

# Dip coating systems with fluoropolymers

PCBA-Conformal coating  
against moisture and environmental influences



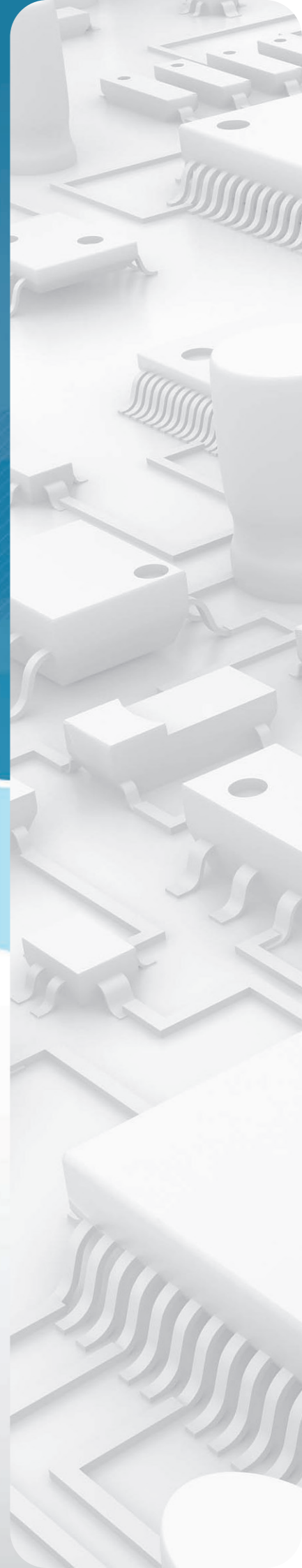
BASIC V3  
PRIMA V8  
OPTIMA V6



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## The coating process

The dip coating systems are specially constructed for processing fluoropolymers. Great emphasis has been placed on the process reliability and easy of handling.

The assembled boards are coated by immersion in the fluoropolymer liquid, which is contained in the tank of the system.

The boards are placed in process baskets, which are posed on a lift.

The lift can be held in any position in the program to allow exact partial immersions (on PRIMA V8 and OPTIMA V6).

By closing the lid and pressing the start button, the immersion process and subsequent drying are carried out automatically.

After the completion message, the basket can be easily changed. The process time is about six minutes.

The process baskets can be easily adapted to the board geometry or can be replaced by individual racks.

All dip coating systems are equipped with a cold trap for solvent recovery, whereby the solvent condensate can be collected into a container or fed back into the tank. This ensures an extremely economical and environmentally friendly process flow.

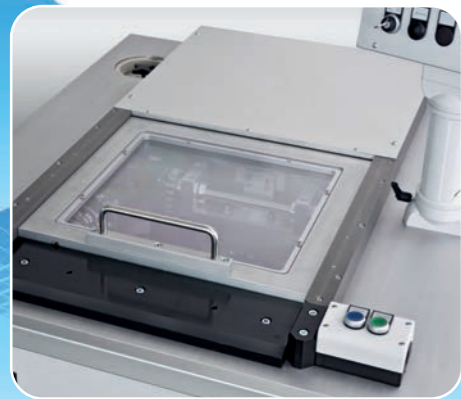
A water separator collects the condensing water in a separate container. The systems are therefore compliant with any legal requirements for handling HFE.

The HMI shows all information and offers great setting comfort. The liquid level is controlled and visualized on the HMI.

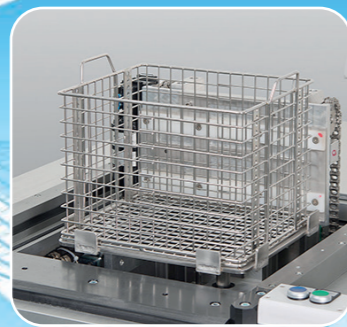
The units are equipped with filters to keep the fluoropolymer liquid clean.

All important states are monitored and evaluations can be easily realized via interface Profinet.

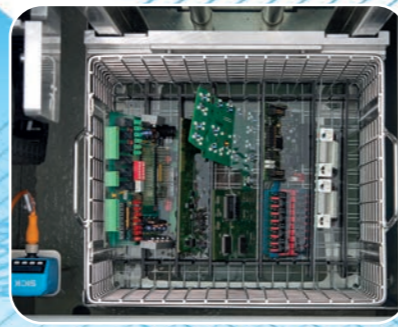
**With our model series of coating systems, we offer the right solution for almost all requirements. Talk to us about special designs and full automation in a throughfeed process.**



Sliding lid with window



Precise lift with basket



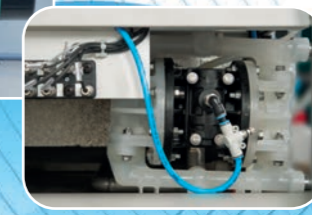
Basic V3 with cooling trap  
Prima V8 / Optima V6  
with process tank and  
overflow, level control  
and cooling trap



Water separator with  
containers for solvent  
and water condensate



Basic V3  
Magnet-  
coupled  
centrifugal  
pump



Prima V8 / Optima V6  
Secure pneumatic  
membrane pump for  
filtering



Easy to  
replace  
cartridge filter





## BASIC V3

### Basic system

approx. 280 eurocards/h / tank filling 42 l  
230V 50Hz 11A 1P / Ø 260W  
no compressed air required

A robust, maintenance-free lift moves the basket up to under the sliding lid. The basket is manually inserted into the system and removed again manually after coating. No partial immersion possible.



## CONCENTRATION DETERMINATION

## PRIMA V8

### Small premium system

approx. 280 eurocards/h / tank filling 70 l  
50Hz / < 3000 W / 6 bar compressed air

## OPTIMA V6

### Big premium system

approx. 600 eurocards/h / tank filling 115 l  
230V 1P or 400 V 3P / < 3000 W / 6 bar compressed air

With both premium systems the basket is position up to the top of the sliding cover lid. Thereby comfortable loading of the basket at an ergonomic working height. Easy placement of the basket in the start position. Exact partial immersions possible.

### OPTION 1

#### Weighing set

Manual determination of the solid concentration by precision scale, syringes, weighing scale and evaluation table.

### OPTION 2

#### Measuring station for concentration determination

Permanently connected, the measuring station regularly records the solids concentration, calculates and displays the necessary dosage. Controls the dosing station.

#### only in combination with measuring station Dosing station with storage tanks for solvent and concentrate

Permanently connected, the station removes surplus solvent from the system and regulates the solid concentration in accordance with the values from the measuring station.



	Dimensions	Basket-size	Working height	Empty weight	Basket loading	Filling quantity
BASIC V3	B/900 x T/1050 x H/1150	L/300 x B/250 x H/230 small	975 mm	ca. 250 kg	10 kg	37 l/56 kg- 42 l/63 kg
PRIMA V8	B/980 x T/1150 x H/1730	L/300 x B/250 x H/230 small	1125 mm	ca. 570 kg	15 kg	60 l/91 kg- 70 l/106 kg
OPTIMA V6	B/1130 x T/1230 x H/11730	L/450 x B/300 x H/250 big	1125 mm	ca. 620 kg	25 kg	100/152 kg- 1151/175 kg

