



UPGRADE YOUR CONTROL SYSTEM

PACDRIVE 3 AND MITSUBISHI



a coesia company



CUSTOMER'S VOICE

“The control system upgrade was very successful for us”

“The control system upgrade was very successful for us. It was actually completed ahead of schedule, which allowed us to restart production on the Filler three days ahead of time. The tear down, installation, and commissioning took seven days. Operations gave us ten days. There have not been any reported issues with the Filler since it was completed back in early March 2020.”

Church and Dwight, United States

SECURE YOUR PRODUCTION WITH A NEW CONTROL SYSTEM

Today all new Norden machines from NM 702 and up that are shipped from the factory are equipped with the Norden EasyWare, based on PacDrive3. For one and two channel machines without servo motors, the equivalent is the Mitsubishi control system.

The control system software is **now available as an upgrade for existing machines** to provide you with the most modern solution for you. Upgrade your obsolete control system to a future-proof system. Refresh the entire machine with new controller, inputs/outputs, servo-amplifiers; and **let our skilled technicians do the job!**

Control your entire line from one HMI

A control system upgrade is a service package from Norden, where your current software is upgraded and future-proofed. The upgrade includes a set of parts, such as a new controller in the electrical cabinet, a new HMI and servo amplifiers.

Your service technician will schedule the installation, which may take between three to five days.*

After the upgrade your machine is equipped with the latest software from Norden. The system is programmed according to GMP5 standards, which enable **line connections and control of the entire production line from one HMI.**



With you for the long run

Norden is committed to providing evolving functionality of your filling systems. Through our quick hardware supply, reliable service and maintenance, and extensive global reach and local presence, we can constantly enhance your productivity according to your needs

nordenmachinery.com

**Times may vary depending on your equipment.*

PACDRIVE 3 SYSTEM UPGRADE

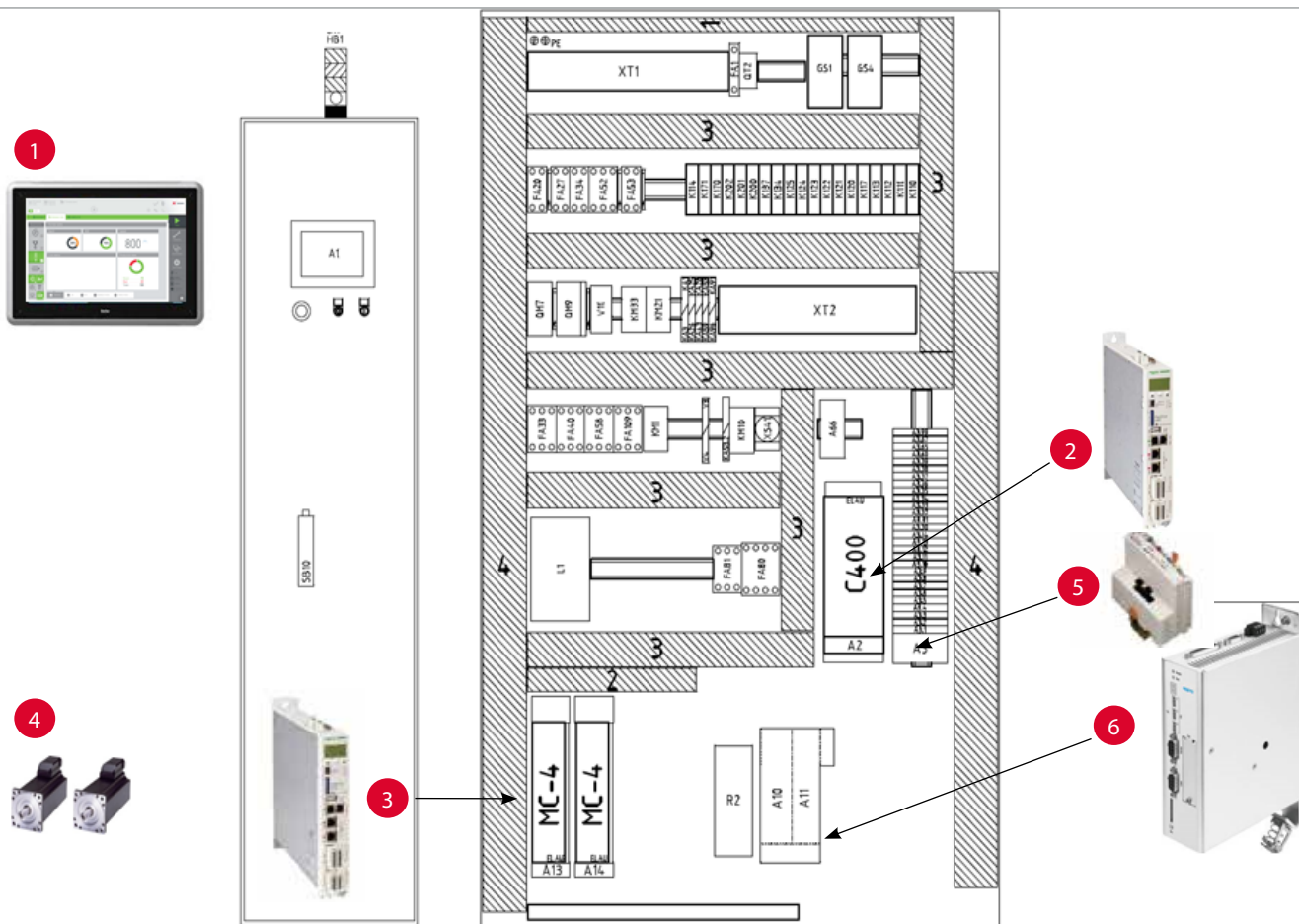
What is included in a PD3-upgrade?



