

# Retrofit of Dosing System **INNOPLAST**

Inno-Plast GmbH offers the modernization of our aged gravimetric dosing systems and those of type FXp from our predecessor PCDS GmbH. They contain:

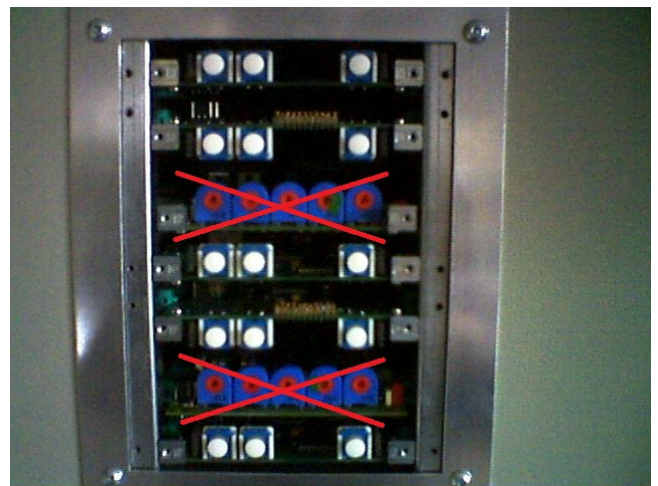
- Operation panel with screen (fig.1),
- Hopper frame with DC dosing motors (fig. 2),
- Hopper frame cabinet SC5 with power converter boards SRA (fig. 3).



*Fig. 1: Operation panel "FXp" with monitor*



*Fig. 2: DC dosing motor*



*Fig. 3: power converter boards SRA in hopper frame cabinet*

## **There are two possible options for retrofit:**

- A) Replacement of the control computer and monitor against touch panel solution, with some rewiring of the process interface
- B) additional option, replacement of the dosing DC motors by modern style step motors (needs replacement of the hopper cabinet)

## **For the modernisation the following modification steps are required:**

- Replacement of the existing monitor and control computer by 15" touch computer for easy operation fitting into the existing control cabinet
- New software implementing the previous functionality and more
- Rewiring of process interface (process I/O)
- Modification of the interface control circuits (including firmware upgrade)

## **For the step motor extension additionally:**

- Replacement of existing DC motors by step motors with sensors for measurement of current dosing screw speed (see fig. 5)
- Modification of existing hopper frame cabinets SC5, with new backplanes, new control circuits and step motor driver modules

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*Fig. 4: Control computer with 15" touch screen*



*Fig. 5: Dosing stepper motor*

## **Benefits of this modernisation:**

- New and modern touch panel for easy operation
- Improved trend and report features
- Material management included free of charge
- Full connectivity for TCP remote control and maintenance available
- Free connection to our webMIP production management system for planning, tracking and evaluating the production of orders and materials

## **Benefits of the step motor extension:**

- You can run the dosing unit without replacing the dosing screw for different throughputs because step motors work very precisely in a wide range of speed, thus less interruptions during production
- The old style SRA power conversion board has increased in price and will reach the end of its life-cycle in the near future
- After the modernization, the system is space-saving, easier to use thanks to the 15" touch screen, and the current software offers more options for production preparation and production evaluation
- Free connection to the webMIP production management system for planning, tracking and evaluating the production of orders and materials

## **Additional options:**

- Ready for integration in central feedings systems
- Modification of profile measurement 20/20 possible with the existing sensor
- Automated air rings available

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