

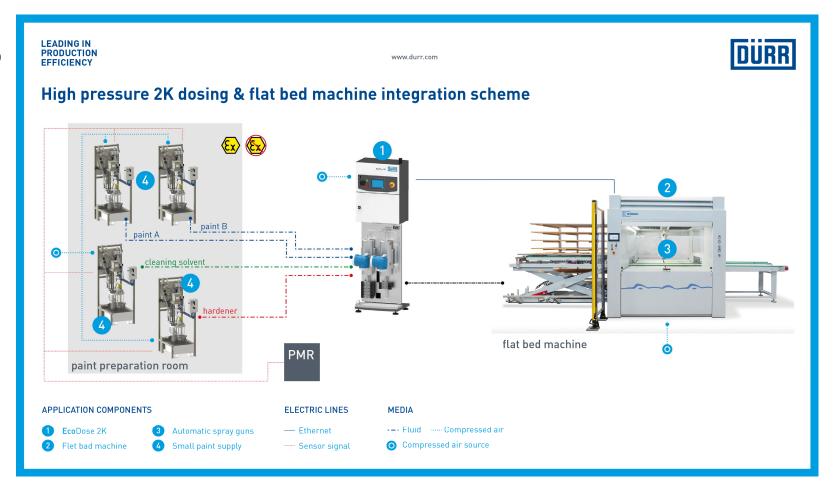


## **Concept ready2integrate**

## **Scope of Integrator**

DÜRR

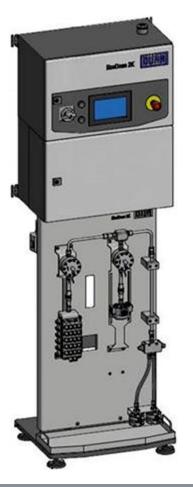
- Configuration of the equipment inside Web Shop
- Order material
- Installation
- Commissioning
- Training



## **Technical features**

#### **Eco**Dose 2K

- 3 separate sections: electrical, pneumatic and fluidic
- For solvent and water-borne components
- Low pressure (20 bar) or high pressure (200 bar)
- Gear flow meters or Coriolis flow meters
- For manual spray gun or automatic spray gun
- Automatic Dürr color change modular valves
- Continuous control of flow for each component
- 2 independent flushing circuits for component A and B
- Dosing precision < +/- 2%
- Mixing ratio 1:0 to 30:1 (1K and 2K possible)
- Working principle based on D.I.T. (Direct Injection Technology) for channel A and B with 1-2 ml per cycle
- Up to 10 colors and 3 catalysts

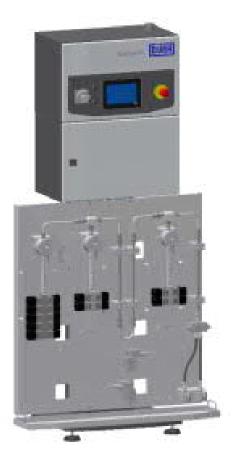




## **Technical features**

#### **Eco**Dose 3K

- 3 independent flushing circuits for component A, B, and C
- Mixing ratio 1:0:0 to 30:1:1 (1K, 2K and 3K possible)
- Working principle based on D.I.T (Direct Injection Technology) for channel A,B,C with 1-2 ml per cycle
- Up to 10 colors, 3 catalysts and 3 thinners





## **Industry 4.0**



- Included in standard configuration, Ethernet
   UDP remote screen to any pc, PLC, etc.
- Preparation of process data from EcoDose on the internal interface

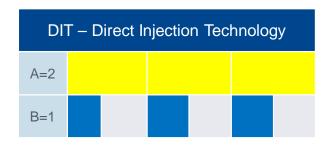
- Standard option available for wifi router to connect any device (smartphone, tablet, pc, ...)
- Complete remote control (as per vnc)
- Possibility of remote assistance and service



## Benchmark Dürr EcoDose



- 1. DIT Direct Injection Technology dosing precision
- 2. Closed Loop Flow Control
- 3. Continuous flow control of each component in cc
- 4. Pot-Life control and monitoring
- 5. High-Quality components from Dürr automotive sector
- 6. Different measuring devices for the flow rate (Coriolis or Gear Cell)
- 7. Fluid panel easy designed (good maintenance)
- 8. Separate fluid board possible
- 9. High variance in our standard configurator
- 10. Dürr Service worldwide available 24/7







