

The WEKO logo is presented in a white, sans-serif font within a black square. The letters are bold and evenly spaced.

# **WEKO Rotor Application System.**



**WEKO-SIGMA Rotor Carrier.**  
**WEKO-FLOW<sub>textile</sub> Fluid Supply.**

# WEKO Rotor Application System. Innovative.

## Application System For Liquids Onto Material Webs Or Continuously Conveyed Products.

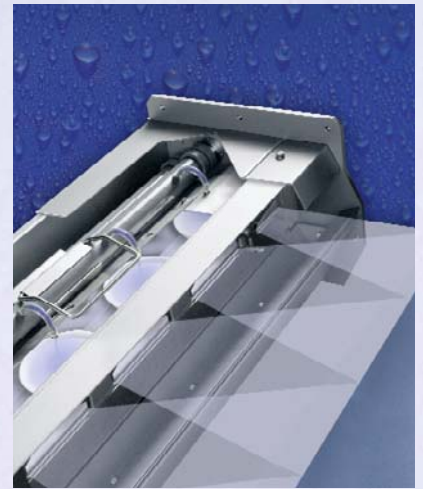
### Function principle

Application occurs by specifically designed spray disks, called rotors, which are located one next to each other within a rotor carrier. The supply unit provides them with the desired liquid quantity. Rapid rotor rotation produces a uniform flow of microscopically small droplets. Adjustable sliders form a defined spray fan on each rotor, and the individual spray fans are

arranged next to each other without a gap and cater for a uniform application.

### Applications

- Conditioning by remoistening after drying processes
- Finishing, coating and impregnating



# WEKO-SIGMA Rotor Carrier. The New Generation.

For this new generation long-term stability, easy operating and maintenance have been brought into focus.

What is more is that the SIGMA rotor carrier is specifically designed for the use of functional and finishing substances.

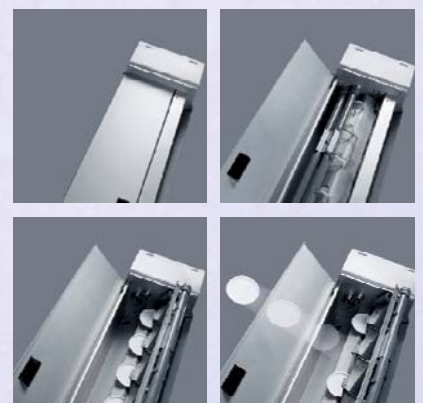
### Advantages

- Quick change-over when changing chemicals
- High extent of long-term stability
- Easy to operate
- Low-maintenance
- Very long service life

### Features

- Plug-type rotors, easy to remove
- Removable fluid supply system
- Driving components and bearings separated from the spray area
- Wide dynamic range with respect to application quantities
- Space-saving

### Easy rotor replacement



# WEKO-FLOW Fluid Supply Unit. Modular Design.

Objective of the FLOW supply unit is to provide the rotor carrier with the liquid required for the desired liquid application. Further the FLOW unit is responsible for the control of the entire rotor application system.

## Function principle

A frequency-controlled rotary pump lifts liquid from the store tank to the rotor carrier via a prefilter. A flow meter monitors the supplied quantity according to the quantity specification and the rotary pump's speed is controlled. The quantity applied is automatically adjusted to the machine speed. Liquid not sprayed by the rotors in the rotor carriers is returned to the supply unit via a return filter. As a result it does not get lost and remains within the liquid circuit.



## Main components

- Store tank
- Rotary pump
- Prefilter
- Hydraulic components for quantity control and liquid supply
- Touch panel to operate the application system and to visualize the system status
- PLC for system control and monitoring

## Advantages

- Specifically designed for the supply to the SIGMA rotor carrier
- Compact space-saving design
- Modular design allows easy adjustment to applications and customer requirements
- Touch panel with user-friendly system interface
- Good accessibility for system service and liquid change
- Low-maintenance
- Flushing program programmable to specific applications and pump-out of residual liquid as standard
- Use of commercial system components



# ***SIGMA & FLOW – Teamwork Of A New Generation.***

## **Perfect Interaction Of Both Components.**

This combination allows you to tailor the rotor application system to a variety of application-specific requirements. That is why an ideal extent of convenience and automation can be achieved.

