

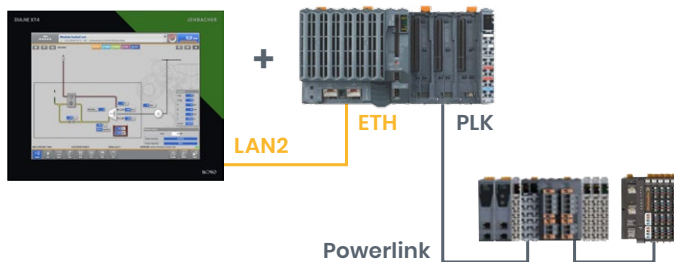
DIA.NE XT4+ CONTROL SYSTEM

For Jenbacher engines

Building on the proven strengths of the DIA.NE XT4 control system, the next-generation DIA.NE XT4+ enhances operational performance through faster data processing and advanced cybersecurity, delivering greater reliability and plant availability. It seamlessly integrates engine management, monitoring and control, visualization, data recording, and remote connectivity into one powerful, future-ready platform.

Advanced Interior Design Features

Next-generation DIA.NE XT4+



- Dedicated PLC for real-time control and a separate Industrial PC for HMI
- New panel PC with capacitive touchscreen
- Software versions: 4.22, 4.23, 4.24, and later

Previous DIA.NE XT4



- Established setup with PPC3100 for HMI and PLC
- Software versions: 4.12, 4.13, 4.14
- Controlled ramp down of DIA.NE XT4 full and light upgrades → switch to DIA.NE XT4+

Upgrades: Enhancing performance

Our innovative solutions are constantly upgraded to increase your plant's sustainability and bring you top economic results. Let INNIO Group—your Jenbacher system's original equipment manufacturer (OEM)—partner with you for the unique insights you need to always stay up to date. Building on your constant feedback, we offer a broad range of upgrade packages for your Jenbacher products. That is why we also continuously develop our control system for you.

Product details

The next-generation DIA.NE XT4+ features a dedicated PLC for real-time control and a separate Industrial PC for HMI, reducing dependencies between the two systems. The ability to update the HMI and Windows during engine operation supports increased uptime, while enhanced cybersecurity helps protect critical plant operations.

Important considerations

- Communication interfaces: Profibus DP is available with DIA.NE XT4+. Data points differ from those of older control systems, and customer-side updates may be required. While OPC-DA is no longer supported, an upgrade to OPC-UA is available.
- Commissioning requirements: Engine re-commissioning is required following a DIA.NE XT4+ upgrade. For engines operating in island mode, an island test is required after the upgrade is completed. For further information, please contact your commissioning or dispatch team.
- Site-specific configuration review: Each DIA.NE XT4+ upgrade request is reviewed to confirm site-specific control requirements, such as master control systems and customer bus connections.

Full version:

Get a control system upgrade to DIA.NE XT4+ with a full switch cabinet replacement, providing complete modernization of your engine control infrastructure. Detailed scope:

- Full switch cabinet replacement, including new panel, PLC, relays, terminals, circuit breakers, and related components
- New control software and updated wiring diagram
- Replacement of incompatible engine components as required (e.g., ignition system)
- Updated OEM documentation

Light version:

Upgrade to DIA.NE XT4+ using your existing DIA.NE XT3/4 switch cabinet. Detailed scope:

- Replacement of DIA.NE XT3/4 panel with the DIA.NE XT4+ controller
- Removal of the obsolete DIA.NE WIN server
- New control software and updated wiring diagram
- Replacement of incompatible engine components as required (e.g., ignition system)
- Updated OEM documentation

The upgrade is best implemented as soon as possible and can be integrated early in the engine's life cycle. INNIO recommends combining the control upgrade with other engine upgrades or planned minor/major maintenance.

Customer benefits

System performance and real-time execution

- Advanced real-time environment for engine controls with dedicated hardware
- Increased computing power and faster, more intuitive user experience
- Capacitive touchscreen for easy operation

Cybersecurity

- Encrypted drivers for all system components
- Separated RTOS and GPOS architecture for stronger system security

Reliability and plant availability

- Increased plant uptime with HMI and Windows updates possible during engine operation
- Enhanced system stability for reliable performance

Future-ready features

- Compliance with EU/EC Machinery Directive (Safety PLC)
- Integrated OPC UA communication between the engine and master control system

Applicable units

	XT4+ Light version ¹	XT4+ Full version ²
DIA.NE blue 1- or 2-CPU		✓ ³
DIA.NE XT / XT2		✓
DIA.NE XT3	✓	✓
DIA.NE XT4	✓	✓

¹ Requires exchange of control panel and PLC only!

² Exchange of control cabinet

³ On special release



Upgrade your engine

Enhancing performance
jenbacher.com/upgrades-catalog



Contact us:

jenbacher.com/en/contact

For more information, visit INNIO Group's website at [innio.com](https://www.innio.com), the Jenbacher website at [jenbacher.com](https://www.jenbacher.com), or the Jenbacher Services website at [jenbacher.com/en/services](https://www.jenbacher.com/en/services)

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