# **Live Demo**

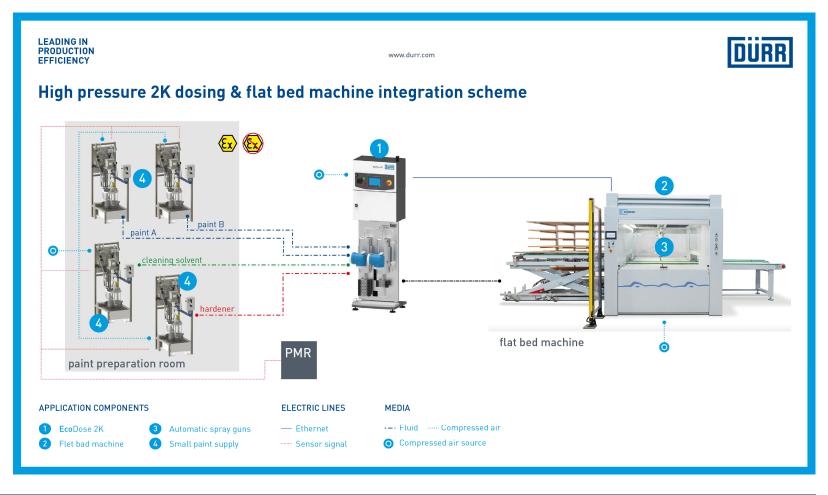
# General functions on HMI **Eco**Dose2K

## **Concept ready2integrate**

## **Scope of Integrator**

DÜRR

- Configuration of the equipment inside Web Shop
- Order Material
- Implement Dürr equipment in external control
- Installation
- Commissioning
- Training



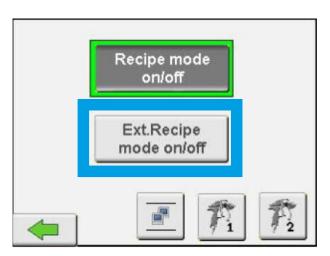
## **External recipe mode**



In external recipe mode control commands are sent from a master controller.

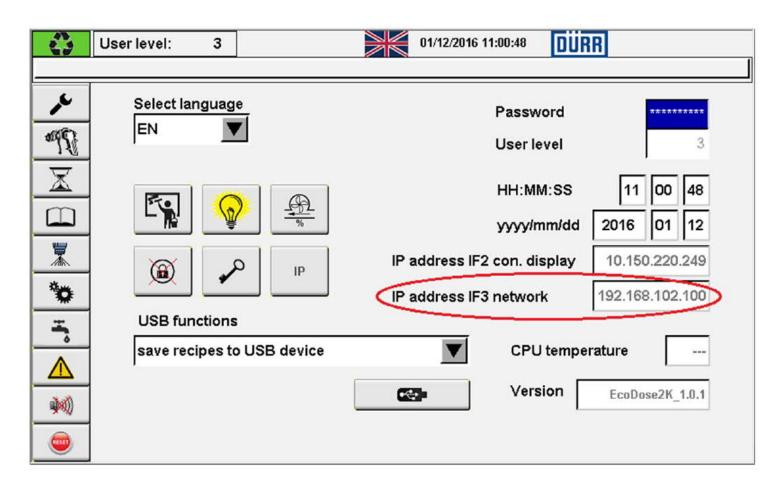
Through the interface the following functions could be externally controlled:

- Selecting recipe dataset
- Switching the station (on/off)
- Starting individual cycle programs (load, purge and long purge)
- Change the recipe in use (color change)
- Synchronizing date and time