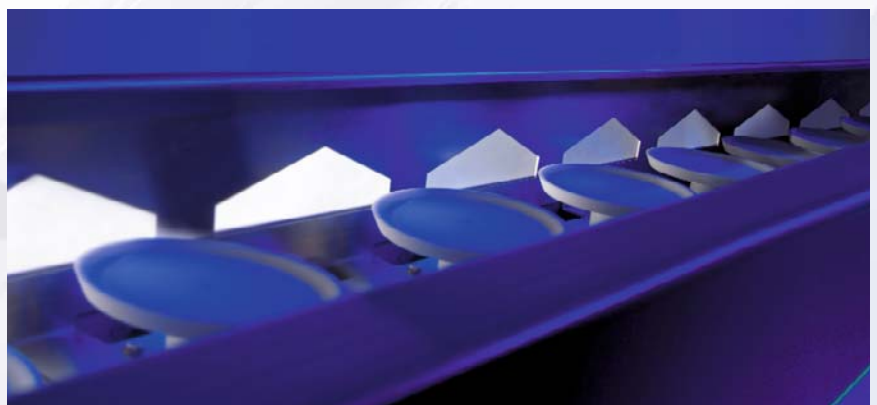
### **Some options**

- Second rotor carrier for two-side application
- Automatic double filter switching for uninterrupted production
- Metering unit for automatic liquid preparation
- Additional monitoring functions for early system fault detection
- Special design adjustments for horizontally conveyed goods
- Kit for the use of nonconducting liquids
- Module throw-off system for automatic web infeed
- Downstream flattening or exposure roller
- Options for control station connection



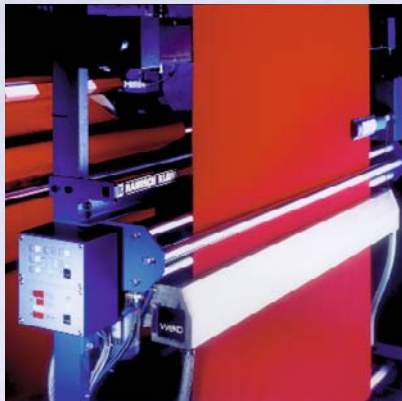
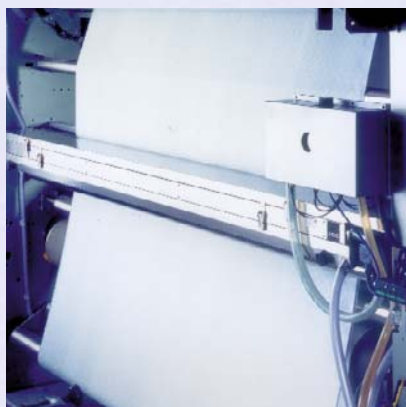
### **Advantages of the WEKO rotor application system**

- Precisely defined application quantity, even in the minimum range
- Reproducible application quantities
- High long-term constancy of liquid quantity and distribution
- Economic use of applied mediums
- Contactless application
- Automatic speed adjustment
- Low energy consumption
- Easy to operate



# Applications – More And More.

This well-proven liquid application system is used in a variety of applications and can be adapted to many different requirements thanks to its variability and modular design. A liquid application system providing a large dynamic range without system adjustments. Even minimum quantities of liquid can be applied in a reproducible and uniform manner.



## Calenders

Web and knitted materials are moistened on one side with 10–15% water. Better compression and gloss of such kind of material is due to this optimized moistening.

## Shrinking, sanforizing

The goods are moistened in a controlled manner at the infeed into the machine. Thanks to this controlled moistening, the goods are ideally fixed in the sanforizing machine.



## Tenter

In the tenter inlet, metered quantities of chemicals can be sprayed onto a single or both material sides.

## Main application:

Flame protection, water- and dirt repelling agents, softeners, etc.

## Application Examples



### Automotive

Surfaces of seat covers must be treated with water- and dirt-repelling agents. Such treatment provides a long-term protection against dirt.



### Drapery

Draperies are preferably sprayed with flame protection agent. The same applies to mattress covers and bed ticks.



### Sailclothes and weather protecting clothing

These materials are treated with water-repelling agents. This treatment makes that the material does not absorb moisture. Water trickles down from the outside.



For worldwide contacts of the WEKO Group see [www.weko.net](http://www.weko.net)

Weitmann & Konrad GmbH & Co. KG  
Friedrich-List-Straße 20-24  
D-70771 Leinfelden-Echterdingen  
Tel. +49 (0) 7 11-7 98 80  
Fax +49 (0) 7 11-7 98 81 14  
E-mail: [info@weko.net](mailto:info@weko.net)