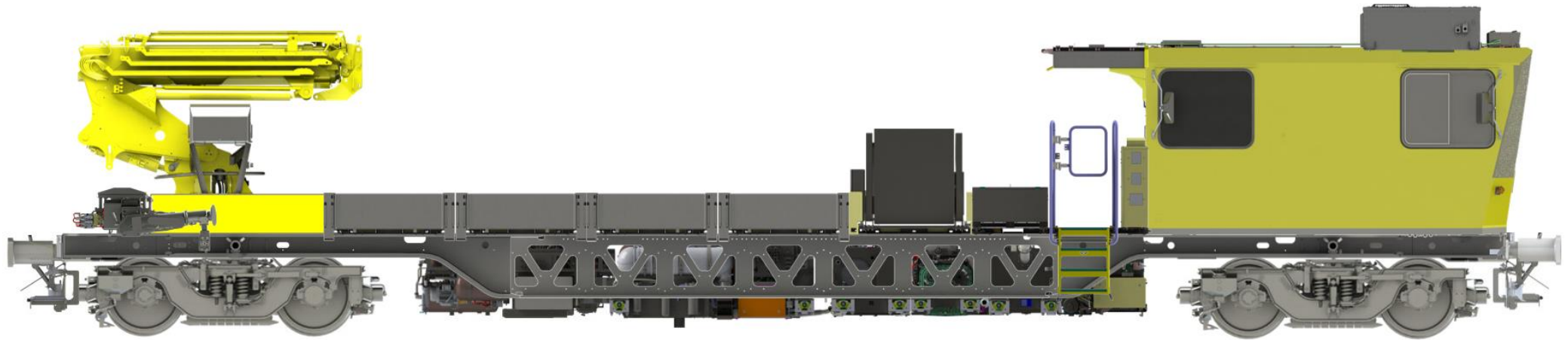
Keeping opportunities open



Versatility through modularity

Keeping opportunities open

→ MPV VentuS with Diesel-mechanical propulsion system



Mechanical powered
bogie

Air tank module
(1MP)

Pneumatik module
(1MP)

Energy module
520 kW Diesel
(3MP)

Hydraulic module
(1MP)

Fuel tank module
(1MP)

Aux. Diesel module
(1MP)

Compressor module
(1MP)

Running bogie

Norwegian and German authorities trust in MPV® VentuS®

MPV VentuS projects and current extensions of the modular system



2020: 12 x Diesel-mechanic MPV VentuS ordered.

2021: 3 x Diesel-electric MPV VentuS ordered.

2023: 15 x MPV VentuS for Germany ordered.

Short term perspective:
Full electrical drive currently under development.

Mid term perspective:
MPV VentuS as a omnipresent off-the-shelf product in Europe.

MARTIN KÜHNHENRICH
HEAD OF SALES AND PROJECT MANAGEMENT
RAIL VEHICLE TECHNOLOGY (RVT)
MAIL: MARTIN.KUEHNHENRICH@WINDHOFF.DE
PHONE: +49 173 5863002

JOHANN FALCKENBERG
HEAD OF SALES
RAILWAY TECHNOLOGY (RT)
MAIL: JOHANN.FALCKENBERG@WINDHOFF.DE
PHONE: +49 173 7288634

LASSE SCHULTE-FARWIG
SALES ENGINEER RVT
MAIL: LASSE.SCHULTE-FARWIG@WINDHOFF.DE
PHONE: +49 151 10585125

JONAS RAUSING
PROJECT LEADER RVT
MAIL: JONAS.RAUSING@WINDHOFF.DE
PHONE: +49 173 1689787

MATHIAS ABRAHAM
REPRESENTATIVE SCANDINAVIA (RVT & RT)
MAIL: MATHIAS.ABRAHAM@CI.PIHL.COM
PHONE: +46 70 5575406



WE GO THE XTRA MILE.