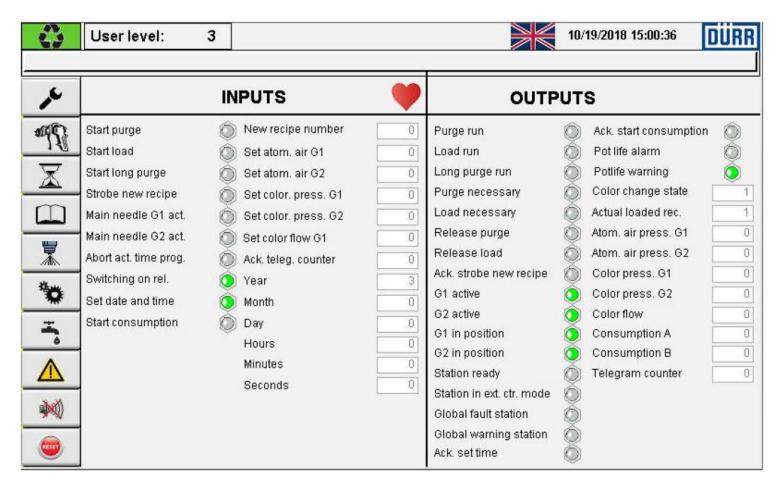
## **External recipe mode**





## **External recipe mode**





# Signal exchange

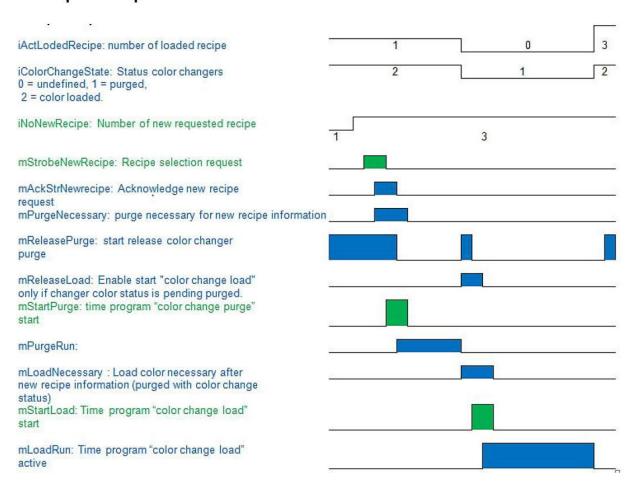


	INPUT FROM EXTERNAL CONTROLLER				OUTPUT TO EXTERNAL CONTROLLER		
0.0	iAckTelCount	INT	Acknowledge telegram counter => Ext	0.0	iTelCount	INT	Telegram Counter. It has to be copied to AckTelCounter on the remote controller
2.0	iDateYear	INT	Date year => Ext				
4.0	bDateMonth	BYTE	Date month => Ext	2.0	iAlarmGrplfoGlb1	INT	Alarm group information byte 0/1 (global alarm)
5.0	bDateDay	BYTE	Date day => Ext			11.00	Alarm group information byte 2/3 (global
6.0	bTimeHours	BYTE	Time hours => Ext	4.0	iAlarmGrplfoGlb2	INT	alarm)
7.0	bTimeMinutes	BYTE	Time minutes => Ext	6.0	iAlarmGrplfoApl1	INT	Alarm group information byte 0/1 (application specific alarm)
8.0	bTimeSeconds	BYTE	Time seconds => Ext				
9.0	iSpareO_9	BYTE		8.0	iAlarmGrplfoApl2	INT	Alarm group information byte 2/3 (application specific alarm)
10.0	iSpareO_10	INT		10.0	iSpare_10	INT	
12.0	iSpareO_12	INT				100000000	
14.0	iSpareO_14	INT		12.0	iSpare_12	INT	
16.0	iSpareO_16	INT		14.0	iSpare_14	INT	
18.0	iSpareO_18	INT		16.0	iSpare_16	INT	
			Release switch on EcoDose2K from main	18.0	iSpare_18	INT	
20.0	mrelStOn	BOOL	station	20.0	mSatatOn	BOOL	Station On

## **Description signal exchange**



#### Example: recipe selection from 1 to 100



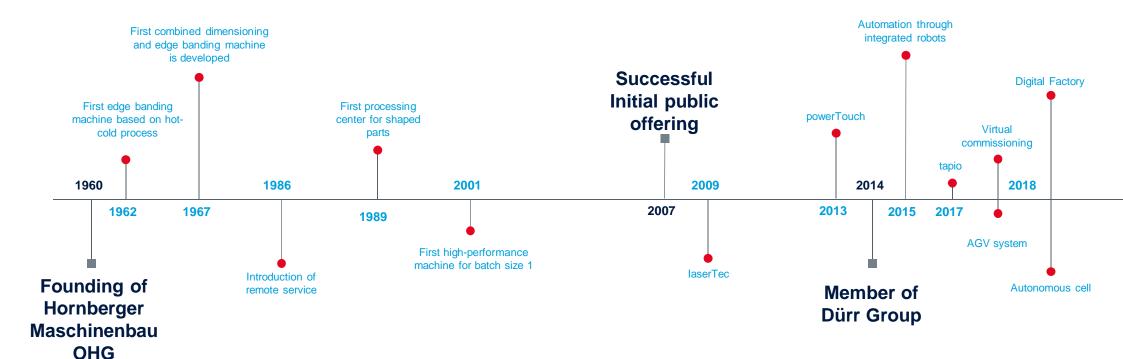


# **Live Demo**

**Small Supply System** 



# A success story Development and innovations





## **Global Player**

Our production, sales and service network





# Living begins with our machines Our business model

HOMAG Group is the world's leading provider of integrated solutions for production in the woodworking industry and woodworking shops.







## **Everything from a single source**

## Our technology portfolio



HOMAG integrates the complete process chain of woodworking.

This means for our customers – Long-term success through precision, innovation and process competence.



























