

EOL TECHNOLOGY FROM PIA

POWERTRAIN-MODULES OF THE FUTURE TO THE TESTBED

Test systems from PIA Automation are used in the field of powertrain as well as in the wide spectrum of e-mobility. At PIA we set high standards in precision and quality. Our portfolio ranges from complete end-of-line test fields to inline testers integrated throughout our assembly process. Independent of fully automated test concepts with low cycle times, PIA's product and service range also covers the development and manufacture of audit test benches with maximum product flexibility.

In the field of automated assembly and testing of automotive products PIA's wealth of experience is up for the task. For special testing task such as NVH or machine vision PIA Automation can help. Using our in-house team of testing experts we will work with you to provide a sound solution that meet your needs!



EXAMPLES OF USE

- Flashing of specific test or final control unit software
- Static and dynamic electrical tests (e.g. insulation and resistance tests, voltage, current, ...)
- Counter measurement and calibration (e.g. torque transmission of couplings, resolver offset, currents, ...)
- Functional tests (parking lock, disconnect unit, differential lock, ...) and their characteristics
- Measurement of structure-borne noise (NVH) and airborne noise
- Rotational acceleration test
- Performance check
- Simulation of electrical components (e.g. battery, motor, resolver and inverter)



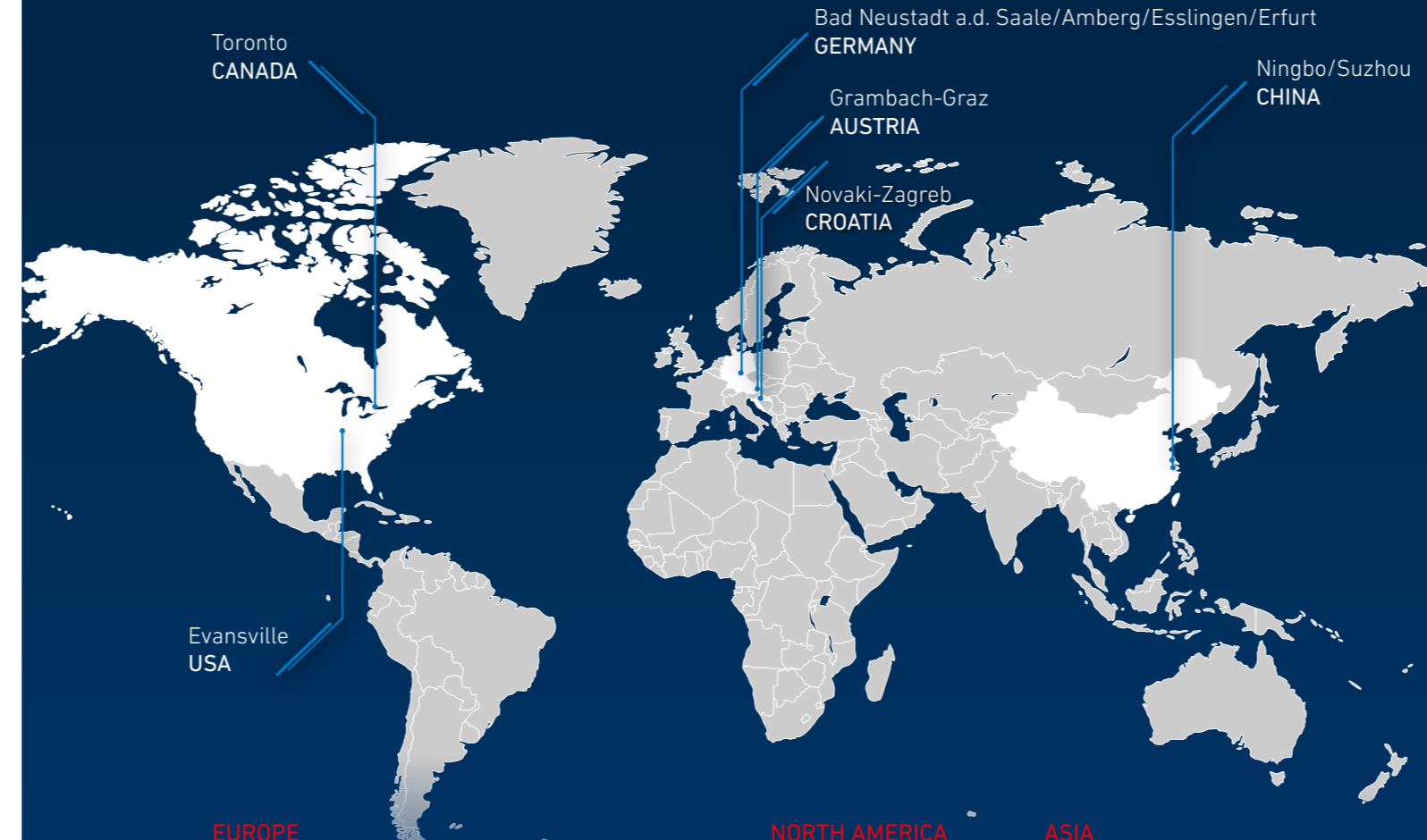
ADVANTAGES

- Wide range of applications (stand-alone, inline, interlinked-test facilities)
- Flexible loading systems (manual, handling, robot, transfer) for scalable expansion stages
- Optimal interaction with our industry 4.0 solutions
- Development, production, support and know-how from one-provider (One-stop shopping)



PIA LOCATIONS

EOL-TECHNOLOGY FROM THE WORLD LEADING AUTOMATION PARTNER



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WE AUTOMATE YOUR WORLD

www.piagroup.com



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TEST SYSTEMS FROM PIA AUTOMATION

END-OF-LINE TECHNOLOGY

POWERTRAIN AND E-MOBILITY

WE AUTOMATE YOUR WORLD



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EOL-AUTOMATION

HIGH SPEED MEASUREMENT TECHNOLOGY

The use of industry-proven measurement technology from various manufacturers such as National Instruments, HBM or Beckhoff, offers a highly accurate and channel-spanning time-synchronous measurement (< 1 µs) at sampling rates up to 1M samples/s.