Image (above): PD3 control system Nordson EasyWare is common for Nordson machines from NM702 and up.

Image (below): The components changed at a basic PD3 control system upgrade.

- 1 **HMI:** New look and feel! The HMI is changed to a 10" or 15" screen.
- 2 **Controller:** exchange of controller to the latest EasyWare
- 3 **Servo amplifiers:** The amplifier, which is controlling servo motors is replaced.
- 4 **New servo motors.** All servo motors must be multi turn to communicate with the control system.
- 5 **IO-module:** replaced due to communication with PLC/controller.
- 6 **Stepper motor:** control unit for tube orientation unit / tube turning unit.



MITSUBISHI CONTROL SYSTEM UPGRADE

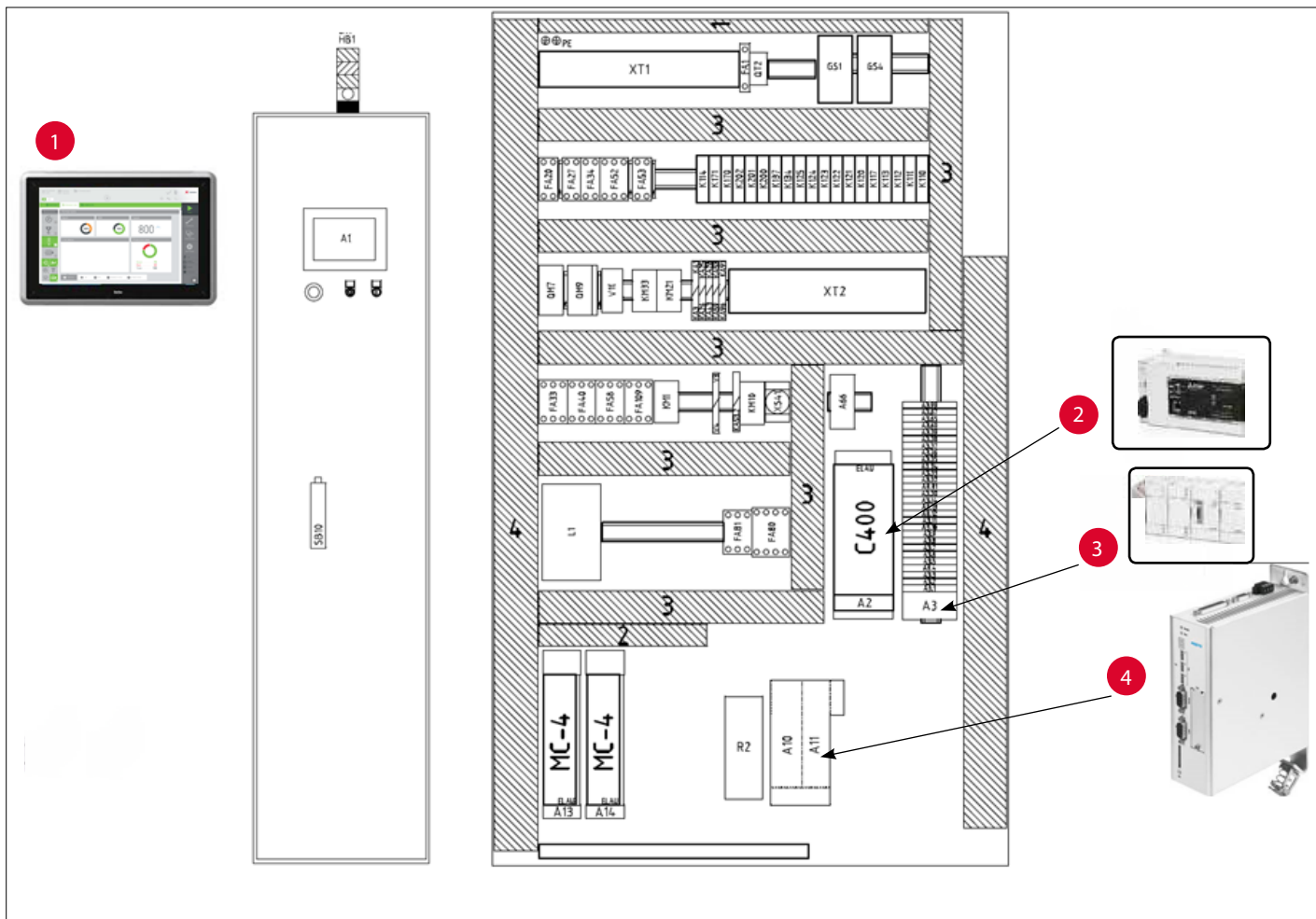
What is included in a Mitsubishi–upgrade?