Strategy development/ **Production planning** 

Construction

Data generation

Planning

**Storage** 

Cutting

Collating/ Feeding

Laminating / Sanding / Laquering / **Planing** 

Sizing / Edgebanding

**Drilling/ Fitting** Insertion

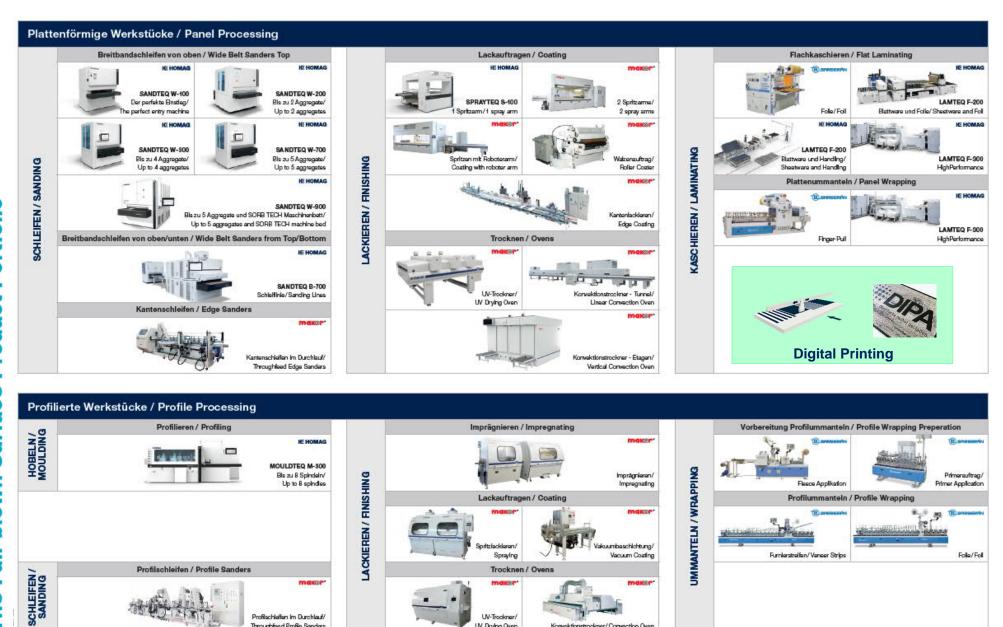
**Assembly** 



Service

# Oberflächen-Produkt-Portfolio Jnser

roduct Surface Full-blown he



UV-Trockner/

Konvektionstrockner/Convection Oven

UV Drying Oven

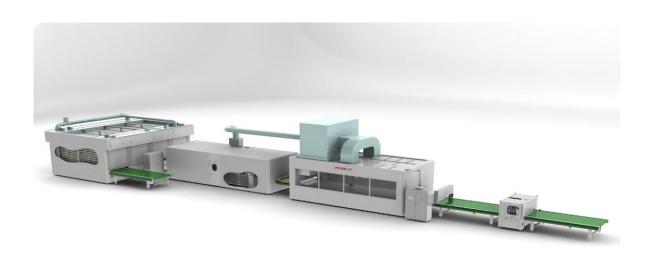
Profilschleifen im Durchlauf/

Throughfeed Profile Sanders



## **HOMAG Product Range Coating**







HE HOMAG YOUR SOLUTION

HIGH-END SOLUTION



# **SPRAYTEQ S-100**Product Portfolio

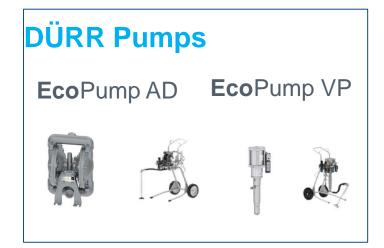
Тур	Autonomous cell, with automated workpiece handling	Vacuum conveyor belt covered with disposable paper			
Ansicht	1 COURTS	\$ 100 to			
Application technology	Single oscillating arm				
Type of feed	Reversing	Through feed			
Transport	Work pieces on trays	Vacuum conveyor with disposable paper			

www.durr.com

# **DÜRR Application Technology**

Standard for SPRAYTEQ S-100











SPRAYTEQ S-100



## One last thing – The HOMAG Surface App Suite

## Your "digital" Swiss Army Knife:

#### Your benefits:

- Digital multi-functional tools
- Simple, user-friendly
- Helps plant operators with everyday tasks
- No connection to the machine suitable for all machine brands and ages

Free of Charge!



HG Homepage



https://www.homag.com/produktdetail/intellicoating-app/









# intelliCoating Tools for more efficient work

## **■ Coil Length**

 Calculation of the remaining running meters of the disposable paper roll

## ■ Application Weight

- Measurement of the applied quantity per m<sup>2</sup>

## ■ Mixing Ratio

Determine the required quantities of each component
 of a mixed coating on the basis of a mixing ratio

#### **■ Flow Time**

 Measurement the viscosity of paints and varnishes according to DIN





October 24.2019 Bietigheim Bissingen www.durr.com

## **Timo Eglauer**

# Station 1 - Integrated products into a painting system (incl. PaintSupply, dosing)

"Subject to change. The information in this presentation contains only general descriptions or performance characteristics, which may vary in different cases. The requested performance characteristics are only binding it they are expressly agreed in the contract."

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www.durr.com