VEHICLE COMMUNICATION

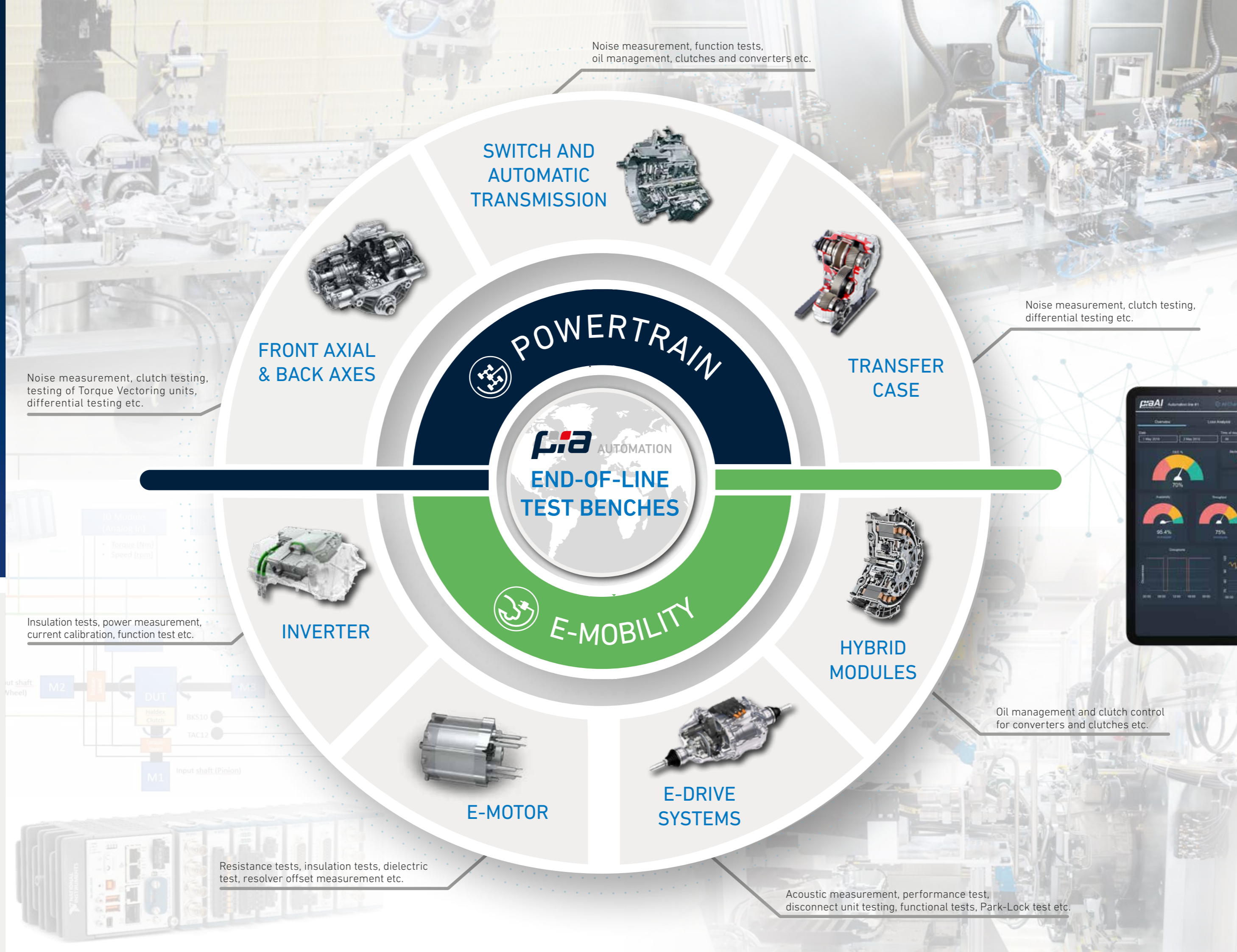
PIA relies on established products from Vector, such as the Compact IPC VN8900 with the CANoe software package, which can be integrated like all common vehicle bus systems (such as CAN, LIN or FlexRay). Finished OEM residual bus simulations, based on CANoe, can be integrated or updated with minimal effort. AUTOSAR-compliant UDS functions such as Security Access, calibration routines, error memory functions or updates of the control unit software (flashing) are available as test steps.

CONFIGURABLE TEST PROCEDURES

With National Instruments, our customers can test and create test sequences from a library with PIA's assemble and parameterize function modules. The user-friendly interfaces are optimized for the use of test systems within production environments.

REPORTING AND ANALYSIS

National Instruments has expandable plug-ins for report generation, logging in databases and connection with other company-wide systems. The user interfaces of the PIA-EOL testers offer the operator both live displays for test results and signal characteristics, as well as functions for the analysis of historical measurement curves and event logs.



ADVANTAGES THAT GIVE A COMPETITIVE EDGE

ONE-STOP-SOLUTION PROVIDER

As a general contractor, PIA combines a wide range of special know-how under one roof. In combination with our leading market share in the automotive sector, in particular the end-of-line sector, our products and solutions developed in-house offer further advantages.

MAKING BIG DATA SMART

PIA combines special know-how from two worlds: Special machine construction and digitalization. With the PIA Industrial App Suite – a digital portfolio of products, solutions and services – we support our customers in achieving their business objectives in the long term.



PIA INDUSTRIAL APP SUITE

As with other goals we at PIA understand improvement of the OEE, the increase of the production quality or an even more flexible and more transparent production planning is important. With the help of Artificial Intelligence (AI), for example, correlation analyses between the test bench and production line is carried out. Subsequently, based on the results obtained, the "OK rate" is optimized, thereby increasing output and reducing costs for the manufacturer.