- 1 **HMI:** New look and feel! The HMI is changed to a 10" screen.
- 2 **Controller:** exchange of controller to the latest FX5u
- 3 **IO-module:** replaced due to communication with PLC/controller.
- 4 **Stepper motor:** control unit for tube orientation unit / tube turning unit.



Image (above): Mitsubishi control systems are common on NM602.

Image (below) :The components changed at a basic Mitsubishi control system upgrade, which applies for one and two channel tube filling machines without servo motors.



THE REMEDY FOR OBSOLETE MACHINES



Image: The PD3 upgrade consists of hardware, software and Norden services.

One of the features that sets Nordenmatics' apart is the state-of-the-art control system EasyWare, based on the latest software generation PacDrive3, signed Elau Schneider. This control system has a long life-time and will be your immediate guarantee for securing that the machine can stay in production for the years ahead.

The control systems for Norden machines are programmed according to GMP5 standards, which enable **line connections and control of the entire production line from one HMI.**

When you have a machine based on Pacdrive 3 (speeds of 70 tubes/min and up) you will have the NordenEasyWare installed on your packaging machine.

Norden EasyWare Benefits

- **A remedy for obsolete machines**

- Extend the lifetime of older machines
- Enhance the stability of your production

- **Intuitive navigation:** a user friendly touch screen operator panel

- **Enhanced security**

- Made according to GMP5 standards: Simpler diagnostics (troubleshooting)
- Individual login levels: The lowest level of security is for turning the machine on and off. The next two levels deal with format viewing and machine set up (changing the values in formats). The fourth level is for advanced machine setup such as basic programming. The fifth level is customer function mode, it allows the operator to turn specific stations on and off. The sixth security level is administration mode, used for advanced programming, passwords, or adding new functions to the machine.

- **High Performance**

- Improve changeover time – program storage
- Utilize Production statistics for improved performance. Ethernet connectivity is available that allows remote access to performance and efficiency reports.*
- Store up to 99 format settings
- Access to diagnostic and statistics sections

- **Upgrades to the machine**

- Ask your service representative for a quote for the required add-on module together with your control system offer.

**Some of the features described in this flyer is not included in the standard control system upgrade.*

FLEXIBLE ADD-ON MODULES: EXAMPLES OF UPGRADES



Equipment upgrades are easier to do in conjunction with control system upgrades. Norden has program modules ready that cover the entire range of possibilities.

The upgrade modules fits like a piece of puzzle – this is our idea of serving customers' ever-changing needs.

Examples of upgrades to Norden machines:

- Tube orientation
- Servo lift at filling
- Pressure equalizing cylinders
- Filling pump
- Weighing equipment
- Code reading
- Laser printing
- Back-up for quick restore

UPDATED HMI

UPDATED DOCUMENTATION

UPDATED PNEUMATICS

UPDATED ELECTRICALS

Image: One of the benefits of upgrading your machine control system is the standardized naming and numbering of functions in the electrical and pneumatic drawings visavi the HMI and documentation manual associated with the new functions.



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Coesia is a group of innovation-based industrial solutions companies operating globally, headquartered in Bologna, Italy.

Coesia's companies are leaders in the sectors of:

- **Advanced automated machinery and materials**
- **Industrial process solutions**
- **Precision gears**

Coesia's customers are leading players in a broad range of industries, including Consumer Goods, Tobacco, Healthcare, Aerospace, Racing & Automotive and Electronics.

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